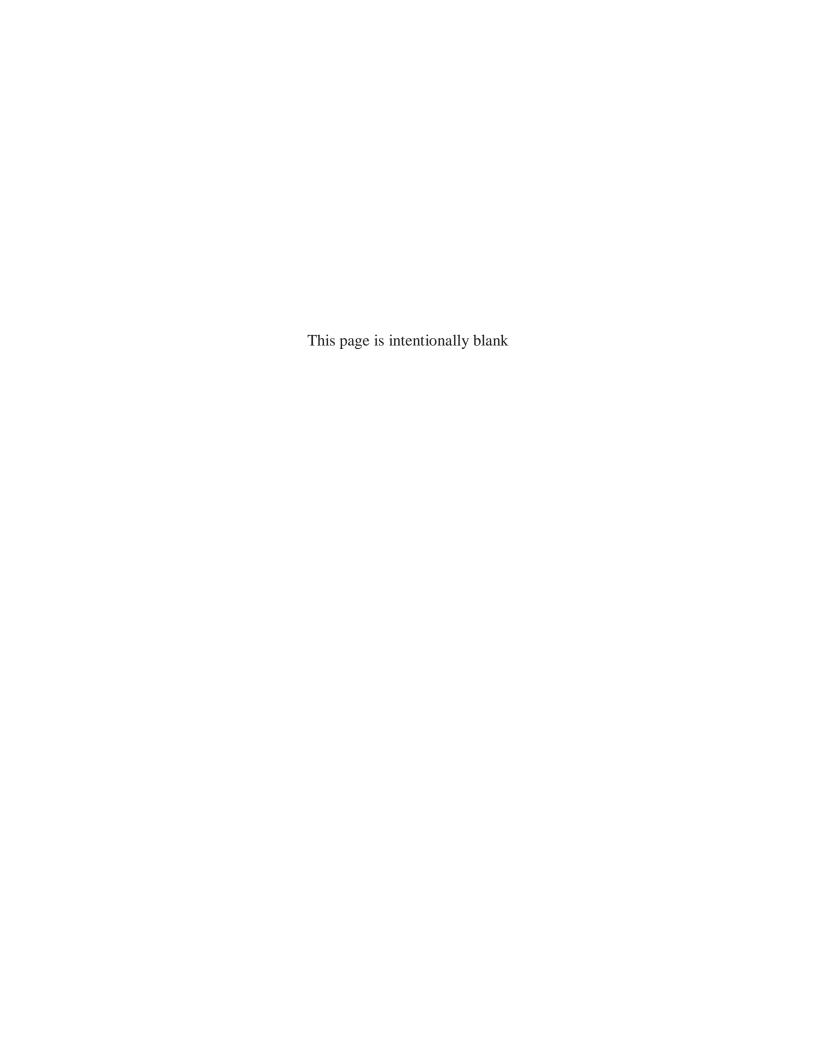
Appendix K Wetland Delineation Report

Louise Solar Project Mower County, Minnesota





Westwood

Main (952) 937-5150 Fax (952) 937-5822

westwoodps.com (888) 937-5150

MEMORANDUM

Date: November 25, 2020

Re: Louise Solar Project

File 0011492.01

To: Steve Lawler, Mower County Soil and Water Conservation District

USACE Mower County Project Manager

Cc: Scott Wentzell, EDF Renewables

From: Robert Cress

Please find enclosed the Joint Application form for Activities Affecting Water Resources in Minnesota and the Wetland Delineation Report for the Louise Solar Project located in Mower County, Minnesota. With this submittal, the Applicant is requesting concurrence from the WCA LGU and USACE that the extent of aquatic resources have been accurately identified.

Please contact me at (952) 697-5789 with any questions.

Project Name and/or Number: Louise Solar Project

PART ONE: Applicant Information

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

Applicant/Landowner Name: EDF Renewables- Attn: Scott Wentzell

Mailing Address: 10 2nd Street Northeast, Suite 400, Minneapolis, MN 55413

Phone: 612-486-4523

E-mail Address: Scott.Wentzell@edf-re.com

Authorized Contact (do not complete if same as above):

Mailing Address:

Phone:

E-mail Address:

Agent Name: Robert Cress-Westwood Professional Services

Mailing Address: 12701 Whitewater Drive, Suite #300, Minnetonka, MN 55343

Phone: 952-697-5789

E-mail Address: Bobby.cress@westwoodps.com

PART TWO: Site Location Information

County: Mower City/Township: Adams and Lodi Townships

Parcel ID and/or Address: 680 Avenue, Adams, MN 55909

Legal Description (Section, Township, Range): T101, R15, Sections 7 and 18/T101, R16, Section 12

Lat/Long (decimal degrees): 43.560025,-92.687514

Attach a map showing the location of the site in relation to local streets, roads, highways. See Exhibit 1.

Approximate size of site (acres) or if a linear project, length (feet): ~613-acre wetland delineation area

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform 4345 2012oct.pdf

PART THREE: General Project/Site Information

If this application is related to a delineation approval, exemption determination, jurisdictional determination, or other correspondence submitted *prior to* this application then describe that here and provide the Corps of Engineers project number.

Describe the project that is being proposed, the project purpose and need, and schedule for implementation and completion. The project description must fully describe the nature and scope of the proposed activity including a description of all project elements that effect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.

The proposed Project consists of a 50 megawatt utility-scale solar facility covering approximately 325 acres. The Project is being permitting through the Minnesota Public Utilities Commission (MPUC), is preliminarily designed to not

2023.		

Project Name and/or Number: Louise Solar Project

PART FOUR: Aquatic Resource Impact¹ Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	drain, or remove	Impact	Size of Impact ²	Overall Size of Aquatic Resource ³	Type(s) in Impact Area ⁴	County, Major Watershed #, and Bank Service Area # of Impact Area ⁵

¹If impacts are temporary; enter the duration of the impacts in days next to the "T". For example, a project with a temporary access fill that would be removed after 220 days would be entered "T (220)".

If any of the above identified impacts have already occurred, identify which impacts they are and the circumstances associated with each:

N/A

PART FIVE: Applicant Signature

Check here if you are requesting a <u>pre-application</u> consultation with the provided. Regulatory entities will not initiate a formal application review if t	·
By signature below, I attest that the information in this application is compleauthority to undertake the work described herein.	ete and accurate. I further attest that I possess the
Signature:	_ Date:
I hereby authorize Westwood Professional Services to act on my behalf as	

Minnesota Interagency Water Resource Application Form February 2014

²Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

³This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A".

⁴Use Wetland Plants and Plant Community Types of Minnesota and Wisconsin 3rd Ed. as modified in MN Rules 8420.0405 Subp. 2.

⁵Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

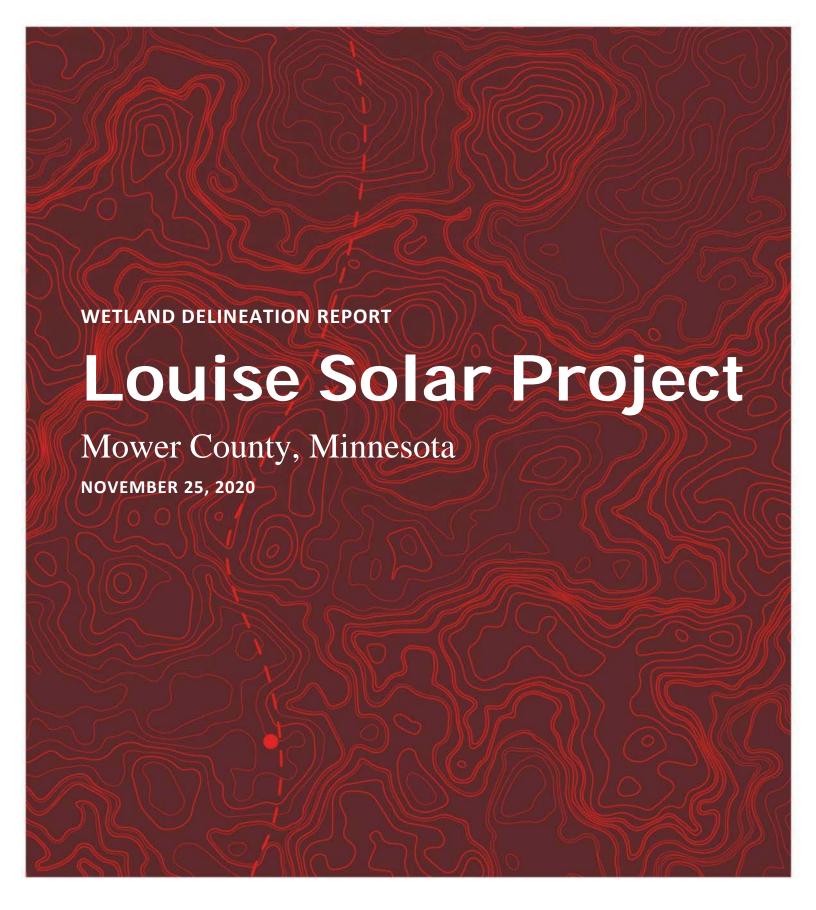
¹ The term "impact" as used in this joint application form is a generic term used for disclosure purposes to identify activities that may require approval from one or more regulatory agencies. For purposes of this form it is not meant to indicate whether or not those activities may require mitigation/replacement.

Project Name and/or Number: Louise Solar Project

Attachment A Request for Delineation Review, Wetland Type Determination, or **Jurisdictional Determination**

By submission of the enclosed wetland delineation report, I am requesting that the U.S. Army Corps of Engineers, St. Paul District

(Corps) and/or the Wetland Conservation Act Local Government Unit (LGU) provide me with the following (check all that apply):
Wetland Type Confirmation
Delineation Concurrence. Concurrence with a delineation is a written notification from the Corps and a decision from the LGU concurring, not concurring, or commenting on the boundaries of the aquatic resources delineated on the property. Delineation concurrences are generally valid for five years unless site conditions change. Under this request alone, the Corps will not address the jurisdictional status of the aquatic resources on the property, only the boundaries of the resources within the review area (including wetlands, tributaries, lakes, etc.).
Preliminary Jurisdictional Determination. A preliminary jurisdictional determination (PJD) is a non-binding written indication from the Corps that waters, including wetlands, identified on a parcel may be waters of the United States. For purposes of computation of impacts and compensatory mitigation requirements, a permit decision made on the basis of a PJD will treat all waters and wetlands in the review area as if they are jurisdictional waters of the U.S. PJDs are advisory in nature and may not be appealed.
Approved Jurisdictional Determination. An approved jurisdictional determination (AJD) is an official Corps determination that jurisdictional waters of the United States are either present or absent on the property. AJDs can generally be relied upon by the affected party for five years. An AJD may be appealed through the Corps administrative appeal process.
In order for the Corps and LGU to process your request, the wetland delineation must be prepared in accordance with the 1987 Corps of Engineers Wetland Delineation Manual, any approved Regional Supplements to the 1987 Manual, and the <i>Guidelines for Submitting Wetland Delineations in Minnesota</i> (2013). http://www.mvp.usace.army.mil/Missions/Regulatory/DelineationJDGuidance.aspx



PREPARED FOR:

EDF Renewables 10 2nd Street Northeast, Suite 400 Minneapolis, MN 55413 PREPARED BY:
Westwood



Wetland Delineation Report

Louise Solar Project

Prepared for:

EDF Renewables 10 2nd Street Northeast, Suite 400 Minneapolis, MN 55413

Project Number: 0014192.01

Date: 11/25/2020

Prepared by:

Westwood Professional Services 12701 Whitewater Drive, Suite 300 Minnetonka, MN 55343 (952) 937-5150

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EXHIBITS

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Exhibit 2: Water Resources

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APPENDICES

Appendix A: Wetland Delineation Data Forms

Appendix B: Wetland Delineation Photographs

Appendix C: Watercourse Photographs and Data Forms

Appendix D: Offsite Hydrology Review

1.0 PURPOSE

This report and the attached exhibits and appendices constitute the wetland delineation report for the Louise Solar Project ("Project" or "Site") in Mower County, Minnesota. The Project consists of 613 acres ("Project Area/Project Boundary") of land primarily used for row crop agriculture. The Mower County Soil and Water Conservation District is the Local Governmental Unit (LGU) that administers the Minnesota Wetland Conservation Act (WCA) in this area. This report provides the required documentation for wetland boundary determinations in conformance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory, Waterways Experiment Station, 1987) and the Regional Supplement to the USACE Wetland Delineation Manual: Midwest Region (U.S. Army Corps of Engineers, 2010). The Joint Application Form for Activities Affecting Water Resources in Minnesota is included with the cover memo to this report.

2.0 SITE LOCATION AND DESCRIPTION

The Project Area is located in Sections 7 and 18, T101N, R15W and Section 12, T101N, R16W Adams and Lodi Townships, Mower County, Minnesota (**Exhibit 1**). The Site mostly consists of row crop agricultural that was planted to corn this season. Smaller stream corridors, tree rows, an old mining pit, and grassy swales are also present. Topography consists of rolling hills, with some descending into the streams present on Site. Elevations range from approximately 1,280 feet to 1,362 feet above mean sea level (msl). The Site is bordered by cultivated fields, rural residences, woodlands, and pastures.

3.0 FIELD DELINEATION METHODOLOGY

3.1 Mapping

Prior to delineating wetland boundaries in the field, the National Wetlands Inventory (NWI) mapping (**Exhibit 2**), the National Hydrography Dataset (NHD) (Exhibit 2), the Minnesota Department of Natural Resources (MN DNR) Public Waters and Wetlands Inventory (PWI) (Exhibit 2), and the Natural Resource Conservation Service (NRCS) Soil Survey Geographic database (SSURGO2) for Mower County (**Exhibit 3**) were reviewed. Elevation mapping was completed using LiDAR contours from MnTOPO (**Exhibit 4**).

3.2 Offsite Hydrology Review

Westwood reviewed historical aerial photography to identify potential wetlands in cultivated portions of the property using the July 1st, 2016 Minnesota Board of Water and Soil Resources (BWSR)/USACE-accepted protocol for conducting off-site wetland determinations, *Guidance for Offsite Hydrology/Wetland Determinations*. Portions of the Site were cultivated since 1991. 25 suspect wetland signatures which required field investigation were identified during the

offsite hydrology review. A total of 13 different aerial photographs were reviewed between 1991 and 2019.

3.3 Wetland Delineation Methodology

The field delineation was conducted on November 2-3, 2020 by a certified wetland delineator from Westwood using a level two routine determination method set forth in the USACE Wetlands Delineation Manual and the supplemental methods set forth in the Regional Supplement to the USACE Wetland Delineation Manual: Midwest Region. Data forms from the delineation are included in **Appendix B**.

Wetlands, if present, were classified according to Wetlands of the United States (U.S. Fish and Wildlife Service Circular 39; Shaw and Fredine; 1971) and Wetlands and Deepwater Habitats of the United States (FWS/OBS Publication 79/31; Cowardin et. al. 1979). Common and scientific names for vegetation identified in this report and on the attached data forms generally correspond with the nomenclature used in the 2016 National Wetland Plant List (Lichvar 2016). Wetland boundaries were located using a Trimble GPS unit capable of sub-meter accuracy.

3.4 Watercourse Delineation Methodology

Drainages within the Project Area were considered non-wetland Waters of the U.S. (WOTUS), as they may not exhibit all parameters required for wetlands (i.e. predominance of hydrophytes, hydric soils and jurisdictional hydrology). Accordingly, their boundaries were delineated in the field by documenting their Ordinary High Water Marks (OHWMs), as determined according to the USACE Regulatory Guidance Letter No. 05-05 (U.S. Army Corps of Engineers 2005). USACE regulations set forth at 33 CFR 328.3(e) defines the OHWM for purposes of Clean Water Act lateral jurisdiction which means that line on the shore established by the fluctuations of water and indicated by physical characteristics including:

- Natural line impressed on the bank
- Changes in the character of soil
- Presence of litter and debris
- Vegetation matted down, bent, or absent
- Leaf litter disturbed or washed away
- Deposition
- Bed and banks
- Change in plant community

- Shelving
- Destruction of terrestrial vegetation
- Wracking
- Sediment sorting
- Scour
- Multiple observed flow events
- Water staining

4.0 RESULTS

4.1 Mapping

NWI data mapped 26 wetland polygons within the Site (Exhibit 2). These are mostly classified as freshwater emergent and riverine.

NHD data mapped 4 flowlines and 4 waterbodies within the Site (Exhibit 2). PWI data mapped 1 stream in the northwest corner of the Site.

The NRCS SSURGO2 for Mower County indicates that the soils listed in **Table 4.1** are mapped within the Site (Exhibit 3). Based on the NRCS Web Soil Survey Hydric Rating, there is one all hydric and five predominantly hydric soil units within the Site.

Table 4.1. Soil Summary Table						
Map Symbol ¹	Map Unit Name ²	Rating ²	Percent Hydric Soil ³			
517	Shandep clay loam	All hydric 100				
88	Clyde silty clay loam, 0 to 3 percent slopes	Predominantly hydric	95			
M515A	Tripoli clay loam, 0 to 2 percent slopes	Predominantly hydric	90			
1904	Udolpho silt loam, loamy substratum	Predominantly hydric	90			
307	Sargeant silt loam	Predominantly hydric	90			
1884	Stateline silt loam	Predominantly hydric	85			
1974	Coland, frequently flooded-Spillville, occasionally flooded complex, 0 to 2 percent slopes	Partially hydric	55			
79B	Billet fine sandy loam, 2 to 6 percent slopes	Predominantly non- hydric	15			
190	Hayfield loam	Predominantly non- hydric	15			
334B	Vlasaty silt loam, 1 to 4 percent slopes	Predominantly non- hydric	10			
244A	Lilah sandy loam, 0 to 2 percent slopes	Predominantly non- hydric	10			
135	Donnan silt loam	Predominantly non- hydric	10			
485	Lawler silt loam	Predominantly non- hydric	8			
516B	Dowagiac loam, 2 to 6 percent slopes	Predominantly non- hydric	8			
479	Floyd silt loam, 1 to 4 percent slopes	Predominantly non- hydric	5			
631	Oran silt loam, 1 to 4 percent slopes	Predominantly non- hydric	5			

Table 4.1. S	Table 4.1. Soil Summary Table						
Map Symbol ¹	Map Unit Name ²	Rating ²	Percent Hydric Soil ³				
23	Skyberg silt loam, 0 to 3 percent slopes	Predominantly non- hydric	5				
24B	Kasson silt loam, 1 to 4 percent slopes	Predominantly non- hydric	5				
M511A	Readlyn silt loam, 1 to 3 percent slopes	Predominantly non- hydric	5				
2A	Ostrander loam, 0 to 2 percent slopes	Non-hydric	0				
634	Protivin silt loam	Non-hydric	0				
1030	Pits, sand and gravel	Non-hydric	0				
483B	Waukee loam, 2 to 5 percent slopes	Non-hydric	0				
2B	Ostrander loam, 2 to 5 percent slopes	Non-hydric	0				
1078	Anthroportic Udorthents, 2 to 9 percent slopes	Non-hydric	0				
1841	Hayfield loam, loamy substratum	Non-hydric	0				
244B	Lilah sandy loam, 2 to 6 percent slopes	Non-hydric	0				

 $^{^{1}}$ – Soils determined using GIS geospatial query clipping the NRCS Soil Survey Geographic (SSURGO2) spatial data by Project boundaries.

4.2 Antecedent Precipitation

Data was collected from the NRCS National Water and Climate Center for the months leading up to the wetland delineation at the Austin Waste Water Treatment Facility, Mower County, Minnesota WETs Station. **Table 2.2** describes the variation in precipitation for the three months prior to field delineation work. The antecedent precipitation was dry for the three complete month's prior to the delineation.

Table 4.2. Precipitation Documentation Worksheet (Score using 1981-2010 time period)						
values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: October 2020	second prior month: September 2020	third prior month: August 2020			
estimated precipitation total for this location:	1.22	2.37	3.42M			
there is a 30% chance this location will have less than:	1.36	2.26	3.09			
there is a 30% chance this location will have more than:	2.86	4.48	5.24			
type of month: dry normal wet	dry	normal	normal			
monthly score	3*1=3	2*2=4	1*2=2			

² – As indicated in the SSURGO2 database

³⁻ Where percentages are small (e.g. < 15 %) the hydric soil is likely an inclusion that is not recognized in the map unit name. The absence of a value does not necessarily indicate the absence of hydric soils, but that the relative percentages of included minor soils have not been determined.

multi-month score:	O (Dm)
6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	9 (DIV)

4.3 Offsite Hydrology Review

The Site was reviewed against various years of aerial imagery prior to the field delineation. 25 suspect areas were identified (SA-1 through SA-25) in the cropped portions of the Site and were reviewed in the field. The results of the offsite hydrology review are included in **Appendix D**.

4.4 On-Site Wetland Delineation Results

On November 2-3, 2020, Westwood determined that there are 11 wetlands present on the Site totaling 6.52 acres (WB-01 – WB-11). Additionally, 15 suspect areas were sampled and determined to be upland in the field (NW-01 – NW-15). **Table 4.4** summarizes the delineated wetlands characteristics. Data forms documenting vegetation, soils, and hydrologic conditions are included in **Appendix A**. Photos were taken of the wetlands and upland suspect areas, and are included in **Appendix B**.

Table 4.4 Delineated Wetlands Summary						
Feature ID	Wetland Type	Dominant Vegetation	Acreage	Mapped on NWI/NHD		
WB-01	PSS1B	Boxelder, reed canary grass, lance-leaved aster		No		
WB-02	PSS1B	Sandbar willow, reed canarygrass	2.38	PUBFx, Mapped on NHD		
WB-03	PEM1B	Reed canary grass, hybrid cattail	0.04	No		
WB-04	PEM1B	Reed canary grass, prairie cordgrass	0.04	R4SBC		
WB-05	PEM1B	Reed canary grass, Kentucky bluegrass	0.79	R4SBC		
WB-06	PEM1Ax	Poa spp.	0.53	PUBFx, Mapped on NHD		
WB-07	PSS1B	Pussy willow, reed canary grass	0.79	PEM1A		
WB-08	PFO1A	Boxelder, reed canary grass	0.40	PEM1A, PFO1A, R2UBH, Mapped on NHD		
WB-09	PSS1B	Sandbar willow, reed canary grass	0.11	PEM1A, R2UBH		
WB-10	PUBFx	Open water	0.37	PUBFx, Mapped on NHD		
WB-11	PSS1B	Red osier dogwood, sandbar willow, reed canary grass	0.38	PEM1A, PFO1A		
Total			6.25			

Additionally, Westwood determined that there are 3 watercourses present on the Site totaling 1.87 acres and 0.64 linear miles (WC-01 - WC-03). Delineated watercourses include an ephemeral stream in the northeast corner of the Site (WC-01), an intermittent stream in the central portion of the Site (WC-02), and a PWI-mapped perennial stream in the northwest corner of the Site (WC-03). Data forms and photos were taken of the watercourse features and are included in **Appendix C**.

5.0 CONCLUSIONS

Westwood field delineated a total of eleven wetlands and three watercourses within the Project Area for the Louise Solar Project. Westwood requests that the LGU and the USACE review and process this report with the provided Joint Application Form and provide written concurrence that the location and extent of jurisdictional aquatic resources have been accurately identified. Please consider this report a formal Wetland Boundary request pursuant to Minn. Rules 8420.0405 and the CWA.

6.0 CERTIFICATION

I certify that, to the best of my knowledge and belief, the wetland delineation completed for this Site is consistent with current wetland delineation practices and guidelines. I have the specific qualifications, education, training, and experience to complete wetland delineations and determinations in accordance with federal and state requirements.

Sincerely,

WESTWOOD PROFESSIONAL SERVICES

Robert Cress

Environmental Scientist

Robert Cross

MN Certified Wetland Delineator No. 1292

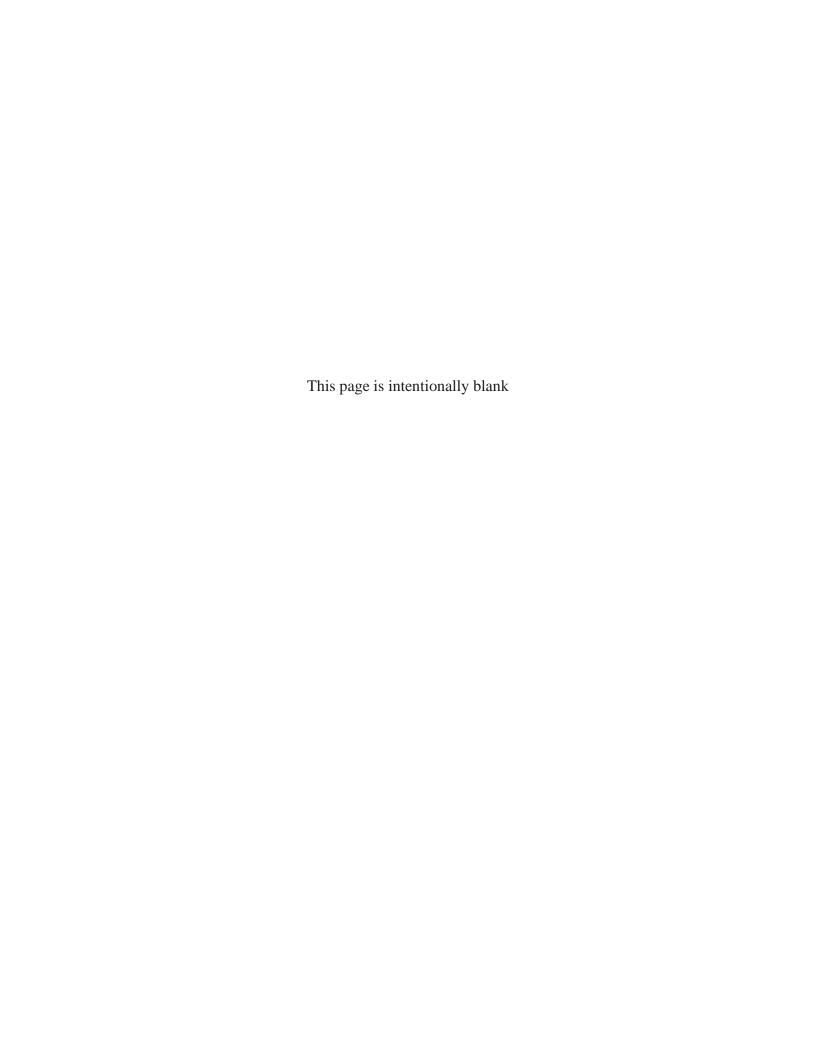
7.0 LITERATURE CITED

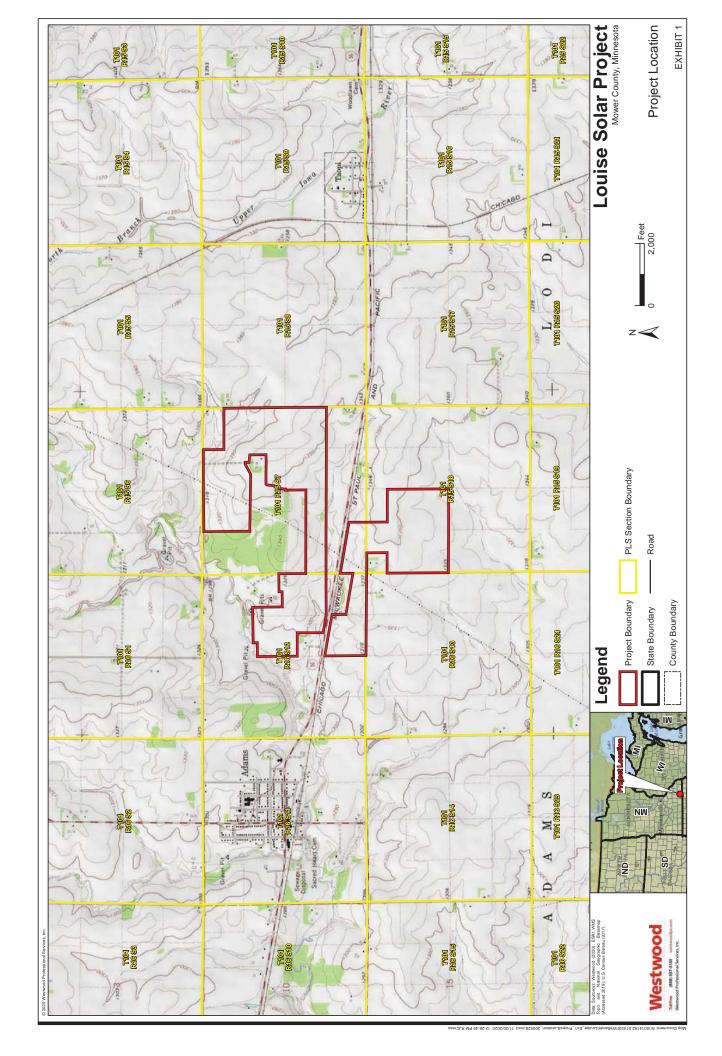
- Cowardin, L.M., V.M. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, Biological Services Program, Washington, DC, USA. FWS/OBS-79/31. 103pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List*: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X
- Shaw, S.P. and C.G. Fredine. 1971. Wetlands of the United States. U.S. Fish and Wildlife Circular 39. U.S. Department of the Interior, Washington, D.C. 67 pp.
- U.S. Army Corps of Engineers, St. Paul District and Minnesota Board of Water and Soils Resources. 2016. *Guidance for Offsite Hydrology/Wetland Determinations*.
- U. S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-16. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- United States Department of Agriculture, Natural Resources Conservation Service, 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. C.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA NRCS, in cooperation with the National Technical Committee for Hydric Soils.

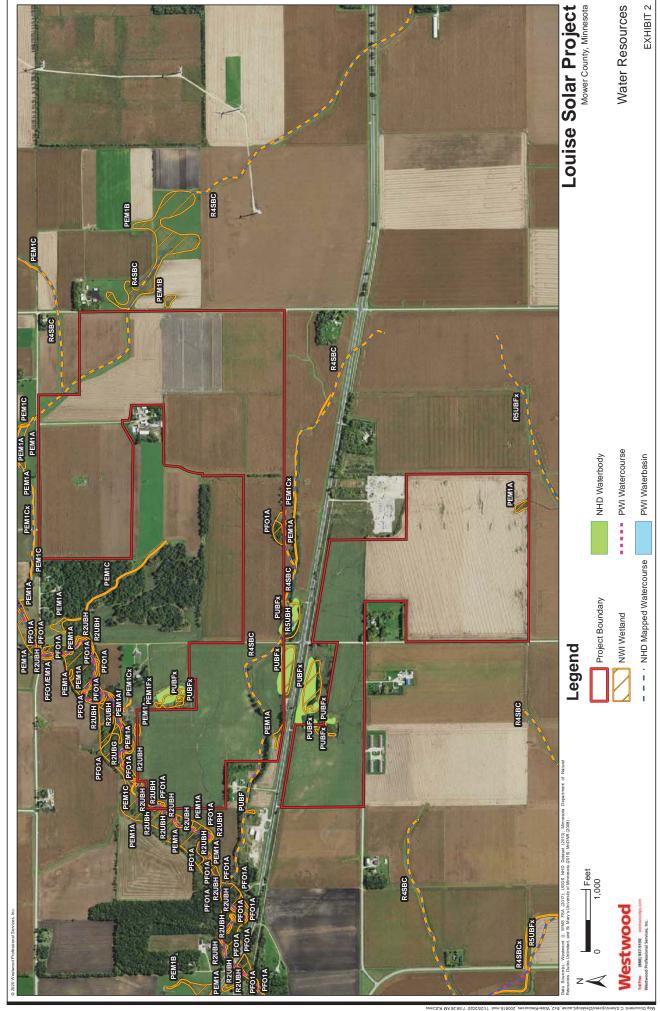
Westwood

Exhibits

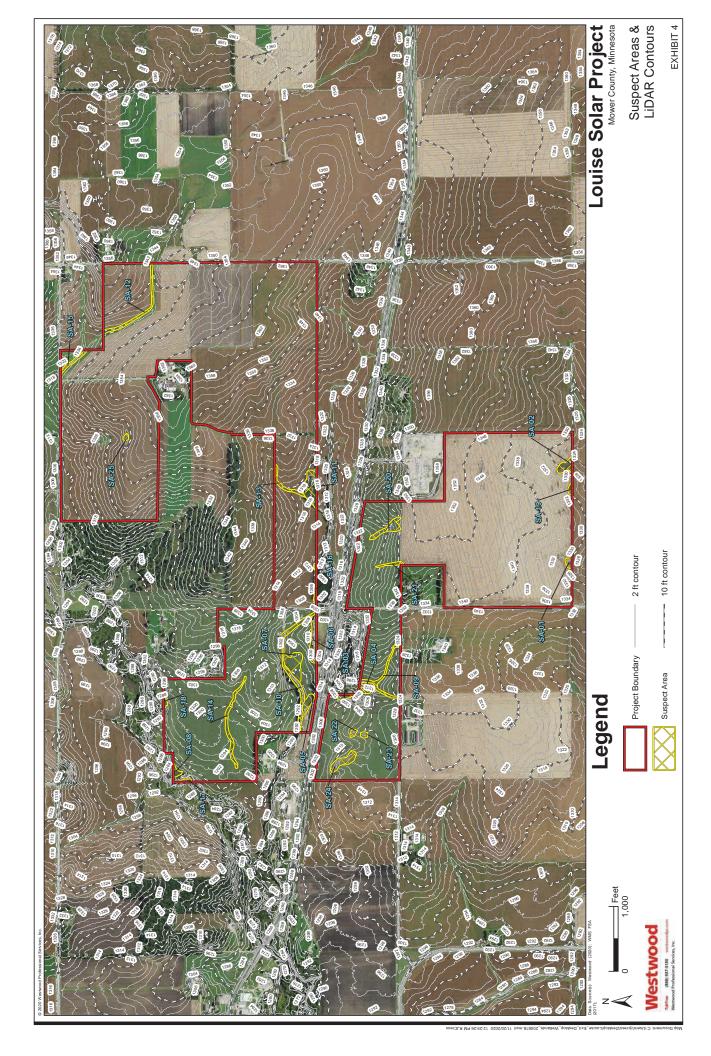
Louise Solar ProjectMower County, Minnesota

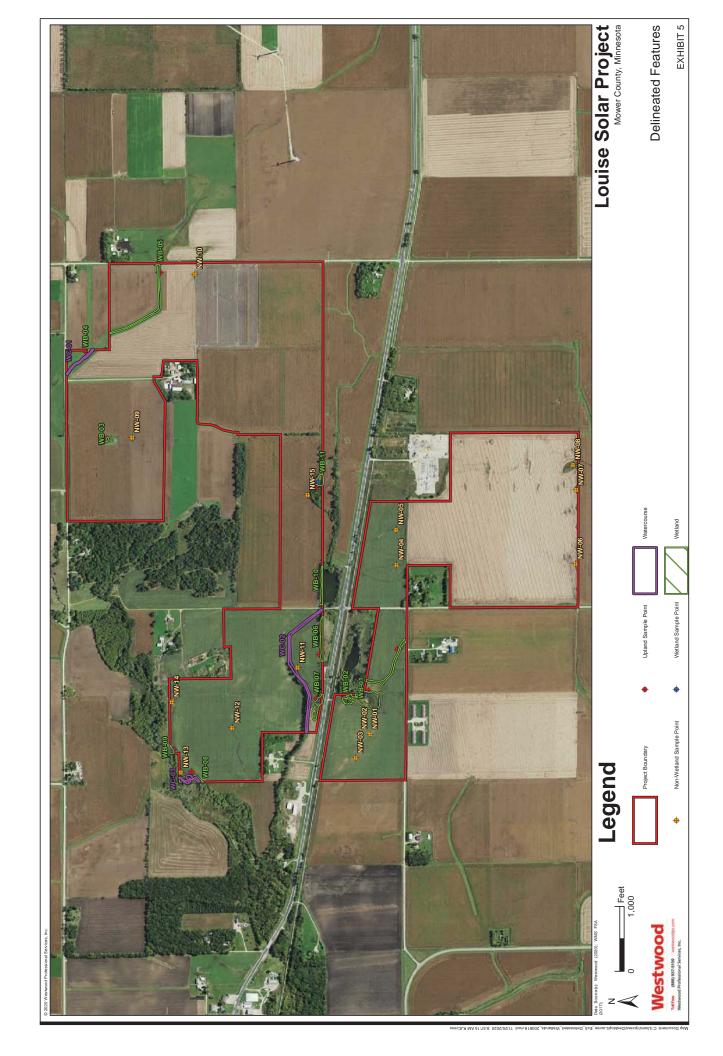












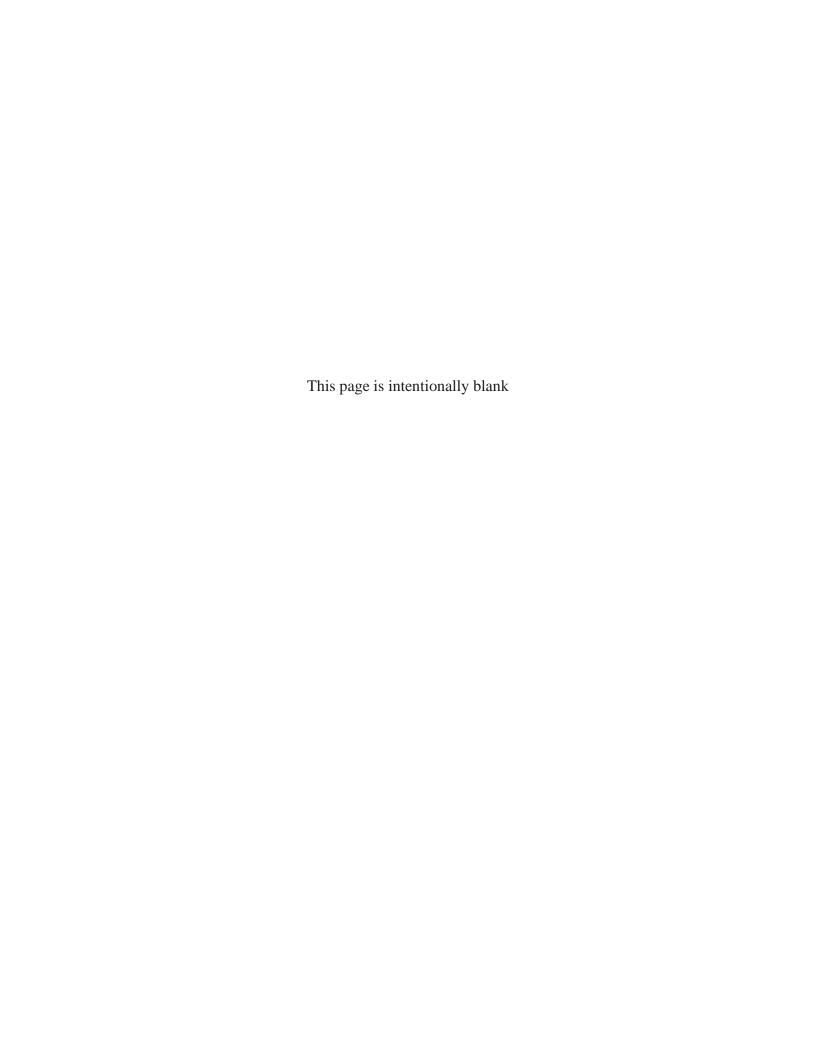


Appendix A

Wetland Delineation Data Forms

Louise Solar Project

Mower County, Minnesota



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Louise Solar	City/County: Mower County Sampling Date: 20	20-11-02		
	State: Minnesota Sampling Point: N	N-01		
	Section, Township, Range: S12, T101, R16			
	Local relief (concave, convex, none): Concave			
Slope (%): 0-2 Lat: 43.5596008				
Soil Map Unit Name: Lilah sandy loam, 0 to 2 percent slope				
Are climatic / hydrologic conditions on the site typical for this time of y				
_	ly disturbed? Are "Normal Circumstances" present? Yes	_ No _ √		
Are Vegetation, Soil, or Hydrology naturally p		_		
	g sampling point locations, transects, important feat	ures, etc.		
Hydrophytic Vegetation Present? Yes No✓	_			
Hydric Soil Present? Yes No✓	Is the Sampled Area			
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes No			
Remarks:	determined to the beautiful to the Cold. As the death and a section			
considered dry for the 3 months prior to the delineatio	s determined to be upland in the field. Antecedent precip on.	itation is		
VEGETATION – Use scientific names of plants.				
Absolute	e Dominant Indicator Dominance Test worksheet:			
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) <u>% Cove</u> 1.	Number of Dominant Species That Are OBL, FACW, or FAC: 0	(A)		
2	Total Number of Dominant	(B)		
4.		(5)		
5	Percent of Dominant Species	(A/B)		
15 ft r	= Total Cover			
Sapling/Shrub Stratum (Plot size: 15 ft r)	Prevalence Index worksheet: Total % Cover of: Multiply b	v.		
1		<u>y.</u>		
2				
3		_		
5	FACU species 0 x 4 = 0			
	= Total Cover UPL species 0 x 5 = 0			
Herb Stratum (Plot size: 5 ft r)		(B)		
2.	Prevalence Index = B/A = 0.0			
3.				
4	4. Destite 115 - 115 - 115 - 115 - 115 - 115 - 115 - 115 - 115	on n		
5				
6	3 - Prevalence Index is ≤3.0 ¹			
7	4 - Morphological Adaptations ¹ (Provide data in Remarks or on a separate sh	ieet)		
9.	Problematic Hydrophytic Vegetation (E	xplain)		
10				
	= Total Cover Tindicators of hydric soil and wetland hydrold be present, unless disturbed or problematic.			
1	Vegetation			
	= Total Cover	_		
Remarks: (Include photo numbers here or on a separate sheet.)	'	$\overline{}$		
No living vegetation is present as the cor	rn has been recently cut. Corn stalks are			

SOIL Sampling Point: NW-01

Profile Description: (Des	cribe to the dep	oth needed to docu	nent the i	indicator	or confirm	n the absence of i	ndicators.)
	atrix		x Feature			_	
(inches) Color (mo		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8 10YR 3/3	100					Sandy loam	
<u>8 - 24</u> <u>7.5YR 4/6</u>	100					Loamy sand	
-							
-							
¹ Type: C=Concentration, E	D=Depletion, RM	=Reduced Matrix, M	S=Masked	d Sand Gra	ains.		L=Pore Lining, M=Matrix.
Hydric Soil Indicators:							Problematic Hydric Soils ³ :
Histosol (A1)			Gleyed Ma			_	rie Redox (A16)
Histic Epipedon (A2) Black Histic (A3)			Redox (S5 d Matrix (S			Dark Surfa	anese Masses (F12)
Hydrogen Sulfide (A4)			Mucky Mir	,			ow Dark Surface (TF12)
Stratified Layers (A5)			Gleyed Ma				plain in Remarks)
2 cm Muck (A10)			d Matrix (,
Depleted Below Dark S	Surface (A11)	Redox	Dark Surfa	ace (F6)			
Thick Dark Surface (A	,			ırface (F7))		nydrophytic vegetation and
Sandy Mucky Mineral	. ,	Redox	Depressio	ns (F8)			drology must be present,
5 cm Mucky Peat or Pe Restrictive Layer (if obse						unless dist	turbed or problematic.
Type:	•						
Depth (inches):						Hydric Soil Pre	esent? Yes No
Remarks:							
No indicators of	hydric so	il were obse	rved.				
HYDROLOGY							
Wetland Hydrology Indica	ators:						
Primary Indicators (minimu	m of one is requi	ired; check all that ap	ply)			Secondary I	ndicators (minimum of two required)
Surface Water (A1)		Water-Sta	ined Leav	es (B9)		Surface	Soil Cracks (B6)
High Water Table (A2)		Aquatic Fa	auna (B13)		Drainag	e Patterns (B10)
Saturation (A3)		True Aqua	itic Plants	(B14)		Dry-Sea	ason Water Table (C2)
Water Marks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish	Burrows (C8)
Sediment Deposits (B2	2)	Oxidized I	Rhizosphe	res on Liv	ing Roots	(C3) Saturati	on Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence	of Reduce	ed Iron (C4	1)		or Stressed Plants (D1)
Algal Mat or Crust (B4))	Recent Iro			d Soils (Ce		rphic Position (D2)
Iron Deposits (B5)		Thin Muck		,		FAC-Ne	eutral Test (D5)
Inundation Visible on A							
Sparsely Vegetated Co	oncave Surface (B8) Other (Ex	olain in Re	emarks)			
Field Observations:		/					
Surface Water Present?		No V Depth (in					
Water Table Present?		No Depth (in					
Saturation Present? (includes capillary fringe)	Yes	No _✓ Depth (in	ches):		_ Wetl	and Hydrology Pr	resent? Yes No
Describe Recorded Data (s	stream gauge, m	onitoring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:							
No other indicate	are of West	IODA DVAROIO					
Tro other malout	ors or wet	iana nyarolo	gy we	re obs	served		

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Louise Solar	City/County: Mower County Sampling Date: 2020-11-02					
	State: Minnesota Sampling Point: NW-02					
	Section, Township, Range: S12, T101, R16					
	Local relief (concave, convex, none): Convex					
	Long: -92.6963089 Datum: WGS 84					
Soil Map Unit Name: Waukee loam, 2 to 5 percent slopes	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of						
	ly disturbed? Are "Normal Circumstances" present? Yes No _ ✓					
Are Vegetation, Soil, or Hydrology naturally p						
	ng sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No	_					
Hydric Soil Present? Yes No✓	Is the Sampled Area					
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes No					
Remarks:						
The sample point is located in a suspect area that was considered dry for the 3 months prior to the delineation	determined to be upland in the field. Antecedent precipitation is on.					
VEGETATION – Use scientific names of plants.						
Absolut	e Dominant Indicator Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft r) % Covernity (Plot size: 30 ft r)	Pr Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)					
2	Total Number of Dominant					
4.						
5	Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)					
Constitution (Charles (Charles 15 ft r	_ = Total Cover Prevalence Index worksheet:					
Sapling/Shrub Stratum (Plot size: 15 ft r)						
1						
2						
3						
5	FACU species 0 x 4 = 0					
	= Total Cover UPL species 0 x 5 = 0					
Herb Stratum (Plot size: 5 ft r)	Column Totals: 0 (A) 0					
2.	Prevalence Index = B/A = 0.0					
3						
4	4. Books Tool Coult Street Coult Coult Coult					
5	2 - Dominance Test is >50%					
6	3 - Prevalence Index is ≤3.0¹					
7	data in Remarks or on a separate sneet)					
9	Problematic Hydrophytic Vegetation (Explain)					
10						
	= Total Cover Tota					
1	Vegetation					
	= Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)						
No living vegetation is present as the co	rn has been recently cut. Corn stalks are					

SOIL Sampling Point: NW-02

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			x Feature			_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²		Remarks	
0-7	10YR 3/3	_ <u>100</u>					Sandy loam		
7-24	7.5YR 4/6	<u> 100</u> _					Loamy sand		
-									
<u> </u>									
	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		PL=Pore Lining, M=Matrix.	
Hydric Soil			Condition	Olavad Ma	-t-i (C.1)			r Problematic Hydric Soils ³ :	
Histosol	pipedon (A2)			Gleyed Ma Redox (S5			_	airie Redox (A16)	
I —	istic (A3)			d Matrix (S			Dark Surface (S7) Iron-Manganese Masses (F12)		
ı —	en Sulfide (A4)			Mucky Mir	,			llow Dark Surface (TF12)	
	d Layers (A5)			Gleyed Ma			Other (Ex	plain in Remarks)	
_	uck (A10)			ed Matrix (,				
ı —	d Below Dark Surfac ark Surface (A12)	ce (A11)	_	Dark Surfa	ace (F6) urface (F7)		3Indicators of	hydrophytic vegetation and	
_	Mucky Mineral (S1)			Depressio		1		ydrology must be present,	
1 — 1	ucky Peat or Peat (S	3)		2 op. 000.0	(. 0)			sturbed or problematic.	
Restrictive	Layer (if observed)	:							
Type:			_						
Depth (in	ches):						Hydric Soil Pr	esent? Yes No	
Remarks:									
No indi	cators of by	dric soil	were obse	rvod					
NO IIIGI	cators of hy	aric soii	were obse	iveu.					
HYDROLO									
Wetland Hy	drology Indicators	:							
Primary India	cators (minimum of	one is require	ed; check all that a	oply)			<u>Secondary</u>	Indicators (minimum of two required)	
I —	Water (A1)		Water-Sta					e Soil Cracks (B6)	
1 — •	High Water Table (A2) Aquatic Fauna (B13)							ge Patterns (B10)	
Saturation			True Aqua		. ,			eason Water Table (C2)	
	larks (B1)		Hydrogen			: D t.		th Burrows (C8)	
	nt Deposits (B2)		Oxidized I			•	—	tion Visible on Aerial Imagery (C9)	
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)								d or Stressed Plants (D1) orphic Position (D2)	
	posits (B5)		Thin Muck			u 00113 (01	<i>-</i>	eutral Test (D5)	
ı —	on Visible on Aerial	Imagery (B7)						odilai 1001 (20)	
	y Vegetated Concav								
Field Obser	vations:	`							
Surface Wat	er Present?	/es N	o Depth (in	ches):		_			
Water Table			o ✓ Depth (in						
					Wetland Hydrology Present? Yes No				
	pillary fringe)								
Describe Re	corded Data (strean	n gauge, mon	litoring well, aerial	pnotos, pr	evious ins	pections),	if available:		
Remarks:									
		المسمالة:	aluala autore	علم مس					
ואס inaid	cators of we	uana ny	arology we	ere obs	serveo	l .			
I									

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Louise Solar	City/County: Mower County Sampling Date: 2020-11-02					
	State: Minnesota Sampling Point: NW-03					
	Section, Township, Range: S12, T101, R16					
	Local relief (concave, convex, none): Convex					
	Long: -92.6977434 Datum: WGS 84					
Soil Map Unit Name: Lilah sandy loam, 0 to 2 persent slope						
Are climatic / hydrologic conditions on the site typical for this time of y						
	y disturbed? Are "Normal Circumstances" present? Yes No _ ✓					
Are Vegetation, Soil, or Hydrology naturally pr						
	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No	Is the Sampled Area					
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes No					
Remarks:						
considered dry for the 3 months prior to the delineation	determined to be upland in the field. Antecedent precipitation is n.					
VEGETATION – Use scientific names of plants.						
Absolute	e Dominant Indicator Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft r) % Cover	r Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)					
2	Total Number of Dominant					
3	Species Across All Strata: 0 (B)					
4	Percent of Dominant Species					
5	That Are OBL, FACW, or FAC: 0 (A/B) _ = Total Cover					
Sapling/Shrub Stratum (Plot size: 15 ft r)	Prevalence Index worksheet:					
1						
2						
3						
4						
5	FACU species $\frac{0}{0}$ x 4 = $\frac{0}{0}$					
Herb Stratum (Plot size: 5 ft r	$ = \text{Total Cover} \qquad \text{UPL species} \qquad 0 \qquad \qquad x = 0 $					
1.	Column Totals: 0 (A) 0 (B)					
2.	Prevalence Index = B/A = 0.0					
3						
4	1 - Rapid Test for Hydrophytic Vegetation					
5	2 - Dominance Test is >50%					
6	3 - Prevalence Index is ≤3.0¹					
7	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)					
8	Problematic Hydrophytic Vegetation (Explain)					
9						
10	1Indicators of hydric soil and wetland hydrology must					
Woody Vine Stratum (Plot size: 30 ft r)	= Total Cover be present, unless disturbed or problematic.					
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	= Total Cover Present? Yes No					
Remarks: (Include photo numbers here or on a separate sheet.)	- "					
No living vegetation is present as the cor	n has been recently cut. Corn stalks are					

SOIL Sampling Point: NW-03

Profile Desc	cription: (Describe	to the depth	needed to docu	nent the i	indicator	or confirm	n the absence	of indicators.)		
Depth	Matrix		Redo	x Feature						
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ²	Texture	Remarks		
0 - 10	10YR 3/3	_ <u>100</u> _					Sandy loam	Gravel present		
10 - 24	7.5YR 4/6	100					Loamy sand			
-										
_										
<u> </u>										
	oncentration, D=Dep	oletion, RM=R	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		: PL=Pore Lining, M=Matrix.		
Hydric Soil								for Problematic Hydric Soils ³ :		
Histosol				Gleyed Ma			Coast Prairie Redox (A16)			
I —	oipedon (A2) istic (A3)			Redox (S5 d Matrix (S			_	Surface (S7) anganese Masses (F12)		
ı —	en Sulfide (A4)			Mucky Mir	,		_	challow Dark Surface (TF12)		
1 — , ,	d Layers (A5)			Gleyed Ma				(Explain in Remarks)		
_	ıck (A10)		Deplete	d Matrix (F3)					
1 — ·	d Below Dark Surfac	e (A11)	_	Dark Surfa			3			
_	ark Surface (A12) Mucky Mineral (S1)				ırface (F7)			of hydrophytic vegetation and		
1 — '	ucky Milheral (ST) ucky Peat or Peat (S	3)	Redox	Depressio	ns (Fo)			d hydrology must be present, disturbed or problematic.		
	Layer (if observed)						1	distance of problematic.		
Type:								,		
1	ches):						Hydric Soil Present? Yes No✓			
Remarks:										
No indi	actors of by	مادند مدنا	wara ahaa	n rod						
No indic	cators of hyd	aric soii	were obse	rvea.						
HYDROLO	GY									
Wetland Hy	drology Indicators:	:								
Primary India	cators (minimum of o	one is require	d; check all that ap	oply)			Seconda	ary Indicators (minimum of two required)		
Surface	Water (A1)		Water-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)			
1 —	High Water Table (A2) Aquatic Fauna (B13)						Drai	nage Patterns (B10)		
Saturation	on (A3)		True Aqua		. ,		Dry-Season Water Table (C2)			
1	larks (B1)		Hydrogen					yfish Burrows (C8)		
	nt Deposits (B2)		Oxidized I			•	—	uration Visible on Aerial Imagery (C9)		
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C						,		nted or Stressed Plants (D1)		
	at or Crust (B4) posits (B5)		Recent ind			a Solis (Co	<i>'</i>	omorphic Position (D2) C-Neutral Test (D5)		
ı —	on Visible on Aerial	Imagery (B7)		,			_ 170	-Nedural Test (Do)		
	Vegetated Concav									
Field Obser		,	,		,					
Surface Wat	er Present?	esN	Depth (in	ches):						
Water Table			Depth (in							
						Wetland Hydrology Present? Yes No				
(includes cap	oillary fringe)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Bomorko:										
Remarks:	_									
No indic	ators of wet	tland hy	drology we	re obs	served	l .				

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Louise Solar	City/C	ounty: Mower C	County	Sampling Date: 2020-11-02
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: NW-04
			s7, T101, R15	
			concave, convex, none):	Concave
	Long:			
Soil Map Unit Name: Readlyn silt loam, 1 to 3 per			NWI classifica	
Are climatic / hydrologic conditions on the site typical for t				
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology			eded, explain any answer	
SUMMARY OF FINDINGS – Attach site may				•
Hydrophytic Vegetation Present? Yes	No✓			
Hydric Soil Present? Yes	No	Is the Sampled		
Wetland Hydrology Present? Yes	No <u>√</u>	within a Wetlan	d? Yes	No
Remarks:				
The sample point is located in a suspect area considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to the considered dry for the 3 months prior to 10 months prior to		mined to be up	oland in the field. An	tecedent precipitation is
VEGETATION – Use scientific names of plant	s.			
		ninant Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size:30 ft r) 1	% Cover Spe		Number of Dominant Sp That Are OBL, FACW, o	
2			Total Number of Domina	ant
3			Species Across All Strat	•
4			Percent of Dominant Sp	pecies
5			That Are OBL, FACW, o	
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tota	al Cover	Prevalence Index work	rsheet:
1			Total % Cover of:	Multiply by:
2.			OBL species 0	x 1 = 0
3			FACW species 0	x 2 = 0
4				x 3 = <u>0</u>
5				x 4 = 0
Lu Louis Str	= Tota	al Cover		x 5 = 0
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u> (B)
1 2			Prevalence Index	= B/A = 0.0
3			Hydrophytic Vegetatio	n Indicators:
4			1 - Rapid Test for H	lydrophytic Vegetation
5.		I	2 - Dominance Test	t is >50%
6			3 - Prevalence Inde	ex is ≤3.0 ¹
7				daptations ¹ (Provide supporting
8		I		or on a separate sheet) Shytic Vegetation¹ (Explain)
9			Problematic Hydrop	onytic vegetation (Explain)
10			¹ Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	= Tota	al Cover	be present, unless distu	
1			Hydrophytic	
2			Vegetation Present? Yes	s No _✓_
Remarks: (Include photo numbers here or on a separate		al Cover		
No living vegetation is present as	the corn ha	s been rec	ently cut. Corn	stalks are

SOIL Sampling Point: NW-04

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	n the absence of	indicators.)	
Depth	Matrix			x Feature					
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ²		Remarks	
0 - 18	10YR 2/1	_ <u>100</u>					Clay loam _		
18 ⁻ 24	10YR 5/3	95	10YR 5/6	5	<u>C</u>	M	Clay loam		
-									
					- ——				
<u> </u>									
¹ Type: C=C	oncentration, D=Dep	oletion, RM	I=Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: I	PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:							r Problematic Hydric Soils³:	
Histosol	(A1)		Sandy	Gleyed Ma	atrix (S4)		Coast Pra	airie Redox (A16)	
Histic E	pipedon (A2)		Sandy I	Redox (S	5)		Dark Sur	face (S7)	
ı —	istic (A3)			d Matrix (,		_	ganese Masses (F12)	
	en Sulfide (A4)				neral (F1)			Illow Dark Surface (TF12)	
	d Layers (A5) uck (A10)			Gleyed M ed Matrix (Other (Explain in Remarks)		
ı —	d Below Dark Surfac	- (Δ11)		Dark Surf	. ,				
I — ·	ark Surface (A12)	æ (A11)	_		urface (F7))	³ Indicators of	f hydrophytic vegetation and	
_	Mucky Mineral (S1)			Depression	, ,	,		hydrology must be present,	
ı — ·	ucky Peat or Peat (S	3)	_	·	, ,			sturbed or problematic.	
Restrictive	Layer (if observed)	:							
Type:									
Depth (in	ches):						Hydric Soil Present? Yes No		
Remarks:									
No indicators of budric coil ways absorred									
No indicators of hydric soil were observed.									
HYDROLO	GY								
Wetland Hy	drology Indicators:	:							
Primary India	cators (minimum of o	one is requ	ired; check all that ap	oply)			Secondary	Indicators (minimum of two required)	
Surface	Water (A1)		Water-Sta	ined Leav	/es (B9)		Surfac	e Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Draina	ge Patterns (B10)	
Saturati	on (A3)		True Aqua	atic Plants	(B14)		Dry-Se	eason Water Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfis	sh Burrows (C8)	
Sedime	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) Satura	tion Visible on Aerial Imagery (C9)	
Drift De	posits (B3)		Presence	of Reduce	ed Iron (C4	1)	Stunte	d or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	6) <u>√</u> Geom	orphic Position (D2)	
Iron Dep	posits (B5)		Thin Muck	Surface	(C7)		FAC-N	leutral Test (D5)	
Inundati	on Visible on Aerial	Imagery (E	37) Gauge or	Well Data	a (D9)				
Sparsely	y Vegetated Concav	e Surface	(B8) Other (Ex	plain in Re	emarks)				
Field Obser			,						
Surface Wat			No Depth (in						
Water Table Present? Yes No _✓ Depth (inches):									
						land Hydrology F	Present? Yes No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
and the second s									
Remarks:									
I									
No otha	r indicators	of wet	land hydrolo	av we	re nho	Server	1		
No othe	r indicators	of wet	land hydrolo	gy we	ere obs	servec	1 .		

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Louise Solar	City/C	ounty: Mower C	county	Sampling Date: 2020-11-02
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: NW-05
			ge: S7, T101, R15	
			concave, convex, none):	Concave
	Long:			
Soil Map Unit Name: Tripoli clay loam, 0 to 2 perc			NWI classifica	
Are climatic / hydrologic conditions on the site typical for the				
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology			eded, explain any answer	
SUMMARY OF FINDINGS – Attach site map				•
Hydrophytic Vegetation Present? Yes	No ✓			-
Hydric Soil Present? Yes	No ✓	Is the Sampled		
Wetland Hydrology Present? Yes	No <u> </u>	within a Wetland	d? Yes	No
Remarks:				
The sample point is located in a suspect area considered dry for the 3 months prior to the d		mined to be up	pland in the field. An	tecedent precipitation is
VEGETATION – Use scientific names of plants				
		ninant Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size:30 ft r) 1	% Cover Spe	cies? Status	Number of Dominant Sp That Are OBL, FACW, of	pecies
2.			Total Number of Demine	
3			Total Number of Domina Species Across All Strat	•
4			Percent of Dominant Sp	ecies
5			That Are OBL, FACW, o	
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tot	al Cover	Prevalence Index work	rsheet:
1			Total % Cover of:	
2.				x 1 = 0
3				x 2 = 0
4.				x 3 = 0
5.			FACU species 0	x 4 = <u>0</u>
	= Tot	al Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u> (B)
1		—— ——	Prevalence Index	= B/A = 0.0
2			Hydrophytic Vegetatio	
4			1 - Rapid Test for H	ydrophytic Vegetation
5		I	2 - Dominance Test	
6.		I	3 - Prevalence Inde	x is ≤3.0 ¹
7				daptations ¹ (Provide supporting
8.		I		or on a separate sheet)
9			Problematic Hydrop	hytic Vegetation ¹ (Explain)
10			11	and water developed
Woody Vine Stratum (Plot size: 30 ft r)	= Tot	al Cover	be present, unless distu	and wetland hydrology must rbed or problematic.
1			Hydrophytic	
2			Vegetation Present? Yes	s No✓
Develop (Inches about a post of the control of the		al Cover		
Remarks: (Include photo numbers here or on a separate				
No living vegetation is present as	the corn ha	s been rec	ently cut. Corn	stalks are
plentiful				

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the	indicator	or confire	n the absence of in	dicators.)			
Depth	Matrix		Redo	x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ² _		Remarks			
0 - 14	10YR 2/1	100					Clay loam				
14 - 24	10YR 5/3	95	10YR 5/6	5	С	М	Clay				
-											
<u> </u>											
-											
¹ Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL:	=Pore Lining, M=Matrix.			
Hydric Soil			·					Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy (Gleyed Ma	atrix (S4)		Coast Prairi	ie Redox (A16)			
Histic E	oipedon (A2)		Sandy F	Redox (S	5)		Dark Surfac	ce (S7)			
ı —	stic (A3)			d Matrix (,			nese Masses (F12)			
	en Sulfide (A4)			-	neral (F1)			w Dark Surface (TF12)			
1	d Layers (A5)				atrix (F2)		Other (Expl	ain in Remarks)			
I —	ick (A10) d Below Dark Surfac	- (Δ11)		d Matrix (Dark Surfa							
ı — ·	ark Surface (A12)	C (A11)	_		urface (F7))	3Indicators of hy	ydrophytic vegetation and			
Sandy Mucky Mineral (S1) Redox Depressions (F8)						'		rology must be present,			
	icky Peat or Peat (S	3)	_				unless distu	irbed or problematic.			
Restrictive	Layer (if observed)	:									
Type:							Unidade Coll Broom				
Depth (in	ches):						Hydric Soil Pres	ent? Yes No			
Remarks:											
No indi	eators of by	dria cail	l word obcor	avod.							
INO IIIGI	cators of hy	JIIC SUII	were obser	veu.							
HYDROLO	GY										
Wetland Hy	drology Indicators										
Primary Indi	cators (minimum of	one is requir	ed; check all that ap	ply)			Secondary In	dicators (minimum of two required)			
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface S	Soil Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage Patterns (B10)				
Saturati	on (A3)		True Aqua	itic Plants	(B14)		Dry-Season Water Table (C2)				
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish	Burrows (C8)			
Sedime	nt Deposits (B2)		Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) Saturatio	n Visible on Aerial Imagery (C9)			
Drift De	oosits (B3)		Presence	of Reduc	ed Iron (C4	4)	Stunted of	or Stressed Plants (D1)			
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	6) <u>√</u> Geomorp	phic Position (D2)			
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)		FAC-Neu	itral Test (D5)			
I —	on Visible on Aerial			Well Data	(D9)						
Sparsel	/ Vegetated Concav	e Surface (E	38) Other (Exp	olain in Re	emarks)						
Field Obser			,								
Surface Wat			No Depth (in			- 1					
Water Table Present? Yes No✓ Depth (inches):								,			
							land Hydrology Pre	esent? Yes No			
	oillary fringe) corded Data (strean	n dalide mo	nitoring well aerial i	photos p	revious ins	nections)	if available:				
Docombo 110	oordod Data (otrodii	· gaago, mo	moning won, aonan	priotoo, p	ovious inc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii availabio.				
Remarks:											
	:	. c									
INO othe	r indicators	or wetla	and nydrolo	gy we	ere obs	serveo	l .				

Project/Site: Louise Solar	_ City/County: Mower	County Sampling Date: 2020-11-02
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: NW-06
Investigator(s): R. Cress	_ Section, Township, Ra	nge: S18, T101, R18
Landform (hillslope, terrace, etc.): Upland, Depression	Local relief	(concave, convex, none): Concave
		Datum: WGS 84
Soil Map Unit Name: Tripoli clay loam, 0 to 2 percent slope		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y		
Are Vegetation, Soil, or Hydrology significantl		
Are Vegetation, Soil, or Hydrology naturally p		eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin		ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No✓	ls the Sampled	, ,
Wetland Hydrology Present? Yes No✓	within a Wetlan	nd? Yes No
Remarks:		unloud in the field. Autocodent nuccinitation is
The sample point is located in a suspect area that was considered dry for the 3 months prior to the delineation		pland in the field. Aftecedent precipitation is
VEGETATION – Use scientific names of plants.		
Absolut		Dominance Test worksheet:
	er Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
1		THAT ARE OBL, PACW, OF PAC.
3		Total Number of Dominant Species Across All Strata: 0 (B)
4.		(5)
5		Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)	_ = Total Cover	Prevalence Index worksheet:
		Total % Cover of: Multiply by:
1		OBL species 0 x 1 = 0
3		FACW species 0 x 2 = 0
4		FAC species 0 x 3 = 0
5		FACU species 0 x 4 = 0
- 6	_ = Total Cover	UPL species 0 x 5 = 0
Herb Stratum (Plot size: 5 ft r)		Column Totals: 0 (A) 0 (B)
1		Prevalence Index = B/A = 0.0
2		Hydrophytic Vegetation Indicators:
4		1 - Rapid Test for Hydrophytic Vegetation
5		2 - Dominance Test is >50%
6.		3 - Prevalence Index is ≤3.0 ¹
7		4 - Morphological Adaptations¹ (Provide supporting
8		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
9		Problematic Hydrophytic Vegetation (Explain)
10		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	_ = Total Cover	be present, unless disturbed or problematic.
1		Hydrophytic
2		Vegetation
	_ = Total Cover	Present? Yes No✓
Remarks: (Include photo numbers here or on a separate sheet.)		
No living vegetation is present as the co	rn has been red	cently cut and tilled. Corn stalks
are plentiful.		

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	the absence	of indicators.)		
Depth	Matrix			x Feature	s			•		
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks		
0 - 28	10YR 2/1	100_					Clay loam			
28 - 32	10YR 5/3	95	10YR 5/6	5	С	M	Clay loam			
<u> </u>										
¹ Type: C=Ce		etion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils³:		
Histosol			Sandy (Gleyed Ma	atriy (S4)			Prairie Redox (A16)		
ı —	oipedon (A2)			Redox (S5			_	urface (S7)		
Black Hi				d Matrix (S				anganese Masses (F12)		
Hydroge	en Sulfide (A4)				neral (F1)			hallow Dark Surface (TF12)		
I —	d Layers (A5)			Gleyed M			Other (Explain in Remarks)		
ı —	ick (A10)	~ (A11)		d Matrix (Dark Surfa	,					
ı —	d Below Dark Surfac ark Surface (A12)	e (ATT)	_		, ,	1	3Indicators	of hydrophytic vegetation and		
Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8)							I hydrology must be present,			
1 – 1	ıcky Peat or Peat (S	3)	_					disturbed or problematic.		
Restrictive I	Layer (if observed)	:								
Type:										
Depth (in	ches):						Hydric Soil	Present? Yes No _✓		
Remarks:							•			
No india	eators of hyd	dric soi	I were obser	rved						
No mak	cators or rigt	ai io 30i	i were obser	vca.						
HYDROLO										
1	drology Indicators:		radi abaak all that am				Casanda	- Indicators (minimum of two required)		
		ne is requi	red; check all that ap		(DO)			ry Indicators (minimum of two required)		
I —	Water (A1)		Water-Stai		, ,		Surface Soil Cracks (B6)			
ı —	ater Table (A2)		Aquatic Fa	,	,		Drainage Patterns (B10)			
Saturation	larks (B1)		True Aqua Hydrogen					Season Water Table (C2) rfish Burrows (C8)		
ı —	nt Deposits (B2)		Oxidized F			ina Roots		ration Visible on Aerial Imagery (C9)		
	posits (B3)		Presence					ited or Stressed Plants (D1)		
I —	at or Crust (B4)		Recent Iro					morphic Position (D2)		
	oosits (B5)		Thin Muck			u 00113 (00		-Neutral Test (D5)		
:	on Visible on Aerial	lmagery (B	_		` '			1100000 (20)		
ı —			B8) Other (Exp							
Field Obser			<u> </u>							
Surface Wat	er Present? Y	'es	No <u>√</u> Depth (in	ches):						
Water Table			No ✓ Depth (in							
Saturation P			No <u>√</u> Depth (inc				and Hydrology	Present? Yes No		
(includes car	oillary fringe)									
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial p	photos, pr	evious ins	pections),	if available:			
D										
Remarks:										
No othe	r indicators	of wetl	and hydrolo	gy we	re obs	served	•			
			-							

Project/Site: Louise Solar	(_ City/County: Mower County Sampling Date: 2020-11-0					
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: NW-07					
Investigator(s): R. Cress	;	Section	n, Tov	wnship, Rar	nge: S18, T101, R15		
Landform (hillslope, terrace, etc.): Upland, Depression						Concave	
Slope (%): 0-2 Lat: 43.5508728	ا	Long: _	-92.	.6821320		Datum: WGS 84	
Soil Map Unit Name: Tripoli clay loam, 0 to 2 percentage	ent slopes				NWI classifica	ation:	
Are climatic / hydrologic conditions on the site typical for the	nis time of yea	ar? Ye	es	No _	✓ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are "I	Normal Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic?	(If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	g point k	ocations, transects,	, important features, etc.	
Hydrophytic Vegetation Present? Yes	No ✓						
Hydric Soil Present? Yes	No✓			e Sampled		,	
Wetland Hydrology Present? Yes	No <u> </u>		withi	n a Wetlan	id? Yes	No	
Remarks:							
The sample point is located in a suspect area considered dry for the 3 months prior to the d			nine	d to be u	pland in the field. An	tecedent precipitation is	
VEGETATION – Use scientific names of plants		•					
VEGETATION – Ose scientific frames of plants	Absolute	Domi	inant	Indicator	Dominance Test works	shoot:	
Tree Stratum (Plot size: 30 ft r)	% Cover				Number of Dominant Sp		
1					That Are OBL, FACW, o		
2					Total Number of Domina	ant	
3					Species Across All Strat	ta: <u>3</u> (B)	
4					Percent of Dominant Sp		
5					That Are OBL, FACW, o	or FAC: 33 (A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Tota	ii Cov	er	Prevalence Index work	ksheet:	
1					Total % Cover of:		
2					OBL species 0	x 1 = 0	
3						x 2 = 0	
4						x 3 = 90	
5						x 4 = <u>280</u>	
Herb Stratum (Plot size: 5 ft r)		= Tota	l Cov	er	UPL species 0	070	
1. Dactylis glomerata	40	✓	′	FACU	Column Totals: 100	(A) <u>370</u> (B)	
2. Bromus inermis	30		,	FACU	Prevalence Index	= B/A = <u>3.7</u>	
3. Setaria pumila	30		<u></u>	FAC	Hydrophytic Vegetatio	n Indicators:	
4.					1 - Rapid Test for H	lydrophytic Vegetation	
5					2 - Dominance Test		
6					3 - Prevalence Inde		
7					4 - Morphological A	daptations ¹ (Provide supporting s or on a separate sheet)	
8						phytic Vegetation ¹ (Explain)	
9					Problematic Hydrop	Trytic vegetation (Explain)	
10					¹ Indicators of hydric soil	and wetland hydrology must	
Woody Vine Stratum (Plot size: 30 ft r	100%	= Tota	l Cov	er	be present, unless distu		
1					Hydrophytic		
2					Vegetation	No √	
		= Tota	l Cov	er	Present? Yes	s No	
Remarks: (Include photo numbers here or on a separate	sheet.)						
The area is dominated by upland g	grasses.						

Profile Desc	cription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confire	n the absence of	indicators.)			
Depth	Matrix			x Feature	s						
(inches)	Color (moist)		Color (moist)	%	_Type ¹	_Loc ² _		Remarks			
0 - 23	10YR 2/1	<u> 100</u> .					Clay loam _				
23 - 28	10YR 5/3	100	/				Clay loam _				
-											
<u> </u>											
	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		PL=Pore Lining, M=Matrix.			
Hydric Soil								r Problematic Hydric Soils ³ :			
Histosol				Gleyed Ma			_	airie Redox (A16)			
I —	oipedon (A2) istic (A3)			Redox (S5 d Matrix (S			Dark Surf	ganese Masses (F12)			
ı —	en Sulfide (A4)			Mucky Mir	,			llow Dark Surface (TF12)			
	d Layers (A5)			Gleyed Ma				plain in Remarks)			
ı —	ıck (A10)			ed Matrix (,						
ı — ·	d Below Dark Surfac	e (A11)	_	Dark Surfa			31	the death of a constation and			
Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8))		hydrophytic vegetation and ydrology must be present,				
ı — ·	Sandy Mucky Mineral (S1) Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3)							sturbed or problematic.			
	Layer (if observed)										
Type:								,			
Depth (in	ches):						Hydric Soil Pr	esent? Yes No			
Remarks:											
No indi	eators of by	dria cail	word obso	ryod							
NO IIIGI	cators of hyd	JIIC SUII	were obse	iveu.							
HYDROLO	GY										
Wetland Hy	drology Indicators:										
Primary India	cators (minimum of o	one is require	ed; check all that a	oply)			Secondary	Indicators (minimum of two required)			
I —	Water (A1)		Water-Sta					e Soil Cracks (B6)			
1 —	ater Table (A2)		Aquatic Fa				Drainage Patterns (B10)				
Saturation	,		True Aqua		. ,			eason Water Table (C2)			
ı —	larks (B1)		Hydrogen			: D t.		th Burrows (C8)			
	nt Deposits (B2)		Oxidized I Presence			-		tion Visible on Aerial Imagery (C9)			
I —	oosits (B3) at or Crust (B4)		Recent Iro		•	,		d or Stressed Plants (D1) orphic Position (D2)			
	posits (B5)		Thin Much			u 00113 (01		eutral Test (D5)			
I — ·	on Visible on Aerial	Imagery (B7	_		, ,						
	y Vegetated Concav										
Field Obser	vations:										
Surface Wat	er Present?	′es N	lo _√_ Depth (in	ches):		_					
Water Table	Present?	'es N	lo _✓_ Depth (in	ches):		_					
Saturation P	resent?	′es N	lo <u>√</u> Depth (in	ches):		Wet	land Hydrology P	Present? Yes No✓			
	oillary fringe)		nitoring well corial	nhataa nu	aulaua ina	nastions	if available:				
Describe Re	corded Data (stream	i gauge, mo	mitoring well, aerial	priotos, pr	evious ins	pections),	ii avallable.				
Remarks:											
No othe	r indicators	ot wetla	and hydrolo	gy we	re obs	served	l.				
1											

Project/Site: Louise Solar	(City/County: Mower County Sampling Date: 2020-11-0					
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: NW-08					
Investigator(s): R. Cress	;	Section, To	ownship, Rar	nge: S18, T101, R15			
Landform (hillslope, terrace, etc.): Upland, Depression					Concave		
Slope (%): 0-2 Lat: 43.5585632		Long:92	2.6691466	i	Datum: WGS 84	4	
Soil Map Unit Name: Tripoli clay loam, 0 to 2 percen				NWI classific			
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes _	No	✓ (If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology sig						No✓	
Are Vegetation, Soil, or Hydrology na				eded, explain any answer			
SUMMARY OF FINDINGS - Attach site map s				ocations, transects	, important fe	atures, etc.	
Hydrophytic Vegetation Present? Yes No	√						
Hydric Soil Present? Yes No	√	ls t	he Sampled		,		
Wetland Hydrology Present? Yes No		with	hin a Wetlan	d? Yes	No		
Remarks:							
The sample point is located in an NWI polygon/s	•			rmined to be upland	l in the field. Ar	ntecedent	
precipitation is considered dry for the 3 months	prior to	the delir	neation.				
VEGETATION – Use scientific names of plants.							
- 20 ft r	Absolute		nt Indicator	Dominance Test works	sheet:		
	% Cover	Species?	? Status	Number of Dominant Sp		(4)	
1				That Are OBL, FACW, o	or FAC: 1	(A)	
2				Total Number of Domina	_	(D)	
3 4				Species Across All Stra	ta: <u>3</u>	(B)	
5.				Percent of Dominant Sp	pecies	(A (D)	
		= Total Co	over	That Are OBL, FACW, o	Dr FAC: <u>33</u>	(A/B)	
Sapling/Shrub Stratum (Plot size: 15 Tt r)				Prevalence Index work	ksheet:		
1. Prunus virginiana	5		_ FACU_	Total % Cover of:		<u>' by:</u>	
2					x 1 = 0		
3					x 2 = 0		
4				FAC species 35			
5				FACU species 60	$ \begin{array}{r} $		
Herb Stratum (Plot size: 5 ft r)	5%	= Total Co	over	Of E species			
1. Solidago canadensis	40	✓	FACU	Column Totals: 105	(A) <u>395</u>	(B)	
2. Andropogon gerardii	35	√	FAC	Prevalence Index	= B/A = <u>3.8</u>		
3. Bromus inermis	15		FACU	Hydrophytic Vegetatio	n Indicators:		
4. Daucus carota	10		UPL	1 - Rapid Test for H		ation	
5				2 - Dominance Tes	t is >50%		
6				3 - Prevalence Inde			
7				4 - Morphological A	daptations¹ (Provi s or on a separate :	de supporting	
8				Problematic Hydrop			
9					onytio vegetation	(Explain)	
10				¹ Indicators of hydric soil	and wetland hydr	oloav must	
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total Co	over	be present, unless distu			
1				Hydrophytic			
2				Vegetation		,	
		= Total Co	over	Present? Yes	s No	<u>′ </u>	
Remarks: (Include photo numbers here or on a separate sh	neet.)						
The area is dominated by big bluest	em an	d Can	ada gold	denrod.			
l l l l l l l l l l l l l l l l l l l			901				

Profile Description: (Describe to the depth needed to document the indicator or confi	m the absence of indicators.)						
Depth Matrix Redox Features	_						
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²							
0 - 16 10YR 2/1 100	Clay loam						
<u>16 - 24</u> <u>10YR 4/3</u> <u>98</u> <u>10YR 5/6</u> <u>2</u> <u>C</u> <u>M</u>	Clay loam						
<u> </u>							
-							
- 							
							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.						
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :						
Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5)	Coast Prairie Redox (A16) Dark Surface (S7)						
Black Histic (A3) Stripped Matrix (S6)	Iron-Manganese Masses (F12)						
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)	Very Shallow Dark Surface (TF12)						
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)						
2 cm Muck (A10) Depleted Matrix (F3)							
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and						
Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8)	wetland hydrology must be present,						
5 cm Mucky Peat or Peat (S3)	unless disturbed or problematic.						
Restrictive Layer (if observed):							
Type:							
Depth (inches):	Hydric Soil Present? Yes No✓						
Remarks:							
No indicators of hydric soil were observed.							
No indicators of flydric soil were observed.							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)						
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)						
High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)						
Saturation (A3) True Aquatic Plants (B14)	Dry-Season Water Table (C2)						
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)						
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)							
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (Calculus Thin Muck Surface (C7)	Stunted or Stressed Plants (D1)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (Call Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (Call Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (Calculus to the property of th	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No ✓ Depth (inches): Water Table Present? Yes No ✓ Depth (inches):	Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): We (includes capillary fringe)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) tland Hydrology Present? Yes No✓						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wes No Depth (inches): No Depth (inches): No No Depth (inches): No No Depth (inches): No No Depth (inches): No	Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) tland Hydrology Present? Yes No✓						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): We (includes capillary fringe)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) tland Hydrology Present? Yes No✓						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): We (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) tland Hydrology Present? Yes No /						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): We (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) tland Hydrology Present? Yes No /						
Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C1) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): We (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) tland Hydrology Present? Yes No /						

Project/Site: Louise Solar	c	City/Co	ounty:	Mower 0	County	Sampling Date:	2020-11-02
Applicant/Owner: EDF Renewables	State: Minnesota	Sampling Point:	NW-09				
Investigator(s): R. Cress	§	Section	n, Tow	vnship, Rar	nge: S7, T101, R15		
Landform (hillslope, terrace, etc.): Upland, Depression						Concave	
Slope (%): 0-2 Lat: 43.5696411	ι	_ong: _	-92.	6790180		Datum: WGS	84
Soil Map Unit Name: Tripol clay loam, 0 to 2 percen					NWI classific		
Are climatic / hydrologic conditions on the site typical for this	time of yea	ır? Ye	s	No	✓ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology si	ignificantly o	disturb	ed?	Are "I	Normal Circumstances" p	resent? Yes _	No <u></u> ✓
Are Vegetation, Soil, or Hydrology n	aturally prob	olemat	tic?	(If ne	eded, explain any answei	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	point lo	ocations, transects	, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes No	o _ √	Т					
Hydric Soil Present? Yes ✓ No	o			Sampled		,	
Wetland Hydrology Present? Yes No	<u> </u>		withi	n a Wetlan	d? Yes	No	
Remarks:							
The sample point is located in a suspect area the center of the area. Antecedent precipitation				-			
VEGETATION – Use scientific names of plants.							
	Absolute	Domi	nant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft r) 1.	% Cover			_Status_	Number of Dominant Sp That Are OBL, FACW, o		(A)
2.					Total Number of Domina		
3					Species Across All Stra		(B)
4					Percent of Dominant Sp	necies	
5					That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Tota	I Cove	er	Prevalence Index worl	ksheet:	
1					Total % Cover of:		oly by:
2					_	x 1 = 0	
3						x 2 = 0	
4.						x 3 = 0	
5.					FACU species 0	x 4 = <u>0</u>	
		= Tota	l Cove	er	UPL species 0	x 5 = <u>0</u>	
Herb Stratum (Plot size: 5 ft r) 1. Zea mays	30	√	,	NI	Column Totals: 0	(A) <u>0</u>	(B)
2					Prevalence Index	= B/A = 0.0	
3					Hydrophytic Vegetation	n Indicators:	
4.					1 - Rapid Test for H	Hydrophytic Vege	etation
5					2 - Dominance Tes	t is >50%	
6.					3 - Prevalence Inde	ex is ≤3.0 ¹	
7.					4 - Morphological A	daptations¹ (Pro	vide supporting
8						s or on a separat	· '
9					Problematic Hydron	onytic vegetation	1 (Explain)
10					¹ Indicators of hydric soil	l and wetland by	drology must
Woody Vine Stratum (Plot size: 30 ft r)	30%	= Tota	l Cove	er	be present, unless distu		
1					Hydrophytic		
2					Vegetation Present? Yes	s No_	✓
		= Tota	I Cove	er	riesent: res		
Remarks: (Include photo numbers here or on a separate s							
Some corn is present, however mos	st of th	e ar	ea v	was av	oided due to th	ne tile inlet	t.

Profile Desc	cription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirn	n the absence of i	indicators.)		
Depth	Matrix			K Feature			_	_		
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks		
0 - 12	10YR 2/1	100_					Clay loam			
<u>12 - 24</u>	10YR 4/1	80	10YR 5/6	20	<u> </u>	<u>M</u>	Clay			
-										
-										
		letion, RM=	Reduced Matrix, MS	=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.		
Hydric Soil			010	N1 N 4	-4 (0.4)			Problematic Hydric Soils ³ :		
Histosol	(A1) pipedon (A2)		Sandy G Sandy R	-	atrix (S4)		Coast Prai	irie Redox (A16)		
I —	stic (A3)		Stripped	•				anese Masses (F12)		
ı —	en Sulfide (A4)				neral (F1)			low Dark Surface (TF12)		
	d Layers (A5)			-	atrix (F2)			plain in Remarks)		
ı —	ıck (A10)		Depleted							
	d Below Dark Surfac	e (A11)	Redox D				3			
	ark Surface (A12)				urface (F7)		hydrophytic vegetation and		
Sandy Mucky Mineral (S1) Redox Depressions (F8) 5 cm Mucky Peat or Peat (S3)							•	rdrology must be present, turbed or problematic.		
	Layer (if observed)						unless dis	turbed of problematic.		
	,									
" —	ches):		_				Hydric Soil Pre	esent? Yes No		
Remarks:										
Hydric	soil observe	d.								
HYDROLO	GY									
Wetland Hy	drology Indicators:									
Primary India	cators (minimum of c	ne is requir	ed; check all that ap	ply)			Secondary I	ndicators (minimum of two required)		
Surface	Water (A1)		Water-Stair	ned Leav	res (B9)		Surface	Soil Cracks (B6)		
High Wa	ater Table (A2)		Aquatic Fa	una (B13	3)		Drainage Patterns (B10)			
Saturation	on (A3)		True Aquat	tic Plants	(B14)			ason Water Table (C2)		
ı —	larks (B1)		Hydrogen \$, ,			n Burrows (C8)		
Sedimer	nt Deposits (B2)		Oxidized R					ion Visible on Aerial Imagery (C9)		
Drift De	posits (B3)		Presence of		,	,		or Stressed Plants (D1)		
	at or Crust (B4)		Recent Iron			d Soils (C6		rphic Position (D2)		
I — :	oosits (B5)	(5)	Thin Muck				FAC-Ne	eutral Test (D5)		
ı —	on Visible on Aerial l / Vegetated Concav									
Field Obser		e Suriace (i	38) Other (Exp	ain in Re	emarks)					
Surface Wat		'es l	No✓ Depth (inc	shee):						
Water Table			No Depth (inc							
Saturation P			No Depth (inc				and Hydrology Pr	resent? Yes No		
(includes ca		es i	No Depti (inc	, i i e s)		_ *****	and riyurology Fr	resent: res NO		
Describe Re	corded Data (stream	gauge, mo	nitoring well, aerial p	hotos, p	revious ins	spections),	if available:			
Remarks:										
No othe	r indicators	of wetl	and hydrolog	gy we	re obs	served	l. Geomorph	nic position not		
			ce of drain t				•	-		

Project/Site: Louise Solar	c	City/Co	ounty:	Mower	County	Sampling Date: _2	2020-11-03	
Applicant/Owner: EDF Renewables		State: Minnesota	Sampling Point:	VW-10				
Investigator(s): R. Cress	8	Section	n, Tov	vnship, Rar	nge: S7, T101, R15			
					(concave, convex, none):	Convex		
Slope (%): 0-2 Lat: 43.5696411		_ong: _	-92.	6790180		Datum: WGS 84	4	
Soil Map Unit Name: Tripoli clay loam, 0 to 2 perce	nt slopes				NWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ır? Ye	s	No	✓ (If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology s	ignificantly d	disturb	ed?	Are "	Normal Circumstances" p	oresent? Yes✓	No	
Are Vegetation, Soil, or Hydrology n	aturally prob	olemat	tic?	(If ne	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing	samı	pling	g point lo	ocations, transects	, important fe	atures, etc.	
Hydrophytic Vegetation Present? Yes✓ N	0							
Hydric Soil Present? Yes N	o	- 1		e Sampled				
Wetland Hydrology Present? Yes N	o <u> </u>		withi	n a Wetlan	d? Yes	No		
Remarks:	:	.e:	al A					
The sample point is located on an unplanted rise in a cornfield. Antecedent precipitation is considered dry for the 3 months prior to the delineation.								
VEGETATION – Use scientific names of plants.							,	
70 ft r	Absolute			Indicator	Dominance Test works	sheet:		
Tree Stratum (Plot size: 30 ft r) 1.	% Cover	Spec	ies?	_Status_	Number of Dominant Sp That Are OBL, FACW, o		(A)	
2					Total Number of Domina	ant		
3					Species Across All Stra	ıta: <u>2</u>	(B)	
4 5.					Percent of Dominant Sp That Are OBL, FACW, o		(A/B)	
	:	= Tota	l Cov	er			(///)	
Sapling/Shrub Stratum (Plot size: 15 ft r)					Prevalence Index worl			
1			—		Total % Cover of: OBL species 0		/ by:	
2					OBL species 0 FACW species 60			
3					FAC species 0			
4					FACU species 40			
5		= Tota	L Cov		UPL species 0			
Herb Stratum (Plot size: 5 ft r)		- 10ta			Column Totals: 100	(A) 280		
1. Phalaris arundinacea	60			FACW			、	
2. Bromus inermis	40			FACU_	Prevalence Index			
3					Hydrophytic Vegetatio			
4					1 - Rapid Test for H		ation	
5					2 - Dominance Tes ✓ 3 - Prevalence Inde			
6					4 - Morphological A		do ounnostina	
7						s or on a separate		
8					Problematic Hydrop	phytic Vegetation ¹	(Explain)	
9								
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Tota	l Cov	er	¹ Indicators of hydric soil be present, unless distu			
1					Hydrophytic			
2.					Vegetation	./		
	:	= Tota	l Cov	er	Present? Yes	s No	<u> </u>	
Remarks: (Include photo numbers here or on a separate s	sheet.)							
Area dominated by reed canarygra	ss and	smo	oth	n brom	e.			

US Army Corps of Engineers

Profile Desc	ription: (Describe	to the der	oth needed to docur	nent the	indicator	or confirn	n the absence	of indicators.)		
Depth	Matrix			x Feature				,		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	_Loc ²	Texture	Remarks		
0 - 36	10YR 2/1	100					Clay loam			
36 - 40	10YR 4/1	98	10YR 5/6	2	С	M	Clay			
-										
l —										
¹ Type: C=Ce		oletion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils³:		
Histosol	(A1)		Sandy 0	Gleyed Ma	atrix (S4)			Prairie Redox (A16)		
ı —	pipedon (A2)			Redox (S5			_	urface (S7)		
Black Hi	stic (A3)			d Matrix (S	,		_	anganese Masses (F12)		
	en Sulfide (A4)			-	neral (F1)			hallow Dark Surface (TF12)		
I —	d Layers (A5)			Gleyed M d Matrix (Other (Explain in Remarks)		
ı —	ick (A10) d Below Dark Surfac	e (A11)		u Matrix (Dark Surfa	,					
ı — ·	ark Surface (A12)	C (****)	_		urface (F7))	3Indicators	of hydrophytic vegetation and		
Sandy Mucky Mineral (S1) Redox Depressions (F8)							l hydrology must be present,			
	icky Peat or Peat (S						unless	disturbed or problematic.		
Restrictive I	Layer (if observed)	:								
Type:							Hydric Soil	Present? Yes No✓		
Depth (in	ches):						Tiyane con	1103cm: 103 110		
INO IIIGIO	Lators of flyt	aric so	il were obser	veu.						
HYDROLO	GY									
Wetland Hy	drology Indicators:									
Primary India	cators (minimum of o	one is requi	ired; check all that ap	ply)			<u>Seconda</u>	ry Indicators (minimum of two required)		
I —	Water (A1)		Water-Sta					ace Soil Cracks (B6)		
ı —	ater Table (A2)		Aquatic Fa	,	,		Drainage Patterns (B10)			
Saturation	, ,		True Aqua					Season Water Table (C2)		
I —	larks (B1) nt Deposits (B2)		Hydrogen			ina Booto		fish Burrows (C8)		
I —	oosits (B3)		Oxidized F					ration Visible on Aerial Imagery (C9) ted or Stressed Plants (D1)		
I —	at or Crust (B4)		Recent Iro		•	•	_	morphic Position (D2)		
	posits (B5)		Thin Muck			u 00110 (00	. —	-Neutral Test (D5)		
:	on Visible on Aerial	lmagery (B					_	(,		
Sparsely	Vegetated Concav	e Surface (B8) Other (Exp							
Field Obser	vations:									
Surface Wat	er Present? Y	'es	No Depth (inc	ches):		_				
Water Table	Present?	'es	No Depth (inc	ches):		_				
Saturation Present? Yes No _✓ Depth (inches): Wetland Hydrology Present? Yes No _✓ (includes capillary fringe)								Present? Yes No		
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial p	photos, pi	evious ins	pections),	if available:			
Remarks:										
No indic	ators of wet	land h	ydrology we	re obs	servec	l.				
			, 0.09, 110		2	. •				

Project/Site: Louise Solar	City/C	City/County: Mower County Sampling Date: 2020-11-03					
Applicant/Owner: EDF Renewables		State: Minnesota	Sampling Point: NW-11				
Investigator(s): R. Cress	on, Township, Rar	nge: S12, T101, R16					
Landform (hillslope, terrace, etc.): Upland, Depression							
Slope (%): 0-2 Lat: 43.5627136	Long:	-92.6924703	3	Datum: WGS 84			
Soil Map Unit Name: Clyde silty clay loam, 0 to 3				ation:			
Are climatic / hydrologic conditions on the site typical for	this time of year? Y						
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology			eded, explain any answer				
SUMMARY OF FINDINGS - Attach site ma			ocations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes	No✓						
Hydric Soil Present? Yes	No	Is the Sampled					
Wetland Hydrology Present? Yes	No <u>√</u>	within a Wetlan	d? Yes	No			
Remarks:							
The sample point is located in a suspect area considered dry for the 3 months prior to the		mined to be up	pland in the field. An	tecedent precipitation is			
VEGETATION – Use scientific names of plan							
	Absolute Don	ninant Indicator	Dominance Test works	sheet:			
Tree Stratum (Plot size:30 ft r) 1	% Cover Spe		Number of Dominant Sp That Are OBL, FACW, o				
2			Total Number of Domina	ant			
3			Species Across All Stra	0			
4			Percent of Dominant Sp	pecies			
5			That Are OBL, FACW, o				
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tot	al Cover	Prevalence Index work	ksheet:			
1			Total % Cover of:	Multiply by:			
2			OBL species 0	x 1 = <u>0</u>			
3			FACW species 0	x 2 = <u>0</u>			
4				x 3 = 0			
5			· ·	x 4 = 0			
Herb Stratum (Plot size: 5 ft r	= Tot	al Cover		x 5 = 0			
1			Column Totals: U	(A) <u>0</u> (B)			
2			Prevalence Index	= B/A = 0.0			
3			Hydrophytic Vegetatio	n Indicators:			
4.			1 - Rapid Test for H	lydrophytic Vegetation			
5.			2 - Dominance Tes				
6			3 - Prevalence Inde				
7			4 - Morphological A	daptations ¹ (Provide supporting			
8				s or on a separate sheet) ohytic Vegetation¹ (Explain)			
9			Problematic Hydrop	Trytic vegetation (Explain)			
10			¹ Indicators of hydric soil	and wetland hydrology must			
Woody Vine Stratum (Plot size: 30 ft r	= Tot	al Cover	be present, unless distu				
1			Hydrophytic				
			Vegetation	/			
	= Tot	al Cover	Present? Yes	s No			
Remarks: (Include photo numbers here or on a separa	te sheet.)						
The area has been harvested and	d tilled so no	living vege	etation remains	s. Corn stalks are			
plentiful.							

Profile Desc	ription: (Describe	to the dep	th needed to docur	ment the	indicator	or confire	n the absence of i	ndicators.)		
Depth	Matrix			x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ _	_Loc ² _		Remarks		
0 - 16	10YR 2/1	100_					Clay loam			
<u>16 - 32</u>	10YR 2/1	90	10YR 5/8	10	<u> </u>	<u>M</u>	Clay loam			
<u>32 - 36</u>	10YR 4/3	95	10YR 5/8	5	<u>C</u>	<u>M</u>	Clay loam			
-										
1Typo: C=C:	ancontration D=Don	lotion PM:		S-Maska	d Sand Gr	——	2l contion: Pl	_=Pore Lining, M=Matrix.		
Hydric Soil		netion, Rivi-	-Neduced Matrix, Mix	0-Waske	u Sanu Gr	allis.		Problematic Hydric Soils ³ :		
Histosol			Sandy (Gleyed M	atrix (S4)			rie Redox (A16)		
I —	oipedon (A2)			Redox (S			Dark Surfa	, ,		
ı —	stic (A3)			d Matrix (,			anese Masses (F12)		
	en Sulfide (A4)				ineral (F1)			ow Dark Surface (TF12)		
I —	d Layers (A5) ick (A10)			ed Matrix	latrix (F2)		Offier (Exp	olain in Remarks)		
_	d Below Dark Surfac	e (A11)		Dark Surf	٠,					
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7))		nydrophytic vegetation and		
ı — ·	fucky Mineral (S1)		Redox I	Depression	ons (F8)		,	drology must be present,		
	cky Peat or Peat (Salayer (if observed):						unless dist	urbed or problematic.		
	Layer (II observed):									
	ches):						Hydric Soil Pre	sent? Yes No✓		
Remarks:										
No indid	cators of hyd	dric soi	l were obsei	rved.						
HYDROLO	GY									
Wetland Hy	drology Indicators:									
1			red; check all that ap	oply)			Secondary Ir	ndicators (minimum of two required)		
Surface	Water (A1)		Water-Sta	ined Leav	/es (B9)		Surface Soil Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage Patterns (B10)			
Saturation	on (A3)		True Aqua	atic Plants	s (B14)		Dry-Season Water Table (C2)			
ı —	larks (B1)		Hydrogen					Burrows (C8)		
	nt Deposits (B2)		Oxidized F			-		on Visible on Aerial Imagery (C9)		
I —	oosits (B3)		Presence		,	,		or Stressed Plants (D1)		
-	at or Crust (B4) posits (B5)		Recent Iro			a Solis (Ci		phic Position (D2) utral Test (D5)		
ı —	on Visible on Aerial	magery (B	_		. ,		170-140	dual rest (DO)		
ı —	/ Vegetated Concave		, <u> </u>							
Field Obser	vations:		, — , ,	<u> </u>	,					
Surface Wat	er Present? Y	es	No Depth (in	ches):		_				
Water Table	Present? Y	es	No Depth (in	ches):		_				
Saturation Present? Yes No V Depth (inches): Wetland Hydrology Present? Yes No V								esent? Yes No		
(includes cap		gauge, mo	onitoring well, aerial	photos p	revious ins	pections).	if available:			
		. gaage,	The street of th	priotoo, p		,,	, ii didiidale:			
Remarks:										
No othe	r indicators	of wetl	and hydrolo	av we	ere obs	serven	I.			
	. maioators	O. WOU		37 W	000		••			

Project/Site: Louise Solar	City/C	ounty: Mower C	ounty	Sampling Date: 2020-11-03
Applicant/Owner: EDF Renewables		State: Minnesota	Sampling Point: NW-12	
Investigator(s): R. Cress				
			concave, convex, none):	Concave
Soil Map Unit Name: Udolpho silt loam, loamy substra			NWI classific	
Are climatic / hydrologic conditions on the site typical for this tir				
Are Vegetation, Soil, or Hydrology sign				
Are Vegetation, Soil, or Hydrology natu			eded, explain any answer	
SUMMARY OF FINDINGS – Attach site map sh				
Hydrophytic Vegetation Present? Yes No _	✓			
Hydric Soil Present? Yes No _	✓	Is the Sampled A		,
Wetland Hydrology Present? Yes No _	<u>✓</u>	within a Wetland	i? Yes	No
Remarks:				
The sample point is located in a suspect area that considered dry for the 3 months prior to the delin		mined to be up	oland in the field. An	itecedent precipitation is
VEGETATION – Use scientific names of plants.				
A	bsolute Dom	ninant Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size:30 ft r)		cies? Status	Number of Dominant Sp That Are OBL, FACW, o	
2			Total Number of Domina	ant
3			Species Across All Strat	•
4			Percent of Dominant Sp	necies
5			That Are OBL, FACW, o	
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tot	al Cover	Prevalence Index work	ksheet:
1			Total % Cover of:	
2			OBL species 0	x 1 = 0
3				x 2 = 0
4				x 3 = <u>0</u>
5				x 4 = 0
- F ##	= Tota	al Cover		x 5 = <u>0</u>
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u> (B)
1		— — I	Prevalence Index	= B/A = 0.0
3		Г	Hydrophytic Vegetatio	
4			1 - Rapid Test for H	lydrophytic Vegetation
5.		I	2 - Dominance Tes	t is >50%
6.			3 - Prevalence Inde	ex is ≤3.0 ¹
7				daptations ¹ (Provide supporting
8				s or on a separate sheet)
9			Problematic Hydrop	ohytic Vegetation ¹ (Explain)
10			¹ Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)	= Tota	al Cover	be present, unless distu	
1			Hydrophytic	
2			Vegetation Present? Yes	s No
Remarks: (Include photo numbers here or on a separate she		al Cover	100	
	,			
The area has been harvested and till	ed so no	living vege	etation remains	. Corn stalks are

Profile Desc	ription: (Describe	to the deptl	needed to docu	ment the i	indicator	or confirm	n the absence of	indicators.)		
Depth	Matrix			x Feature	s					
(inches)	Color (moist)	<u> </u>	Color (moist)	%	_Type ¹	_Loc ² _		Remarks		
0 - 13	10YR 2/1	100					Clay loam _			
<u>13 - 24</u>	10YR 3/2	100	/				Clay loam _			
-										
-										
	oncentration, D=Dep	letion, RM=I	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		PL=Pore Lining, M=Matrix.		
Hydric Soil I								r Problematic Hydric Soils ³ :		
Histosol	. ,			Gleyed Ma			_	airie Redox (A16)		
Black His	oipedon (A2)			Redox (S5 d Matrix (S	· · · · · · · · · · · · · · · · · · ·					
ı —	n Sulfide (A4)			Mucky Mir	,			illow Dark Surface (TF12)		
	Layers (A5)			Gleyed Ma			Very Shallow Dark Surface (1F12) Other (Explain in Remarks)			
2 cm Mu	, ,			ed Matrix (,					
ı — ·	Below Dark Surfac	e (A11)	_	Dark Surfa			31	the death of a second of		
ı —	rk Surface (A12) lucky Mineral (S1)			ed Dark Su Depressio	ırface (F7))		f hydrophytic vegetation and ydrology must be present,		
ı — ·	cky Peat or Peat (S	3)	Nedox	Depressio	113 (1 0)			sturbed or problematic.		
	ayer (if observed):									
Type:			_					,		
Depth (inc	ches):						Hydric Soil Pr	resent? Yes No		
Remarks:										
No indic	atoro of by	dria agil	wore obse	rvod						
No maic	eators of hyd	ilic Soli	were obse	rvea.						
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
Primary Indic	ators (minimum of c	ne is require	ed; check all that a	oply)			Secondary	Indicators (minimum of two required)		
Surface	Water (A1)		Water-Sta				Surface Soil Cracks (B6)			
1 — •	ter Table (A2)		Aquatic Fa				Drainage Patterns (B10)			
Saturation	,		True Aqua		. ,		Dry-Season Water Table (C2)			
I —	arks (B1)		Hydrogen			· D		sh Burrows (C8)		
	t Deposits (B2)		Oxidized I			-		tion Visible on Aerial Imagery (C9)		
I —	osits (B3) t or Crust (B4)		Presence Recent Iro		•	,		d or Stressed Plants (D1) orphic Position (D2)		
	osits (B5)		Thin Muck			u cons (co		leutral Test (D5)		
1	on Visible on Aerial I	magery (B7)	_	,	, ,			1001 (20)		
	Vegetated Concave									
Field Observ					,					
Surface Water	er Present? Y	es N	o Depth (in	ches):		_				
Water Table										
							Present? Yes No ✓			
(includes cap	illary fringe)									
Describe Red	corded Data (stream	gauge, mor	nitoring well, aeriai	photos, pr	evious ins	pections),	if available:			
Remarks:										
	سناه ما المرساء	الدورين كالم	المسامين المصر		ua al-					
INO otnei	r indicators	ot wetla	ına nyarolo	gy we	re obs	serveo	l .			
I										

Project/Site: Louise Solar	City/County:	Mower C	ounty	Sampling Date:	2020-11-03	
Applicant/Owner: EDF Renewables	State: Minnesota Sampling Point: NW-13					
	Section, Township, Range: S12, T101, R16					
Landform (hillslope, terrace, etc.): Upland, Depression	L	ocal relief (d	concave, convex, none):	Concave		
					34	
Soil Map Unit Name: Coland, frequently flooded-Spillville, occassionally						
Are climatic / hydrologic conditions on the site typical for this time of you	ear? Yes	No_1	(If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology significantly					No_✓	
Are Vegetation, Soil, or Hydrology naturally pr						
SUMMARY OF FINDINGS – Attach site map showing					eatures, etc.	
Hydrophytic Vegetation Present? Yes No ✓						
Hydric Soil Present? Yes No✓	ls the	Sampled A		,		
Wetland Hydrology Present? Yes No✓	withir	n a Wetland	l? Yes	No	_	
Remarks:						
The sample point is located in a suspect area that was considered dry for the 3 months prior to the delineation		d to be up	land in the field. Ar	ntecedent pre	cipitation is	
VEGETATION – Use scientific names of plants.						
Absolute			Dominance Test work	sheet:		
Tree Stratum (Plot size:30 ft r) % Cover 1	r Species?		Number of Dominant S That Are OBL, FACW,	pecies or FAC: 0	(A)	
2			Total Number of Domin	ant		
3			Species Across All Stra		(B)	
4			Percent of Dominant Sp	pecies		
5			That Are OBL, FACW,	or FAC: 0	(A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft r)	_ = Total Cove	er _	Prevalence Index wor	ksheet:		
1			Total % Cover of:	Multip	ly by:	
2.			OBL species 0	x 1 = 0		
3			FACW species 0	x 2 = <u>0</u>		
4				x 3 = <u>0</u>		
5				x 4 = 0		
	_ = Total Cove	٠. ا		x 5 = 0		
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u>	(B)	
2.			Prevalence Index	= B/A = 0.0		
3			Hydrophytic Vegetation			
4			1 - Rapid Test for I	- - - - - - - - - - - - - - - - - - -	tation	
5			2 - Dominance Tes	st is >50%		
6			3 - Prevalence Inde	ex is ≤3.0 ¹		
7			4 - Morphological A	\daptations¹ (Prov	vide supporting	
8				s or on a separate	· ′ I	
9			Problematic Hydro	pnytic vegetation	(Explain)	
10			¹ Indicators of hydric soi	il and wetland hyd	Irology must	
Woody Vine Stratum (Plot size: 30 ft r)	_ = Total Cove	er	be present, unless distu			
1			Hydrophytic			
2			Vegetation Present? Yes	s No_	✓	
	_ = Total Cove	er	. resent: Te	NO		
Remarks: (Include photo numbers here or on a separate sheet.)						
The area has been harvested and tilled se	o no livir	ng vege	tation remains	s. Corn sta	lks are	
plentiful.						

US Army Corps of Engineers

Profile Desc	cription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confirr	n the absence of	indicators.)		
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ² _	Texture	Remarks		
0 - 12	10YR 2/1	100					Clay loam _			
12 - 24	10YR 3/2	100	/				Clay loam			
-										
<u> </u>										
	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		PL=Pore Lining, M=Matrix.		
Hydric Soil								r Problematic Hydric Soils ³ :		
Histosol	, ,			Gleyed Ma			_	airie Redox (A16)		
I —	pipedon (A2) istic (A3)			Redox (S5 d Matrix (S			Dark Surf	ganese Masses (F12)		
I —	en Sulfide (A4)			Mucky Mir	,			• • • • • • • • • • • • • • • • • • • •		
	d Layers (A5)			Gleyed Ma			<pre> Very Shallow Dark Surface (TF12) Other (Explain in Remarks)</pre>			
2 cm Mu	uck (A10)		Deplete	ed Matrix (F3)					
ı — ·	d Below Dark Surfac	e (A11)	_	Dark Surfa			3			
I —	ark Surface (A12)				ırface (F7))		hydrophytic vegetation and		
ı — ·	/lucky Mineral (S1) ucky Peat or Peat (S	3)	Redox	Depressio	ns (Fo)			ydrology must be present, sturbed or problematic.		
	Layer (if observed)							sairbed of problematic.		
Type:								,		
1	ches):						Hydric Soil Pr	esent? Yes No		
Remarks:	· -									
No indi	cators of hyd	dric soil	were ohse	rved						
No man	cators or rigt	3110 3011	WCIC ODSC	ı vca.						
HYDROLO										
1	drology Indicators:									
Primary Indi	cators (minimum of o	one is require	ed; check all that a	pply)			Secondary Indicators (minimum of two required)			
I —	Water (A1)		Water-Sta		, ,		Surface Soil Cracks (B6)			
1 — •	ater Table (A2)		Aquatic F				Drainage Patterns (B10)			
Saturation	, ,		True Aqua		. ,		Dry-Season Water Table (C2)			
I —	larks (B1)		Hydrogen			ina Booto		tion Visible on Assial Images (CO)		
	nt Deposits (B2) posits (B3)		Oxidized Presence			-		tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)		
	at or Crust (B4)		Recent Iro		•	,		orphic Position (D2)		
	posits (B5)		Thin Much			u 00110 (01		eutral Test (D5)		
I — ·	on Visible on Aerial	lmagery (B7	_		, ,					
	y Vegetated Concav			plain in Re	emarks)					
Field Obser	vations:									
Surface Wat	er Present?	'es N	lo _√_ Depth (in	iches):		_				
Water Table	Present?	'es N	lo _✓_ Depth (in	iches):		_				
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No							Present? Yes No			
	pillary fringe)	aguae mo	nitoring well aerial	nhotos nr	evioue ine	nections)	if available:			
Describe Re	corded Data (stream	r gauge, mo	mitoring well, aeriai	priotos, pr	evious iris	pections),	, ii avaliable.			
Remarks:										
	min ali t	. .	and level 1							
INO othe	r indicators	ot wetla	and nydrolo	gy we	re obs	served	1.			
1										

Project/Site: Louise Solar	City/County: Mower County Sampling Date: 2020-11-03					
Applicant/Owner: EDF Renewables	State: Minnesota Sampling Point: NW-14					
Investigator(s): _R. Cress	Section, Township, Range: S12, T101, R16					
Landform (hillslope, terrace, etc.): Upland, Depression	Local relief (concave, convex, none): Concave					
Slope (%): 0-2 Lat: 43.5676270	Long: -92.6985262 Datum: WGS 84					
Soil Map Unit Name: Dowagiac loam, 2 to 6 percent slopes	NWI classification: PEM1Ax					
Are climatic / hydrologic conditions on the site typical for this time of y						
Are Vegetation, Soil, or Hydrology significantl	ly disturbed? Are "Normal Circumstances" present? Yes No _ ✓					
Are Vegetation, Soil, or Hydrology naturally p						
	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No✓						
Hydric Soil Present? Yes No✓	Is the Sampled Area					
Wetland Hydrology Present? Yes No✓	within a Wetland? Yes No					
Remarks:						
Antecedent precipitation is considered dry for the 3 m	NWI polygon that were determined to be upland in the field. nonths prior to the delineation.					
VEGETATION – Use scientific names of plants.						
Absolute	e Dominant Indicator Dominance Test worksheet:					
<u>Tree Stratum</u> (Plot size: <u>30 ft r</u>) <u>% Cove</u>	Pr Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)					
2	Total Number of Dominant					
3						
4	Percent of Dominant Species					
5	That Are OBL, FACW, or FAC: 0 (A/B)					
Sapling/Shrub Stratum (Plot size: 15 ft r)	_ = Total Cover Prevalence Index worksheet:					
1	Total % Cover of: Multiply by:					
2.	OBL species 0 x 1 = 0					
3	FACW species 0 x 2 = 0					
4						
5	FACU species 0 x 4 = 0					
5ftr	= Total Cover					
Herb Stratum (Plot size: 5 ft r)	Column Totals: 0 (A) 0 (B)					
1	Prevalence Index = B/A = 0.0					
2						
4						
5						
6						
7.	4 - Morphological Adaptations ¹ (Provide supporting					
8.	data in Remarks of on a separate sheet)					
9.	Problematic Hydrophytic Vegetation (Explain)					
10						
Woody Vine Stratum (Plot size: 30 ft r	= Total Cover Tota					
1						
2	Present? Yes No Y					
Remarks: (Include photo numbers here or on a separate sheet.)	_ = Total Cover					
The area has been harvested and tilled s	so no living vegetation remains. Corn stalks are					

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirn	n the absence	of indicators.)		
Depth	Matrix		Redo	x Feature						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks		
0 - 14	10YR 3/1	100					Sandy loam			
<u> 14 ⁻ 24</u>	10YR 3/2	95	10YR 5/6	5	<u>C</u>	<u>M</u>	Sandy loam	Gravel present		
-										
<u> </u>				- ——						
		oletion, RM	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		: PL=Pore Lining, M=Matrix.		
Hydric Soil								for Problematic Hydric Soils ³ :		
Histosol	. ,			-	atrix (S4)		_	Prairie Redox (A16)		
ı —	oipedon (A2) stic (A3)			Redox (S: d Matrix (,			Surface (S7) anganese Masses (F12)		
ı —	en Sulfide (A4)				neral (F1)		_	Shallow Dark Surface (TF12)		
	d Layers (A5)				atrix (F2)			(Explain in Remarks)		
2 cm Mu	ıck (A10)		Deplete	d Matrix ((F3)		_			
ı —	d Below Dark Surfac	ce (A11)	_	Dark Surf			2			
_	ark Surface (A12)				urface (F7))		of hydrophytic vegetation and		
1 – 1	lucky Mineral (S1) icky Peat or Peat (S	2)	Redox I	Depression	ons (F8)			d hydrology must be present, disturbed or problematic.		
	Laver (if observed)	-					Timess	disturbed of problematic.		
	- Layor (ii oboor vou)									
	ches):						Hydric Soil	Present? Yes No		
Remarks:										
No indic	cators of hye	dric soi	l were obse	rved.						
HYDROLO	GY									
Wetland Hy	drology Indicators	:								
Primary India	cators (minimum of	one is requi	red; check all that ap	oply)			Seconda	ary Indicators (minimum of two required)		
Surface	Water (A1)		Water-Sta		, ,		Surf	face Soil Cracks (B6)		
1 — •	ater Table (A2)		Aquatic Fa				Drainage Patterns (B10)			
Saturation	, ,		True Aqua		. ,		Dry-Season Water Table (C2)			
ı —	larks (B1)		Hydrogen					yfish Burrows (C8)		
	nt Deposits (B2)		Oxidized F			-		uration Visible on Aerial Imagery (C9)		
I —	oosits (B3)		Presence		,	,		nted or Stressed Plants (D1)		
-	at or Crust (B4) posits (B5)		Recent Iro Thin Muck			u Solis (Co		omorphic Position (D2) C-Neutral Test (D5)		
ı —	on Visible on Aerial	Imagery (B	_		` '		_ 170	-Neutral Test (Do)		
ı —	/ Vegetated Concav		, <u> </u>							
Field Obser										
Surface Wat	er Present?	es/es	No <u>√</u> Depth (in	ches):						
Water Table			,							
Water Table Present? Yes No _✓ Depth (inches): Saturation Present? Yes No _✓ Depth (inches): Wetland Hydrology Present? Yes No _✓								v Present? Yes No ✓		
(includes car	oillary fringe)									
Describe Re	corded Data (strean	n gauge, mo	onitoring well, aerial _l	photos, p	revious ins	pections),	if available:			
Remarks:										
No othe	r indicators	of watl	and hydrolo	av wa	ara oba	carvad	ı			
יווט טנוופ	i ilidicators	OI WELI	and mydrolo	gy we	one ons	oci v CU	1.			

Project/Site: Louise Solar	c	City/Cour	nty: Mower 0	County	Sampling Date: 202	0-11-03
Applicant/Owner: EDF Renewables				State: Minnesota	Sampling Point: NW-	-15
Investigator(s): R. Cress	{	Section,	Township, Ran	nge: S7, T101, R15		
				concave, convex, none):	Concave	
Slope (%): <u>3-7</u> Lat: <u>43.5622559</u>	ι	_ong:9	92.6823715		Datum: WGS 84	
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 pe	ercent slo	pes		NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this	time of yea					
Are Vegetation, Soil, or Hydrology si	ignificantly o	disturbed	l? Are "I	Normal Circumstances" p	resent? Yes	No
Are Vegetation, Soil, or Hydrology na	aturally prob	olematic?	? (If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sampli	ing point lo	ocations, transects	, important featu	res, etc.
Hydrophytic Vegetation Present? Yes No	- √					
Hydric Soil Present? Yes No			the Sampled		,	
Wetland Hydrology Present? Yes No		wi	ithin a Wetlan	d? Yes	No	
Remarks:						
The sample point is located in a suspect area the considered dry for the 3 months prior to the de			ned to be u	pland in the field. An	itecedent precipit	ation is
VEGETATION – Use scientific names of plants.						
VEGETATION — Ose scientific frames of plants.	Absolute	Domina	ant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft r)			s? Status	Number of Dominant Sp		
1				That Are OBL, FACW, o		_ (A)
2				Total Number of Domina	ant	
3				Species Across All Stra	ta: <u>2</u>	(B)
4				Percent of Dominant Sp		
5		- Total C		That Are OBL, FACW, o	or FAC: 50	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total C	Jover	Prevalence Index work	ksheet:	
1				Total % Cover of:		
2					x 1 = 0	
3				FACW species 30		_
4				FAC species 10	x 3 = <u>30</u>	_
5				FACU species 60	x 4 = 240	
Herb Stratum (Plot size: 5 ft r)		= Total C	Cover	UPL species 0		— ,
1 Dactylis glomerata	50	✓	FACU	Column Totals: 100	(A) <u>330</u>	(B)
2. Phalaris arundinacea	30	√	FACW	Prevalence Index	= B/A = 3.3	
3. Bromus inermis	10		FACU	Hydrophytic Vegetatio	n Indicators:	
4. Setaria pumila	10		FAC	1 - Rapid Test for H		
5				2 - Dominance Tes		
6				3 - Prevalence Inde		
7				4 - Morphological A	Adaptations¹ (Provide s s or on a separate shee	upporting
8				Problematic Hydrop	•	
9					,	,
10				¹ Indicators of hydric soil	l and wetland hydrolog	y must
Woody Vine Stratum (Plot size: 30 ft r)	100%_	= Total C	Cover	be present, unless distu	irbed or problematic.	
1				Hydrophytic		
2				Vegetation Present? Yes	s No✓	
		= Total C	Cover	rieseitt fes	, NO	
Remarks: (Include photo numbers here or on a separate s	sheet.)					
The area is dominated by grasses.						

Profile Desc	cription: (Describe	to the dept	h needed to docu	ment the	indicator	or confirn	n the absence of in	dicators.)			
Depth	Matrix			ox Feature				•			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	Texture	Remarks			
0 - 28	10YR 2/1	<u> 100</u>					Loam				
28 - 32	10YR 4/1	100	/				Clay loam				
-											
¹ Type: C=C	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Indicators for P	Problematic Hydric Soils ³ :			
Histosol	(A1)			Gleyed Ma			_	e Redox (A16)			
I —	pipedon (A2)			Redox (S5	•		Dark Surfac	• •			
ı —	istic (A3)			d Matrix (S	,		Iron-Manganese Masses (F12)				
	en Sulfide (A4) d Layers (A5)			Mucky Min Gleyed Ma				w Dark Surface (TF12)			
1	uck (A10)			ed Matrix (Other (Explain in Remarks)				
_	d Below Dark Surfac	ce (A11)		Dark Surfa							
ı —	ark Surface (A12)		_	ed Dark Su	, ,)	3Indicators of hy	drophytic vegetation and			
Sandy N	Mucky Mineral (S1)		Redox	Depressio	ns (F8)		wetland hyd	rology must be present,			
	ucky Peat or Peat (S						unless distu	rbed or problematic.			
1	Layer (if observed)										
" —							Hydric Soil Pres	ent? Yes No			
Depth (in	ches):		_				Tiyane oon Tres	HO			
Remarks:											
No indi	cators of hyd	dric soil	were obse	rved							
110 111011	outoro or my	u110 0011		. voa.							
HYDROLO	GY										
Wetland Hy	drology Indicators:	:									
Primary Indi	cators (minimum of	one is require	ed; check all that a	pply)			Secondary Inc	dicators (minimum of two required)			
Surface	Water (A1)		Water-Sta	ained Leav	res (B9)		Surface Soil Cracks (B6)				
High Wa	ater Table (A2)		Aquatic F	auna (B13	6)		Drainage	Patterns (B10)			
Saturati	on (A3)		True Aqu	atic Plants	(B14)		Dry-Seas	on Water Table (C2)			
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)				
Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation	n Visible on Aerial Imagery (C9)			
I —	posits (B3)		Presence	of Reduce	ed Iron (C4	1)		or Stressed Plants (D1)			
	at or Crust (B4)		Recent Ire	on Reducti	ion in Tille	d Soils (Ce		hic Position (D2)			
'	posits (B5)		Thin Muc				FAC-Neu	tral Test (D5)			
1 —	on Visible on Aerial				. ,						
	y Vegetated Concav	e Surface (B	8) Other (Ex	plain in Re	emarks)						
Field Obser		,									
Surface Wat			lo Depth (ir								
Water Table			lo Depth (ir								
Saturation P		/es N	lo <u>✓</u> Depth (ir	nches):		_ Wetl	and Hydrology Pre	sent? Yes No✓			
	(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
	danger, manager, manager, protection, protection, in attainable.										
Remarks:											
No other	r indicators	of works	and budgets		ro obs	orus d	I				
INO othe	r indicators	or wetla	ana nyarok	gy we	ere obs	ervea	l .				
1											

Project/Site: Louise Solar	City/County: Mower County Sampling Date: 2020-11-02					
Applicant/Owner: EDF Renewables	State: Minnesota Sampling Point: WB-01-up					
	Section, Township, Range: S12, T101, R16					
Landform (hillslope, terrace, etc.): Upland, Hillslope	Local relief (concave, convex, none): Concave					
		Datum: WGS 84				
Soil Map Unit Name: Skyberg silt loam, 0 to 3 percent slop		NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of y						
Are Vegetation, Soil, or Hydrology significantl						
Are Vegetation, Soil, or Hydrology naturally p		ded, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showin						
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No✓	Is the Sampled /	, ,				
Wetland Hydrology Present? Yes No	within a Wetland	d? Yes No✓				
Remarks:		that is a small day for the Constitution				
Upland sample point is located in a harvested corn fiel prior to the delineation.	a. Antecedent precip	oltation is considered dry for the 3 months				
VEGETATION – Use scientific names of plants.						
Absolute	e Dominant Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30 ft r) % Cove	r Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)				
2		Total Number of Dominant Species Across All Strata: 0 (B)				
4.						
5		Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)				
Sapling/Shrub Stratum (Plot size: 15 ft r)	_ = Total Cover	Prevalence Index worksheet:				
Sapling/Snrub Stratum (Plot size:) 1		Total % Cover of: Multiply by:				
2.	I	OBL species 0 x 1 = 0				
3.		FACW species $0 \times 2 = 0$				
4		FAC species 0 x 3 = 0				
5.		FACU species $0 \times 4 = 0$				
		UPL species 0 x 5 = 0				
Herb Stratum (Plot size: 5 ft r) 1.		Column Totals: 0 (A) 0 (B)				
2.		Prevalence Index = B/A = 0.0				
3.		Hydrophytic Vegetation Indicators:				
4		1 - Rapid Test for Hydrophytic Vegetation				
5		2 - Dominance Test is >50%				
6		3 - Prevalence Index is ≤3.0 ¹				
7		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
8		Problematic Hydrophytic Vegetation¹ (Explain)				
9						
Woody Vine Stratum (Plot size: 30 ft r	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
1		Hydrophytic				
2		Vegetation Present? Yes No✓				
Remarks: (Include photo numbers here or on a separate sheet.)	_ = Total Cover					
No living vegetation is present as the co	n nas all been h	larvested. Corn stalks are				

Sampling Point: WB-01-up

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	_Type ¹ _	Loc ²	Texture Remarks	
0 - 26	10YR 3/1	_ <u>100</u>					Clay loam	
<u>26 - 30</u>	10YR 3/2	100					Clay loam	
-								
				- ——				
<u> </u>								
	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Ma	
Hydric Soil							Indicators for Problematic Hydric	: Soils':
Histosol	, ,			Gleyed Ma			Coast Prairie Redox (A16)	
ı —	oipedon (A2)			Redox (S5			Dark Surface (S7)	
ı —	istic (A3)			d Matrix (S	,		Iron-Manganese Masses (F12)	
	en Sulfide (A4) d Lavers (A5)			Mucky Mir			Very Shallow Dark Surface (TF	12)
_	ıck (A10)			Gleyed Ma d Matrix (l			Other (Explain in Remarks)	
ı —	d Below Dark Surfac	ce (A11)		Dark Surfa				
ı —	ark Surface (A12)	,	_		ırface (F7)		³ Indicators of hydrophytic vegetation	on and
_	Mucky Mineral (S1)			Depressio			wetland hydrology must be pres	
5 cm Mu	icky Peat or Peat (S	3)					unless disturbed or problemation	c .
Restrictive I	Layer (if observed)	:						
Type:			_				Undrie Seil Bresent? Ves	N- /
Depth (in	ches):						Hydric Soil Present? Yes	No
Remarks:								
No indic	cators of hy	dric soil	were obse	rved.				
HYDROLO	GY							
Wetland Hy	drology Indicators							
Primary India	cators (minimum of	one is require	d; check all that a	oply)			Secondary Indicators (minimum	of two required)
Surface	Water (A1)		Water-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	auna (B13)		Drainage Patterns (B10)	
Saturation	, ,		True Aqua	,	,		Dry-Season Water Table (C	2)
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)	,
	nt Deposits (B2)				res on Livi	ing Roots		magery (C9)
Drift Dep	posits (B3)		Presence	of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reducti	on in Tilled	d Soils (C	6) Geomorphic Position (D2)	
Iron Dep	posits (B5)		Thin Muck	Surface (C7)		FAC-Neutral Test (D5)	
Inundati	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			
Sparsely	y Vegetated Concav	e Surface (B	B) Other (Ex	plain in Re	marks)			
Field Obser	vations:		_					
Surface Wat	er Present?	/es No	o Depth (in	ches):		_		
Water Table	Present?	/es No	o <u>√</u> Depth (in	ches):		_		
Saturation Present? Yes No _✓ Depth (inches): Wetland Hydrology Present? Yes No _✓ No							No	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								
	ators of we	tland by	drology we	re obc	erved			
I I I I I I I I I I I I I I I I I I I	ators or we	dand my	arology We	i e obs	oci v CU	•		

Project/Site: Louise Solar	c	City/County: Mower County Sampling Date: 202				
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-01-wet				
Investigator(s): R. Cress	s	Section, Township, Range: S12, T101, R16				
		Local relief (concave, convex, none):				
Slope (%): 0-2% Lat: 43.5583801	L	ong: -92.	6914458	3	Datum: WGS 84	
Soil Map Unit Name: Tripoli clay loam, 0 to 2 perce	ent slopes			NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for thi	is time of year	? Yes	No _	✓ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology s	significantly d	isturbed?	Are "	Normal Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrology r	naturally prob	lematic?	(If ne	eded, explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sampling	g point le	ocations, transects	important features, etc.	
Hydrophytic Vegetation Present? Yes✓ N	No					
Hydric Soil Present? Yes N		Is the				
Wetland Hydrology Present? Yes <u>√</u> N	No	withi	n a Wetlan	id? Yes <u>v</u>	No	
Remarks:	Cald Auto			and the same talence of the	for the Original section to	
Shrub-Carr swale located in a harvested corn the delineation.	field. Anted	ceaent p	recipitati	on is considered ary	for the 3 months prior to	
VEGETATION – Use scientific names of plants	· .					
- 20 ft r		Dominant		Dominance Test works	sheet:	
Tree Stratum (Plot size: 30 ft r) 1.	<u>% Cover</u>	Species?	_Status_	Number of Dominant Sp That Are OBL, FACW, o		
2				Total Number of Domina	ant	
3				Species Across All Strat	ta: <u>3</u> (B)	
4				Percent of Dominant Sp		
5		: Total Cov		That Are OBL, FACW, o	or FAC: 100 (A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft r)		· Total Cov	CI .	Prevalence Index work	sheet:	
1. Acer negundo	_ 35	✓	FAC	Total % Cover of:		
2					x 1 = 0	
3				FACW species 80		
4				FAC species 55	x 3 = 165	
5				FACU species 0	x = 0 $x = 0$ $x = 0$	
Herb Stratum (Plot size: 5 ft r)	<u>35% </u>	Total Cov	er	UPL species 0		
1 Phalaris arundinacea	80	✓	FACW	Column Totals: 135	(A) 325 (B)	
2. Symphyotrichum lanceolatum	20	√	FAC	Prevalence Index	= B/A = <u>2.4</u>	
3.				Hydrophytic Vegetatio	n Indicators:	
4.				1 - Rapid Test for H	lydrophytic Vegetation	
5				✓ 2 - Dominance Tes	t is >50%	
6				✓ 3 - Prevalence Inde	x is ≤3.0 ¹	
7					daptations ¹ (Provide supporting	
8					or on a separate sheet)	
9				Problematic Hydrop	hytic Vegetation ¹ (Explain)	
10				1 Indicators of budgic soil	and wetland hydrology must	
Woody Vine Stratum (Plot size: 30 ft r)	100%=	Total Cov	er	be present, unless distu		
1				Hydrophytic		
2				Vegetation Present? Yes	s_√ No	
Pomarka: //noludo photo numbers have a service		Total Cov	er	100		
Remarks: (Include photo numbers here or on a separate						
Area dominated by shrubby boxelo	der cove	rage				

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Sampling Point: WB-01-wet

Profile Desc	ription: (Describe	to the dep	oth needed to docum	nent the	indicator	or confirn	n the absence of in	idicators.)		
Depth	Matrix		Redo	x Feature	es					
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks		
0 - 24	10YR 2/1	100_					Clay loam			
24 ⁻ 30	10YR 4/1	95	10YR 5/8	5	С	М	Clay loam			
					- —					
_										
¹ Type: C=Co	oncentration D=Der	letion RM	=Reduced Matrix, MS	S=Masker	d Sand Gr	ains	2l ocation: Pl	=Pore Lining, M=Matrix.		
Hydric Soil		notion, raivi	-reduced Wattix, We	J-Washer	a cana cir	airio.		Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy 0	Sleved Ma	atrix (S4)			ie Redox (A16)		
ı —	pipedon (A2)			Redox (St			Dark Surfac	. ,		
Black Hi	stic (A3)		Stripped	Matrix (S6)		Iron-Manga	nese Masses (F12)		
Hydroge	n Sulfide (A4)		Loamy N	Mucky Mi	neral (F1)			w Dark Surface (TF12)		
	d Layers (A5)				atrix (F2)		Other (Expl	ain in Remarks)		
_	ick (A10)			d Matrix (
	d Below Dark Surfac	e (A11)	_	ark Surfa			31			
✓ Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8))		ydrophytic vegetation and łrology must be present,		
5 cm Mucky Peat or Peat (S3)								urbed or problematic.		
	Layer (if observed)	-						and or problematic.		
Type:	, (,							,		
Depth (inches):							Hydric Soil Pres	sent? Yes No		
Remarks:										
Thick dark layer over a depleted matrix										
HYDROLO	GY									
	drology Indicators:	,								
	0,		ired; check all that ap	nly)			Secondary In	dicators (minimum of two required)		
		nie is requi			(BO)					
	Water (A1) iter Table (A2)		Water-Stai Aquatic Fa		, ,			Soil Cracks (B6)		
Saturation	, ,		True Aqua	,	,		Drainage Patterns (B10) Dry-Season Water Table (C2)			
—	arks (B1)		Hydrogen		` '		Dry-Season Water Lable (C2) Crayfish Burrows (C8)			
	nt Deposits (B2)		Oxidized R			ina Roots		on Visible on Aerial Imagery (C9)		
	posits (B3)		Presence					or Stressed Plants (D1)		
	at or Crust (B4)		Recent Iro			-		phic Position (D2)		
-	oosits (B5)		Thin Muck					utral Test (D5)		
ı —	on Visible on Aerial	Imagery (B								
—	Vegetated Concav		, — •							
Field Obser			, — , ,							
Surface Wate	er Present? Y	'es	No Depth (inc	ches):						
Water Table			No ✓ Depth (inc			_ ı				
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No							esent? Yes ✓ No			
(includes car	(includes capillary fringe)									
Describe Re	corded Data (stream	n gauge, m	onitoring well, aerial p	photos, p	revious ins	pections),	if available:			
Remarks:										
Area shows some signs of a channel, but is undefined for most of the swale.										
		_	, -							

Project/Site: Louise Solar	City/C	ounty: Mower C	County	Sampling Date: 2020-11-02
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: WB-02-up
Investigator(s): R. Cress			ge: S12, T101, R16	. •
Landform (hillslope, terrace, etc.): Upland, Hillslope	_	Local relief (concave, convex, none):	Concave
Slope (%): 0-2 Lat: 43.559704				
Soil Map Unit Name: Pits, soil, and gravel			NWI classific	
Are climatic / hydrologic conditions on the site typical for the	this time of year? Y			
Are Vegetation, Soil, or Hydrology				
Are Vegetation, Soil, or Hydrology			eded, explain any answer	
SUMMARY OF FINDINGS – Attach site ma				,
Hydrophytic Vegetation Present? Yes	No✓			
Hydric Soil Present? Yes	No <u> </u>	Is the Sampled		,
Wetland Hydrology Present? Yes	No <u> </u>	within a Wetlan	d? Yes	No
Remarks:				
Upland sample point is located in a harvested prior to the delineation.	d corn field. Ant	ecedent preci _l	oitation is considere	d dry for the 3 months
VEGETATION – Use scientific names of plant	ts.			
		ninant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30 ft r)	% Cover Spe		Number of Dominant Sp That Are OBL, FACW, o	
2.			Total Number of Domina	ent
3			Species Across All Strat	•
4			Percent of Dominant Sp	necies
5			That Are OBL, FACW, o	
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tot	al Cover	Prevalence Index work	ksheet:
1			Total % Cover of:	
2			OBL species 0	x 1 = 0
3.			FACW species 0	x 2 = 0
4		I		x 3 = <u>0</u>
5				x 4 = 0
E ## *	= Tot	al Cover		x 5 = <u>0</u>
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u> (B)
1		— — I	Prevalence Index	= B/A = 0.0
2			Hydrophytic Vegetatio	
4			1 - Rapid Test for H	
5		I	2 - Dominance Tes	
6.		I	3 - Prevalence Inde	ex is ≤3.0 ¹
7.				daptations ¹ (Provide supporting
8.				s or on a separate sheet)
9		I	Problematic Hydrop	ohytic Vegetation ¹ (Explain)
10			1 Indicators of budris soil	and watland hydrology must
Woody Vine Stratum (Plot size: 30 ft r	= Tot	al Cover	be present, unless distu	and wetland hydrology must irbed or problematic.
1			Hydrophytic	
2			Vegetation Present? Yes	s No
Remarks: (Include photo numbers here or on a separat		al Cover	100	
No living vegetation is present as	the corn ha	s all been l	harvested. Cor	n stalks are

Sampling Point: WB-02-up

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	_Type ¹ _	Loc ²	Texture Remarks	
0-24	10YR 3/1	_ <u>100</u>					Clay loam	
<u>24 - 30</u>	10YR 3/2	100					Clay loam	
-								
				- ——				
	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	d Sand Gra	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :	
Histosol	. ,			Gleyed Ma			Coast Prairie Redox (A16)	
ı —	oipedon (A2)			Redox (S5			Dark Surface (S7)	
ı —	stic (A3)			d Matrix (S	,		Iron-Manganese Masses (F12)	
	en Sulfide (A4) d Layers (A5)			Mucky Mir			Very Shallow Dark Surface (TF12)	
ı —	ick (A10)			Gleyed Ma d Matrix (l			Other (Explain in Remarks)	
_	d Below Dark Surfac	ce (A11)		Dark Surfa				
ı —	ark Surface (A12)	,	_		ırface (F7)		³ Indicators of hydrophytic vegetation and	
_	lucky Mineral (S1)			Depressio	, ,		wetland hydrology must be present,	
5 cm Mu	icky Peat or Peat (S	3)					unless disturbed or problematic.	
Restrictive I	Layer (if observed)	:						
Type:			_				Hydric Soil Present? Yes No _	✓
Depth (in	ches):						Hydric Soil Present? Yes No _	<u> </u>
Remarks:								
No indic	cators of hy	dric soil	were obse	rved.				
HYDROLO	GY							
Wetland Hy	drology Indicators							
Primary India	cators (minimum of	one is require	d; check all that a	oply)			Secondary Indicators (minimum of two re	quired)
Surface	Water (A1)		Water-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa		, ,		Drainage Patterns (B10)	
Saturation	, ,		True Aqua	,	,		Dry-Season Water Table (C2)	
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)	
	nt Deposits (B2)				res on Livi	ing Roots		(C9)
Drift Dep	posits (B3)		Presence	of Reduce	ed Iron (C4	ł)	Stunted or Stressed Plants (D1)	
Algal Ma	at or Crust (B4)		Recent Iro	n Reducti	on in Tilled	d Soils (C	6) Geomorphic Position (D2)	
Iron Dep	oosits (B5)		Thin Muck	Surface ((C7)		FAC-Neutral Test (D5)	
Inundati	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			
Sparsely	Vegetated Concav	e Surface (B	8) Other (Ex	plain in Re	emarks)			
Field Obser	vations:							
Surface Wat	er Present?	/es N	o Depth (in	ches):		_		
Water Table	Present?	/es N	o <u>√</u> Depth (in	ches):		_		
						_ Wetl	land Hydrology Present? Yes No	√
Describe Re	corded Data (strean	n gauge, mon	itoring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								
No india	ators of we	tland by	drology wa	re obc	sarvad			
To make	GLOIS OF WE	dand my	arology we	1000	JOI VEU	•		

Project/Site: Louise Solar	Cir	City/County: Mower County Sampling Date: 2020-11					
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-02-wet					
Investigator(s): R. Cress	Se	ection, Tov	vnship, Ran	nge: S12, T101, R16			
				concave, convex, none):	Concave		
Slope (%): 0-2 Lat: 43.5595703	Lo	ng: <u>-</u> 92.	6938792		Datum: WGS 84		
Soil Map Unit Name: Pits, soil, and gravel				NWI classifica	ation:		
Are climatic / hydrologic conditions on the site typical for this t	time of year	? Yes	No	✓ (If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology sig	nificantly dis	sturbed?	Are "I	Normal Circumstances" p	resent? Yes	_ No _ ✓	
Are Vegetation, Soil, or Hydrology na	turally probl	ematic?	(If nee	eded, explain any answer	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing s	ampling	g point lo	ocations, transects,	, important fea	tures, etc.	
Hydrophytic Vegetation Present? Yes ✓ No							
Hydric Soil Present? Yes✓ No			Sampled				
Wetland Hydrology Present? Yes <u>✓</u> No		withi	n a Wetlan	d? Yes <u>v</u>	No		
Remarks:		: : 4		::		_	
The sample point is located in a large man-made considered dry for the 3 months prior to the deli	-	ion in a i	ormer m	ining pit. Anteceden	t precipitation is	S	
VEGETATION – Use scientific names of plants.							
- 20 ft r		Dominant		Dominance Test works	sheet:		
Tree Stratum (Plot size: 30 ft r) 1.	% Cover 5	Species?	_Status_	Number of Dominant Sp That Are OBL, FACW, o		(A)	
2				Total Number of Domina	ant		
3				Species Across All Strat	ta: <u>2</u>	(B)	
4				Percent of Dominant Sp			
5	=	Total Cov	 ar	That Are OBL, FACW, o	or FAC: 100	(A/B)	
Sapling/Shrub Stratum (Plot size: 15 Tt r)				Prevalence Index work	sheet:		
1. Salix interior	90	✓	FACW	Total % Cover of:		oy:	
2					x 1 = 0		
3				FACW species 95	x 2 = 190		
4				FAC species 0	x 3 = 0 x 4 = 0		
5		T. 1. 1. 0.		FACU species 0 UPL species 0			
Herb Stratum (Plot size: 5 ft r)	90%=	Total Cov	er	Column Totals: 95	(A) 190	(B)	
1. Phalaris arundinacea	5	✓	FACW_	Column Totals.	(A) <u></u>	(b)	
2				Prevalence Index	= B/A = 2.0		
3				Hydrophytic Vegetatio	n Indicators:		
4				√ 1 - Rapid Test for H		ion	
5				✓ 2 - Dominance Test			
6				✓ 3 - Prevalence Inde			
7				4 - Morphological A	daptations' (Provide or on a separate sl		
8				Problematic Hydrop		,	
9			——		, , , , , , , , , , , , , , , , , , , ,		
10		T. 1. 1. 0		¹ Indicators of hydric soil			
Woody Vine Stratum (Plot size: 30 ft r)		Total Cov		be present, unless distu	rbed or problematic	:. ·	
1				Hydrophytic			
2				Vegetation Present? Yes	s_✓ No	_	
Remarks: (Include photo numbers here or on a separate sh		Total Cov	er		_		
	,						
Area dominated by sandbar willow							

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Soll Sampling Point: WB-02-wet

Profile Desc	cription: (Describe	to the depth	n needed to docum	nent the	indicator	or confirn	n the absence	of indicators.)			
Depth	Matrix			x Feature				•			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks			
0 - 24	5Y 7/2	95	5Y 6/4	5	MS	<u>M</u>	Sand	Sandy soil with masked grains is disturbed due to mining.			
-											
<u> </u>											
¹ Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location	n: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Indicators	for Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy C	Sleyed Ma	atrix (S4)		Coast	Prairie Redox (A16)			
I —	pipedon (A2)		✓ Sandy F				_	Surface (S7)			
ı —	istic (A3)			Matrix (_	langanese Masses (F12)			
	en Sulfide (A4) d Layers (A5)				neral (F1) atrix (F2)			Shallow Dark Surface (TF12) (Explain in Remarks)			
I —	uck (A10)		_ ′	d Matrix (, ,		Other	(Explain in Remarks)			
_	d Below Dark Surfac	ce (A11)		Dark Surf							
	ark Surface (A12)	()	_		urface (F7)	3Indicators	s of hydrophytic vegetation and			
Sandy N	Sandy Mucky Mineral (S1) Redox Depressions (F8)						wetlan	d hydrology must be present,			
	ucky Peat or Peat (S						unless	s disturbed or problematic.			
_	Layer (if observed)										
1			_				Hydric Soil	Present? Yes No			
	ches):						11,4110 001				
Remarks:											
Sandy r	edox obser	ved in d	isturbed mi	nina s	oil.						
				5							
LIVERGLO	-04										
HYDROLO											
1	drology Indicators										
	cators (minimum of	one is require	•					ary Indicators (minimum of two required)			
_	Water (A1)		Water-Stai		, ,			face Soil Cracks (B6)			
1 — •	ater Table (A2)		Aquatic Fa				Drainage Patterns (B10)				
Saturati	, ,		True Aqua		. ,			-Season Water Table (C2)			
	farks (B1)		Hydrogen			· D		yfish Burrows (C8)			
	nt Deposits (B2)		Oxidized F					uration Visible on Aerial Imagery (C9)			
I —	posits (B3) at or Crust (B4)		Presence of Recent Iro		•	,		nted or Stressed Plants (D1) pmorphic Position (D2)			
l —	posits (B5)		Thin Muck			u oons (oc		C-Neutral Test (D5)			
I —	on Visible on Aerial	Imagery (B7)					<u>*</u> 170	5-Nedital Test (50)			
I —	y Vegetated Concav	0 , , ,									
Field Obser		- C Garrage (B	<u> </u>		- Indino						
Surface Wat		Yes N	o Depth (inc	ches):							
Water Table			o ✓ Depth (inc								
Saturation P			o Depth (inc				and Hydrolog	y Present? Yes No			
(includes ca	pillary fringe)					_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Describe Re	corded Data (stream	n gauge, mor	nitoring well, aerial p	ohotos, p	revious ins	spections),	if available:				
Damarka											
Remarks:	_				•-						
Area is a	a deep depr	ession ii	n a former n	nine p	oit.						

Project/Site: Louise Solar	City/County: Mower County Sampling Date: 2020-11-02						
Applicant/Owner: EDF Renewables	State: Mi	State: Minnesota Sampling Point: WB-03-up					
	Section, Township, Range: S7, T101, R15						
Landform (hillslope, terrace, etc.): Upland, Hillslope	Local relief (concave, convex, none): Convex						
	Long: -92.6609802 Datum: WGS 84						
Soil Map Unit Name: Tripoli clay loam, 0 to 2 percent slope							
Are climatic / hydrologic conditions on the site typical for this time of y							
Are Vegetation, Soil, or Hydrology significantl							
Are Vegetation, Soil, or Hydrology naturally p		ny answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing							
Hydrophytic Vegetation Present? Yes No✓							
Hydric Soil Present? Yes No✓	Is the Sampled Area						
Wetland Hydrology Present? Yes No✓	within a Wetland?	/es No					
Remarks:		and the state of t					
Upland sample point is located in a harvested corn field prior to the delineation.	i. Antecedent precipitation is co	nsidered dry for the 3 months					
VEGETATION – Use scientific names of plants.							
Absolute	Dominant Indicator Dominance To	est worksheet:					
Tree Stratum (Plot size: 30 ft r) % Cove		minant Species FACW, or FAC: 0 (A)					
2	Total Number	0					
4.							
5		minant Species FACW, or FAC: 0 (A/B)					
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Total Cover	dex worksheet:					
Sapling/Snrub Stratum (Plot size:		over of: Multiply by:					
2.		0 x 1 = 0					
3.		s 0 x 2 = 0					
4							
5.		0 x 4 = 0					
	= Total Cover UPL species	0 x 5 = 0					
Herb Stratum (Plot size: 5 ft r)	Column Totals						
2.	Prevalen	nce Index = B/A = 0.0					
3.		Vegetation Indicators:					
4	4 5	Test for Hydrophytic Vegetation					
5		ance Test is >50%					
6	3 - Prevale	ence Index is ≤3.0 ¹					
7	4 - Morpho	ological Adaptations ¹ (Provide supporting Remarks or on a separate sheet)					
8	Problemat	tic Hydrophytic Vegetation ¹ (Explain)					
9	· —— [—]						
Woody Vine Stratum (Plot size: 30 ft r)		nydric soil and wetland hydrology must lless disturbed or problematic.					
1							
2	Vegetation Present?	Yes No✓					
Pomorko: (Include phote numbers have as an account of the child	= Total Cover						
Remarks: (Include photo numbers here or on a separate sheet.)							
No living vegetation is present as the con	n has all been harvested	I. Corn stalks are					

Soll Sampling Point: WB-03-up

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature				
(inches)	Color (moist)		Color (moist)	%	_Type ¹ _	Loc ²	Texture Remarks	
0 - 26	10YR 3/1	_ <u>100</u>					Clay loam	
<u>26 - 30</u>	10YR 3/2	100					Clay loam	
-								
				- ——				
<u> </u>								
	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lining, M=Ma	
Hydric Soil							Indicators for Problematic Hydric	: Soils':
Histosol	, ,			Gleyed Ma			Coast Prairie Redox (A16)	
ı —	oipedon (A2)			Redox (S5			Dark Surface (S7)	
ı —	istic (A3)			d Matrix (S	,		Iron-Manganese Masses (F12)	
	en Sulfide (A4) d Lavers (A5)			Mucky Mir			Very Shallow Dark Surface (TF	12)
_	ıck (A10)			Gleyed Ma d Matrix (l			Other (Explain in Remarks)	
ı —	d Below Dark Surfac	ce (A11)		Dark Surfa				
ı —	ark Surface (A12)	,	_		ırface (F7)		³ Indicators of hydrophytic vegetation	on and
_	Mucky Mineral (S1)			Depressio			wetland hydrology must be pres	
5 cm Mu	icky Peat or Peat (S	3)					unless disturbed or problemation	c .
Restrictive I	Layer (if observed)	:						
Type:			_				Undrie Seil Bresent? Ves	N- /
Depth (in	ches):						Hydric Soil Present? Yes	No
Remarks:								
No indic	cators of hy	dric soil	were obse	rved.				
HYDROLO	GY							
Wetland Hy	drology Indicators							
Primary India	cators (minimum of	one is require	d; check all that a	oply)			Secondary Indicators (minimum	of two required)
Surface	Water (A1)		Water-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Fa	auna (B13)		Drainage Patterns (B10)	
Saturation	, ,		True Aqua	,	,		Dry-Season Water Table (C	2)
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)	,
	nt Deposits (B2)				res on Livi	ing Roots		magery (C9)
Drift Dep	posits (B3)		Presence	of Reduce	ed Iron (C4)	Stunted or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reducti	on in Tilled	d Soils (C	6) Geomorphic Position (D2)	
Iron Dep	posits (B5)		Thin Muck	Surface (C7)		FAC-Neutral Test (D5)	
Inundati	on Visible on Aerial	Imagery (B7)	Gauge or	Well Data	(D9)			
Sparsely	y Vegetated Concav	e Surface (B	B) Other (Ex	plain in Re	marks)			
Field Obser	vations:		_					
Surface Wat	er Present?	/es No	o Depth (in	ches):		_		
Water Table	Present?	/es No	o <u>√</u> Depth (in	ches):		_		
						_ Wetl	and Hydrology Present? Yes	No
	corded Data (strean	n gauge, mon	itoring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								
	ators of we	tland by	drology we	re obc	erved			
I I I I I I I I I I I I I I I I I I I	ators or we	dand my	arology We	i e obs	oci v CU	•		

Project/Site: Louise Solar	C	ity/Coun	nty: Mower 0	County	Sampling Date: 2020-11-02	
Applicant/Owner: EDF Renewables				State: Minnesota	Sampling Point: WB-03-wet	
Investigator(s): R. Cress	s	Section, Township, Range: S7, T101, R15				
Landform (hillslope, terrace, etc.): Depression						
Slope (%): 0-2% Lat: 43.5707397	Lo	ong:9	2.6790324	<u> </u>	Datum: WGS 84	
Soil Map Unit Name: Tripoli clay loam, 0 to 2 perce	ent slopes			NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for th	nis time of year	? Yes_	No	✓ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly di	isturbed	? Are "I	Normal Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrology	naturally prob	lematic?	(If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing s	sampli	ing point lo	ocations, transects	, important features, etc.	
Hydrophytic Vegetation Present? Yes 1	No					
Hydric Soil Present? Yes /			the Sampled			
Wetland Hydrology Present? Yes <u>√</u> !	No	wi	thin a Wetlan	d? Yes	No	
Remarks:						
Wet meadow depression located near a transfer prior to the delineation.	mission poi	e. Ante	eceaent pre	ecipitation is conside	ered dry for the 3 months	
VEGETATION – Use scientific names of plants	3.					
30 ft *			nt Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size: 30 ft r) 1	<u>% Cover</u>			Number of Dominant Sp That Are OBL, FACW, o		
2				Total Number of Domina	ant	
3				Species Across All Stra	ta: <u>2</u> (B)	
4 5				Percent of Dominant Sp		
		Total C	over	That Are OBL, FACW, o		
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index work		
1				Total % Cover of: OBL species 20		
2					$x 1 = \frac{20}{160}$	
3					$x = \frac{100}{0}$	
4					$\begin{array}{c} x 3 = 0 \\ x 4 = 0 \end{array}$	
5		T-4-1 0		UPL species 0		
Herb Stratum (Plot size: 5 ft r)		Total C		Column Totals: 100	(A) 180 (B)	
1. Phalaris arundinacea	_ 80	✓	FACW_	Column Totals.	()	
2. Typha X glauca	_ 20	✓	_ OBL	Prevalence Index		
3				Hydrophytic Vegetatio		
4				✓ 1 - Rapid Test for H		
5				✓ 2 - Dominance Tes		
6				✓ 3 - Prevalence Inde		
7				data in Remarks	daptations ¹ (Provide supporting sor on a separate sheet)	
8				Problematic Hydrop	phytic Vegetation¹ (Explain)	
9 10						
Woody Vine Stratum (Plot size: 30 ft r	100% =	Total C	over	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must irbed or problematic.	
1				Undrambutia		
2.				Hydrophytic Vegetation	,	
	=			Present? Yes	s No	
Remarks: (Include photo numbers here or on a separate	sheet.)					
Area dominated by reed canarygra	ass and h	nybri	d cattail			

US Army Corps of Engineers

Sampling Point: WB-03-wet

Profile Desc	cription: (Describe	to the dept	th needed to docu	ment the	indicator	or confirm	m the absence of indicators.)				
Depth Matrix Redox Features											
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	_			
0 - 15	10YR 2/1	95	10YR 5/6	_ <u>5</u>	<u> </u>	<u>M</u>	Clay loam	_			
<u>15 - 24</u>	10YR 4/1	90	10YR 5/8	10	<u>C</u>	<u>M</u>	Clay	_			
-											
								-			
							-	-			
								-			
<u> </u>								-			
<u> </u>								_			
	oncentration, D=De	oletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.	_			
Hydric Soil			0 1	O	(0.1)		Indicators for Problematic Hydric Soils ³ :				
Histosol	(A1) pipedon (A2)			Gleyed Ma Redox (St			Coast Prairie Redox (A16) Dark Surface (S7)				
ı —	istic (A3)			d Matrix (Iron-Manganese Masses (F12)				
ı —	en Sulfide (A4)				neral (F1)		Very Shallow Dark Surface (TF12)				
	d Layers (A5)			Gleyed M			Other (Explain in Remarks)				
ı —	uck (A10)			ed Matrix (, ,						
	d Below Dark Surfac	ce (A11)	_	Dark Surf			2				
	ark Surface (A12)				urface (F7)	³ Indicators of hydrophytic vegetation and				
	Mucky Mineral (S1) ucky Peat or Peat (S	3)	Redox	Depression	ons (F8)		wetland hydrology must be present, unless disturbed or problematic.				
	Layer (if observed)						diffess distarbed of problematic.	_			
1	ches):						Hydric Soil Present? Yes No				
Remarks:								_			
I hick d	ark layer wi	th redox	x over a dep	oleted	matrix	(
HYDROLO	GY							_			
Wetland Hy	drology Indicators	:									
1	cators (minimum of		ed; check all that a	pply)			Secondary Indicators (minimum of two required))			
Surface	Water (A1)		Water-Sta	ained Leav	res (B9)		Surface Soil Cracks (B6)				
High Wa	ater Table (A2)		Aquatic F	auna (B13	3)		Drainage Patterns (B10)				
Saturati	on (A3)		True Aqua	atic Plants	(B14)		Dry-Season Water Table (C2)				
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)				
Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation Visible on Aerial Imagery (C9)				
1	posits (B3)		Presence			-	Stunted or Stressed Plants (D1)				
	at or Crust (B4)		Recent Iro			d Soils (C					
ı —	posits (B5)		Thin Mucl				✓ FAC-Neutral Test (D5)				
ı —	on Visible on Aerial		. — -								
Field Obser	y Vegetated Concav	e Suriace (E	38) Other (Ex	plain in Re	emarks)						
Surface Wat		/oo N	No✓ Depth (ir	school:							
Water Table			No Depth (in								
			No Depth (ir No Depth (ir				land Hydrology Present? Yes _ ✓ No				
	pillary fringe)							_			
Describe Re	corded Data (stream	n gauge, mo	nitoring well, aerial	photos, p	revious ins	spections),	, if available:				
Remarks:											
Wetland	l is located i	n a sma	all depression	on.							
				- · 							

Project/Site: Louise Solar	c	ity/County:	ity/County: Mower County Sampling Date: 2020-11-03				
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-04-					
Investigator(s): R. Cress	8	Section, Township, Range: S7, T101, R15					
				(concave, convex, none):	Convex		
Slope (%): 0-2 Lat: 43.571584		.ong: <u>-</u> 92.	6609802	2	Datum: WGS 84		
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 pe	rcent slo	pes		NWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for this	time of yea						
Are Vegetation, Soil, or Hydrology signature.	gnificantly d	listurbed?	Are "	Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology na	aturally prob	lematic?	(If ne	eded, explain any answer	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	showing	sampling	g point lo	ocations, transects	, important features, et		
Hydrophytic Vegetation Present? Yes No	,						
Hydric Soil Present? Yes No	· /		Sampled				
Wetland Hydrology Present? Yes No	<u> </u>	withi	n a Wetlan	id? Yes	No		
Remarks:			.::				
Upland sample point is located in a hayfield. An delineation.	tecedent	precipita	ition is co	onsidered ary for the	3 months prior to the		
VEGETATION – Use scientific names of plants.							
- 20 ft r	Absolute	Dominant		Dominance Test works	sheet:		
Tree Stratum (Plot size: 30 ft r) 1.	% Cover	Species?	Status_	Number of Dominant Sp That Are OBL, FACW, o			
2				Total Number of Domina			
3				Species Across All Strat	ta: <u>2</u> (B)		
4. 5.				Percent of Dominant Sp			
		= Total Cov	 er	That Are OBL, FACW, o	or FAC: <u>50</u> (A/B		
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index work			
1				Total % Cover of:			
2				OBL species 0 FACW species 30	$x 1 = \frac{0}{60}$		
3							
4				FAC species 10 55			
5					$x = \frac{0}{x = 0}$		
Herb Stratum (Plot size: 5 ft r)	——	= Total Cov	er	UPL species 0 Column Totals: 95	210		
1. Bromus inermis	40	✓	FACU	Column Totals.	(A) <u>310</u> (B)		
Phalaris arundinacea	30	√	FACW	Prevalence Index	= B/A = 3.3		
3. Taraxacum officinale	15		FACU	Hydrophytic Vegetation	n Indicators:		
4. Poa pratensis	10		FAC	1 - Rapid Test for H			
5				2 - Dominance Tes			
6				3 - Prevalence Inde			
7					daptations¹ (Provide supportin s or on a separate sheet)		
8					phytic Vegetation ¹ (Explain)		
9					mytic vegetation (Explain)		
10				Indicators of hydric soil	and wetland hydrology must		
Woody Vine Stratum (Plot size: 30 ft r)		= Total Cov		be present, unless distu			
1				Hydrophytic			
2				Vegetation Present? Yes	s No		
Remarks: (Include photo numbers here or on a separate si		= Total Cov	er				
	,						
The vegetation has been hayed							

US Army Corps of Engineers Midwest Region – Version 2.0

Sampling Point: WB-04-up

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of indic	ators.)			
Depth	Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	Loc ²		Remarks			
0-24	10YR 2/1	_ <u>100</u>					Clay loam				
24 - 30	10YR 3/2	100					Clay loam				
-											
_											
<u> </u>											
	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	d Sand Gra	ains.		ore Lining, M=Matrix.			
Hydric Soil								blematic Hydric Soils ³ :			
Histosol	. ,			Gleyed Ma			Coast Prairie R	• ,			
I —	oipedon (A2) stic (A3)			Redox (S5 d Matrix (S			Dark Surface (se Masses (F12)			
ı —	en Sulfide (A4)			u Matrix (d Mucky Mir	,			Dark Surface (TF12)			
	d Layers (A5)			Gleyed Ma			Other (Explain				
ı —	ick (A10)			ed Matrix (
_	d Below Dark Surfac	ce (A11)		Dark Surfa							
Thick Da	ark Surface (A12)		Deplete	ed Dark Su	ırface (F7)		³ Indicators of hydro	ophytic vegetation and			
	lucky Mineral (S1)		Redox	Depressio	ns (F8)		•	ogy must be present,			
	icky Peat or Peat (S						unless disturbe	ed or problematic.			
l _	Layer (if observed)										
	-1		_				Hydric Soil Present	t? Yes No✓_			
	ches):										
Remarks:											
No indid	cators of hy	dric soil	were obse	rved.							
	•										
HYDROLO	GY										
	drology Indicators										
1	cators (minimum of		d: check all that a	anly)			Secondary Indica	ators (minimum of two required)			
	Water (A1)	one is require	Water-Sta		es (BQ)						
_	ater Table (A2)		Aquatic Fa		, ,		Surface Soil Cracks (B6)				
Saturation	, ,		True Aqua	,	,		Drainage Patterns (B10) Dry-Season Water Table (C2)				
ı —	larks (B1)		Hydrogen		, ,		Crayfish Bur	(/			
	nt Deposits (B2)				res on Livi	ing Roots		isible on Aerial Imagery (C9)			
ı —	posits (B3)		Presence	•		•	—	Stressed Plants (D1)			
1 —	at or Crust (B4)		Recent Iro		`	,		Position (D2)			
ı —	posits (B5)		Thin Muck				FAC-Neutra				
I —	on Visible on Aerial	Imagery (B7)	_		. ,		_				
ı —	Vegetated Concav										
Field Obser											
Surface Wat	er Present?	/es N	o <u>√</u> Depth (in	ches):		_					
Water Table			o ✓ Depth (in								
Saturation P			o ✓ Depth (in				and Hydrology Prese	nt? Yes No✓			
(includes cap	oillary fringe)						if available.				
Describe Re	corded Data (strean	i gauge, mon	illoring well, aerial	pnotos, pr	evious ins	pections),	ıı avallable:				
Remarks:											
		الدسياا	alma I =	•		ı					
No indic	ators of we	tiand hy	arology we	re obs	served						
I											

Project/Site: Louise Solar	City/	County: Mower C	County	Sampling Date: 2020-11-03
Applicant/Owner: EDF Renewables		State: Minnesota	Sampling Point: WB-04-wet	
Investigator(s): R. Cress	Sect	ion, Township, Ran	nge: S7, T101, R16	
			concave, convex, none):	
Slope (%): 0-2% Lat: 43.5715332	Long	_{g:} <u>-92.6740143</u>		Datum: WGS 84
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 p			NWI classific	
Are climatic / hydrologic conditions on the site typical for this	s time of year?	Yes No	✓ (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology s	significantly distu	irbed? Are "I	Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology r			eded, explain any answer	
SUMMARY OF FINDINGS - Attach site map	showing sa	mpling point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes✓ N	lo			
Hydric Soil Present? Yes ✓ N		Is the Sampled	_	
Wetland Hydrology Present? Yes <u>√</u> N	lo	within a Wetlan	d? Yes <u>√</u>	No
Remarks:				
Wet meadow depression located near a stream the delineation.	n. Anteceden	t precipitation i	is considered ary fol	r the 3 months prior to
VEGETATION – Use scientific names of plants.				
20 ft r		minant Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size: 30 ft r) 1.	<u>% Cover Sp</u>	ecies? Status	Number of Dominant Sp That Are OBL, FACW, o	
2	- — —		Total Number of Domina	ant
3			Species Across All Stra	ta: <u>2</u> (B)
4 5.			Percent of Dominant Sp That Are OBL, FACW, o	
15 ft	= To	otal Cover		(,
Sapling/Shrub Stratum (Plot size: 15 ft r)			Prevalence Index work	
1			Total % Cover of: OBL species 0	Multiply by: x 1 = 0
2		——— I		x 2 = 200
3				x 3 = 0
5			FACU species 0	
0	= To	otal Cover	UPL species 0	
Herb Stratum (Plot size: 5 ft r)			Column Totals: 100	(A) 200 (B)
1. Phalaris arundinacea	_ 80	✓ FACW		
2. Spartina pectinata	_ 20	✓ FACW	Prevalence Index	
3			Hydrophytic Vegetatio	
4			✓ 1 - Rapid Test for H✓ 2 - Dominance Test	
5			✓ 2 - Dominance Tes	
6				daptations ¹ (Provide supporting
7		—— —— I		s or on a separate sheet)
8 9			Problematic Hydrop	ohytic Vegetation¹ (Explain)
10				
Woody Vine Stratum (Plot size: 30 ft r)	100% = To	otal Cover	¹ Indicators of hydric soil be present, unless distu	and wetland hydrology must irbed or problematic.
1		[Hydrophytic	
2		I	Vegetation	s No
		otal Cover	rieseitt 165	S NU
Remarks: (Include photo numbers here or on a separate	sheet.)			
Area dominated by reed canarygra	ss and pr	airie cordgr	ass.	
I .				

Sampling Point: WB-04-wet

Profile Desc	cription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirm	n the absence of indicators.)				
Depth	Matrix		Redo	x Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ _	Loc ²	Texture Remarks				
0 - 12	10YR 2/1	<u> 100</u> _	<u>/</u>				Clay loam				
<u>12 - 24</u>	10YR 4/1	95	10YR 5/8	5	<u>C</u>	M	Clay				
-											
<u> </u>											
¹ Type: C=C	oncentration, D=Dep	oletion, RM=I	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matri				
Hydric Soil	Indicators:						Indicators for Problematic Hydric S	oils³:			
Histosol	, ,			-	atrix (S4)		Coast Prairie Redox (A16)				
Histic Epipedon (A2) Sandy Redox (S5)							Dark Surface (S7)				
ı —	istic (A3)			d Matrix (,		Iron-Manganese Masses (F12)	`			
	en Sulfide (A4) d Layers (A5)				neral (F1) atrix (F2)		Very Shallow Dark Surface (TF12Other (Explain in Remarks))			
	uck (A10)			d Matrix (Other (Explain in Nemarks)				
	d Below Dark Surfac	ce (A11)		Dark Surf	. ,						
I — ·	ark Surface (A12)	()	_		urface (F7))	³ Indicators of hydrophytic vegetation a	and			
Sandy N	Mucky Mineral (S1)		Redox [Depressio	ons (F8)		wetland hydrology must be presen	ıt,			
5 cm Mu	icky Peat or Peat (S	3)					unless disturbed or problematic.				
Restrictive	Layer (if observed)	:									
Type:			_				Hydric Soil Present? Yes	No			
Depth (in	ches):						riyunc son Fresent: Tes				
Remarks:											
Thick d	ark layer ob	served	over a deple	eted n	natrix						
THICK G	ark layer ob	3CI VCG	over a acpi	Jecu II	IIGUIX						
HYDROLO	GY										
Wetland Hy	drology Indicators	:									
Primary Indi	cators (minimum of	one is require	ed; check all that ap	ply)			Secondary Indicators (minimum of t	wo required)			
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface Soil Cracks (B6)				
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage Patterns (B10)				
Saturati	on (A3)		True Aqua	itic Plants	(B14)		Dry-Season Water Table (C2)				
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrows (C8)				
Sedime	nt Deposits (B2)		Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation Visible on Aerial Ima	igery (C9)			
Drift De	posits (B3)		Presence	of Reduce	ed Iron (C4	1)	Stunted or Stressed Plants (D1)			
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	6)				
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)		✓ FAC-Neutral Test (D5)				
ı —	on Visible on Aerial			Well Data	a (D9)						
	y Vegetated Concav	e Surface (B	8) Other (Exp	olain in Re	emarks)						
Field Obser			/								
Surface Wat			lo Depth (in								
Water Table			lo Depth (in				,				
Saturation P		/es N	lo✓ Depth (in	ches):		_ Wetl	and Hydrology Present? Yes✓	No			
	oillary fringe) corded Data (strean	n dalide mor	nitoring well aerial i	nhotos n	revious ins	nections)	if available:				
Describe No	coraca bata (stream	r gaage, moi	morning wen, deriding	priotos, p	revious inc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii available.				
Remarks:											
	:= = = = = =		II ala								
wetiand	l is located i	n a sma	ıı aepressio	n.							
I											

Project/Site: Louise Solar	(City/County: Mower County Sampling Date: 2020-1					
Applicant/Owner: EDF Renewables					State: Minnesota	Sampling Point: WB-0)5-up
Investigator(s): R. Cress	;	Sectio	n, Tov	wnship, Rar	nge: S7, T101, R15		
Landform (hillslope, terrace, etc.): Upland, Swale			ı	_ocal relief ((concave, convex, none):		
			-92.	.6609802	2	Datum: WGS 84	
Soil Map Unit Name: Tripoli clay loam, 0 to 2 perc	ent slopes				NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for the	nis time of yea	ar? Ye	es	No _	✓ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are "l	Normal Circumstances" p	resent? Yes N	lo
Are Vegetation, Soil, or Hydrology	naturally prol	blema	tic?	(If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	pling	g point lo	ocations, transects	, important feature	s, etc.
Hydrophytic Vegetation Present? Yes	No ✓						
Hydric Soil Present? Yes	No <u> </u>			e Sampled		,	
Wetland Hydrology Present? Yes	No <u>√</u>		with	in a Wetlan	id? Yes	No	
Remarks:							
Upland sample point is located in a grass strip months prior to the delineation.	o in a cornf	ield.	Ante	cedent p	recipitation is consi	dered dry for the 3	
VEGETATION – Use scientific names of plants	S.						
20.6	Absolute			Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size:30 ft r) 1	% Cover				Number of Dominant Sp That Are OBL, FACW, of		(A)
2					Total Number of Domina	ant	
3					Species Across All Stra	ta: <u>2</u>	_ (B)
4 5					Percent of Dominant Sp		(A (D)
		= Tota	al Cov	er	That Are OBL, FACW, o	or FAC: 0	(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)					Prevalence Index worl		
1					Total % Cover of:		_
2						x 1 = 0	-
3						x = 0 x = 30	-
4						x 4 = 340	-
5		 = Tota	ol Cov		UPL species 0		_
Herb Stratum (Plot size: 5 ft r)		- 10ta	ai Cov		Column Totals: 95	(A) 370	— (B)
1. Bromus inermis	_ 40			FACU			_ (-,
2. Trifolium pratense	_ 30			FACU	Prevalence Index		
3. Taraxacum officinale	_ 15			FACU	Hydrophytic Vegetatio		
4. Setaria pumila	_ 10			FAC	1 - Rapid Test for H		
5					2 - Dominance Tes 3 - Prevalence Inde		
6						ex is ≤3.0 Adaptations¹ (Provide su≱	nnortina
7					data in Remarks	s or on a separate sheet)
8					Problematic Hydrop	ohytic Vegetation¹ (Expla	ain)
9 10							
Woody Vine Stratum (Plot size: 30 ft r	0.50/	= Tota	al Cov	er	¹ Indicators of hydric soil be present, unless distu	l and wetland hydrology urbed or problematic.	must
1					Hydrophytic		
2.					Vegetation	/	
		= Tota		er	Present? Yes	s No	
Remarks: (Include photo numbers here or on a separate	e sheet.)						
The vegetation has been hayed							

US Army Corps of Engineers

Soll Sampling Point: WB-05-up

Profile Desc	cription: (Describe	to the depth i	needed to docui	ment the i	a.oato.	or confirm	n the absence of indica	tors.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)		Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks
0 - 20	10YR 2/1	_ <u>100</u>					Clay loam	
20 - 30	10YR 3/2	100					Clay loam	
-								
<u> </u>								
¹ Type: C=C	oncentration, D=De	pletion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ains.	² Location: PL=Pore	
Hydric Soil	Indicators:							ematic Hydric Soils³:
Histosol	, ,			Gleyed Ma			Coast Prairie Re	, ,
I —	pipedon (A2)			Redox (S5	-		Dark Surface (S)	,
ı —	istic (A3) en Sulfide (A4)			d Matrix (S Mucky Mir	,		Iron-Manganese	rk Surface (TF12)
	d Layers (A5)			Gleyed Ma			Other (Explain in	
ı —	uck (A10)			d Matrix (I				,
Deplete	d Below Dark Surfac	ce (A11)	Redox	Dark Surfa	ice (F6)			
ı —	ark Surface (A12)				rface (F7)			phytic vegetation and
	Mucky Mineral (S1)		Redox	Depression	ns (F8)			y must be present,
	ucky Peat or Peat (S						unless disturbed	or problematic.
l _	Layer (if observed)							
1	-h \		_				Hydric Soil Present?	Yes No✓_
	ches):							
Remarks:								
No indi	cators of hy	dric soil v	vere obse	rved.				
	•							
HADBOLO	CV							
HYDROLO								
1	drology Indicators		shook all that a	n 1			Cocondany Indicat	are (minimum of two required)
	cators (minimum of	one is required:			(DO)			ors (minimum of two required)
_	Water (A1)		Water-Sta		` '		Surface Soil C	, ,
1 — •	ater Table (A2)		Aquatic Fa	,	,		Drainage Patt	erns (B10) Vater Table (C2)
Saturation	, ,		True Aqua		, ,			(- ,
	larks (B1)		Hydrogen			na Booto	Crayfish Burro	
	nt Deposits (B2) posits (B3)		Oxidized I	-		-	(C3) Saturation vis	ible on Aerial Imagery (C9)
	posits (D3)					1	Stunted or Str	accod Plante (D1)
Algal Ma	et or Crust (R4)		_		,	,		essed Plants (D1)
ı —	at or Crust (B4)		Recent Iro	n Reducti	on in Tilled	,	Geomorphic F	Position (D2)
Iron Dep	posits (B5)	Imagery (B7)	Recent Iro	n Reducti Surface (on in Tilled C7)	,		Position (D2)
Iron Der	oosits (B5) on Visible on Aerial		Recent Iro Thin Muck	n Reducti Surface (Well Data	on in Tilled C7) (D9)	,	Geomorphic F	Position (D2)
Iron Dep Inundati Sparsely	posits (B5) on Visible on Aerial y Vegetated Concav		Recent Iro Thin Muck	n Reducti Surface (Well Data	on in Tilled C7) (D9)	,	Geomorphic F	Position (D2)
Iron Dep Inundati Sparsely Field Obser	oosits (B5) on Visible on Aerial y Vegetated Concav vations:	ve Surface (B8)	Recent Iro Thin Muck Gauge or Other (Ex	on Reducti Surface (Well Data olain in Re	on in Tilled C7) (D9) marks)	d Soils (C6	Geomorphic F	Position (D2)
Iron Dep Inundati Sparsely Field Obser Surface Wat	posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present?	ye Surface (B8)	Recent Iro Thin Muck Gauge or Other (Ex	on Reducti Surface (Well Data plain in Re ches):	on in Tilled C7) (D9) marks)	d Soils (C6	Geomorphic F	Position (D2)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table	oosits (B5) on Visible on Aerial y Vegetated Concav vations: er Present?	ye Surface (B8) Yes No	Recent Iro Thin Muck Gauge or Other (Ex	on Reducti Surface (Well Data blain in Re ches): ches):	on in Tilled C7) (D9) marks)	d Soils (C6	Geomorphic F FAC-Neutral T	Position (D2) Fest (D5)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	oosits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?	Yes No Yes	Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in	on Reducti c Surface (Well Data blain in Re ches): ches): ches):	on in Tilled C7) (D9) marks)	Soils (C6	Geomorphic F FAC-Neutral T FAC-Neutral T	Position (D2)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	oosits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present?	Yes No Yes	Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in	on Reducti c Surface (Well Data blain in Re ches): ches): ches):	on in Tilled C7) (D9) marks)	Soils (C6	Geomorphic F FAC-Neutral T FAC-Neutral T	Position (D2) Fest (D5)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cal Describe Re	oosits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?	Yes No Yes	Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in	on Reducti c Surface (Well Data blain in Re ches): ches): ches):	on in Tilled C7) (D9) marks)	Soils (C6	Geomorphic F FAC-Neutral T FAC-Neutral T	Position (D2) Fest (D5)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	oosits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?	Yes No Yes	Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in	on Reducti c Surface (Well Data blain in Re ches): ches): ches):	on in Tilled C7) (D9) marks)	Soils (C6	Geomorphic F FAC-Neutral T FAC-Neutral T	Position (D2) Fest (D5)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	posits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent? pillary fringe) corded Data (strean	Yes No Yes No Yes No Yes No In gauge, monito	Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in Depth (in	on Reducti c Surface (Well Data blain in Re ches): ches): ches): photos, pr	on in Tilled C7) (D9) marks)	Wetl pections),	Geomorphic F FAC-Neutral T FAC-Neutral T	Position (D2) Fest (D5)
Iron Dep Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	oosits (B5) on Visible on Aerial y Vegetated Concav vations: er Present? Present? resent?	Yes No Yes No Yes No Yes No In gauge, monito	Recent Iro Thin Muck Gauge or Other (Exp Depth (in Depth (in Depth (in	on Reducti c Surface (Well Data blain in Re ches): ches): ches): photos, pr	on in Tilled C7) (D9) marks)	Wetl pections),	Geomorphic F FAC-Neutral T FAC-Neutral T	Position (D2) Fest (D5)

Project/Site: Louise Solar	C	City/County: Mower County Sampling Date: 2020-11-03					
Applicant/Owner: EDF Renewables				State: Minnesota	Sampling Point: WB-05	wet-ز	
Investigator(s): R. Cress	s	ection, T	ownship, Rar	nge: S7, T101, R15			
				concave, convex, none):			
		ong: <u>-9</u> 2	2.6693674	<u>. </u>	Datum: WGS 84		
Soil Map Unit Name: Tripoli clay loam, 0 to 2 perce	ent slopes			NWI classifica	ation: R4SBC		
Are climatic / hydrologic conditions on the site typical for this	is time of year	? Yes_	✓ No	(If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology	significantly di	isturbed?	Are "I	Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology	naturally prob	lematic?	(If ne	eded, explain any answer	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showings	samplii	ng point lo	ocations, transects	, important features	, etc.	
Hydrophytic Vegetation Present? Yes N	No						
Hydric Soil Present? Yes ✓ N			he Sampled	_			
Wetland Hydrology Present? Yes <u>✓</u> N	No	wit	hin a Wetlan	d? Yes <u>√</u>	No		
Remarks:				· · · · · · · · · · · · · · · · · · ·			
Wet meadow swale located in a cornfield. Antedelineation.	eceaent pr	есірітат	lon is cons	sidered ary for the 3	months prior to the		
VEGETATION – Use scientific names of plants							
20 # *			nt Indicator	Dominance Test works	sheet:		
Tree Stratum (Plot size: 30 ft r) 1.	% Cover		I	Number of Dominant Sp That Are OBL, FACW, o		(A)	
2			I	Total Number of Domina	ant		
3			I	Species Across All Strat	ta: <u>2</u>	(B)	
4 5				Percent of Dominant Sp		(A (D)	
		: Total Co	over	That Are OBL, FACW, o	or FAC: 100	(A/B)	
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index work			
1				Total % Cover of:		-	
2					x 1 = 0	-	
3					x = 150 x = 75	-	
4					$\begin{array}{c} x 3 = 73 \\ x 4 = 0 \end{array}$	-	
5		T-4-1 O		UPL species 0		-	
Herb Stratum (Plot size: 5 ft r)		Total Co	over	Column Totals: 100	(A) 225	- (B)	
1. Phalaris arundinacea	70	✓	FACW	Column Totals.	(A)	_ (5)	
2. Poa pratensis	_ 25	✓	FAC	Prevalence Index		_	
3. Spartina pectinata	_ 5		_ FACW_	Hydrophytic Vegetatio			
4					Hydrophytic Vegetation		
5				✓ 2 - Dominance Test			
6				✓ 3 - Prevalence Inde			
7				4 - Morphological A data in Remarks	daptations ¹ (Provide supp s or on a separate sheet)	orting	
8				Problematic Hydrop	ohytic Vegetation ¹ (Explair	1)	
9							
10.	100% =	Total Co	over	¹ Indicators of hydric soil be present, unless distu	l and wetland hydrology m	ust	
Woody Vine Stratum (Plot size: 30 ft r)			-	be present, unless distu	nood of problematic.		
1			I	Hydrophytic			
2				Vegetation Present? Yes	s No		
Remarks: (Include photo numbers here or on a separate	=	· Total Co	ver				
Area dominated by reed canarygra	,	(antıı	icky blu	anrace			
Trica dominated by reed canalygic	iss and f	CIICA	ony bide	- gi a33.			

Soll Sampling Point: WB-05-wet

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	n the absence of in	ndicators.)			
Depth	Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks			
0 - 18	10YR 2/1	100	1				Clay loam				
<u> 18 - 24</u>	10YR 4/1	95	10YR 5/8	5	С	M	Clay				
¹ Type: C=C	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.	² Location: PL	=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy (Gleyed Ma	atrix (S4)		Coast Prair	rie Redox (A16)			
I —	oipedon (A2)			Redox (St			Dark Surfa	. ,			
Black Histic (A3) Stripped Matrix (S6)								anese Masses (F12)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2)								ow Dark Surface (TF12)			
	ick (A10)			d Matrix (Other (Exp	lain in Remarks)			
ı —	d Below Dark Surfac	e (A11)		Dark Surfa							
I — ·	ark Surface (A12)	(,	_		urface (F7))	3Indicators of h	ydrophytic vegetation and			
Sandy N	lucky Mineral (S1)		Redox I	Depressio	ns (F8)		wetland hyd	drology must be present,			
	icky Peat or Peat (S						unless dist	urbed or problematic.			
Restrictive	Layer (if observed)	:									
							Hydric Soil Pres	sent? Yes / No			
Depth (in	ches):						Tryunc con rie	36III. 163 NO			
Remarks:											
Thick d	ark laver ob	served	over a deple	eted n	natrix						
	J. 10. J. 01. 0.10		0 1 0 1 0 0 0 0 p 1								
LIVEROLO	CV.										
HYDROLO											
1	drology Indicators:		radi abaak all that are				Casandanila	diantara (minimum of tuo required)			
		one is requii	red; check all that ap		(DO)			ndicators (minimum of two required)			
I —	Water (A1)		Water-Sta		, ,		Surface Soil Cracks (B6)				
1 — •	ater Table (A2)		Aquatic Fa					e Patterns (B10)			
Saturation	,		True Aqua		. ,			son Water Table (C2)			
ı —	larks (B1) nt Deposits (B2)		Hydrogen Oxidized F			ina Poots		Burrows (C8) on Visible on Aerial Imagery (C9)			
I —	posits (B3)		Presence			-		or Stressed Plants (D1)			
	at or Crust (B4)		Recent Iro		•	,		phic Position (D2)			
-	oosits (B5)		Thin Muck			u 00113 (01		utral Test (D5)			
I —	on Visible on Aerial	lmagery (B7					<u> </u>	and root (50)			
I —	/ Vegetated Concav		, <u> </u>		-						
Field Obser											
Surface Wat	er Present? Y	esl	No✓ Depth (in	ches):		_					
Water Table			No ✓ Depth (in								
Saturation P			No _✓ Depth (in				and Hydrology Pr	esent? Yes No			
(includes car	oillary fringe)										
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial	photos, pi	revious ins	pections),	if available:				
Remarks:											
	lioloostad:	n a a	all donness:-	n							
wettand	i is located l	ıı a sma	all depression	11.							
ı											

Project/Site: Louise Solar	(City/Cou	ınty: Mow	er County 5	Sampling Date: 20	20-11-03
Applicant/Owner: EDF Renewables				State: Minnesota	Sampling Point: Wi	3-06-up
Investigator(s): R. Cress	;	Section,	, Township,	Range: S12, T101, R16		
Landform (hillslope, terrace, etc.): Upland, Hillslope			Local re	ief (concave, convex, none):	Convex	
Slope (%): 3-7 Lat: 43.5639648	ا	Long: _	92.6609	303 [Datum: WGS 84	
Soil Map Unit Name: Anthroportic udorthents, 2 to	9 percen	t slope	es	NWI classification	tion:	
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Yes	s N	o✓ (If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrology s	significantly of	disturbe	ed? A	re "Normal Circumstances" pre	esent? Yes	_ No
Are Vegetation, Soil, or Hydrology r	naturally pro	blematio	c? (I	f needed, explain any answers	in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	showing	samp	ling poin	t locations, transects,	important feat	ures, etc.
Hydrophytic Vegetation Present? Yes N	lo					
Hydric Soil Present? Yes N	lo		s the Samp		/	
Wetland Hydrology Present? Yes N	lo <u> </u>	v	within a We	tland? Yes	No/	
Remarks:	مام مامیم	A 10 to 0		ainitatian ia aanaidanad	lalm (for the Ore	. a m t h a
Upland sample point is located on a wooded si prior to the delineation.	de slope.	Antec	eaent pre	ecipitation is considered	ary for the 3 m	onths
VEGETATION – Use scientific names of plants.						
Tree Stratum (Plot size: 30 ft r)	Absolute		ant Indicate		heet:	
1. Acer negundo	5	Specie ✓	es? Statu FAC	Number of Dominant Spe That Are OBL, FACW, or		(A)
2				_		('')
3				Total Number of Dominal Species Across All Strata	_	(B)
4				Percent of Dominant Spe	ecies	
5			_	That Are OBL, FACW, or		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)	5%	= Total	Cover	Prevalence Index works	sheet:	
1. Rhamnus cathartica	20		FAC	Total % Cover of:	Multiply b	<u>y:</u>
2. Prunus serotina	10		FACU	OBL species 0	x 1 = 0	
3				FACW species 0	x 2 = 0	
4				FAC species	x 3 = <u>75</u>	
5				_ FACU species 110	x 4 = 440	
Harb Charters (Districts 5 ft r	30%	= Total	Cover	UPL species 0	x 5 = 0	
Herb Stratum (Plot size: 5 ft r) Bromus inermis	75	✓	FACU	Column Totals: 135	(A) <u>515</u>	(B)
2 Solidago canadensis	25	─ ✓	FACU	Prevalence Index =	= B/A = 3.8	
3				Hydrophytic Vegetation	n Indicators:	
4.					ydrophytic Vegetatio	on
5.				2 - Dominance Test	is >50%	
6				3 - Prevalence Index	c is ≤3.0 ¹	
7				4 - Morphological Ad	laptations¹ (Provide	supporting
8					or on a separate sh	
9				Problematic Hydroph	nytic vegetation (E	xpiain)
10				Indicators of hydric soil a	and wetland hydrolc	nav must
Woody Vine Stratum (Plot size: 30 ft r)	100%	= Total	Cover	be present, unless disturb		
1				Hydrophytic		
2				Vegetation Present? Yes	No ✓	
Demonto: (Include phate assure have to a second		= Total	Cover	1000		
Remarks: (Include photo numbers here or on a separate	sneet.)					

Sampling Point: WB-06-up

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence of indic	ators.)
Depth	Matrix		Redo	ox Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks
0-3	10YR 3/1	_ <u>100</u> _					Sandy loam	
3-24	10YR 3/2	100					Sandy loam	
-								
_								
<u> </u>								
	oncentration, D=De	pletion, RM=Re	educed Matrix, M	S=Masked	Sand Gra	ains.		re Lining, M=Matrix.
Hydric Soil								olematic Hydric Soils ³ :
Histosol	. ,			Gleyed Ma			Coast Prairie R	, ,
ı —	pipedon (A2) istic (A3)			Redox (S5 d Matrix (S			Dark Surface (S	e Masses (F12)
ı —	en Sulfide (A4)			Mucky Mir	,		_	ark Surface (TF12)
	d Layers (A5)			Gleyed Ma	, ,		Other (Explain	
2 cm Mu	uck (A10)			ed Matrix (
	d Below Dark Surfa	ce (A11)	_	Dark Surfa			•	
_	ark Surface (A12)			ed Dark Su				phytic vegetation and
	Mucky Mineral (S1) ucky Peat or Peat (S	23)	Redox	Depressio	ns (F8)			gy must be present, d or problematic.
	Layer (if observed)	-					dilless disturbe	d of problematic.
_	Layer (ii obcerved)							
1	ches):		_				Hydric Soil Present	? Yes No
Remarks:								
No indi	cators of hy	dric soil \	were obse	rved.				
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one is required	l; check all that a	pply)			Secondary Indica	ators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Leav	es (B9)		Surface Soil	Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B13)		Drainage Pa	tterns (B10)
Saturati	on (A3)		True Aqu	atic Plants	(B14)		Dry-Season	Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Bur	rows (C8)
Sedime	nt Deposits (B2)			Rhizosphe			(C3) Saturation V	isible on Aerial Imagery (C9)
ı —	posits (B3)		_	of Reduce	,	,		tressed Plants (D1)
ı —	at or Crust (B4)		Recent Ire			d Soils (C6	<i>-</i>	Position (D2)
	oosits (B5)	Imagent (D7)	Thin Muci	,	,		FAC-Neutral	Test (D5)
ı —	on Visible on Aerial y Vegetated Conca\		Gauge or	well Data plain in Re	-			
Field Obser	-	re Surface (Bo,	Other (Ex	piaiii iii Re	illaiks)			
Surface Wat		Ves No	Depth (ir	rches).				
Water Table			Depth (ir					
Saturation P			Depth (ir				and Hydrology Preser	nt? Yes No✓
(includes ca	pillary fringe)							it: TesNo
Describe Re	corded Data (strear	n gauge, monit	toring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:								
No indic	ators of we	tland hvo	drology we	ere obs	erved	l		
13 111010		a.ia iiye		0 000	, , , v C G	•		

Project/Site: Louise Solar	City/C	County: Mower C	County	Sampling Date: 2020-11-03
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: WB-06-wet
Investigator(s): R. Cress	Section	on, Township, Ran	nge: S12, T101, R16	
Landform (hillslope, terrace, etc.): Depression				
				•
Soil Map Unit Name: Anthroportic udorthents, 2 to	9 percent slo	pes	NWI classifica	ation: PUBFx
Are climatic / hydrologic conditions on the site typical for this	s time of year? Y	/es No	✓ (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology s	ignificantly distur	bed? Are "I	Normal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology n	aturally problem	atic? (If nee	eded, explain any answer	's in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing san	npling point lo	cations, transects,	, important features, etc.
Hydrophytic Vegetation Present? Yes N	0			
Hydric Soil Present? Yes ✓ N		Is the Sampled	_	
Wetland Hydrology Present? Yes N	0	within a Wetlan	d? Yes	No
Remarks:			accepted wand. Anta-	
The wetland is a seasonally flooded basin that considered dry for the 3 months prior to the de		e a uneu up ex	cavated pond. Antec	cedent precipitation is
VEGETATION – Use scientific names of plants.				
- Ose scientific flames of plants.		minant Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size: 30 ft r)		ecies? Status	Number of Dominant Sp	
1		I	That Are OBL, FACW, o	
2		I	Total Number of Domina	
3		I	Species Across All Strat	ta: <u>1</u> (B)
4			Percent of Dominant Sp	
5	= To	tal Cover	That Are OBL, FACW, o	or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)			Prevalence Index work	rsheet:
1			Total % Cover of:	
2		I		x 1 = 0
3		I		x = 0
4				x = 240
5			_	x = 0 $x = 0$ $x = 0$
Herb Stratum (Plot size: 5 ft r)	= To	tal Cover	UPL species 0 Column Totals: 80	(A) (B)
1. Poa spp.	80	✓ FAC	Column Totals.	(A) (B)
2			Prevalence Index	
3			Hydrophytic Vegetatio	
4				lydrophytic Vegetation
5			✓ 2 - Dominance Test	
6			√ 3 - Prevalence Inde	
7		I	4 - Morphological A data in Remarks	daptations ¹ (Provide supporting sor on a separate sheet)
8		I		ohytic Vegetation¹ (Explain)
9				
10	0.007	tal Cover		and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		iai Covei	be present, unless distu	rbed or problematic.
1			Hydrophytic	
2			Vegetation Present? Yes	s√No
Demontos (Include photo principal de la constante de la consta	= To	tal Cover	. res	
Remarks: (Include photo numbers here or on a separate s	,			
Vegetation is too short to identify a	accurately	•		

Sampling Point: WB-06-wet

Profile Description	on: (Describe	to the dep	th needed to docur	nent the	indicator	or confir	rm the absence of indicators.)
Depth	Matrix		Redo	x Feature	es		
	Color (moist)	%	Color (moist)	%		_ Loc ²	
0-6 10	YR 3/1	100_	1				Sandy clay loam
6 - 24 <u>5</u> Y	′ 6/2	90	10YR 5/8	10	MS	M	Sand
				. ——	- ——		
_							
¹Type: C=Conce	ntration D=Den	letion RM:	=Reduced Matrix, MS	S=Masker	d Sand Gr	aine	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indic		iction, raw	-rteduced Matrix, Mit	J-Masket	a Garia Gi	airis.	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)			Sandy (Gleyed Ma	atriv (SA)		Coast Prairie Redox (A16)
Histic Epiped				Redox (St			Dark Surface (S7)
Black Histic (. ,			Matrix (,		Iron-Manganese Masses (F12)
Hydrogen Su	,				neral (F1)		Very Shallow Dark Surface (TF12)
Stratified Lay				Gleyed M			Other (Explain in Remarks)
2 cm Muck (A				d Matrix (
✓ Depleted Bel	ow Dark Surface	e (A11)	Redox [Dark Surfa	ace (F6)		
Thick Dark S	urface (A12)		Deplete	d Dark Si	urface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky	Mineral (S1)		Redox [Depressio	ns (F8)		wetland hydrology must be present,
5 cm Mucky I	Peat or Peat (S	3)					unless disturbed or problematic.
Restrictive Laye	r (if observed):						
Туре:							Hudria Cail Dranaut2 Van V
Depth (inches)):						Hydric Soil Present? Yes No
Remarks:							
A depleted	i Saliu lay	ei was	s observed u	nuer a	a uai k	Surra	ce layer.
HYDROLOGY							
Wetland Hydrold	gy Indicators:						
Primary Indicators	s (minimum of o	ne is requi	red; check all that ap	ply)			Secondary Indicators (minimum of two required)
Surface Wate			Water-Sta		res (B9)		Surface Soil Cracks (B6)
✓ High Water T	, ,		Aquatic Fa		, ,		Drainage Patterns (B10)
✓ Saturation (A	, ,		True Aqua				Dry-Season Water Table (C2)
Water Marks	,		Hydrogen				Crayfish Burrows (C8)
Sediment De			Oxidized F			ina Roots	
Drift Deposits			Presence				Stunted or Stressed Plants (D1)
Algal Mat or 0			Recent Iro		•	,	
Iron Deposits			Thin Muck				FAC-Neutral Test (D5)
✓ Inundation Vi	, ,	magery (B					
ı —	etated Concave		. —				
Field Observation		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Surface Water Pr		es	No Depth (in	ches).			
Water Table Pres			No Depth (in			_	
Saturation Preser			No Depth (in			_ we	tland Hydrology Present? Yes No
(includes capillary	/ fringe)						
Describe Recorde	ed Data (stream	gauge, mo	onitoring well, aerial	photos, pi	revious ins	spections)), if available:
Remarks:							
Wetland is	located in	n what	appears to I	oe a la	arge e	xcava	ted depression.
			, ,		ر د د ر		I

Project/Site: Louise Solar	City/C	ounty: Mower C	ounty	Sampling Date: 2020-11-03
Applicant/Owner: EDF Renewables		State: Minnesota	Sampling Point: WB-07-up	
Investigator(s): R. Cress	Section	on, Township, Ran	ge: S12, T101, R16	
Landform (hillslope, terrace, etc.): Upland, Hillslope		Local relief (d	concave, convex, none):	Concave
Slope (%): 3-7 Lat: 43.5639038	Long:	-92.6616575		Datum: WGS 84
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 p	ercent slopes		NWI classifica	ation:
Are climatic / hydrologic conditions on the site typical for thi	is time of year? Y	es No	✓ (If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturl	bed? Are "N	Iormal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology			ded, explain any answer	
SUMMARY OF FINDINGS - Attach site map	showing sam	pling point lo	cations, transects,	, important features, etc.
Hydrophytic Vegetation Present? Yes N	lo ✓			
Hydric Soil Present? Yes N	10	Is the Sampled A		,
Wetland Hydrology Present? Yes N		within a Wetland	1? Yes	No
Remarks:				
Upland sample point is located in a harvested months prior to the delineation.	and tilled corn	field. Anteced	ent precipitation is	considered ary for the 3
VEGETATION – Use scientific names of plants	·			
		ninant Indicator	Dominance Test works	sheet:
Tree Stratum (Plot size: 30 ft r)	% Cover Spec		Number of Dominant Sp	
1		——— I	That Are OBL, FACW, o	or FAC: 0 (A)
2		— — I	Total Number of Domina	•
3			Species Across All Strat	ta: <u>0</u> (B)
5			Percent of Dominant Sp That Are OBL, FACW, of	
	= Tota	al Cover		(,
Sapling/Shrub Stratum (Plot size: 15 ft r)			Prevalence Index work	
1			Total % Cover of: ORL species 0	$\frac{\text{Multiply by:}}{\text{x 1 = } 0}$
2		1		x = 0 x = 0
3		- 1		x = 0
4				x 4 = 0
5	= Tot	al Cover		x 5 = 0
Herb Stratum (Plot size: 5 ft r)		ai covei		(A) 0 (B)
1				
2			Prevalence Index	
3			Hydrophytic Vegetatio	
4			1 - Rapid Test for H	
5			2 - Dominance Test	
6			3 - Prevalence Inde	ex is ≤3.0° daptations¹ (Provide supporting
7				s or on a separate sheet)
8		1		ohytic Vegetation¹ (Explain)
9		— —		
10	= Tota	al Cover		and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r)		ai oovei	be present, unless distu	rbed or problematic.
1			Hydrophytic	
2			Vegetation Present? Yes	s No
		al Cover	1 1030111: 105	, NO
Remarks: (Include photo numbers here or on a separate				
No living vegetation is present as t	he corn ha	s all been h	narvested and	tilled. Corn stalks
are plentiful.				

Soll Sampling Point: WB-07-up

Profile Desc	cription: (Describe	to the depti	h needed to docu	ment the i	indicator	or confirn	n the absence of ir	ndicators.)
Depth	Matrix			ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ²		Remarks
0 - 26	10YR 2/1	_ <u>100</u>					Clay loam	
<u>26 - 30</u>	10YR 4/2	100					Clay loam	
-								
<u> </u>								
Type: C=C Hydric Soil	oncentration, D=De	pletion, RM=I	Reduced Matrix, M	IS=Masked	d Sand Gra	ains.		_=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
*			Candu	Clayed Me	striv (CA)			•
Histosol				Gleyed Ma			Coast Prair	rie Redox (A16) ce (S7)
Histic Epipedon (A2) Sandy Redox (S5) Stripped Matrix (S6)							anese Masses (F12)	
Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)							ow Dark Surface (TF12)	
	d Layers (A5)		_ ′	Gleyed Ma	, ,		Other (Exp	lain in Remarks)
_	uck (A10)	(8.4.4)		ed Matrix (,			
ı —	d Below Dark Surfa ark Surface (A12)	ce (A11)	_	Dark Surfa ed Dark Su			3Indicators of h	ydrophytic vegetation and
_	Mucky Mineral (S1)			Depression				drology must be present,
1 — 1	ucky Peat or Peat (S3)			(- /		,	urbed or problematic.
Restrictive	Layer (if observed):						
Type:							Hudaia Cail Bas	
Depth (in	ches):						Hydric Soil Pres	sent? Yes No
Remarks:							-	
No indi	cators of hy	dric soil	were obse	rved				
110 111011	oatoro or my	ai 10 0011	WOIG OBOO	ı voa.				
HYDROLO								
1	drology Indicators							
	cators (minimum of	one is require			(50)			ndicators (minimum of two required)
_	Water (A1)			ained Leav	` '			Soil Cracks (B6)
Saturati	ater Table (A2)			auna (B13				e Patterns (B10)
ı —	Marks (B1)			atic Plants Sulfide O	. ,			son Water Table (C2) Burrows (C8)
ı —	nt Deposits (B2)			Rhizosphe		ina Roots		on Visible on Aerial Imagery (C9)
	posits (B3)			of Reduce		-		or Stressed Plants (D1)
I —	at or Crust (B4)		_	on Reducti	,	,	_	phic Position (D2)
	posits (B5)		Thin Muc			,	<i>-</i>	utral Test (D5)
Inundati	on Visible on Aerial	Imagery (B7)) Gauge or	Well Data	(D9)			
Sparsel	y Vegetated Conca	ve Surface (B	8) Other (Ex	plain in Re	emarks)			
Field Obser								
Surface Wat			lo Depth (ir					
Water Table	Present?	Yes N	lo Depth (ir	nches):		_		
Saturation P		Yes N	lo <u>√</u> Depth (ir	nches):		_ Wetl	and Hydrology Pro	esent? Yes No
	pillary fringe) corded Data (strear	n gauge. mor	nitoring well. aerial	photos. pr	evious ins	pections).	if available:	
				p, p.		,		
Remarks:								
No indic	ators of we	tland hy	drology we	ere obs	served	l.		
			arology We			••		

Project/Site: Louise Solar	City	//County:	Mower 0	County	Sampling Date: 20	20-11-03
Applicant/Owner: EDF Renewables				State: Minnesota	Sampling Point: WE	3-07-wet
Investigator(s): R. Cress	Sec	ction, Tow	nship, Rar	nge: S12, T101, R16		
Landform (hillslope, terrace, etc.): Depression					Concave	
Slope (%): 0-2% Lat: 43.5618286	Lor	ng: <u>-92.</u>	6942021	Datum: WGS 84		
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 per	cent slope	es		NWI classifica	ation: PEM1A	
Are climatic / hydrologic conditions on the site typical for this t	ime of year?	Yes	No	✓ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology sig	nificantly dist	turbed?	Are "I	Normal Circumstances" p	resent? Yes✓	_ No
Are Vegetation, Soil, or Hydrology nat	turally proble	matic?	(If ne	eded, explain any answer	's in Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	howing sa	ampling	point lo	ocations, transects,	, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes ✓ No						
Hydric Soil Present? Yes ✓ No			Sampled	,		
Wetland Hydrology Present? Yes ✓ No		within	n a Wetlan	d? Yes <u>v</u>	No	
Remarks:		A.				tha 2
Shrub-Carr swale located in a depression adjace months prior to the delineation.	ent to a str	eam. Ai	neceder	it precipitation is coi	nsidered dry for	the 3
VEGETATION – Use scientific names of plants.	Absolute D	ominant	Indicator	Dominance Test works	ahaat:	
00 ft	% Cover S			Number of Dominant Sp		
1				That Are OBL, FACW, o		(A)
2				Total Number of Domina	ant	
3				Species Across All Strat	ta: <u>2</u>	(B)
4				Percent of Dominant Sp		
5	= 7	Fotal Cove		That Are OBL, FACW, o	or FAC: 100	(A/B)
Sapling/Shrub Stratum (Plot size: 15 Tt r)		otal Cove	,	Prevalence Index work	sheet:	
1. Salix discolor	<u>55 </u>	√ .	FACW_	Total % Cover of:		<u>y:</u>
2				OBL species 10	x 1 = 10	
3				FACW species 135	x 2 = 270	—
4				FAC species 10 0	x 3 = 30 x 4 = 0	
5		Total Cove		UPL species 0	x 5 = 0	_
Herb Stratum (Plot size: 5 ft r)				Column Totals: 155	(A) 310	(B)
1	<u>80</u> _	√ .	FACW_			(-/
2.	10		OBL	Prevalence Index		
3. Symphyotrichum lanceolatum	10		FAC	Hydrophytic Vegetatio		
4				✓ 1 - Rapid Test for H✓ 2 - Dominance Test		'n
5				✓ 3 - Prevalence Inde		
6				_	daptations ¹ (Provide	supporting
7 · 8 ·					or on a separate sh	
9.				Problematic Hydrop	ohytic Vegetation ¹ (E	xplain)
10				1		
	100% = 7	Total Cove	er	¹ Indicators of hydric soil be present, unless distu		
1				Hydrophytic		
2				Vegetation		
		Total Cove	er	Present? Yes	s No	
Remarks: (Include photo numbers here or on a separate sh	eet.)					
Area dominated by shrubby pussy w	villow co	overa	ge.			

US Army Corps of Engineers

Sampling Point: WB-07-wet

Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the	indicator	or confirn	n the absence of indicato	ors.)			
Depth	Matrix		Redo	x Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ² _	Texture	Remarks			
0-24	10YR 2/1	_ <u>100</u>					Clay loam				
<u>24 - 30</u>	10YR 4/1	<u>95</u> .	10YR 5/8	5	<u>C</u>	<u>M</u>	Clay loam				
-											
_											
<u> </u>				- ——	- ——						
					- ——						
	oncentration, D=Dep	oletion, RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	² Location: PL=Pore				
Hydric Soil							Indicators for Proble	•			
Histosol	. ,			Gleyed Ma			Coast Prairie Red	, ,			
ı —	oipedon (A2) stic (A3)			Redox (St d Matrix (\$			Dark Surface (S7) Iron-Manganese M				
ı —	en Sulfide (A4)				neral (F1)		Very Shallow Dark	, ,			
	d Layers (A5)			Gleyed M			Other (Explain in I				
	ıck (A10)			d Matrix (
I — ·	d Below Dark Surfac	ce (A11)	_	Dark Surfa	, ,						
	ark Surface (A12)				urface (F7))	³ Indicators of hydroph				
ı — ·	lucky Mineral (S1) icky Peat or Peat (S	2)	Redox I	Depressio	ons (F8)		wetland hydrology unless disturbed o	•			
	Layer (if observed)	-					unless disturbed t	л рговієтнаце.			
								,			
	ches):						Hydric Soil Present?	Yes No			
Remarks:			_								
Thick d	ark layer ov	er a dep	oleted matri	X							
HYDROLO	GY										
Wetland Hy	drology Indicators	:									
Primary India	cators (minimum of	one is require	ed; check all that ap	ply)			Secondary Indicator	rs (minimum of two required)			
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface Soil Cr	acks (B6)			
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage Patterns (B10)				
Saturation	on (A3)		True Aqua	itic Plants	(B14)		Dry-Season Wa	ater Table (C2)			
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Burrov	vs (C8)			
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation Visib	ole on Aerial Imagery (C9)			
I — ·	posits (B3)		Presence	of Reduce	ed Iron (C4	1)		ssed Plants (D1)			
ı —	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C	. —				
I —	oosits (B5)		Thin Muck				✓ FAC-Neutral Te	est (D5)			
ı —	on Visible on Aerial										
Field Obser	/ Vegetated Concav	e Surrace (E	38) Other (Exp	Diain in Re	emarks)						
		/oo N	No Depth (in	oboo):							
Surface Wat			No Depth (in								
Water Table							and Hudralagu Brasant?	Yes No			
Saturation P (includes car		res N	No Depth (inc	cnes):		_ weti	and Hydrology Present?	res No			
Describe Re	corded Data (strean	n gauge, mo	nitoring well, aerial p	photos, pi	revious ins	pections),	if available:				
Remarks:											
Motland	l is adiacont	to a ctr	roam								
vvetiano	l is adjacent	to a sti	caiii.								

Project/Site: Louise Solar	City/C	ounty: Mower C	ounty	Sampling Date: 2020-11	1-03
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: WB-08-	-up
Investigator(s): _R. Cress	Section	on, Township, Rang	ge: S12, T101, R16		
Landform (hillslope, terrace, etc.): Upland, Hillslope		Local relief (c	concave, convex, none):	Concave	
		-92.6986126			
Soil Map Unit Name: Hayfield loam			NWI classification		
Are climatic / hydrologic conditions on the site typical for this tir	me of year? Y				
Are Vegetation, Soil, or Hydrology sign					✓
Are Vegetation, Soil, or Hydrology natu			ded, explain any answer		
SUMMARY OF FINDINGS - Attach site map sh	owing sam	pling point lo	cations, transects,	, important features,	etc.
Hydrophytic Vegetation Present? Yes No _	✓				
Hydric Soil Present? Yes No _	<u>√</u>	Is the Sampled A		/	
Wetland Hydrology Present? Yes No _	<u>✓</u>	within a Wetland	1? Yes	No	
Remarks:	d Atti a di a sama	Cald Autoria			
Upland sample point is located in a harvested and months prior to the delineation.	a tillea com	neia. Antecea	ent precipitation is	considered dry for the	e s
VEGETATION – Use scientific names of plants.					
7 0 1 1 20 ft r		inant Indicator	Dominance Test works	sheet:	
		cies? Status	Number of Dominant Sp. That Are OBL, FACW, of		.,
1					^,
3.			Total Number of Domina Species Across All Strat	^	B)
4.			•		,
5			Percent of Dominant Sp That Are OBL, FACW, of		A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tot	al Cover	Prevalence Index work	kshoot:	
1			Total % Cover of:		
2				x 1 = 0	
3				x 2 = 0	
4			FAC species 0	x 3 = <u>0</u>	
5			FACU species 0	x 4 = <u>0</u>	
	= Tot	al Cover		x 5 = 0	
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u>	(B)
1		— —	Prevalence Index	= B/A = 0.0	
2			Hydrophytic Vegetatio		
4			1 - Rapid Test for H		
5		I	2 - Dominance Test		
6.			3 - Prevalence Inde	ex is ≤3.0 ¹	
7				daptations¹ (Provide suppo	orting
8				s or on a separate sheet)	
9			Problematic Hydrop	ohytic Vegetation¹ (Explain)	
10			¹ Indicators of hydric soil	l and wetland hydrology mu	ıst
Woody Vine Stratum (Plot size: 30 ft r	= Tot	al Cover	be present, unless distu		
1			Hydrophytic		
2			Vegetation	/	
_	= Tot	al Cover	Present? Yes	s No	
Remarks: (Include photo numbers here or on a separate she	eet.)				
No living vegetation is present as the	e corn ha	s all been h	narvested and	tilled. Corn stalk	s
are plentiful.					

SOIL Sampling Point: WB-08-up

Profile Desc	cription: (Describe	to the dep	th needed to docur	ment the	indicator	or confirr	n the absence of i	ndicators.)		
Depth	Matrix		Redo	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ² _	Texture	Remarks		
0 - 28	10YR 2/1	100					Clay loam			
28 - 34	10YR 4/3	95	10YR 5/6	<u> 5</u>	<u> </u>	<u>M</u>	Clay loam			
-										
					- —					
<u> </u>										
<u> </u>					- ——					
		oletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.		
Hydric Soil			Cond.	Olava d M	-4-i (O.4)			Problematic Hydric Soils ³ :		
Histosol	oipedon (A2)			Gleyed Ma Redox (St			Coast Prai	irie Redox (A16)		
I —	istic (A3)			d Matrix (anese Masses (F12)		
ı —	en Sulfide (A4)				neral (F1)			ow Dark Surface (TF12)		
Stratified	d Layers (A5)		Loamy	Gleyed M	atrix (F2)		Other (Exp	olain in Remarks)		
ı —	ıck (A10)			d Matrix (
ı —	d Below Dark Surfac	e (A11)	_	Dark Surfa			31	landara budia na matatian and		
ı —	ark Surface (A12) Mucky Mineral (S1)			ed Dark Si Depressio	urface (F7))		hydrophytic vegetation and drology must be present,		
1 – ′	icky Peat or Peat (S	3)		Depressio	113 (1-0)		,	turbed or problematic.		
	Layer (if observed)									
Type:										
Depth (in	ches):						Hydric Soil Pre	esent? Yes No		
Remarks:										
No india	actors of by	dria aai	lwara abaa	n ro d						
No maio	cators or ny	aric soi	l were obsei	vea.						
HYDROLO	GY									
Wetland Hy	drology Indicators									
Primary India	cators (minimum of	one is requi	red; check all that ap	oply)			Secondary I	ndicators (minimum of two required)		
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface	Soil Cracks (B6)		
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainag	e Patterns (B10)		
Saturation	on (A3)		True Aqua	atic Plants	(B14)		Dry-Season Water Table (C2)			
ı —	larks (B1)		Hydrogen					Burrows (C8)		
	nt Deposits (B2)		Oxidized F			-		on Visible on Aerial Imagery (C9)		
I —	posits (B3)		Presence		`	,	_	or Stressed Plants (D1)		
	at or Crust (B4)		Recent Iro			a Solis (C	· —	rphic Position (D2)		
:	oosits (B5) on Visible on Aerial	Imagen/ (P	Thin Muck 7) Gauge or		. ,		FAC-Ne	eutral Test (D5)		
ı —	y Vegetated Concav									
Field Obser		e ourrace (i	Other (EX	Jiaiii iii i k	ziiiai kā)					
Surface Wat		'es	No <u>✓</u> Depth (in	ches):						
Water Table			No Depth (in							
Saturation P			No ✓ Depth (in				land Hydrology Pr	resent? Yes No		
(includes cap	oillary fringe)									
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial	photos, p	revious ins	pections),	if available:			
Damarka										
Remarks:	_					_				
No indic	ators of we	tland h	ydrology we	re obs	served	l.				
1										

Project/Site: Louise Solar	City	y/County: Mower	County	Sampling Date: 2020-11-03			
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point: WB-08-wet			
Investigator(s): R. Cress	Se	ction, Township, Ra	ion, Township, Range: S12, T101, R16				
			f (concave, convex, none):	Concave			
Slope (%): <u>0-2%</u> Lat: <u>43.5671692</u>	Loi	ng: <u>-92.698612</u>	6	Datum: WGS 84			
Soil Map Unit Name: Coland, frequently flooded-Spillville, or							
Are climatic / hydrologic conditions on the site typical for the	his time of year?	Yes No _	✓ (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology	significantly dis	turbed? Are	"Normal Circumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hydrology	naturally proble	ematic? (If n	eeded, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS - Attach site map	showing sa	ampling point	locations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes✓	No						
	No	Is the Sample					
Wetland Hydrology Present? Yes <u>√</u>	No	within a Wetla	ind? Yes	No			
Remarks: Floodplain forest adjacent to a perennial strea	am Antagada	nt procinitatio	n io oonoidarad dry fa	or the 2 menths prior to			
the delineation.	am. Amecede	ent precipitation	ir is considered dry ic	of the 3 months prior to			
VEGETATION – Use scientific names of plants	S.						
		ominant Indicator	Dominance Test work	sheet:			
Tree Stratum (Plot size: 30 ft r)		pecies? Status ✓ FAC	Number of Dominant Sp				
1. Acer negundo			That Are OBL, FACW, o	or FAC: 2 (A)			
2 3			Total Number of Domini	0			
4			Species Across All Stra	ta. <u>2</u> (b)			
5.			Percent of Dominant Sp That Are OBL, FACW, or				
15 ft r	40% = 7	Γotal Cover					
Sapling/Shrub Stratum (Plot size: 15 ft r)			Prevalence Index work Total % Cover of:				
1			. -	x 1 = 10			
2			· 1	x 2 = 180			
4			1	x 3 = 120			
5.			FACU species 0	x 4 = 0			
		 Γotal Cover	UPL species 0				
Herb Stratum (Plot size: 5 ft r)	90	√ FACW	Column Totals: 140	(A) 310 (B)			
1. Phalaris arundinacea 2. Scirpus microcarpus	- 90 -	✓ FACW OBL	Prevalence Index	= R/A = 2.2			
			Hydrophytic Vegetation				
3				Hydrophytic Vegetation			
5			✓ 2 - Dominance Tes				
6			√ 3 - Prevalence Inde	ex is ≤3.0 ¹			
7			4 - Morphological A	Adaptations ¹ (Provide supporting			
8				s or on a separate sheet)			
9.			Problematic Hydror	phytic Vegetation ¹ (Explain)			
10			1 Indicators of hydric soil	I and wetland hydrology must			
Woody Vine Stratum (Plot size: 30 ft r)	100% = 7	Total Cover	be present, unless distu				
1			Hydrophytic				
2			Vegetation	s No			
	= 7	Total Cover	Present? Yes	» _ · _ NO			
Remarks: (Include photo numbers here or on a separate	,						
Area dominated by boxelder and r	reed cana	rygrass.					

US Army Corps of Engineers

Soll Sampling Point: WB-08-wet

Profile Desc	ription: (Describe	to the dept	h needed to docu	ment the	indicator	or confirm	n the absence of ind	icators.)			
Depth	Matrix			x Feature							
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	Loc ²	Texture	Remarks			
0-8	10YR 2/1	100					Sandy clay loam				
8-24	10YR 4/1	90	10YR 5/8	10	<u>C</u>	<u>M</u>	Clay loam				
-											
<u> </u>											
<u> </u>											
	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.		Pore Lining, M=Matrix.			
Hydric Soil	Indicators:							oblematic Hydric Soils ³ :			
Histosol	. ,			Gleyed Ma			_	Redox (A16)			
I —	oipedon (A2) stic (A3)			Redox (St d Matrix (\$			Dark Surface	ese Masses (F12)			
ı —	en Sulfide (A4)				neral (F1)			Dark Surface (TF12)			
	d Layers (A5)			Gleyed M				in in Remarks)			
	ıck (A10)			ed Matrix (,			
ı — ·	d Below Dark Surfac	ce (A11)	Redox	Dark Surf	ace (F6)						
_	ark Surface (A12)				urface (F7))		drophytic vegetation and			
	lucky Mineral (S1)	22)	Redox	Depression	ns (F8)		-	plogy must be present,			
	icky Peat or Peat (S Layer (if observed)						uniess disturi	bed or problematic.			
I	Layer (II Observed)										
1	ches):						Hydric Soil Prese	nt? Yes No			
Remarks:											
Thick d	ark layer ov	er a dep	oleted matri	X							
HYDROLO	GY										
Wetland Hy	drology Indicators	:									
Primary India	cators (minimum of	one is requir	ed; check all that a	oply)			Secondary Indi	icators (minimum of two required)			
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface So	oil Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage F	Patterns (B10)			
Saturation	on (A3)		True Aqua	atic Plants	(B14)		Dry-Season Water Table (C2)				
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish B	urrows (C8)			
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) Saturation	Visible on Aerial Imagery (C9)			
Drift De	posits (B3)		Presence	of Reduce	ed Iron (C4	1)	Stunted or	Stressed Plants (D1)			
Algal Ma	at or Crust (B4)		Recent Iro	n Reduct	ion in Tille	d Soils (C		ic Position (D2)			
I —	oosits (B5)		Thin Muck				✓ FAC-Neuti	ral Test (D5)			
ı —	on Visible on Aerial										
	/ Vegetated Concav	e Surface (E	38) Other (Ex	plain in Re	emarks)						
Field Obser		,	. /								
Surface Wat			No Depth (in								
Water Table			No Depth (in								
Saturation P (includes car	oillary fringe)		No _✓ Depth (in					ent? Yes No			
Describe Re	corded Data (strear	n gauge, mo	nitoring well, aerial	photos, p	revious ins	spections),	if available:				
Remarks:											
Wetland	l is adjacent	to a sti	ream.								
			- w								

US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: Louise Solar	City/C	ounty: Mower (County	Sampling Date: _2	2020-11-03
Applicant/Owner: EDF Renewables			State: Minnesota	Sampling Point:	NB-09-up
Investigator(s): R. Cress	Section	n, Township, Rar	nge: S12, T101, R16		
Landform (hillslope, terrace, etc.): Upland, Hillslope		Local relief	(concave, convex, none):	Convex	
Slope (%): <u>3-7</u> Lat: <u>43.5671692</u>	Long:	-92.6986126	<u> </u>	Datum: WGS 84	4
Soil Map Unit Name: Coland, frequently flooded-Spillville, occassionally	y flooded o	complex, 0 to 2 per	cent slopes NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this time of	f year? Y	es No _	✓ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significan	ntly disturl	oed? Are "	Normal Circumstances" p	oresent? Yes	No
Are Vegetation, Soil, or Hydrology naturally	problema	tic? (If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	ng sam	pling point le	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes No✓	_	Is the Sampled		/	
Wetland Hydrology Present? Yes No	_	within a Wetlan	id? Yes	No	
Remarks: Upland sample point is located in a harvested and tille	od corn	field Antoco	dont procinitation is	considered dr	y for the 2
months prior to the delineation.	eu com	neid. Antecei	dent precipitation is	considered dr	y for the 3
VEGETATION – Use scientific names of plants.					
Absolu		inant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft r) % Cov		cies? Status	Number of Dominant Sp That Are OBL, FACW, o		(A)
2			Total Number of Domin	ant	
3			Species Across All Stra	ta: <u>0</u>	(B)
4 5			Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r)	= Tota	al Cover	Prevalence Index world	kshoot:	
1			Total % Cover of:		/ by:
2.			_	x 1 = 0	
3				x 2 = 0	
4.			_	x 3 = 0	
5.			FACU species 0	x 4 = 0	
	= Tota	al Cover	UPL species 0	x 5 = 0	
Herb Stratum (Plot size: 5 ft r)			Column Totals: 0	(A) <u>0</u>	(B)
1			Prevalence Index	= B/A = 0.0	
3			Hydrophytic Vegetation		
4			1 - Rapid Test for H	Hydrophytic Vegeta	ation
5			2 - Dominance Tes		
6			3 - Prevalence Inde	ex is ≤3.0 ¹	
7.			4 - Morphological A	Adaptations ¹ (Provi	de supporting
8				s or on a separate	
9			Problematic Hydrop	pnytic vegetation	(Explain)
10			¹ Indicators of hydric soil	l and wetland hydr	ology must
Woody Vine Stratum (Plot size: 30 ft r)	_	al Cover	be present, unless distu		
1			Hydrophytic		
2			Vegetation Present? Yes	s No	/
Remarks: (Include photo numbers here or on a separate sheet.)	= Tota	al Cover			
No living vegetation is present as the co	orn ha	s all heen	harvested and	tilled Corn	stalks
are plentiful.)	J dii Deeli	nai vestea ana	anca. Com	Juins
aro promun.					

Sampling Point: WB-09-up

Profile Desc	ription: (Describe	to the dep	th needed to docur	ment the	indicator	or confire	n the absence of indi	cators.)			
Depth	Matrix		Redo	x Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ² _	Texture	Remarks			
0 - 28	10YR 2/1	100_					Sandy clay loam				
<u>28 - 34</u>	10YR 4/3	95	10YR 5/6	5	<u>C</u>	<u>M</u>	Sandy clay loam				
-											
<u> </u>				- ——	- ——						
					- ——						
		oletion, RM=	Reduced Matrix, M	S=Maske	d Sand Gr	ains.		Pore Lining, M=Matrix.			
Hydric Soil								oblematic Hydric Soils ³ :			
Histosol	. ,			Gleyed Ma			Coast Prairie	, ,			
I —	oipedon (A2) stic (A3)			Redox (St d Matrix (\$			Dark Surface	ese Masses (F12)			
ı —	en Sulfide (A4)				neral (F1)		_	Dark Surface (TF12)			
	d Layers (A5)			Gleyed M				n in Remarks)			
2 cm Mu	ıck (A10)			ed Matrix (
ı — ·	d Below Dark Surfac	ce (A11)	_	Dark Surfa	, ,		2				
_	ark Surface (A12)				urface (F7))		rophytic vegetation and			
ı —	lucky Mineral (S1) icky Peat or Peat (S	3)	Redox I	Depressio	ons (F8)		-	logy must be present, ped or problematic.			
	Layer (if observed)						unicos distart	or problematic.			
l _	, (,			
1	ches):						Hydric Soil Prese	nt? Yes No✓			
Remarks:											
No indi	cators of hy	dric soi	l were obsei	rved.							
HYDROLO	GY										
Wetland Hy	drology Indicators	:									
Primary India	cators (minimum of	one is requir	ed; check all that ap	oply)			Secondary Indi	cators (minimum of two required)			
Surface	Water (A1)		Water-Sta	ined Leav	res (B9)		Surface So	il Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Fa	auna (B13	3)		Drainage Patterns (B10)				
Saturation	on (A3)		True Aqua	atic Plants	(B14)		Dry-Season	n Water Table (C2)			
Water M	larks (B1)		Hydrogen	Sulfide O	dor (C1)		Crayfish Bu	urrows (C8)			
	nt Deposits (B2)		Oxidized F			-		Visible on Aerial Imagery (C9)			
ı —	posits (B3)		Presence		,	,		Stressed Plants (D1)			
ı —	at or Crust (B4)		Recent Iro			d Soils (C	<i>-</i>	ic Position (D2)			
:	oosits (B5)	Imagan, (D	Thin Muck		` '		FAC-Neutr	al Test (D5)			
ı —	on Visible on Aerial / Vegetated Concav	• • •	. —								
Field Obser		e Suriace (i	Other (Exp	piaiii iii Re	elliaiks)						
Surface Wat		/es I	No Depth (in	ches).							
Water Table			No Depth (in								
Saturation P			No <u>✓</u> Depth (in				land Hydrology Pres	ent? Yes No			
(includes cap	oillary fringe)							16310			
Describe Re	corded Data (strean	n gauge, mo	nitoring well, aerial	pnotos, pi	revious ins	spections),	, if available:				
Remarks:											
No indic	ators of we	tland h	drology we	re obs	served	l.					
			,	_ 3.50		-					

Project/Site: Louise Solar	C	ity/Count	ty: Mower (County	Sampling Date: 2020-11-03		
Applicant/Owner: EDF Renewables		State: Minnesota Sampling Point: WB-09-we					
Investigator(s): R. Cress	s	ection, T	ownship, Rar	nge: S12, T101, R16			
Landform (hillslope, terrace, etc.): Depression					Concave		
Slope (%): <u>0-2%</u> Lat: <u>43.5678406</u>	L	ong: <u>-9</u> 2	2.6972809	<u> </u>	Datum: WGS 84		
Soil Map Unit Name: Coland, frequently flooded-Spillville, occ							
Are climatic / hydrologic conditions on the site typical for thi	is time of year	? Yes_	No	✓ (If no, explain in Re	emarks.)		
Are Vegetation, Soil, or Hydrology s	significantly di	isturbed?	Are "I	Normal Circumstances" p	resent? Yes No		
Are Vegetation, Soil, or Hydrology r	naturally prob	lematic?	(If ne	eded, explain any answer	's in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes ✓ N	lo						
Hydric Soil Present? Yes✓ N			he Sampled				
Wetland Hydrology Present? Yes✓ N	lo	wit	hin a Wetlan	d? Yes	No		
Remarks:			A I I		and described to		
Shrub-Carr swale located in a depression adjamonths prior to the delineation.	cent to a s	tream.	Anteceder	it precipitation is co	nsidered dry for the 3		
VEGETATION – Use scientific names of plants							
- Ose scientific flames of plants		Dominan	nt Indicator	Dominance Test works	sheet:		
Tree Stratum (Plot size: 30 ft r)	% Cover			Number of Dominant Sp			
1				That Are OBL, FACW, o			
2				Total Number of Domina			
3				Species Across All Strat	ta: <u>2</u> (B)		
4				Percent of Dominant Sp			
	=	: Total Co	over	That Are OBL, FACW, o	or FAC: 100 (A/B)		
Sapling/Shrub Stratum (Plot size: 15 ft r)				Prevalence Index work			
1. Salix interior			_ FACW_	Total % Cover of:			
2					x 1 = 10		
3					x = 320 x = 30		
4							
5	70%	T-4-1 O		_	x 4 = 0 x 5 = 0		
Herb Stratum (Plot size: 5 ft r)	<u>70%</u> =	Total Co	over	UPL species 0 Column Totals: 180	$(A) \frac{360}{360}$		
1. Phalaris arundinacea	90	✓	FACW	Column Totals. 100	(A) <u>333</u> (B)		
2. Symphyotrichum lanceolatum	_ 10		FAC_	Prevalence Index	= B/A = 2.0		
3				Hydrophytic Vegetatio			
4				✓ 1 - Rapid Test for H			
5				✓ 2 - Dominance Test			
6				✓ 3 - Prevalence Inde			
7				4 - Morphological A data in Remarks	daptations ¹ (Provide supporting s or on a separate sheet)		
8					ohytic Vegetation¹ (Explain)		
9							
10	110% =	: Total Co	over		and wetland hydrology must		
Woody Vine Stratum (Plot size: 30 ft r)	11070	· Total CC	Jvei	be present, unless distu	rbed or problematic.		
1				Hydrophytic			
2				Vegetation Present? Yes	s No		
Remarks: (Include photo numbers here or on a separate	=	: Total Co	over				
	,		04000				
Area dominated by shrubby sandb	ar Willov	v cov	erage.				

SOIL Sampling Point: WB-09-wet

Profile Description: (Describe to the de	oth needed to docu	ment the	indicator	or confirn	n the absence of inc	dicators.)			
Depth Matrix	Red	ox Feature	s						
(inches) Color (moist) %	Color (moist)	%	_Type ¹	_Loc ²	Texture	Remarks			
0 - 24 10YR 2/1 95	10YR 5/8	5	С	M	Sandy clay loam				
-									
-									
<u> </u>									
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, N	IS=Masked	d Sand Gr	ains.		Pore Lining, M=Matrix.			
Hydric Soil Indicators:						roblematic Hydric Soils ³ :			
Histosol (A1)		Gleyed Ma			_	e Redox (A16)			
Histic Epipedon (A2)		Redox (S5	•		Dark Surface	, ,			
Black Histic (A3)		ed Matrix (S	,			nese Masses (F12)			
Hydrogen Sulfide (A4)		Mucky Mi				v Dark Surface (TF12)			
Stratified Layers (A5) 2 cm Muck (A10)		Gleyed M ed Matrix (Other (Expla	nin in Remarks)			
Depleted Below Dark Surface (A11)		Dark Surfa	,						
Thick Dark Surface (A12)	_	ed Dark Su)	3Indicators of hy	drophytic vegetation and			
Sandy Mucky Mineral (S1)		Depressio		,		ology must be present,			
5 cm Mucky Peat or Peat (S3)	_				-	rbed or problematic.			
Restrictive Layer (if observed):						•			
Type:						,			
Depth (inches):					Hydric Soil Pres	ent? Yes No			
Remarks:									
Dark surface layer with re									
HYDROLOGY									
Wetland Hydrology Indicators:									
Primary Indicators (minimum of one is requ	ired; check all that a	pply)			Secondary Inc	dicators (minimum of two required)			
Surface Water (A1)	Water-Sta	ained Leav	es (B9)		Surface S	oil Cracks (B6)			
High Water Table (A2)	Aquatic F	auna (B13	6)		Drainage Patterns (B10)				
Saturation (A3)		atic Plants			Dry-Season Water Table (C2)				
Water Marks (B1)	Hydroger				Crayfish E	Burrows (C8)			
Sediment Deposits (B2)				ing Roots		No Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence					r Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent In	on Reducti	ion in Tille	d Soils (C6		hic Position (D2)			
Iron Deposits (B5)	Thin Muc				✓ FAC-Neur				
Inundation Visible on Aerial Imagery (E					_				
Sparsely Vegetated Concave Surface									
Field Observations:									
Surface Water Present? Yes	No Depth (in	nches):							
	No Depth (in								
Saturation Present? Yes		and Hydrology Pres	sent? Yes No						
(includes capillary fringe)	Tto Bepti (ii	icrics)		_ ""	and riyarology rite.	103 110			
Describe Recorded Data (stream gauge, m	onitoring well, aerial	photos, pr	evious ins	spections),	if available:				
Remarks:									
Wetland is adjacent to a s	tream.								

Project/Site: Louise Solar	(City/Coun	ty: Mower 0	County	Sampling Date: 2	2020-11-03
Applicant/Owner: EDF Renewables				State: Minnesota	Sampling Point: _	NB-11-up
Investigator(s): R. Cress	;	Section, T	Γownship, Rar	nge: S7, T101, R15		
				concave, convex, none):	Convex	
Slope (%): 3-7 Lat: 43.5617676	ו	_ong:9	2.6821426		Datum: WGS 84	4
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 pe	ercent slo	pes		NWI classific	ation: PFO1A	
Are climatic / hydrologic conditions on the site typical for this	time of yea	r? Yes_	No	✓ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology si	gnificantly of	disturbed'	? Are "I	Normal Circumstances" p	resent? Yes	No✓
Are Vegetation, Soil, or Hydrology na	aturally prol	olematic?	(If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	showing	sampli	ing point lo	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No			the Sampled		,	
Wetland Hydrology Present? Yes No		wi	thin a Wetlan	d? Yes	No	
Remarks:						
The sample point is located in a suspect area at					upland in the f	ield.
Antecedent precipitation is considered dry for t		ntns pri	or to the de	elineation.		
VEGETATION – Use scientific names of plants.						
Tree Stratum (Plot size:30 ft r)	Absolute % Cover		nt Indicator ? Status	Dominance Test work		
1. Acer negundo	20	✓	FAC	Number of Dominant Sp That Are OBL, FACW, of		(A)
2 Populus deltoides	20		FAC			(','
3. Prunus serotina	15		FACU	Total Number of Domina Species Across All Strat		(B)
4.				•		(-/
5				Percent of Dominant Sp That Are OBL, FACW, or		(A/B)
15 ft r	55%	= Total C	over			()
Sapling/Shrub Stratum (Plot size: 15 ft r) 1. Rhamnus cathartica	15	./	FAC	Prevalence Index work		
2. Prunus serotina	10	- ✓	FACU	Total % Cover of: OBL species 0	$x_1 = 0$	<u>/ by:</u>
	10		- 1700	FACW species 0	x 1 = 0	
3				FAC species 55	x 3 = 165	
5				FACU species 45	x 4 = 180	
·	25%	= Total C	over	UPL species 0	x 5 = 0	
Herb Stratum (Plot size: 5 ft r)				Column Totals: 100	(A) 345	
1. Geranium maculatum	20	√	_ FACU		2.5	
2				Prevalence Index		
3				Hydrophytic Vegetation 1 - Rapid Test for H		ation
4				2 - Dominance Tes		auon
5				3 - Prevalence Inde		
6				4 - Morphological A		de supporting
7. 8.				data in Remarks	or on a separate	sheet)
9.				Problematic Hydrop	ohytic Vegetation ¹	(Explain)
10						
		= Total C	over	¹ Indicators of hydric soil be present, unless distu		
Woody Vine Stratum (Plot size: 30 ft r)				be present, unless distu	Thed of problemat	ю.
1				Hydrophytic		
2				Vegetation Present? Yes	s No	/
Remarks: (Include photo numbers here or on a separate s		= Total C	over			
	,					
The canopy is dominated by easter	n cotto	nwoc	od, boxel	lder, and black	cherry.	

SOIL Sampling Point: WB-11-up

Profile Description: (Describe to the depth	needed to document the indicator or c	onfirm the absenc	e of indicators.)
Depth Matrix	Redox Features		
(inches) Color (moist) %		oc ² Texture	Remarks
0 - 26 10YR 2/1 100		Loam	
26 - 32 10YR 4/1 100 /		Clay loam	Gravel present
<u>20 32 101K4/1 100 /</u>		Clay loan	Oraverpresent
-			
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains	. ² Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicator	s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coas	t Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Dark	Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	Iron-l	Manganese Masses (F12)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)		Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Othe	r (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)		
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	3	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)		rs of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)		nd hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unies	s disturbed or problematic.
Restrictive Layer (if observed):			
Type:	_	Hydric So	il Present? Yes No✓
Depth (inches):	_	- Tryuno Go	103 NO
Remarks:			
No indicators of hydric soil	were observed.		
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required	d: check all that apply)	Second	dary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)		urface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)		ainage Patterns (B10)
Saturation (A3)	Aquatic Faulia (B13) True Aquatic Plants (B14)		γ-Season Water Table (C2)
		_	• • • • • • • • • • • • • • • • • • • •
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		ayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living		ituration Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		unted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Sc	· / —	eomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	FA	C-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)			
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)		
Field Observations:	/		
1	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
Saturation Present? Yes No	Depth (inches):	Wetland Hydrolo	gy Present? Yes No✓
(includes capillary fringe)			
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspec	tions), if available:	
Remarks:			
No indicators of wetland hyd	drology were observed		
Wetland Hyt	arology were observed.		

Project/Site: Louise Solar	C	ity/Cou	unty: _	Mower (County	Sampling Date:	2020-11-03
Applicant/Owner: EDF Renewables					State: Minnesota	Sampling Point:	WB-11-wet
Investigator(s): R. Cress	s	Section,	, Tow	nship, Rar	nge: S7, T101, R15		
					(concave, convex, none):	Concave	
Slope (%): 0-2% Lat: 43.5617371		.ong: _	92.6	816684		Datum: WGS	84
Soil Map Unit Name: Clyde silty clay loam, 0 to 3 pe	ercent slo	pes			NWI classific	ation: PEM1A	
Are climatic / hydrologic conditions on the site typical for this	time of yea	r? Yes	s	No	✓ (If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology si	gnificantly d	listurbe	d?	Are "	Normal Circumstances" p	resent? Yes	✓ No
Are Vegetation, Soil, or Hydrology na	aturally prob	lematic	c?	(If ne	eded, explain any answer	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	showing	samp	ling	point lo	ocations, transects	, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes ✓ No							
Hydric Soil Present? Yes No				Sampled	_		
Wetland Hydrology Present? Yes ✓ No		\ \	vithin	n a Wetlan	id? Yes <u>v</u>	No	
Remarks:	: .	. 41		la a la a			
Shrub-Carr located between two corn fields. The considered dry for the 3 months prior to the de		ı ıne a	area	nave be	een cut down. Antec	edent precipi	tation is
VEGETATION – Use scientific names of plants.							
	Absolute	Domin	ant I	ndicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:30 ft r) 1	% Cover	Specie	<u>es?</u> .	Status	Number of Dominant Sp That Are OBL, FACW, o		(A)
2.			_ :		Total Number of Domina		
3					Species Across All Stra	_	(B)
4					Percent of Dominant Sp	pecies	
5					That Are OBL, FACW, o		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r	=	= Total	Cove	er	Prevalence Index work	ksheet:	
1. Cornus alba	40	✓		FACW	Total % Cover of:	Multig	oly by:
2. Salix interior	10	✓		FACW	OBL species 10	x 1 = <u>10</u>	
3					FACW species 150	x 2 = <u>30</u>	
4					FAC species 0	x 3 = <u>0</u>	
5					FACU species 0	x 4 = 0	
Herb Stratum (Plot size: 5 ft r)	50%=	= Total	Cove	er	UPL species 0	x = 0	
1 Phalaris arundinacea	90	✓		FACW	Column Totals: 160	(A) <u>31</u>	<u>U</u> (B)
2. Urtica dioica	10		_ [FACW	Prevalence Index	= B/A = 1.9	
3					Hydrophytic Vegetatio	on Indicators:	
4.					✓ 1 - Rapid Test for H	łydrophytic Vege	etation
5					✓ 2 - Dominance Tes		
6					✓ 3 - Prevalence Inde		
7					4 - Morphological A	Adaptations¹ (Pro s or on a separat	
8					Problematic Hydrop		. '
9			— -			on togotation	(Explain)
10					¹ Indicators of hydric soil	l and wetland hyd	drology must
Woody Vine Stratum (Plot size: 30 ft r)	110%=				be present, unless distu	irbed or problem	atic.
1					Hydrophytic		
2					Vegetation Present? Yes	s No_	
Remarks: (Include photo numbers here or on a separate s		= Total	Cove	er			
			۔ اہ	l - · •	lan ala aurea a al		
Area dominated by shrubby sandba	ar Willo\	w an	a r	ea-osi	er aogwood co	verage.	

SOIL Sampling Point: WB-11-wet

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment the	indicator	or confirm	n the absence of i	ndicators.)
Depth	Matrix			x Feature				·
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹ _	Loc ²	Texture	Remarks
0-6	10YR 2/1	100_	1				Mucky Loam/Clay	
6-24	10YR 2/1	90	10YR 5/6	10	С	M	Loam	
<u> </u>								
<u> </u>								
		oletion, RM	=Reduced Matrix, M	S=Maske	d Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil								Problematic Hydric Soils ³ :
Histosol	. ,		Sandy Gleyed Matrix (S4) Sandy Redox (S5)				_	rie Redox (A16)
I —	oipedon (A2) stic (A3)			Redox (S: d Matrix (Dark Surfa	anese Masses (F12)
ı —	en Sulfide (A4)				neral (F1)			ow Dark Surface (TF12)
	d Layers (A5)			Gleyed M				plain in Remarks)
2 cm Mu	ıck (A10)		Deplete	ed Matrix ((F3)			
ı — ·	d Below Dark Surfac	e (A11)	✓ Redox		, ,		2	
_	ark Surface (A12)				urface (F7))		nydrophytic vegetation and
	lucky Mineral (S1) icky Peat or Peat (S	3)	Redox	Depression	ons (F8)		,	drology must be present, turbed or problematic.
	Layer (if observed)							ianbed of problematic.
Type:								
" —	ches):						Hydric Soil Pre	sent? Yes No
Remarks:	,							
A		:1	ا د د د د د د					
Amuck	y mineral so	ii was	observed.					
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of o	one is requ	ired; check all that a	pply)			Secondary I	ndicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Leav	/es (B9)		Surface	Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic F	auna (B13	3)		Drainag	e Patterns (B10)
Saturation	Saturation (A3) True Aquatic Plants (B14)			Dry-Sea	ison Water Table (C2)			
Water M	larks (B1)		Hydrogen					Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)								
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)			` '					
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)								
:	Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9)					eutrai Test (D5)		
ı —	Vegetated Concav							
Field Obser		e ourrace ((BO) Other (Ex	piaiiriiri	emarks)			
Surface Wat		'es	No ✓ Depth (in	iches):				
Water Table Present? Yes No ✓ Depth (inches): Wetland			land Hydrology Pr	esent? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Describe Re	corded Data (stream	gauge, m	onitoring well, aerial	photos, p	revious ins	pections),	if available:	
Remarks:								
Wetland	l is located i	n a de _l	oression					

US Army Corps of Engineers Midwest Region – Version 2.0

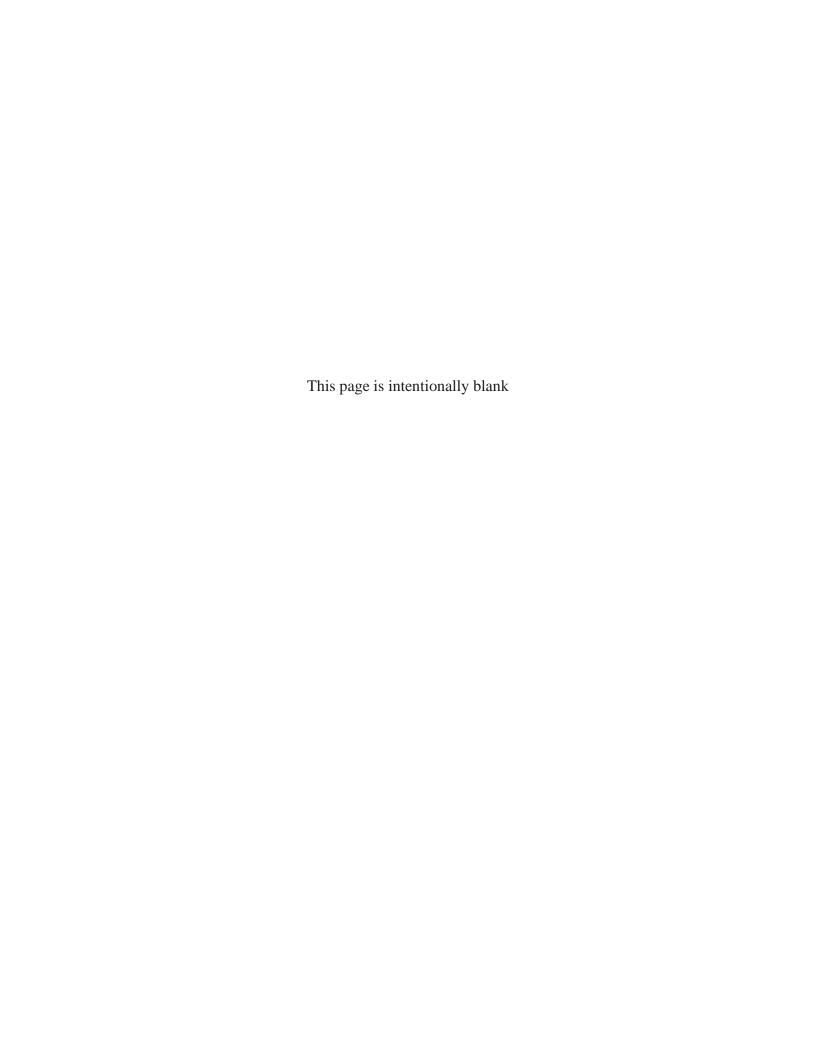


Appendix B

Wetland Delineation Photographs

Louise Solar Project

Mower County, Minnesota









Attributes		
Feature ID	WB-01	
Circular 39	Type 6	
Cowardin	PSS1B	



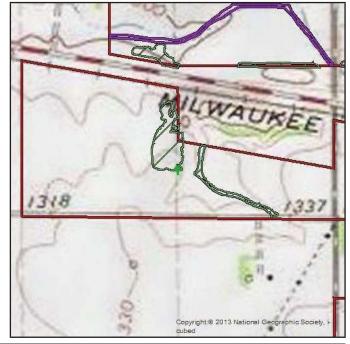




Attributes		
Feature ID	WB-01	
Circular 39	Type 6	
Cowardin	PSS1B	







Attributes		
Feature ID	WB-02	
Circular 39	Type 6	
Cowardin	PSS1B	







Attributes		
Feature ID	WB-02	
Circular 39	Type 6	
Cowardin	PSS1B	



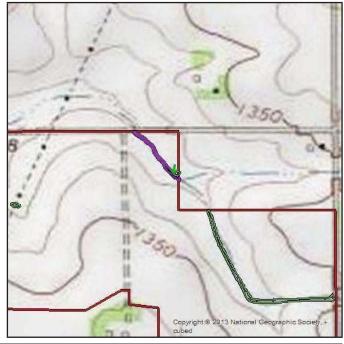




Attributes		
Feature ID	WB-03	
Circular 39	Type 2	
Cowardin	PEM1A	



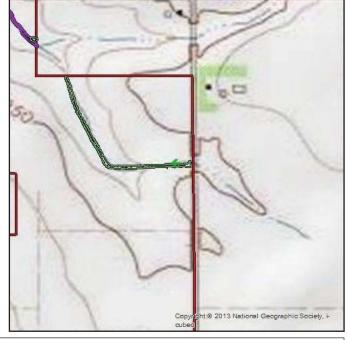




Attributes		
Feature ID	WB-04	
Circular 39	Type 2	
Cowardin	PEM1B	







Attributes		
Feature ID WB-05		
Circular 39	Type 1	
Cowardin PEM1A		



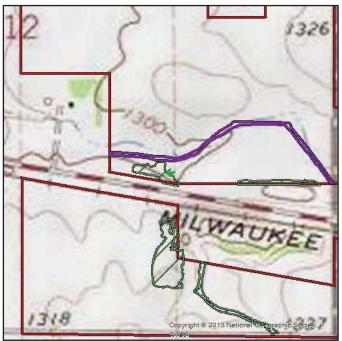




Attributes		
Feature ID WB-06		
Circular 39	Type 1	
Cowardin	PEM1Ax	







Attributes		
Feature ID	WB-07	
Circular 39	Type 6	
Cowardin	PSS1B	

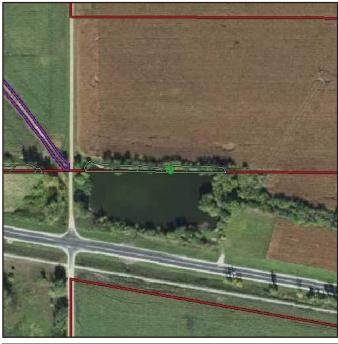






Attributes		
Feature ID	WB-08	
Circular 39	Type 1	
Cowardin	PFO1A	

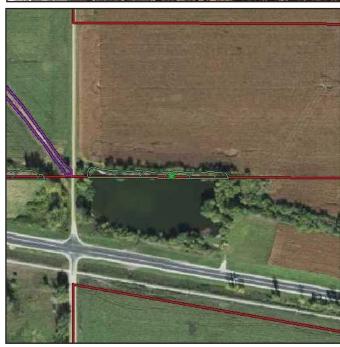






Attributes		
Feature ID	WB-10	
Circular 39	Type 5	
Cowardin	PUBGx	







Attributes	
Feature ID	WB-10
Circular 39	Type 5
Cowardin	PUBGx