## GREAT RIVER ENERGY

APPLICATION TO THE
MINNESOTA PUBLIC UTILITIES COMMISSION
FOR A ROUTE PERMIT TO

# REROUTE EXISTING 115-kV CEDAR LAKE TRANSMISSION LINE IN SCOTT AND RICE COUNTIES, MN

DOCKET NO. ET2/TL-23-170



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Appendix G	Greenhouse Gas Emission Calculations
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## LIST OF ACRONYMS

AIMD	Active Implantable Medical Devices
ALJ	administrative law judge
APLIC	Avian Power Line Interaction Committee
Applicant	Great River Energy
Application	Route Permit Application
BMPs	best management practices
Brookings Project	Brookings County – Hampton 345 kV Project
BWSR	Board of Water and Soil Resources
CapX2020	Existing 345-kV transmission line/structures associated with the Brookings
1	Project
CFR	Code of Federal Regulations
CH <sub>4</sub>	methane
СО	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
Commission	Minnesota Public Utilities Commission
dBA	Decibel – A weighted
DKey	Determination Key
DOC	Department of Commerce
EA	Environmental Assessment
EERA	Energy Environmental Review and Analysis
EF	electric fields
EJ	Environmental Justice
EJScreen	Environmental Justice Screening Tool
ELF	Extremely Low Frequency
EMF	electromagnetic fields
EQB	Minnesota Environmental Quality Board
ESA	Endangered Species Act
°F	degrees Fahrenheit
FAA	Federal Aviation Administration
FHWA	Federal Highway Administration
G	gauss
GLO	General Land Office
HVTL	High Voltage Transmission Line
IPaC	Information for Planning and Consultation
IMDs	implantable medical devices
kV	kilovolt
kV/m	kilovolts per meter
kW	kilowatt
LGU	Local Government Unit

mA rms	milliAmperes root mean square
MCE	Minnesota Conservation Explorer
MDA	Minnesota Department of Agriculture
MDNR	Minnesota Department of Natural Resources
Merjent	Merjent, Inc.
MF	magnetic fields
mG	milligauss
MIAC	Minnesota Indian Affairs Council
Minn. Stat. §	Minnesota fidiali Affairs Council  Minnesota Statutes Section
MISO	Midcontinent Independent System Operator
MnDOT	Minnesota Department of Transportation
Minnesota Valley	Minnesota Valley Electric Cooperative
mph	miles per hour
MPCA	Minnesota Pollution Control Agency
MRO	Midwest Reliability Organization
MW	megawatt
N2O	nitrous oxide
NAC	Noise Area Classifications
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NESC	National Electrical Safety Code
NIEHS	National Institute of Environmental Health Sciences
NLEB	northern long-eared bat
NO	nitrogen oxide
NO2	nitrogen dioxide
NOx	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Services
NSPM	Northern States Power
NWI	National Wetlands Inventory
OSA	Office of the State Archaeologist
Owners	Great River Energy, Central Minnesota Municipal Power Agency, Western
	Minnesota Municipal Power Agency, Northern States Power, and Otter
	Tail Power Company
ppb	Parts per billion
PEM	Palustrine Emergent
PFO	Palustrine Forested
PM2.5	fine particulate matter equal to or less than 2.5 microns in diameter
PM10	particulate matter equal to or less than 10 microns in diameter
Project	Rebuild the existing 69-kV ST-WW transmission line to a new 115-kV
	transmission line to be named the ST-WS line
Promising Practices	Promising Practices for EJ Methodologies in NEPA Reviews

Proposed Alignment	the general path that a transmission line will follow
Proposed Route	The corridor in which Great River Energy proposes to build the approximately 6.3-mile transmission line presented in this Route Permit
	Application.
PSS	Palustrine Scrub-Shrub
RIM	Reinvest in Minnesota
ROW	right-of-way
SHPO	State Historic Preservation Office
SO2	sulfur dioxide
STATSGO2	Digital General Soil Map of the United States
SWPPP	Stormwater Pollution Prevention Plan
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
WMA	Wildlife Management Area
WPA	Waterfowl Production Area

## ${\bf Route\ Permit\ Application-Alternative\ Process\ Completeness\ Checklist}$

Authority	Required Information	Location in Application
Minn. Stat. § 216E.04, subd. 2(3)	Alternative Review of Applications. Alternative review is available for high voltage transmission lines (HVTL) of between 100 and 200 kV	2.2
Minn. Stat. § 216E.04, subd. 4; Minn. R. 7850.2800, Subp. 1(C)	Subpart 1. Eligible Projects. An applicant for a site permit or a route permit for one of the following projects may elect to follow the procedures of parts 7850.2800 to 7850.3900 instead of the full permitting procedures in parts 7850.1700 to 7850.2700: high voltage transmission lines of between 100 and 200 kilovolt (kV)	Appendix C
Minn. R. 7850.2800, Subp. 2.	Subpart 2. <b>Notice to Minnesota Public Utilities Commission</b> ( <b>Commission</b> ). An applicant for a permit for one of the qualifying projects in subpart 1, who intends to follow the procedures of parts 7850.2800 to 7850.3700, shall notify the Commission of such intent, in writing, at least ten days before submitting an application for the project	Appendix C
Minn. R. 7850.3100	Contents of Application (alternative permitting process) The applicant shall include in the application the same information required in part 7850.1900, except the applicant need not propose any alternative sites or routes to the preferred site or route. If the applicant has rejected alternative sites or routes, the applicant shall include in the application the identity of the rejected sites or routes and an explanation of the reasons for rejecting them	This document.
Minn. R. 7850.1900, Subp. 2 (as applicable per Minn. R. 7850.3100)	Route Permit for HVTL  A. a statement of proposed ownership of the facility at the time of filing the application and after commercial operation	3.3
,	B. the precise name of any person or organization to be initially named as permittee or permittees and the name of any other person to whom the permit may be transferred if transfer of the permit is contemplated	3.3
	C. rejected alternative routes and the reasons for rejecting	Chapter 4
	D. a description of the proposed high voltage transmission line and all associated facilities including the size and type of the high voltage transmission line	3.1; 3.2
	E. the environmental information required under 7850.1900, Subp. 3	Chapter 6
	F. identification of land uses and environmental conditions along the proposed routes	Chapter 6
	G. the names of each owner whose property is within any of the proposed routes for the high voltage transmission line	Appendix E
	H. United States Geological Survey topographical maps or other maps acceptable to the chair showing the entire length of the high voltage transmission line on all proposed routes	Figure 1-2; Figure 3-1; Appendix A

Authority	Required Information	Location in Application
	I. identification of existing utility and public rights-of-way along or parallel to the proposed routes that have the potential to share right-of-way (ROW) with the proposed line	5.3
	J. the engineering and operational design concepts for the proposed high voltage transmission line, including information on the electric and magnetic fields of the transmission line	3.2; 6.3.1
	K. cost analysis of each route, including the costs of constructing, operating, and maintaining the high voltage transmission line that are dependent on design and route	3.5; 5.7
	L. a description of possible design options to accommodate expansion of the high voltage transmission line in the future	5.2
	M. the procedures and practices proposed for the acquisition and restoration of the ROW, construction, and maintenance of the high voltage transmission line	5.4; 5.5; 5.6; 5.7
	N. a listing and brief description of federal, state, and local permits that may be required for the proposed high voltage transmission line	2.3; Table 2-1
	O. a copy of the Certificate of Need or the certified HVTL list containing the proposed high voltage transmission line or documentation that an application for a Certificate of Need has been submitted or is not required	2.1
Minn. R. 7850.1900, Subp. 3	Environmental Information A. a description of the environmental setting for each site or route	6.1
	B. a description of the effects of construction and operation of the facility on human settlement, including, but not limited to, public health and safety, displacement, noise, aesthetics, socioeconomic impacts, cultural values, recreation, and public services	6.2; 6.3
	C. a description of the effects of the facility on land-based economies, including, but not limited to, agriculture, forestry, tourism, and mining	6.5
	D. a description of the effects of the facility on archaeological and historic resources	6.6
	E. a description of the effects of the facility on the natural environment, including effects on air and water quality resources and flora and fauna	6.7
	F. a description of the effects of the facility on rare and unique natural resources	6.7.5
	G. identification of human and natural environmental effects that cannot be avoided if the facility is approved at a specific site or route	6.10
	H. a description of measures that might be implemented to mitigate the potential human and environmental impacts identified in items A to G and the estimated costs of such mitigative measures	3.5; Chapter 6
Minn. R. 7850.2100, Subp. 2 (applicable per Minn. R. 7850.3300)	Notice of Project Notification to persons on the Commission's general list, to local officials, and to property owners	To be provided

Authority	Required Information	Location in Application
Minn. R. 7850.2100, Subp 4	Publication of notice in a legal newspaper of general circulation in each county in which the route is proposed to be located.	To be published
Minn. R. 7850.2100. Subp. 5	Confirmation of notice by affidavits of mailing and publication with copies of the notices	Submit when available
Minn. R. 7850.4100	Factors to be Considered in Permitting a HVTL  A. effects on human settlement, including, but not limited to, displacement, noise, aesthetics, cultural values, recreation, and public services	6.2
	B. effects on public health and safety	6.3
	C. effects on land-based economies, including, but not limited to, agriculture, forestry, tourism, and mining	6.5
	D. effects on archaeological and historic resources	6.6
	E. effects on the natural environment, including effects on air and water quality resources and flora and fauna	6.7
	F. effects on rare and unique natural resources	6.7.5
	G. application of design options that maximize energy efficiencies, mitigate adverse environmental effects, and could accommodate expansion of transmission or generating capacity	3.2; 5.2
	H. use or paralleling of existing rights-of-way, survey lines, natural division lines, and agricultural field boundaries	3.2; 5.3
	I. use of existing large electric power generating plant sites	Not applicable
	J. use of existing transportation, pipeline, and electrical transmission systems or rights-of-way	5.3
	K. electrical system reliability	1.5; 7.1
	L. costs of constructing, operating, and maintaining the facility which are dependent on design and route	3.5
	M. adverse human and natural environmental effects which cannot be avoided	6.10
	N. irreversible and irretrievable commitments of resources	6.10
Minn. R. 7850.4300, Subps. 1 and 2	Prohibited Routes Wilderness areas. No high voltage transmission line may be routed through state or national wilderness areas Parks and natural areas. No high voltage transmission line may be routed through state or national parks or state scientific and natural areas unless the transmission line would not materially damage or impair the purpose for which the area was designated, and no feasible and prudent alternative exists. Economic considerations alone do not justify use of these areas for a high voltage transmission line	No wilderness areas or parks are crossed

Authority	Required Information	Location in Application
Minn. Stat. §216E.03,	Considerations in designating sites and routes	пррисации
Subd.7 (applicable per Minn. Stat. §216E.04, Subd. 8), House File 7 amendments (2023)	(1) Evaluation of research and investigations relating to the effects on land, water and air resources of large electric power generating plants and high voltage transmission lines and the effects of water and air discharges and electric and magnetic fields resulting from such facilities on public health and welfare, vegetation, animals, materials and aesthetic values, including base line studies, predictive modeling, and evaluation of new or improved methods for minimizing adverse impacts of water and air discharges and other matters pertaining to the effects of power plants on the water and air environment	Chapter 6
	(2) Environmental evaluation of sites and routes proposed for future development and expansion and their relationship to the land, water, air, and human resources of the state	5.2
	(3) Evaluation of the effects of new electric power generation and transmission technologies and systems related to power plants designed to minimize adverse environmental effects	Not applicable
	(4) Evaluation of the potential for beneficial uses of waste energy from proposed large electric power generating plants	Not Applicable
	(5) Analysis of the direct and indirect economic impact of proposed sites and routes including, but not limited to, productive agricultural land lost or impaired	6.4; 6.5
	(6) Evaluation of adverse direct and indirect environmental effects that cannot be avoided should the proposed site and route be accepted	Chapter 6
	(7) Evaluation of alternatives to the applicant's proposed site or route proposed pursuant to subdivisions 1 and 2	Chapter 4
	(8) Evaluation of potential routes that would use or parallel existing railroad and highway rights-of way	5.3; Chapter 6
	(9) Evaluation of governmental survey lines and other natural division lines of agricultural land to minimize interference with agricultural operations	5.3; 6.5.1
	(10) Evaluation of the future needs for additional high voltage transmission lines in the same general area as any proposed route, and the advisability of ordering the construction of structures capable of expansion in transmission capacity through multiple circuiting or design modifications	5.2
	(11) Evaluation of irreversible and irretrievable commitments of resources should the proposed site or route be approved	6.10
	(12) When appropriate, consideration of problems raised by other state and federal agencies and local entities	Not applicable
	(13) Evaluation of the benefits of the proposed facility with respect to (i) the protection and enhancement of environmental quality, and (ii) the reliability of state and regional energy supplies	Chapter 7; 1.5
	(14) evaluation of the proposed facility's impact on socioeconomic factors	6.2.4

Authority	Required Information	Location in Application
	(15) evaluation of the proposed facility's employment and economic impacts in the vicinity of the facility site and throughout Minnesota, including the quantity and quality of construction and permanent jobs and their compensation levels. The commission must consider a facility's local employment and economic impacts and may reject or place conditions on a site or route permit based on the local employment and economic impacts.	3.7

#### 1 INTRODUCTION

Great River Energy submits this Route Permit Application (Application) to the Minnesota Public Utilities Commission (Commission) for a Route Permit to construct approximately 6.3 miles of 115-kilovolt (kV) high voltage transmission line (HVTL), referred to as the Cedar Lake Reroute Project (Project). The Project will begin at the existing Cedar Lake Substation and connect to Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of 280<sup>th</sup> St E / State Highway 19 and Panama Avenue / County Highway 23. The Project is a reroute of approximately 4.5 miles of the existing MV-CDT 115-kV transmission line, which presently connects the Cedar Lake Substation to the MV-EVX 115-kV near the intersection of 260<sup>th</sup> Street / County Road 2 and Panama Avenue / County Highway 23. The Project occurs in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, Minnesota.

Great River Energy's existing MV-CDT 115-kV circuit supplying power to the Cedar Lake Substation is currently located on the structures that were built for the CapX2020 Brookings County – Hampton 345 kV Project (Brookings Project) along County Road 2, which is north of the Cedar Lake Substation. This 115-kV circuit must be decommissioned and removed in accordance with the contractual conditions that Great River Energy has with the CapX2020 owners to make room for a new, second 345-kV circuit on the existing CapX2020 structures <sup>1</sup>. Great River Energy must build a new transmission line to supply power to the Cedar Lake Substation before the existing line can be decommissioned. The Project will be built to provide 115-kV service to the Cedar Lake Substation to meet long-term planning needs in the Project area but will initially operate at 69-kV. Designing to 115-kV standards will simplify operation of the regional transmission system at 115-kV as electrification and load development increase in the area.

Great River Energy anticipates starting construction in fall of 2024 and energizing the transmission line in the summer of 2025. This timeline is consistent with Great River Energy's contractual obligation to vacate the CapX2020 structures so that the owners may install a second 345-kV circuit. Great River Energy's contractual obligations require that the existing 115-kV line be removed from the CapX2020 structures by September 2025.

#### 1.1 Great River Energy Organization and System Background

Great River Energy is a not-for-profit wholesale electric power cooperative based in Maple Grove, Minnesota. Great River Energy provides electricity and related services to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through its member-owners, Great River Energy serves two-thirds of Minnesota geographically and parts of Wisconsin. This includes Minnesota Valley Electric Cooperative (Minnesota Valley), the distribution cooperative serving the area in which the Project will be located (**Figure 1-1**), and transmission customers. Great River Energy's electric system is interconnected directly with

<sup>&</sup>lt;sup>1</sup> The existing 345-kV transmission line and structures associated with the Brookings Project are referred to as "CapX2020" in this Application.

neighboring suppliers and is a member of the Midwest Reliability Organization (MRO) and Midcontinent Independent System Operator (MISO).

Great River Energy and its cooperatives' mission is to provide safe, reliable, competitively priced energy to those served. Great River Energy's power plants have the capability to generate more than 1,800 megawatts (MWs), including over 480 kilowatts (kWs) from solar arrays. In addition, Great River Energy has power purchase agreements for 960 MWs of wind, 200 MWs of hydroelectric energy diversity exchange, and 550 MWs currently from Coal Creek Station that it formerly owned. Great River Energy owns over 4,300 miles of transmission line (69-kV or higher) in Minnesota, North Dakota, South Dakota, and Wisconsin. Great River Energy carefully designs and maintains a portfolio of power generation facilities and transmission resources to deliver reliable and affordable wholesale electricity to the regional electricity market and member-owner cooperatives.

#### 1.2 Project Contact

The contact for the Project and this Application is:

Mark Strohfus
Great River Energy
Project Manager, Transmission Permitting
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Maple Grove, MN 55369
763-445-5210
MStrohfus@GREnergy.com

#### 1.3 Project Location

The Project is located in Helena<sup>2</sup> and Cedar Lake Townships, east of the City of New Prague, in Scott County, and Wheatland Township in Rice County<sup>3</sup>, Minnesota. The Project Route is located in the following Township, Ranges, and Sections shown in **Table 1.3-1**.

<b>Township Name</b>	Township	Range	Sections
Helena	T113N	R23W	25, 36
Cedar Lake	T113N	R22W	30, 31, 32, 33, 34, 35
Wheatland	T112N	R22W	2, 3, 4, 5, 6

Table 1.3-1. Townships, Ranges, and Sections Crossed by the Project Route

#### 1.4 Proposed Project

Great River Energy proposes to relocate the existing MV-CDT 115-kV transmission line system

<sup>&</sup>lt;sup>2</sup> The Cedar Lake Substation and approximately 0.4 mile of the proposed transmission line are located in Helena Township.

<sup>&</sup>lt;sup>3</sup> For approximately 4 miles, the Proposed Route would be parallel to 280<sup>th</sup> St E/State Highway 19, which occurs on the border between Scott and Rice Counties. The Proposed Alignment may be located on the north (Scott County) or south (Rice County) of 280<sup>th</sup> St E/State Highway 19 along this segment of the Proposed Route.

that is currently located on the CapX2020 structures along County Road 2. The Project includes the installation of a new 6.3-mile 115-kV transmission line in Scott and Rice Counties.

Great River Energy proposes that the Project follow an approximately 6.3-mile route starting from the Cedar Lake Substation to the connection point with Great River Energy's existing MV-EVX 115-kV line. The Proposed Route is shown in **Figure 1-2**. **Appendix A** contains a series of larger scale aerial photo maps depicting the Proposed Alignment, right-of-way (ROW), and requested route width (Proposed Route) for the Project.

Great River Energy will use single-pole wood structures with horizontal post insulators for most of the transmission line. H-frame, 3-pole structures, laminated wood poles, or steel poles may be required in some locations (e.g., to cross under an existing line, for angle poles, or in areas where soil conditions are poor, and guying is not practical). A switch pole will be needed where the Project will connect to the MV-EVX line. Typical pole heights will range from 60 to 90 feet above ground and spans between poles will range from 300 to 400 feet.

At this time, Great River Energy anticipates that the Project will require easements which allow for a ROW width of 100 feet (typically 50 feet of each side of the transmission centerline).

Minnesota Valley has existing overhead distribution lines in the Project Route. Where the Project overtakes distribution lines, it is

### What is a route, alignment, and ROW?

A "route" is a wide corridor that is defined by the Public Utilities Commission in a route permit. It establishes the area in which Great River Energy will generally be authorized to construct its transmission line. As discussed later in this application, the route width varies along the length of the transmission line.

An "alignment" is the general path that a transmission line will follow. This application includes a proposed alignment, which is Great River Energy's initial thoughts on where the line will be built and where it turns or crosses from one side of a road to the other. The final alignment will likely be somewhat different due to input from landowners, agencies, and owners of other utilities in the area.

A "ROW" or "right-of-way" is a space around high voltage transmission lines that Great River Energy maintains and protects from encroachments to ensure the safe and reliable operation of the transmission line. Great River Energy anticipates seeking a 100-foot ROW, 50 feet perpendicular from both sides of the transmission centerline, for the Project. Where the transmission line parallels roads, Great River Energy will seek approximately 55 feet of ROW from landowners. The landowner will be compensated for the ROW as part of the easement acquisition process.

Great River Energy's understanding that Minnesota Valley would likely decommission those lines and bury new lines rather than attaching the distribution lines as under-build to the Project's new structures. This would include locations along Baseline Avenue, and 280<sup>th</sup> St E/State Highway 19. Because the distribution lines are owned and maintained by Minnesota Valley, rather than Great River Energy, Great River Energy will not conduct or direct any activities related to the distribution lines. For reference, the location of existing distribution lines along the Proposed Alignment, 100-foot-wide ROW, and Proposed Route is depicted in **Appendix A**.

Separately, Great River Energy will also remove approximately 4.5 miles of its existing MV-CDT 115-kV transmission line from the CapX2020 structures. The existing structures will not be modified as part of the transmission line removal, and there will be no surficial impacts. Consistent with Great River Energy's contractual obligations, this removal is planned to occur by September 2025, and the Project will be required to be operational prior to such removal to ensure continued service to the Cedar Lake Substation.

Great River Energy estimates the Project will cost approximately \$10.4 million dollars.

#### 1.5 Project Need and Purpose

The Project is needed so the CapX2020 owners can install a second 345-kV circuit on the existing CapX2020 structures and to maintain a reliable transmission system in the vicinity of the Project. Over the last decade, Great River Energy has completed upgrades in the larger Cedar Lake area to a 115-kV transmission system to improve reliability and resiliency. The electric transmission system in the area is shown on **Figure 1-3**.

The Project, along with the CapX2020 second 345-kV circuit, will ensure that Great River Energy maintains reliable and resilient service to electric customers. The Project will address reliability concerns and, because it facilitates the CapX2020 second circuit, the Project will facilitate increased deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. More details regarding the Project purpose and need are provided in the subsections below.

#### 1.5.1 Need to Remove Existing Line from CapX2020 Structures

The Project will replace approximately 4.5 miles of existing 115-kV line connected to the Cedar Lake Substation. The existing 115-kV line is currently installed in the second circuit position on the CapX2020 structures 044 through 068 in the Helena to Chub Lake segment of the Brookings Project. On May 26, 2015, the Commission approved Great River Energy's request for a minor alteration to allow the temporary installation of the existing line.<sup>4</sup> As explained by Minnesota Department of Commerce (DOC) - Energy Environmental Review and Analysis (EERA) in its comments and recommendations regarding that request:

Great River Energy indicates that use of the existing double circuit structures to carry the 115-kV line is a temporary use and would continue until such time as the structures are needed to carry a new permanent transmission line. At that time, Great River Energy would be required to remove the 115-kV line and develop other means to serve the Cedar Lake substation.<sup>5</sup>

After the Commission approved Great River Energy's minor alteration request, the existing 115-kV line was installed pursuant to a Temporary Structure Sharing Agreement among Great River

<sup>&</sup>lt;sup>4</sup> See Order, In the Matter of the Great River Energy Application for a Minor Alteration to the Helena – Chub Lake Substation Segment of the Brookings County – Hampton 345 kV Transmission Line Project in Scott County, Minnesota, Docket No. ET-2/TL-08/1474 (May 26, 2015).

<sup>&</sup>lt;sup>5</sup> Comments and Recommendations of DOC-EERA Staff, *In the Matter of the Great River Energy Application for a Minor Alteration to the Helena – Chub Lake Substation Segment of the Brookings County – Hampton 345 kV Transmission Line Project in Scott County, Minnesota*, Docket No. ET-2/TL-08/1474 (Mar. 16, 2015).

Energy, Central Minnesota Municipal Power Agency, Western Minnesota Municipal Power Agency, Northern States Power (NSPM), and Otter Tail Power Company (together, the Owners), dated October 1, 2016. The Temporary Structure Sharing Agreement provides that Great River Energy must remove the existing 115-kV line when, in relevant part, the Owners provide written notice specifying the need for the Brookings Project Second Circuit Lines and a termination date no less than 30 months from the written notice.

On March 29, 2023, the Owners provided Great River Energy with notice of termination of the Temporary Structure Sharing Agreement, effective 30 months from the date of the notice. The notice of termination explained that it was being provided because:

...the finding from transmission planning studies and real-time operating conditions that a contingency of a portion of the existing Brookings Project Facilities (as defined by the Structure Sharing Agreement) is causing thermal loading above emergency ratings on a number of the existing lower voltage facilities during high wind conditions leading to considerable congestion occurring within the energy market. These thermal loading and congestion concerns will be remediated through the addition of two (2) separate second 345-kV circuits on the existing Brookings Project Facilities from (i) the NSPM Brookings County substation to the NSPM Lyon County substation, and (ii) from the NSPM Helena substation to the NSPM Hampton substation...This Brookings Second Circuit Line and the Cedar Lake Line Facilities cannot cohabitate. Consequently, the Cedar Lake Line must be removed and rerouted to continue serving load to accommodate the Brookings Second Circuit Lines. The eventual need for the Brookings Second Circuit Lines was anticipated under Section 11.3 of the Structure Sharing Agreement. Representatives of NSPM and Great River Energy (the Cedar Lake Line Owner) have begun working cooperatively and collaboratively to plan Brookings Second Circuit Lines construction and Cedar Lake Line demolition matters so that Great River Energy will meet the removal requirements of the thirty (30) month deadline, thereby allowing NSPM to timely construct the remaining Brookings Second Circuit Lines.

Accordingly, and as contemplated by the original minor alteration request, Great River Energy is now required to relocate the existing 115-kV line to allow the Owners to construct the remaining Brookings Project Second Circuit Lines.

#### 1.5.2 Need for Project to Connect Cedar Lake Substation and Existing MV-EVX 115-kV

The existing 115-kV line serving the Cedar Lake Substation is a radial feed. In order to remove the circuit from the CapX2020 structures, a new 115-kV transmission line circuit must be built and connected to the Cedar Lake Substation.

#### 1.6 Public Involvement

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota, on March 29, 2023. Great River Energy staff were available to provide information to members of the public and answer questions concerning the Project. Large posters showing the existing/proposed transmission line alignment and pictures of what the pole structures would look like were also available for review.

Invitations to the meeting, including a Project fact sheet with maps, were mailed to all documented landowners along and adjacent to the Proposed Route as well as to representatives from regulatory agencies. Advertisements were also placed in three regional newspapers. Copies of these communications are provided in **Appendix B**. Great River Energy also maintains a web site that contains Project information at: https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/.

Twenty-eight people signed in at the Open House. Twenty of the attendees who signed in were landowners along the Proposed Route. The remainder of the attendees who signed in consisted of one local government representative and landowners in immediate vicinity of the Proposed Route.

Great River Energy technical representatives provided information about the Project and answered questions and/or responded to comments concerning:

- the reason for the Project;
- the process for permitting;
- tree/vegetation cutting or removal;
- what would be needed for easements;
- how easements are acquired; and
- when the permitting and construction process would occur.

Several landowners asked if Great River Energy could string the new proposed 115-kV line on existing distribution structures on their property. Some landowners had questions regarding electric magnetic fields (EMF) and transmission line safety. Some landowners expressed concern regarding the Project's impact on their property, including their property value, and/or impacts to operations on their property (e.g., access, equipment clearance, agricultural operations).

As a result of the comments received from landowners during the Open House, Great River Energy moved approximately 0.5 mile of the Proposed Alignment 500 feet east to parallel a property boundary in an effort to avoid bisecting the landowner's property, reduce potential equipment clearance issues for the landowner, and also reduce wetland and tree clearing impacts. This change will also reduce the number of poles on an adjacent parcel to the south. This change in the Proposed Alignment is reflected in this Application.

The public will be afforded additional opportunities to participate and comment on the Project in accordance with Minnesota laws and regulations. This process is described in **Section 2.2**. The first opportunity for public involvement in the regulatory process is a public information and scoping meeting conducted by Commission staff and the DOC-EERA staff after the Commission's acceptance of this Application as complete.

There are two options for citizens/landowners/interested persons to receive Project information:

**1. Subscribe to the docket** (self-service, must subscribe for each docket of interest), receive email notifications when new documents are filed. Note - subscribing may result in a large number of emails.

a). mn.gov/puc

- b). Select green box Subscribe to a Docket
- c). Type your e-mail address
- d). For Type of Subscription, select Docket Number
- e). For *Docket Number*, select 23 in the first box, type 170 in the second box
- f). Select Add to List
- g). Select Save
- **2. Sign up for the Project mailing list** sign up to receive notices about Project milestones and opportunities to participate (e.g., meetings, comment periods); may request email or U.S. Mail (not self-service, must contact Commission staff to sign up). Contact docketing.puc@state.mn.us or 651-201-2234 with the docket number (23-170), your name, mailing address, and email address.

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#### 2 REGULATORY PROCESS

#### 2.1 Certificate of Need Not Required

Minnesota Statutes Section (Minn. Stat. §) 216B.243, subdivision 2, states that "[n]o large energy facility shall be sited or constructed in Minnesota without the issuance of a Certificate of Need by the Public Utilities Commission..." A large energy facility is defined as "any high-voltage transmission line with a capacity of 100 kVs or more with more than ten miles of its length in Minnesota or that crosses a state line." The proposed Project is less than ten miles in length and does not cross a state line; therefore, a Certificate of Need is not required.

#### 2.2 Route Permit

Minn. Stat. § 216E.03, subdivision 2, provides that "[n]o person may construct a high voltage transmission line without a route permit from the commission." An HVTL is defined by Minn. Stat. § 216E.01, subd. 4, as "a conductor of electric energy and associated facilities designed for and capable of operation at a nominal voltage of 100 kVs or more and is greater than 1,500 feet in length." Because the Project consists of a 115-kV transmission line that is greater than 1,500 feet in length, a Route Permit from the Commission is required.

Minn. Stat. § 216E.04 provides for an Alternative Review Process for transmission lines between 100- and 200-kV; the Project is proposed as 115-kV and thus qualifies for alternative review. The permitting timeline for the Alternative Review Process is shorter than the timeline required for transmission lines over 200-kV. Great River Energy notified the Commission on May 3, 2023, pursuant to Minn. R. 7850.2800, Subp. 2 of its intent to utilize the Alternative Review Process and file its Application under Minn. R. 7850.2800 to 7850.3900. A copy of the notification letter is provided in **Appendix C**.

The rules that apply to the review of Route Permit Applications are found in Minn. R. Ch. 7850. Minnesota Rule 7850.1900, subparts 2 and 3, set forth the information that must be included in a Route Permit Application.

Under the Alternative Review Process, an Applicant is not required to propose any alternative routes but must disclose any other routes that were considered but rejected by the Applicant (Minn. Stat. § 216E.04, subd. 3). Further, an Environmental Impact Statement is not required under the Alternative Review Process. Instead, EERA is required to prepare an environmental assessment (EA) (Minn. Stat. § 216E.04, subd. 5). Unlike the full Route Permit process for higher voltage lines, a formal contested case hearing is not required (Minn. Stat. § 216E.04, subd. 6). The Alternative Review Process procedures are discussed below in **Section 2.2.1**.

<sup>&</sup>lt;sup>6</sup> Minn. Stat. § 216B.2421, subd. 2(3) (2006).

The regulatory process described in this section is the process that is followed to satisfy all the requirements under the Alternative Review Process Route Permit rules. *See* Minn. R. Ch. 7850.

#### 2.2.1 Notice of Application

In accordance with Minn. Stat. § 216E.04, subd. 4, and Minn. Stat. § 216E.03, subd. 4 within 15 days of filing this Application, Great River Energy will mail a notice of the filing to each owner whose property is along the Project's proposed route, to those persons who have registered their names with the Commission and expressed an interest in large energy projects, and to the tribal government and local government units (LGUs) whose jurisdictions are reasonably likely to be affected by the proposed Project. In addition, Great River Energy will publish notice in a local newspaper in each county where the Project is proposed that announces the filing of this Application. *See* Minn. Stat. § 216E.04, subd. 4; Minn. R. 7850.2100.

An electronic version of the Application will be available on eDockets in docket number 23-170 and on the EERA webpage. The Application will also be available on Great River Energy's transmission projects webpage at: https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/.

#### 2.2.2 Environmental Review Process

Upon acceptance of an Application for a Route Permit as complete, EERA will conduct an environmental review of the Project, which requires preparation of an EA. *See* Minn. R. 7850.3700. The EA will contain information on the human and environmental impacts of the Project and addresses mitigation measures for all routes considered.

The process EERA must follow in preparing the EA is set forth in Minn. R. 7850.3700. This process requires EERA to schedule at least one scoping meeting and associated public comment period. The purpose of the meeting is to provide information about the Project and permitting process, answer questions, and gather input regarding potential impacts and mitigative measures that should be studied in the EA. The meeting also provides an opportunity to solicit potential route or route segment alternatives that mitigate impacts. Great River Energy, EERA, and the Commission will have representatives available during the public meeting to answer questions and provide information for the public. The public meeting will be held within 60 days after the Application is accepted and deemed complete.

Once the scoping meeting has been held and after the public comment period closes, the Commissioner of the DOC will issue a scoping decision describing the issues and alternatives that will be evaluated in the EA. EERA will prepare the EA based on the scoping decision. Upon completion of the EA, EERA will publish notice of its availability in the *EQB Monitor*, a weekly publication of the Minnesota Environmental Quality Board (EQB) that can be accessed on the EQB webpage, www.eqb.state.mn.us/monitor.html. DOC-EERA will also send notice to persons who have placed their names on the Project mailing list (**Section 1.6**). A copy of the EA will be available electronically through eDockets and the EERA webpage. The EA will become part of the record for consideration by the Commission.

After the EA is issued, a public hearing and associated public comment period will be held to again solicit public input and to create an administrative record. The Commission will select a person to preside at the hearing, which, in practice, is usually an administrative law judge (ALJ) from the Office of Administrative Hearings. The Commission will establish the procedures to be followed at the hearing. *See* Minn. R. 7850.3800.

Once the hearing is concluded, the ALJ will prepare a report based on the record. After the report is issued, the matter will come to the Commission for a decision. During an open meeting, the Commission will deliberate and make a decision as to the route for the Project, using the criteria set forth in Minn. Stat. 216E.03, subdivision 7(b), and Minn. R. 7850.4100 to guide its decision.

A route permit under the Alternative Review Process shall be issued six months after the Commission's determination that the Application is complete. This timeframe may be extended up to three months for just cause or upon agreement by the Applicant. *See* Minn. Stat. § 216E.04, subd. 7.

#### 2.3 Other Permits/Approvals

In addition to the Route Permit sought in this Application, several other permits, license, approvals, or consultations may be required to construct the Project depending on the actual route selected and the conditions encountered during construction. A list of the local, state, and federal permits that may be required for this Project is provided in **Table 2.3-1**. Each of these requirements and their applicability to the Project are discussed in the application sections as listed in the table. Any required permits will be obtained by Great River Energy in a timely manner.

Table 2.3-1. Summary of Possible Permits, Licenses, Approvals, and Consultations

Permit	Jurisdiction		
Federal			
Section 404 Clean Water Act Permit	United States Army Corps of Engineers		
Section 7 Endangered Species Act / Migratory Bird Treaty Act Consultation	United States Fish and Wildlife Service		
Part 7460 Airport Obstruction Evaluation	Federal Aviation Administration / Minnesota Department of Transportation		
State			
State Endangered Species Consultation	Minnesota Department of Natural Resources – Ecological Services		
National Historic Preservation Act Consultation Minnesota Statutes Chapter 138 (Minnesota Field Archaeology Act and Minnesota Historic Sites Act)	State Historic Preservation Office Tribal Historic Preservation Officers		
Licenses to Cross Public Waters	Minnesota Department of Natural Resources – Lands and Minerals		
Water Appropriation General Permit – Construction Dewatering	Minnesota Department of Natural Resources		
National Pollutant Discharge Elimination System Construction Stormwater Permit	Minnesota Pollution Control Agency		
Section 401 Clean Water Act Water Quality Certification	Minnesota Pollution Control Agency		
Wetland Conservation Act	Minnesota Board of Water and Soil Resources, Scott and Rice Counties Soil and Water Conservation Districts		

Permit	Jurisdiction			
Utility Accommodation on Trunk Highway ROW	Minnesota Department of Transportation			
Miscellaneous Work Permit for Trunk Highways	Minnesota Department of Transportation			
Oversize and/or Overweight Permit	Minnesota Department of Transportation			
Local				
Road Crossing/Driveway/ROW Permits	Helena and Cedar Lake Townships, Scott County			
Road Clossing/Driveway/ROW Fernings	Wheatland Township, Rice County			
Over-Width Load Permits	Helena and Cedar Lake Townships, Scott County			
Over-width Load Fernins	Wheatland Township, Rice County			
Other				
Crossing Permits/Agreements	Other utilities such as pipelines			

#### 2.3.1 Federal Approvals

#### Section 404 Permit Clean Water Act Permit

A Section 404 permit is required from the U.S. Army Corps of Engineers (USACE), St. Paul District for discharges of dredged or fill material into waters of the United States. Based on wetland mapping using Minnesota Department of Natural Resources (MDNR) National Wetland Inventory (NWI) data, the Project will cause minimal permanent and temporary impacts to wetlands and is anticipated to be eligible for coverage under the Minnesota Utility Regional General Permit. Great River Energy, in consultation with the USACE, St. Paul District, will seek coverage under the appropriate permit once design of the transmission line is complete. **Section 6.7.2** discusses the potential impacts to wetlands associated with the Proposed Route.

#### U.S. Fish and Wildlife Service Endangered Species Act and Migratory Bird Treaty Act

As discussed above, the Project is anticipated to result in impacts that are eligible for coverage under the USACE Section 404 Minnesota Utility Regional General Permit. Conditions of this permit require that Great River Energy assess whether the activity might affect any federally listed threatened, endangered, or proposed threatened and endangered species, designated critical habitat, or proposed critical habitat in compliance with the Endangered Species Act. Great River Energy will coordinate with the U.S. Fish and Wildlife Service (USFWS) once design of the transmission line is complete. **Section 6.7.5** discusses the potential impacts to federally listed threatened and endangered species associated with the Proposed Route.

The Migratory Bird Treaty Act prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the USFWS. Great River Energy will work with the USFWS to identify any areas that may require marking transmission line shield wires and/or to use alternate structures to reduce the likelihood of avian collisions once design of the transmission line is complete. **Section 6.7.3** discusses the potential impacts to migratory bird species associated with the Proposed Route.

#### Federal Aviation Administration Part 7460 Airport Obstruction Evaluation

Title 14 Code of Federal Regulations (CFR) Part 77 requires that anyone building a structure near an airport report their intentions to the Federal Aviation Administration (FAA). This requires a

submission of FAA Form 7460, at which point the FAA will conduct an Obstruction Evaluation / Airport Airspace Analysis Process.

#### 2.3.2 State of Minnesota Approvals

#### State Endangered Species Consultation

Minn. Stat § 84.0895 prohibits the take, import, transport, or selling of any portion of an endangered species or wild animal or plant. In order to determine if a project will impact a state listed threatened or endangered species, an applicant must consult with the MDNR Natural Heritage and Nongame Research Program, which collects, manages, and interprets information about nongame species. The results of initial consultation regarding the Proposed Route are provided in **Section 6.7.5**.

#### Historic, Archaeological, and Tribal Cultural Resources

As discussed above, the Project is anticipated to result in impacts that are eligible for coverage under the USACE Section 404 Minnesota Utility Regional General Permit. Conditions of this permit require that Great River Energy assess whether the activity might have the potential to cause effects to an historic property, listed on, eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places.

The Minnesota Field Archaeology Act (Minn. Stat § 138.32-138.42) establishes the Office of the State Archaeologist (OSA); requires licenses to engage in archaeology on nonfederal public land; establishes ownership, custody, and use of objects and data recovered during survey; and requires state agencies to submit development plans to the OSA, Minnesota State Historic Preservation Office (SHPO), and the Minnesota Indian Affairs Council (MIAC) for review when there are known or suspected archaeological sites in the area.

Minnesota's Private Cemeteries Act (Minn. Stat § 307.08) affords all human burial grounds and remains older than 50 years and located outside of platted or identified cemeteries protection from unauthorized disturbance. This statute applies to burials on either public or private lands or waters and includes prehistoric Indian burial mounds as well as historic cemeteries.

#### License to Cross Public Waters

The MDNR Division of Lands and Minerals regulates utility crossings over, under, or across any State land or public water identified on the Public Waters and Wetlands Maps. A license to cross public waters is required under Minn. Stat. § 84.415 and Minn. R. Ch. 6135. As further discussed in **Section 6.7.2**, the Proposed Route crosses public water watercourses; therefore, a Utility License to Cross Public Waters will be required. No MDNR-administered public lands are crossed by the Proposed Route.

### Water Appropriation General Permit – Construction Dewatering

Minn. Stat. § 103G.265 requires the MDNR to manage water resources to ensure an adequate supply to meet long-range seasonal requirements for domestic, agricultural, fish and wildlife,

recreational, power, navigation, and quality control purposes. A water use permit from the MDNR is required for all uses withdrawing more than 10,000 gallons of water per day or 1 million gallons per year. Construction dewatering activities are sometimes required during the installation of transmission poles, as further discussed under **Section 6.7.2**; therefore, a water appropriation permit may be required.

#### National Pollutant Discharge Elimination System Construction Stormwater General Permit

A National Pollutant Discharge Elimination System (NPDES) permit from the Minnesota Pollution Control Agency (MPCA) is required for stormwater discharges associated with construction activities disturbing one or more acres. A requirement of the permit is to develop and implement a stormwater pollution prevention plan (SWPPP), which includes Best Management Practices (BMPs) to minimize discharge of pollutants from the site. This permit will be acquired if construction of the Project will cause a disturbance of one or more acres.

#### Section 401 Water Quality Certification

A Section 401 certification is necessary to obtain a federal permit for a project to ensure that the federal government does not issue a permit or license for a project that will result in a violation of the state water quality standards set under the Clean Water Act in waters of the U.S. The federal agency, in this case the USACE, cannot issue a permit until the MPCA has either certified that the project impacting waters of the U.S. will comply with state water quality standards, or waived its review of the project. As discussed above, the Project is anticipated to result in impacts that are eligible for coverage under the USACE Section 404 Minnesota Utility Regional General Permit. The MPCA has issued a Section 401 Certification associated with the regional general permits.

#### Wetland Conservation Act

The Minnesota Board of Water and Soil Resources (BWSR) administers the state Wetland Conservation Act. The Project will cause minimal permanent and temporary impacts to wetlands and is anticipated to be eligible for the Exemption for Utilities in accordance with Minn. Stat. § 103G.2241, subd. 6, and Minn. R. 8420.0420, Subp. 5, which allows the utility exemption for installation, maintenance, repair, or replacement of lines if (a) the impacts have been avoided and minimized to the extent possible; and (b) the proposed project significantly modifies or alters less than one-half acre of wetlands. Further discussion on the potential impacts to wetlands associated with the Proposed Route are provided in **Section 6.7.2**.

#### Utility Accommodation on Trunk Highway Right of Way

A Utility Accommodation Permit is required by the Minnesota Department of Transportation (MnDOT) if utility lines will overhang or cross over a state highway or utility structures will be located within road ROW. The Project will parallel 280<sup>th</sup> St E / State Highway 19, likely cross over the highway, and may have structures located within its ROW. Great River Energy will apply for the permit once it has a final line design. Project construction work will not commence along the highway until the permit is issued. Great River Energy has started coordinating with the MnDOT, as documented in the correspondence provided in **Appendix D**.

#### Miscellaneous Work Permit for Trunk Highways

A Miscellaneous Work Permit is required by the MnDOT for placement of temporary obstructions on the ROW (e.g., survey vehicles) and vegetation removal. After the Route Permit is issued, Great River Energy will apply for this permit.

#### Oversize / Overweight

An Oversize and / or Overweight permit is required by MnDOT when a vehicle is transporting an oversize / overweight load on Minnesota roadways. If any transport load qualifies as oversize or overweight, the transportation contractor will apply for the appropriate permit.

#### 2.3.3 Local Approvals

After the Commission approves a route and any appropriate design engineering is completed, Great River Energy will work with LGUs to obtain any of the following approvals, if necessary.

#### Road Crossing/Driveway/Right-of-Way Permits

These permits may be required to clear, cross, or occupy county, township, or city road ROW. Great River Energy will apply for these permits once the transmission line design is complete and acquire them prior to applicable construction activities.

#### Over-Width/Loads Permits

These permits may be required to move oversize or heavy loads on county, township, or city roads.

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#### 3 PROPOSED PROJECT

#### 3.1 Project Description

Great River Energy proposes to build a new 115-kV transmission line to supply power to the Cedar Lake Substation so that the existing 115-kV transmission line connected to the substation can be decommissioned and removed from the CapX2020 structures. The Project will be built to provide 115-kV service to the Cedar Lake Substation to meet long-term planning needs in the Project Area but will initially operate at 69-kV. Designing to 115-kV standards will simplify operation of the regional transmission system at 115-kV as electrification and load development increase in the area. The proposed Project is located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, Minnesota (**Figure 1-2**).

#### 3.2 Transmission Line

Great River Energy proposes the Project follow an approximately 6.3-mile route starting from the Cedar Lake Substation to the connection point with Great River Energy's existing MV-EVX 115-kV transmission line following the Proposed Route described below. An overview of the Proposed Route is shown in **Figure 1-2**, Proposed Route widths are shown in **Figure 3-1**, and **Appendix A** contains a series of larger scale aerial photo maps depicting the Proposed Alignment, Proposed Route, and 100-foot-wide ROW for the Project.

#### **Proposed Route**

The Project will begin at Great River Energy's existing Cedar Lake Substation located approximately 1,000 feet south of 260<sup>th</sup> St W in Helena Township in Scott County. The Project Route will extend east from the Cedar Lake Substation through agricultural fields and forested areas to Baseline Avenue (**page 1 of Appendix A**). From there, it will continue to follow Baseline Avenue until 270<sup>th</sup> St W to Baseline Avenue's termination point. The Project Route will continue south for approximately 1,300 feet to a landowner property boundary, where it will turn east for approximately 600 feet to the eastern edge of the landowner property boundary. The Project Route will then continue south for approximately 2,650 feet to 280<sup>th</sup> St E / State Highway 19 and then turn east (**page 2 of Appendix A**). It will continue along 280<sup>th</sup> St E / State Highway 19 for approximately 4 miles until it intersects with Great River Energy's existing MV-EVX 115-kV line near Panama Ave / County Highway 23 (**pages 2 and 3 of Appendix A**).

#### Right-of-Way and Route Widths

New easements will be needed for the 115-kV transmission line. Great River Energy representatives will work directly with individual landowners to acquire the necessary easements for the Project. At a minimum, the Project will require a total ROW width of 100 feet (typically 50 feet off each side of the transmission centerline) for the 115-KV transmission line system.

Great River Energy is requesting varied route widths for specific portions of the route to take into account existing infrastructure, mitigate potential engineering challenges, and/or to facilitate any necessary realignments to accommodate agency and/or landowner requests. The route width areas are shown in **Figure 3-1** and numbered consistent with the descriptions below. Detailed descriptions of each route width area and the requested widths are as follows:

Great River Energy's requested route widths are depicted in **Figure 3-1.** For much of the Proposed Route, Great River Energy is requesting a route width of 400 feet; in certain areas, Great River Energy is requesting a different route width. Those areas are identified below and shown in more detail in the maps provided in **Appendix A**:

- 1. The entire parcel upon which the substation is located (approximately 73 acres) (page 1 of Appendix A).
- 2. A 250-foot-wide route south of Baseline Avenue for approximately 500 feet to avoid a residence to the southwest of Baseline Avenue (page 2 of Appendix A).
- 3. A 565-foot-wide route at the intersection of 280<sup>th</sup> St E / State Highway 19 and Langford Ave / State Highway 13, which extends approximately 1,000 feet. This route width is requested to accommodate the intersection of State Highway 19 and State Highway 13 (page 2 of Appendix A).
- 4. A 435-foot-wide route at the intersection of 280<sup>th</sup> St E / State Highway 19 and Panama Ave / County Highway 23, which extends approximately 850 feet until the connection with Great River Energy's existing MV-EVX 115-kV transmission line. This route width is requested to accommodate the intersection of State Highway 19 and County Highway 23 (page 3 of Appendix A).

#### Structures and Design Considerations

Potential structure designs and photographs are provided in **Diagrams 3-1** and **3-2**. Structure dimensions are provided in **Table 3.2-1**.

 Table 3.2-1.
 Typical 115-kV Structure Dimensions

Structure Type	Material	Approximate Height Above Ground (feet)	Structure Base Diameter (inches)	Span Between Distances (feet)
Monopole with horizontal post or braced post	Wood, steel, or ductile iron	60 - 90	18 - 36	300 - 400
H-Frame	Wood, steel, or ductile iron	60 - 90	18 - 36	350 - 800
Three-pole	Wood, steel, or ductile iron	60 - 90	18 - 36	350 - 800

Diagram 3-1. Typical Transmission Structure Types

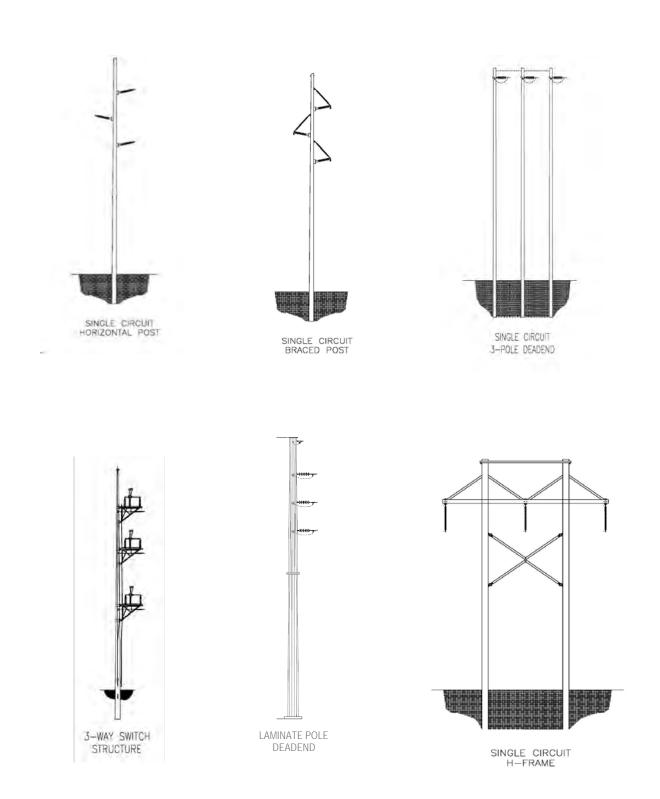


Diagram 3-2. Photos of Typical 115 kV Transmission Structures







**Braced Post** 



3-Pole Deadend



Switch



**Steel Deadend** 



H-Frame

The majority of the new 115-kV transmission line will consist of single circuit, horizontal post, or braced post monopole wood structures spaced approximately 300 to 400 feet apart. Transmission structures will typically range in height from 60 to 90 feet above ground, depending upon the terrain and environmental constraints. The average diameter of the wood structures at ground level is 20 inches.

Laminated wood structures or steel structures may be needed for switches and angled structures; the size of these structures is dependent on the weight of the switch material, the tension on the line, and/or the angle of deflection the pole location causes on the transmission line. Specific sizing

of these structures will be determined after a route permit is issued and detailed engineering design is initiated.

Multi-pole (e.g., 3-pole deadend) and/or H-frame structures are designed in a horizontal configuration, which maintains the transmission line conductors parallel to the ground. Horizontal configuration is sometimes desirable where the proposed transmission line crosses under other existing high voltage transmission lines. The horizontal configuration allows the upgraded 115-kV transmission line to be as low as possible at the crossing point, while still maintaining the required clearances set by the National Electrical Safety Code (NESC). Specific sizing of these structures will be determined after a Route Permit is issued and detailed engineering design is initiated. Great River Energy does not currently anticipate the Proposed Route will require H-frame or 3-pole structures.

A deadend structure is used to change direction and / or wire tension on a transmission line. Deadend structures are also used as a "storm structure" to limit the number of structures damaged by a cascading effect due to higher line tensions when a pole is knocked down by a storm. Deadend structures can use wood, wood laminate, direct steel embedded, or steel on concrete foundation structures.

#### <u>Transmission Line Clearance Requirements</u>

NESC sets minimum clearances of the conductors from structures adjacent to or within the ROW. NESC clearance requirements are summarized in **Table 3.2-2**. For a 115-kV transmission line like the Project, the NESC minimum clearance under a 48 mile per hour (mph) wind is 8.6 feet. When there is no wind, the conductors must have a clearance of 9.1 to 11.6 feet from various structures as listed in **Table 3.2-2**. In addition, Great River Energy typically requires the blowout to remain within the ROW under a more extreme wind condition of 94 mph. The amount of blowout is dependent on a number of factors including the span length and conductor type. On a typical 115-kV transmission line with a 300-foot span, blowout is approximately five feet with 48 mph winds and eight feet with 94 mph winds. The final line design evaluates blowout based on actual span distances and the type of conductor being used.

Table 3.2-2. NESC Clearance Requirements for 115-kV

Risk Case	Minimum Separation (feet)		
RISK Case	No Wind	NESC 45 mph wind	
From a lighting support, traffic signal support, or support structure for another line.	9.1	8.6	
From any other buildings, walls, projections, structures, bridges, etc.	11.6	8.6	

<sup>&</sup>lt;sup>7</sup> NESC also has standards regarding vegetation management which necessitates typically greater clearance distances. See **Section 5.7** for vegetation management requirements.

#### Substation

The Cedar Lake Substation is already equipped with breakers and relays. This equipment is designed to protect human health, as well as all of the equipment on the transmission system, by de-energizing the transmission line should any unsafe line faults occur. No modifications are anticipated other than to connect the new transmission line to the substation.

#### **Outages**

All necessary outages are coordinated in accordance with MISO requirements and procedures that are established and followed by all MISO members to meet personnel safety and NESC transmission grid reliability requirements. Coordination is accomplished through well-defined outage scheduling procedures that utilize web-based tools, allow for study affirmation and ultimately approval of the submitted outage. Once approved, detailed switching orders are developed and shared with all parties involved using well-defined processes to ensure safety of personnel performing the work and transmission grid reliability. While distribution systems are not subject to MISO requirements, Great River Energy will also coordinate outages with Minnesota Valley.

#### Conductors

The single circuit structures will have three single conductor phase wires and one shield wire. It is anticipated that the phase wires will be 795 thousand circular mil aluminum conductor steel reinforced (795 ASCR) or a conductor with similar capacity. The shield wire will be 0.528 optical ground wire.

#### **Distribution Lines**

Great River Energy does not own, operate, or install low voltage distribution lines. On some projects, Great River Energy has allowed other distribution utilities to attach distribution lines to its high voltage transmission line structures. This is commonly called "underbuild" or "underbuilt." Minnesota Valley has existing distribution lines along Baseline Avenue and 280<sup>th</sup> St E/Minnesota Highway 19. Great River Energy currently understands that Minnesota Valley plans to bury these lines where they are overtaken by the Project, rather than attach them to the new 115-kV structures installed by Great River Energy. This work will be undertaken by Minnesota Valley and will not be conducted or directed by Great River Energy.

#### Service Life

The service life of a transmission line is approximately 40 years, although based on experience, it is quite possible that the line and structures will last longer than 40 years.

#### Annual Availability

An average 115-kV transmission line is expected to be available approximately 99.9 percent of the year. Great River Energy expects that this line should not be out of service for any extended period

of time, other than the rare times when scheduled maintenance is required or when a natural event, such as a tornado, thunderstorm, or ice storm causes an outage.

# 3.3 Proposed Ownership

Great River Energy will own the 6.3-mile 115-kV transmission line from the Cedar Lake Substation to its connection point with the MV-EVX 115-kV line.

#### 3.4 Landowner Coordination

Great River Energy has initiated landowner outreach by providing information on the Project via letters mailed to potentially impacted landowners, interested parties and federal, state, and local governmental officials; publishing notices in area newspapers; and holding an Open House meeting (Section 1.6, Appendix B).

The majority of the Proposed Route is owned by private landowners. New easements will be needed for the 115-kV transmission line route from the substation to connect the Project to the existing MV-EVX 115-kV line. Great River Energy representatives will work directly with individual landowners to negotiate the necessary easements. At a minimum, the Project will obtain a total ROW of 100 feet (typically 50 feet from each side of the transmission centerline) for the 115-KV transmission line system. Where the transmission line parallels roads, the transmission line structures are typically installed one to five feet outside of road ROW, resulting in approximately 55 feet of ROW needed outside of the road ROW.

If a negotiated easement cannot be reached, Great River Energy can use the eminent domain process to obtain the rights necessary. *See* Minn. Stat. § 216E.12. With the eminent domain process, the landowner has the ability to have compensation for the ROW determined by impartial commissioners through a court process that is initiated by Great River Energy.

#### 3.5 Estimated Costs

Estimated costs for the proposed Project are approximately \$10.4 million. Costs and tasks are divided into six phases as summarized in **Table 3.5-1**.

Land Planning/State Close **Project** Acquisition/ **Design Procurement** Construction Total Permitting Out **Permits** Transmission \$386,378 \$2,840,303 \$507,551 \$3,018,234 \$2,958,647 \$156,635 **\$9,867,748** Line Switches \$16,248 \$3,271 \$126,680 \$214.377 \$178,515 \$13,212 \$552,303 Total \$402,626 \$2,843,574 \$634,231 \$3,232,611 \$3,137,162 \$169,847 \$10,420,051

Table 3.5-1. Estimated Great River Energy Project Costs

All capital costs for the Project will be borne by Great River Energy.

#### 3.5.1 Transmission Line Construction Costs

In rural areas, single pole construction costs and easement costs are approximately \$725,000 per mile (2021). The proposed Project's costs are anticipated to be higher due to congestion from existing roads, the need to cross roads numerous times to avoid existing homes, escalating material costs and the compressed timeline for the Project.

# 3.5.2 Operation and Maintenance Costs

The estimated annual cost of ROW maintenance and operation of Great River Energy's transmission lines (69-kV to 500-kV) in Minnesota currently averages about \$2,000 per mile. Storm restoration, annual inspections, and ordinary replacement costs are included in these annual operating and maintenance costs.

#### 3.6 Project Schedule

Great River Energy plans to commence construction of the Project in fall 2024 once required permits and approvals are obtained. Great River Energy anticipates construction will take approximately seven to eight months and the Project will be energized in summer 2025. **Table 3.6-1** summarizes the permitting schedule that would enable the Project to be in service in time for CapX2020 to install the second circuit.

Route permit application filed

Scoping meeting

Public hearing

Commission meeting

Written order issued

June 2023

August 2023

November 2023

February 2024

March 2024

**Table 3.6-1.** Anticipated Permitting Schedule

# 3.7 Work Force Required

Great River Energy anticipates 15 to 25 daily contract workers will be employed during construction of the Project. Great River Energy will also have a construction supervisor onsite throughout the construction phase.

Great River Energy has a buy local policy that states, "preference shall be given to local suppliers. Local suppliers are those suppliers or contractors who are physically located in Great River Energy's service territory (Minnesota / Wisconsin) and/or in states where Great River Energy has a physical location (North Dakota). Great River Energy's operating guideline, in order of importance, is to buy Local  $\rightarrow$  Domestic  $\rightarrow$  Eligible Countries. Sources from non-eligible countries will be considered in extreme circumstances or as a last resort."

Great River Energy typically hires contractors who pay their employees at or better than prevailing wages.

#### 3.8 Construction Practices

Great River Energy intends to employ its standard practices to construct the Project. These standard practices have been established and incorporate BMPs to meet internal, state, and federal requirements, balance construction costs, and minimize impacts to landowners and the environment. Construction practices to be followed are described in more detail in **Section 5.5**.

# 3.9 Operation and Maintenance Practices

Great River Energy will periodically perform inspections, maintain equipment, and repair damage to the transmission line. Regular maintenance and inspections will be performed over the life of the facility to ensure a reliable system. Annual inspections will be done by foot, snowmobile, All-Terrain Vehicle, pickup truck, or by aerial means. These inspections will be limited to the acquired ROW and areas where obstructions or terrain require access outside of the transmission line ROW but within the terms of the easement. If problems with the transmission line are found during inspection, repairs will be performed, and landowners will be compensated for any losses or damages incurred to their property.

Great River Energy's Transmission Construction & Maintenance Department will conduct vegetation surveys and remove vegetation that will interfere with the safe operation of the transmission line (**Section 5.7**). A three to seven-year cycle of vegetation maintenance is desirable. ROW practices include a combination of mechanical and hand clearing, along with targeted application of herbicides where allowed.

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#### 4 ALTERNATIVE ROUTES CONSIDERED AND REJECTED

# 4.1 Alternative Requirement

Minn. Stat. § 216E.04, subdivision 3, and Minn. R. 7850.3100 require an applicant to identify any alternative routes that were considered and rejected for the Project.

The first step in identifying route alternatives is to identify local, existing transmission lines and then determine if the line can sufficiently support the needs of the Project. That process identified: 1) Great River Energy's existing 115-kV MV-EVX line, which currently powers the Cedar Lake Substation and is located east of the substation and, 2) Xcel Energy's existing 69-kV 0744 line, which is located west and south of the substation. As described in **Section 4.2**, the Xcel Energy 69-kV 0744 line was determined to a non-viable alternative. As described in **Sections 4.3** and **4.4**, five route alternatives that would connect to the 115-kV MV-EVX were considered. Four of those route alternatives were ultimately rejected in favor of the Proposed Route because the Project's Proposed Route better avoids and minimizes potential human and environmental impacts, consistent with the Commission's routing criteria.

# 4.2 Evaluation of Xcel Energy's 69-kV 0744 Line

Connection to the Xcel Energy 69-kV 0744 transmission line was considered and rejected (**Figure 1-3**). As such, no actual routes were evaluated in detail. Using the 69-kV line to power the Cedar Lake Substation was rejected for the following reasons:

- The Xcel Energy 69-kV 0744 connection point is an older transmission system that is less reliable than other 115-kV connection points available in the area. This 69-kV transmission line has an exposure length of 22 miles in comparison to about 13 miles of exposure on the preferred Great River Energy 115-kV connection point. Higher transmission line exposure lengths mean increased risk of outages due to contact, weather, etc.
- Interconnecting the Cedar Lake Substation to Xcel Energy's 69-kV 0744 line would cause post-contingent transmission line loading and low voltage concerns to the system that would make this option inferior to connecting to Great River Energy's 115-kV MV-EVX line. Specifically, for the loss of Scott County-Gifford Lake 69-kV line, Great River Energy's 69-kV line between the Carver County and Assumption substations would be loaded to about 93% of the line's capacity and the Gifford Lake area would experience weak voltage profile. This would speed up the need to rebuild the Carver County to Assumption 69-kV line for additional capacity. Further, with weak voltage profile and post-contingency loading of 93% on the Carver County to Assumption 69-kV line, there would be minimal capacity available to accommodate future increased energy needs in the area. This would likely result in a new, separate upgrade project sometime in the future.

# 4.3 Following the Existing CapX2020 Brookings to Hampton Line

Connecting to the 115-kV MV-EVX line following the CapX2020 alignment was rejected for the following reasons:

- Staying within the same alignment and ROW for the CapX2020 line would require constructing triple circuit structures, which would likely require shorter spans than the existing structures. Replacing the existing 4.2-mile segment with triple circuit structures would require a lengthy outage on the existing 345-kV circuit, which is already experiencing congestion that has resulted in curtailment of renewable energy sources. This alternative is rejected because it does not meet the Project schedule.
- A separate 115-kV transmission line could be constructed parallel to the existing CapX2020 line, but it would need to be offset and would require an additional 50 to 75 feet of ROW, further directly impacting residential and agricultural properties already impacted by the CapX2020 line. To avoid induction issues on the new 115-kV line, construction would also require a lengthy outage of the CapX2020 345-kV circuit, which is already experiencing congestion that has resulted in curtailment of renewable energy sources.
- A separate 115-kV line could be constructed on the opposite side of the road from the CapX2020 line. However, this configuration would require impacts to properties that were potentially originally intentionally avoided by the CapX2020 line. This alternative would also include numerous road crossings where the new line would have to cross under the existing CapX2020 lines. Each crossing would require two H-frame or 3-pole structures increasing visual impacts.

Due to the direct impact to landowners, the constructability issues, and construction timelines described above, following the CapX2020 line was eliminated from further consideration.

# 4.4 Alternative Routes to Connect to the Proposed 115-kV EV-EVX Line

Great River Energy considered three Route Alternatives that would include the installation of a 115-kV transmission line from the Cedar Lake Substation and have a connection point east of that substation, at the MV-EVX 115-kV line (**Figure 4-1**). Route Alternatives 1, 2, and 3 (RA1, RA2 and RA3) are approximately the same length (6.0-6.4 miles) as the Proposed Route.

Great River Energy reviewed major publicly available environmental datasets to complete a high-level comparative analysis of the Proposed Route and RA1, RA2, and RA3 depicted in **Figure 4-1**. A summary of the results is presented in **Table 4.4-1**. To provide a reasonable comparison between the Proposed Route and Route Alternatives, resource impacts were assessed based on the route width, route alignment, and/or a 100-foot-wide buffer (50 feet either side) of the centerlines (i.e., ROW), as appropriate depending on the resource.

Because the Proposed Route and the route alternatives evaluated traverse relatively the same geography and terrain, potential human and environmental impacts are similar across the route alternatives. Ultimately, Great River Energy is requesting a Route Permit for the Proposed Route because, as compared to the route alternatives considered and rejected, the Proposed Route best

balances the Commission's routing criteria because of its collocation with existing infrastructure and greater distance from existing residences. Further, impacts to resources such as forested areas and wetland features can be avoided or reduced during final design through modification of the Route Alignment and pole placement within the selected route width. For example, wetlands less than 400 feet in length can be spanned, thereby avoiding pole placement within the wetland feature.

As summarized in **Table 4.4-1**, in terms of human and environmental impacts, the Proposed Route:

- is collocated for 47.3% of its length with utilities (i.e., electric transmission and distribution lines, and / or oil pipelines) and roads, more than any of the other Route Alternatives; and
- has the least number of homes within 200 feet of the proposed centerline.

The Route Alternatives are compared in further detail to the Proposed Route below. In particular, Great River Energy notes that RA3 is located parallel to utilities and roads along the entirety of its route width; however, due to the congestion of existing infrastructure in particular along Langford Ave / State Highway 13, MnDOT ROW width along this highway, and topography, Great River Energy would have to route the transmission line approximately 100 to 150 feet outside of the road footprint. As such, although RA3 would technically run parallel to existing infrastructure, Great River Energy determined that paralleling existing infrastructure would not, in this instance, reduce human and environmental impacts.

Table 4.4-1. Comparison of Human and Environmental Features Crossed by the Proposed Route and Route Alternatives

Resource / Characteristic	Proposed Route	RA1	RA2	RA3	Source		
Length (miles)	6.3	6.0	6.4	6.3	N/A		
		Collo	cation <sup>a</sup> wi	th Utilities a	and Roads		
Electric Transmission / Distribution Lines (feet)	12,398	100	12,384	5,608	Minnesota Valley Distribution Lines (personal communication, February 2023); https://resources.gisdata.mn.gov/pub/gdrs/data/pub/us_mn_state_mngeo/util_elec_trans/met adata/metadata.html (2021)		
Oil and Gas Pipelines (feet)	1,160	685	581	2,866	Proprietary information		
Roads (feet)	2,163	2,584	2,196	2,857	https://mndot.maps.arcgis.com/apps/View/ind ex.html?appid=ed7c29124e56472cbfba2d0cc 3c557e2 (Undated)		
Total (feet) b	15,721	3,369	15,161	11,331			
Percent Collocated <sup>b</sup>	47.3%	10.6%	44.9%	34.1%			
	Land Use Features						
Residences within 200 feet of centerline	1	4	2	3	Digitized from aerial photographs (2021)		

Degenment /	Duonogod				
Resource / Characteristic	Proposed Route	RA1	RA2	RA3	Source
No. of parcels crossed by centerline	32	27	29	31	https://www.mngeo.state.mn.us/chouse/land_own_property.html (April 2023)
Collocation <sup>a</sup> with snowmobile trails (feet)	509	100	941	0	Le Sueur County Snowmobile Trails (Undated) Rice County Snowmobile Trails Map (Undated) Scott-Carver Snowmobile Trails Map (2016-
					2017) https://gisdata.mn.gov/dataset/trans- snowmobile-trails-mn (July 2022)
			Ea	sements	
U.S. Fish and Wildlife Service (USFWS) Interest (no.)	1	0	1	1	https://gis- fws.opendata.arcgis.com/datasets/fws::fws- national-realty-tracts/about (February 2023)
Minnesota BWSR / RIM Conservation Easement (no.)	0	1	1	0	https://gisdata.mn.gov/dataset/bdry-bwsr-rim- cons-easements (April 2023)
		Cul	tural and	Historic R	esources
Memorial Highways (no.)	1	0	1	1	https://gisdata.mn.gov/dataset/trans- memorial-routes (Undated)
Architectural History Site (no.)	1	0	1	1	https://www.nps.gov/subjects/nationalregister/data-downloads.htm (May 2014)
			Surface V	Water Feat	ures
National Wetlands Inventory (no. of crossings)	23	22	24	24	https://gisdata.mn.gov/dataset/water-nat- wetlands-inv-2009-2014 (May 2019)
Waterbodies / Ditches (no. of crossings)	4	4	5	4	https://gisdata.mn.gov/dataset/water-dnr-hydrography (April 2023) https://prd- tnm.s3.amazonaws.com/index.html?prefix=St agedProducts/Hydrography/NHD/State/GDB/ (April 2023)
MDNR Public Water Watercourses (no. of crossings)	2	3	3	3	https://gisdata.mn.gov/dataset/water-mn-public-waters (June 2020)
		R	are and So	ensitive Res	sources
Potential for USFWS federally protected species	3	3	3	3	Information for Planning and Consultation (IPaC) System Project Code 2023-0051696 (March 3, 2023)

Resource / Characteristic	Proposed Route	RA1	RA2	RA3	Source
Rusty Patch Bumblebee Low Potential Zones (no.)	0	1	0	0	https://www.arcgis.com/apps/mapviewer/inde x.html?webmap=2716d871f88042a2a56b800 1a1f1acae (March 8, 2023)
Minnesota Biological Survey Sites of Biodiversity Significance (no.)	0	1	0	0	https://gisdata.mn.gov/dataset/biota-mcbs- sites-of-biodiversity (April 2023)
Minnesota Land Cover Classification System Regional Ecological Corridors (no.)	0	1	1	1	https://gisdata.mn.gov/dataset/env-mlccs-regional-corr-areas (2008)
MDNR Regionally Sig. Ecological Areas (no.)	1	1	1	0	https://gisdata.mn.gov/dataset/env-dnr-r3-resource-sig-areas (2000)

#### Notes:

The Proposed Alignment has the fewest residences within 200 feet (one residence), does not cross any Minnesota BWSR Reinvest in Minnesota (RIM) conservation easements, and has fewer public watercourse crossings relative to the other alignments associated with the Route Alternatives. The Proposed Alignment would be collocated for approximately 509 feet with local snowmobile trails, principally with a trail that extends from St. Patrick's Tavern and Restaurant near Cedar Lake in Scott County south to  $263^{rd}$  St E and then west on  $263^{rd}$  St E to Baseline Ave south into Rice County. Based on local county snowmobile trail maps, the alignments associated with RA1 and RA2 are also collocated with 100 and 941 feet of local snowmobile trails, respectively.

Similarly, the Proposed Alignment crosses approximately 0.4 mile of natural land use, including both upland and wetland forested areas, relative to the alignments associated with the other Route Alternatives that cross between 0.4 and 0.9 mile, as presented in **Table 4.4-2**. All remaining mileage crossed is developed/disturbed or agricultural.

Table 4.4-2. Comparison of Land Use Types Crossed by the Proposed Alignment and Route Alternative Alignments

Land Use Type	Proposed RA1 RA2 RA3					
	Miles Crossed					
Row & Close Grain Crop Cultural Formation	3.18	3.74	2.99	3.88		
Pasture & Hay Field Crop	0.06	0.40	0.06	0.20		

<sup>&</sup>lt;sup>a</sup> Collocation is defined as any utility, road or trail located within 50 feet either side of the centerline based on the proposed clearing width.

Total length includes areas where more than one utility or road may be collocated with a centerline. For example, where a route is parallel of both an electric distribution line and a road.

Land Use Type	Proposed Route	RA1	RA2	RA3			
		Miles Crossed					
Agricultural Land Use Subtotals	3.2	4.1	3.1	4.1			
Developed & Urban	2.58	0.98	2.80	1.79			
Recently Disturbed or Modified	0.06	0.02	0.00	0.00			
Developed / Disturbed Land Use Subtotals	2.6	1.0	2.8	1.8			
Eastern Northern American Freshwater Marsh	0.09	0.06	0.08	0.08			
North-Central Beech – Maple – Basswood Forest	0.31	0.75	0.47	0.23			
North-Central Oak – Hickory Forest & Woodland	0.02	0.02	< 0.01	0.00			
Northern & Central Native Ruderal Forest	0.00	0.00	0.00	0.05			
Silver Maple – Green Ash – Sycamore Floodplain Forest	0.00	0.02	0.04	0.02			
Natural Land Use Subtotals	0.4	0.9	0.6	0.4			
Total	6.3	6.0	6.4	6.3			
Source: https://www.usgs.gov/programs/gap-analysis-pro	ject/science/land	-cover-data-do	wnload (2011	)			

As shown in **Table 4.4-3**, based on the NWI data the Proposed Route crosses the largest mileage of wetlands (1.5 miles); however, approximately 1.1 miles of those wetlands are classified as emergent wetlands, which would not require tree clearing during construction or operations. Permanent wetland impacts for the Proposed Route and all Route Alternatives can be further avoided or minimized through careful selection of pole locations. As shown in **Table 4.4-3**, there are few wetland crossings greater than 400 feet along the Proposed Alignment and Route Alternatives that would likely require pole placement within the wetland feature.

Table 4.4-3. Comparison of Wetlands Crossed by the Proposed Alignment and Route Alternative Alignments

Wetland Type	Proposed Route	RA1	RA2	RA3			
		Miles Crossed					
Freshwater Emergent Wetland	1.09	0.88	1.03	0.74			
Freshwater Forested Wetland	0.29	0.06	0.13	0.21			
Freshwater Forested / Emergent Wetland	0.00	0.08	0.08	0.00			
Freshwater Scrub-Shrub Wetland	0.12	0.00	0.14	0.14			
Riverine	< 0.01	0.01	0.01	0.01			
Total	1.5	1.0	1.4	1.1			
Wetland Crossings that Exceed 400 Feet	6	6	8	4			
Source: https://gisdata.mn.gov/dataset/water-nat-w	vetlands-inv-2009-2	2014 (May 2019	))	_			

# ENGINEERING, OPERATIONAL DESIGN, CONSTRUCTION, AND RIGHT-OF-WAY ACQUISITION

# 5 ENGINEERING, OPERATIONAL DESIGN, CONSTRUCTION AND RIGHT-OF-WAY ACQUISITION

Design and construction of transmission lines occur through multiple stages including identification of existing ROWs; transmission line design; ROW acquisition; construction; restoration; and operation and maintenance. Each stage is discussed in further detail in the sections that follow

# 5.1 Transmission Structure Design and Right-of-Way Requirements

Transmission structure design and the ROW requirements are discussed in **Section 3.2**. A schematic and photos of typical structures are provided in **Diagrams 3-1 and 3-2**.

# 5.2 Design Options to Accommodate Future Expansion

Minnesota statutes and rules require the consideration of the potential for a project to accommodate future improvements to the transmission system. The Project is designed to maintain reliability requirements in the area and, because it is proposed at 115 kV, it is sized to accommodate future expansion to the extent that future analysis determines it to be needed. As such, the Project is designed to appropriately accommodate future expansion, when needed.

#### 5.3 Identification of Existing Utility and Public Rights-of-Way

The Project will be constructed within existing utility ROW and will parallel existing road ROW for approximately 79 percent of the Proposed Alignment. Specifically, the Project:

- Is collocated<sup>8</sup> with Minnesota Pipeline Company pipeline ROW for approximately 1,160 feet between the Cedar Lake Substation and Baseline Avenue.
- Will parallel Baseline Avenue south for approximately one mile; for the last 0.25 mile, the Proposed Alignment would be located on the east side of Baseline Avenue within the existing Minnesota Valley distribution line ROW.
- Will parallel 280<sup>th</sup> St E / State Highway 19 for the last four miles of the Proposed Route. The Proposed Alignment would be located on the south side of the road for approximately two miles within the existing Minnesota Valley distribution line ROW.

# 5.4 Transmission Line Right-of-Way Acquisition Procedures

Great River Energy representatives will work directly with individual landowners to acquire the necessary easements for the Project. At a minimum, the Project will obtain a total ROW of 100

<sup>&</sup>lt;sup>8</sup> Collocation is defined as any road or utility located within 50 feet either side of the Proposed Alignment based on the proposed clearing width.

feet (typically 50 feet of each side of the transmission centerline) for the 115-kV transmission line system. Great River Energy will continue to engage with landowners throughout the permitting process to answer any questions they may have regarding the easement process or the Project.

During formal land rights acquisition, Great River Energy will provide the landowners the transmission line easement, offer of compensation, information on the Project schedule, construction practices, vegetation removal, and damage settlement. Additional information may also be given to each landowner regarding preliminary pole placement (if available at that time), structure design or photos, and power line safety. Great River Energy would respond to any comments or questions landowner may have including those with respect to the transmission line construction practices or operations of the transmission line.

In addition to permanent easements necessary for the construction of the line, agreements may be obtained from certain landowners for temporary construction or staging areas for storage of poles, vehicles, or other related items.

As part of early transmission design work, Great River Energy will need to complete preliminary survey work and may need to acquire some soil characteristics data. Great River Energy will notify landowners in the event site access for soil boring is required to determine soil suitability in areas where special transmission structure design may be required.<sup>9</sup>

#### **5.5** Construction Procedures

As described further below, construction will follow Great River Energy's standard construction and mitigation best practices. Construction typically occurs as follows:

- surveying and staking the ROW;
- ROW clearing and preparation;
- grading / filling, as needed;
- installation of foundations;
- installation of poles and related equipment;
- conductor stringing; and
- installation of any required aerial markers.

Procedures to be used for construction of the transmission line are discussed below. Equipment used in the transmission line construction process includes backhoes, cranes, boom trucks, and assorted small vehicles.

# **Transmission Line Construction**

After land rights have been secured and prior to any construction activities starting, landowners will be notified of the Project schedule and other related construction activities.

<sup>&</sup>lt;sup>9</sup> Survey work and geotechnical studies do not require that the Commission issue a route permit for this work to occur, Minn, R. 7850,1200, subp. 5.

The first phase of the transmission line construction activities will involve survey staking of the transmission line centerline and / or pole locations, followed by removal of trees and other vegetation from the ROW. The width of the ROW will be cleared of vegetation for construction to ensure safe and reliable access and construction; during Project operations and maintenance, Great River Energy will implement wire / border zone vegetation management practices, as discussed further in **Section 5.7**.

All materials resulting from clearing operations will either be chipped or shredded on site and spread on the ROW, stacked in the ROW for use by the property owner, or removed and disposed of otherwise as agreed to with the property owner during easement negotiations or in accordance with agency requirements.

Where clearing is required in wetlands, no more than one inch of chips, shred, or mulch will be allowed in wetlands. Larger trees and shrubs will be moved outside of the wetlands for processing in upland areas to ensure no more than one inch of residue is left in wetlands. Clearing in wetlands will be conducted when the ground and wetlands are frozen, or mats will be used to minimize impacts to vegetation.

The final survey staking of pole locations may again occur after the vegetation has been removed and just prior to structure installation.

The second phase of construction will involve structure installation and stringing of conductor wire. During this phase, existing underground utilities will be identified along the route through the required Gopher State One Call process.

If temporary removal or relocation of fences is necessary, installation of temporary or permanent gates will be coordinated with the landowner. Depending on the timing of construction, Great River Energy may work with the property owner for early harvest of crops, where possible, with compensation to be paid for any actual crop losses. During the construction process, it may be necessary for the property owner to remove or relocate equipment and livestock from the ROW. Compensation related to these activities will be discussed with the landowner during easement negotiations.

Transmission line structures are generally designed for installation at existing grades. Therefore, structure sites will not be graded or leveled unless it is necessary to provide a reasonably level area for construction access and activities. For example, if vehicle or installation equipment cannot safely access or perform construction operations properly near the structure, minor grading of the immediate terrain may be necessary.

Great River Energy will employ standard construction and mitigation practices as well as industry specific BMPs. BMPs address ROW clearing, erecting transmission line structures, and stringing transmission lines. BMPs for each specific project are based on the proposed schedules for activities, prohibitions, maintenance guidelines, inspection procedures, and other practices. In some cases, these activities, such as schedules, are modified to incorporate BMP installation that will assist in minimizing impacts to sensitive environments. Any contractors involved in construction of the transmission line will adhere to these BMP requirements.

A majority of the proposed structures will be installed directly in the ground by augering a hole typically 10 to 15 feet deep and 2 to 4 feet in diameter for each pole. Any excess soil from the excavation will be spread and leveled near the structure or removed from the site if requested by the property owner or regulatory agency. Some of the proposed structures will be steel poles, which may be directly imbedded or set on a concrete foundation. The concrete foundations will be approximately 5 to 7 feet in diameter and generally are exposed one foot above the existing ground level. Concrete trucks will be used to bring the concrete in from a local concrete batch plant.

After a direct-imbedded pole is set into the hole, the void space will be backfilled with crushed rock. Based on typical soil types in Minnesota, it is anticipated that the 60 to 90 foot above ground poles will be buried approximately 13 feet into the ground. In poor soil conditions (e.g., peat, marl, soft clay, loose sand) a galvanized steel culvert is sometimes installed vertically with the structure set inside.

After a number of proposed structures have been erected, Great River Energy will begin to install the shield wire and conductors by establishing stringing setup areas within the permanent ROW or temporary ROW as negotiated with the landowner. These stringing setup areas will be located at deadend structures along the Project Route and occupy approximately 15,000 square feet for linear segments of the line and approximately 30,000 square feet for angled segment of the line. Conductor stringing operations require brief access to each structure to secure the conductor wire and shield wire once the final sag is established. Temporary guard or clearance structures will be installed, as needed, over existing distribution or communication lines, streets, roads, highways, railways, or other obstructions after any necessary notifications are made or permits obtained. This will ensure that conductors will not obstruct traffic or contact existing energized conductors or other cables. In addition, the conductors will be protected from damage.

All construction will be completed in accordance with state, NESC, and Great River Energy construction standards regarding clearance to ground, clearance to crossing utilities, clearance to buildings, erection of power poles, and stringing of transmission line conductors.

#### 5.6 Restoration Procedures

Disturbed areas will be restored to their original condition to the maximum extent practicable, or as negotiated with the landowner.

Post-construction reclamation activities will include removing and disposing of debris, removing all temporary facilities (including staging and laydown areas), employing appropriate erosion control measures, reseeding areas disturbed by construction activities with vegetation similar to that which was removed with a seed mixture certified as free of noxious or invasive weeds, and restoring the areas to their original condition to the extent possible. In cases where soil compaction has occurred, the construction crew or a restoration contractor uses various methods to alleviate the compaction, or as negotiated with landowners.

Great River Energy will contact landowners after construction is complete to determine if the clean-up measures have been to their satisfaction and if any other damage may have occurred. If damage has occurred to crops, fences, or the property, Great River Energy will compensate the

landowner. In some cases, an outside contractor may be hired to restore the damaged property as near as possible to its original condition.

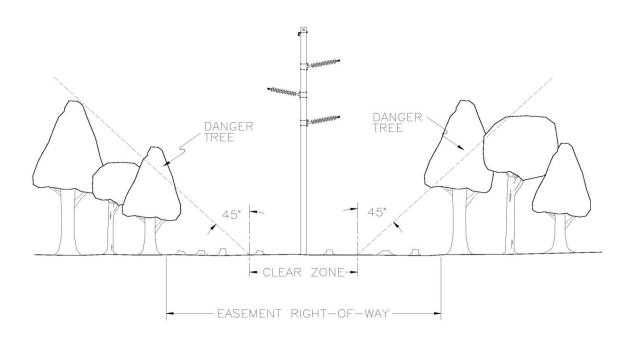
# **5.7** Operation and Maintenance

Access to the ROW of a completed transmission line is required to perform periodic inspections, conduct maintenance, and repair damage. Regular maintenance and inspections will be performed during the life of the transmission line to ensure its continued integrity. Generally, Great River Energy will inspect the condition of the transmission line and structures once per year. Inspections will be limited to the ROW and to areas where off-ROW access is required due to ROW obstructions or terrain impediments. If problems are found during inspection, repairs will be performed, and property restoration will occur, or the landowner will be provided reasonable compensation for any damage to the property.

The ROW will be managed to remove vegetation that interferes with the operation and maintenance of the transmission line. Shrubs that will not interfere with the safe operation or accessing and traversing the ROW of the transmission line will be allowed to reestablish in the ROW. Great River Energy will use an integrated vegetation management plan that incorporates a wire / border zone practice for ROW clearing and maintenance. As a general practice, low-growing brush, or tree species will be allowable at the outer limits (e.g., the "border zone") of the easement area. Taller tree species that endanger the safe and reliable operation of the transmission facility will be removed. In developed areas and to the extent practical, existing low-growing vegetation that will not pose a threat to the transmission facility or impede construction or maintenance may remain in the border zone, as agreed to during easement negotiations. The area below the outer conductors plus 10 to 15 feet (e.g., the "wire zone" or "clear zone") will be cleared of all shrubs and trees to ensure maintenance trucks can access the line and no vegetation interferes with the safe operation of the transmission line.

The NESC states that "vegetation that may damage ungrounded supply conductors should be pruned or removed." Trees beyond the easement area that are in danger of falling into the energized transmission line, could grow into the wire zone or are otherwise deemed to be a hazard to the safe operation of the line (e.g., "danger trees") may be removed or trimmed to eliminate the hazard as shown in **Diagram 5-1**, if allowed by the terms in the easement. Danger trees generally are those that are dead, diseased, weak, or leaning towards the energized conductors. Tree trimming may be possible to minimize tree removal based on negotiations with individual landowners.

**Diagram 5-1. Standard Tree Removal Practices during Transmission Line Operations** 



Great River Energy's practice generally provides for the inspection of 115-kV transmission lines every two years to determine if clearing is required. ROW clearing practices will include a combination of mechanical and hand clearing, along with herbicide application (where allowed), to remove or control vegetation growth.

The estimated annual cost of ROW maintenance and operation and maintenance of Great River Energy's transmission lines (69 kV to 500 kV) in Minnesota currently averages about \$2,000 per mile. Actual transmission line specific maintenance costs will depend on the environmental setting, the amount of vegetation management necessary, storm damage occurrences, structure types, age of the line, etc.

#### 5.8 Stray Voltage

"Stray voltage" is a condition that can occur on the electric service entrances to structures from distribution lines. More precisely, stray voltage is a voltage that exists between the neutral wire of the service entrance and grounded objects in buildings such as barns and milking parlors.

Transmission lines (like the Project) do not, by themselves, create stray voltage because they do not connect to businesses and residences. Transmission lines can, however, induce a current on a distribution circuit that is parallel and immediately under the transmission line. If a landowner has stray voltage concerns on their property, Great River Energy suggests they contact their electric

service provider to discuss the situation with technical staff, including the possibility of an on-site investigation.

#### 5.9 Corona

Under certain conditions, the localized electric fields (EF) near an energized transmission line conductor can produce small electric discharges, ionizing nearby air. This is commonly referred to as the "corona" effect. Most often, corona formation is related to some sort of irregularities on the conductor, such as scratches or nicks, dust buildup, or water droplets. The air ionization caused by corona discharges can result in the formation of audible noise and radio frequency noise.

Corona formation is a function of the conductor radius, surface condition, line geometry, weather condition, and most importantly, the line's operating voltage. As discussed in the subsections that follow, corona-induced audible noise and radio and television interference are typically not a concern for power lines with operating voltages below 161 kV (like the Project), because the EF intensity is too low to produce significant corona.

#### **5.9.1** Corona: Radio and Television Interference

Because the likelihood of significant corona formation on the Project is minimal, the likelihood of radio and television interference due to corona discharges associated with the Project is also minimal. Great River Energy is unaware of any complaints related to radio or television interference resulting from the operation of any of its existing 115 kV facilities and does not expect radio and television interference to be an issue along the Proposed Route.

#### 5.9.2 Corona: Audible Noise

Transmission lines can cause audible noise due to corona discharges from the conductors. The impacts and mitigation of audible noise due to the Project, including that due to corona, are discussed further in **Section 6.2.2**.

#### **5.9.3** Corona: Air Impacts

Corona can also produce ozone and oxides of nitrogen in the air surrounding the conductor. Ozone is a very reactive form of oxygen molecule that combines readily with other elements and compounds in the atmosphere, making it relatively short lived. Ozone forms naturally in the lower atmosphere from lightning discharges and from reactions between solar ultraviolet radiation and air pollutants such as hydrocarbons from auto emissions. The natural production rate of ozone is directly proportional to temperature and sunlight, and inversely proportional to humidity. Thus, the conditions that are most likely to cause corona formation on a transmission line – humid, rainy, or foggy conditions – actually inhibit the production of ozone.

Like audible and radio frequency noise, corona-induced ozone, and nitrogen oxides (NO) are typically not a concern for power lines like the Project with operating voltages below 161 kV because the EF intensity is too low to produce significant corona. Therefore, Great River Energy expects ozone and NO concentrations associated with the Project to be negligible, and well below

all federal standards (nitrogen dioxide (NO2) - 100 parts per billion (ppb) as one-hour average, 53 ppb as annual average; ozone 70 ppb as 8-hour average).  $^{10}$ 

<sup>&</sup>lt;sup>10</sup> "The Clean Air Act, which was last amended in 1990, requires USEPA to set National Ambient Air Quality Standards (40 CFR part 50) for six principal pollutants ("criteria" air pollutants) which can be harmful to public health and the environment. The Clean Air Act identifies two types of national ambient air quality standards. *Primary standards* provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings." https://www.epa.gov/criteria-air-pollutants/naaqs-table

#### **6 ENVIRONMENTAL ANALYSIS**

This portion of the Application provides a description of the human and environmental resources in the Project Area, potential impacts to these resources, and proposed mitigative measures. The Project Area is defined as the general area within an approximate 2-mile radius of the Project, unless otherwise defined in the following subsections.

#### **6.1** Environmental Setting

The Project lies in the Big Woods Subsection, Minnesota, and NE Iowa Morainal Section of the Eastern Broadleaf Forest Province, according to the MDNR Ecological Classification System. The MDNR describes the Big Woods as:

This subsection coincides with a large block of deciduous forest present at the time of Euro-American settlement. Topography characteristically is gently to moderately rolling across this subsection. Soils are formed in thick deposits of gray limey glacial till left by the Des Moines lobe. Northern red oak, sugar maple, basswood, and American elm were most common in this dominantly forested region. Presently, most of the region is farmed. 11

The environmental setting of the Project Area includes several hydrologic features, such as wetlands, ponds, streams, lakes, including Cedar Lake, Mud Lake, and Sand Creek. Land use within the Project Area is primarily agricultural and rural residential areas, with pockets of industrial/commercial development.

There are existing transmission lines within the Project Area. The CapX2020 transmission line is north of the Proposed Route along 260<sup>th</sup> St E / County Road 2. The Xcel Energy 0744 69-kV line runs west and south of the Project, and the Great River Energy MV-EVX 115-kV line, which would serve as the connection point for the Proposed Project, runs north-south to the east of the Project (**Figure 1-2**).

The landscape and characteristics of the Project area are further described in the following subsections and are depicted in **Figures 6-1** through **6-7**. The characteristics of the Project Area are typical of the surrounding areas and does not preclude development of this Project.

#### **6.2** Human Settlement

#### 6.2.1 Displacement/Proximity of Project to Businesses and Residences

No displacement of residential homes, structures, or businesses will occur as a result of this Project. The NESC and Great River Energy standards require certain clearances between transmission line structures and buildings or structures within the ROW for safe operation of the proposed

<sup>11</sup> https://www.dnr.state.mn.us/ecs/222Mb/index.html

transmission line (**Table 3.2-2**). Great River Energy believes the Proposed Route provides sufficient design flexibility and distances from existing homes and structures for a transmission line design that achieves the requisite clearances.

The nearest residences are located along Baseline Avenue and 280<sup>th</sup> St E / State Highway 19. The closest home is approximately 176 feet from the Proposed Alignment (see **page 2 of Appendix A**). **Table 6.2.1-1** summarizes the residential and non-residential buildings at various distances to the Proposed Alignment for the Project.

150-200 feet **Building Type** 0-50 feet 50-100 feet 100-150 feet Total Home 0 0 Business 0 0 1 1 2 7 Outbuilding 2 3 1 1 2 5 Total 2 10

Table 6.2.1-1. Building Distances from Proposed Alignment

#### Impacts and Mitigation

No residences or businesses are anticipated to be displaced by the Project. Great River Energy's new transmission line will be designed in compliance with local, state, NESC, and Great River Energy standards regarding clearance to ground, clearance to crossing utilities, clearance to buildings, strength of materials, and ROW widths.

Great River Energy will work with landowners to address alignment adjustments or pole placement, as necessary.

#### **6.2.2** Noise

There will be temporary noise associated with the construction phase of the Project, and from operation of the Project.

Because human hearing is not equally sensitive to all frequencies of sound, the most noticeable frequencies of sound are given more "weight" in most measurement schemes. The A-weighted scale corresponds to the sensitivity range for human hearing. Noise levels capable of being heard by humans are measured in dBA, which is the A-weighted sound level recorded in units of decibels.

A noise level change of 3 dBA is considered the lowest perceptible level to human hearing. A 5 dBA change in noise level is considered clearly noticeable. A 10 dBA change in noise level is perceived as a doubling of noise loudness, while a 20 dBA change is considered a dramatic change in loudness. **Table 6.2.2-1** shows noise levels associated with common, everyday sources.

Table 6.2.2-1. Common Noise Sources and Levels

Noise Source
Rock band at 5 meters
Jet flyover at 300 meters
Gas lawnmower at 1 meter
Food blender at 1 meter
Vacuum cleaner at 3 meters
Normal speech at 1 meter
Dishwasher next room, quiet urban daytime
Library, quiet urban nighttime
Bedroom at night
Quiet rural nighttime
Broadcast recording studio
Threshold of hearing

Source: Minnesota Pollution Control Agency. 2015. A Guide to Noise Control in Minnesota. Available online at: https://www.pca.state.mn.us/sites/default/files/p-gen6-01.pdf.

Established daytime and nighttime noise standards per Minnesota Rule 7030.0040 by Noise Area Classifications (NAC) are provided in **Table 6.2.2-2**. The standards are expressed as limiting levels of dBA within a one-hour period;  $L_{50}$  is the dBA not to be exceeded over 50 percent of the time (30 minutes) within an hour, while  $L_{10}$  is not to be exceeded over 10 percent of the time (6 minutes) within the hour.

Table 6.2.2-2. MPCA Noise Limits by Noise Area Classification (dBA)<sup>12</sup>

Applicable Noise Area Classification	Description	Daytime (7a – 10p)		Nighttime (10p – 7a)	
Classification	incation		$L_{10}$	$L_{50}$	$L_{10}$
1	Residential-type Land Use Activities	60	65	50	55
2	Commercial-type Land Use Activities	65	70	65	70
3	Industrial-type Land Use Activities	75	80	75	80

Land areas are assigned an NAC based on the land use activities at the location of the receiver and determine the noise standards applicable to that land use activity. The NAC is listed in the MPCA noise regulations to distinguish the categories. Residential areas, churches, educational and health services, and similar type land use activities are included in NAC 1; commercial-type land use activities are included in NAC 3.

Noise-sensitive receptors along the Project Route include residences, businesses, and churches.

#### Noise Related to Construction

Construction noise is generally expected to occur during daytime hours as the result of heavy equipment operation and increased vehicle traffic associated with the transport of construction

<sup>&</sup>lt;sup>12</sup> This table identifies the classifications potentially relevant to this Project. See Minn. R. 7030.0050 for the complete text of the rule.

personnel and materials to and from the work area. Construction activities will be performed with standard heavy equipment such as backhoes, cranes, boom trucks, and assorted small vehicles. Construction equipment noise levels will typically be less than 85 dBA at 50 feet when equipment is operating at full load <sup>13</sup> and will only occur when equipment is operating. Upon completion of construction activities, noise associated with construction equipment will cease.

#### Noise Related to Substation

No new substations will be constructed as part of the Project.

# Noise Related to Transmission Lines

The Project will include a switch where the Project connects to the existing 115-kV MV-EVX transmission line. A switch can cause short-term (i.e., a minute or less) noise during opening or closing of the switches. These events will be infrequent and not likely perceivable to local landowners. The switch noise will not be perceptible at the nearest residence, which is approximately 300 feet south and across 280<sup>th</sup> St E / County Road 86 (see **page 3 of Appendix A)**.

Operational noise levels produced by a 115-kV transmission line are generally less than outdoor background levels and are therefore not usually perceivable. As such, appreciable operational noise impacts are not anticipated as a result of the Project. Further, proper design and construction of the transmission line in accordance with industry standards will help to ensure that noise impacts are not problematic.

Transmission lines can generate a small amount of sound energy during corona activity where a small electrical discharge caused by the localized EF near energized components and conductors ionizes the surrounding air molecules. Corona is the physical manifestation of energy loss and can transform discharge energy into very small amounts of sound, radio noise, heat, and chemical reactions of the air components. Several factors, including conductor voltage, shape and diameter, and surface irregularities such as scratches, nicks, dust, or water drops can affect a conductor's electrical surface gradient and its corona performance.

Noise emission from a transmission line occurs during certain weather conditions. In foggy, damp, or rainy weather, power lines can create a crackling sound due to the small amount of electricity ionizing the moist air near the wires. During heavy rain, the background noise level of the rain is usually greater than the noise from the transmission line. As a result, people do not normally hear noise from a transmission line during heavy rain.

The industry standard for utilities is calculated based on L<sub>50</sub> and L<sub>5</sub> for audible noise emissions. The worst-case scenario is when the transmission line is exposed to heavy rain conditions (i.e., one inch per hour). Anticipated noise levels for heavy rain conditions for a typical 115-kV line based on the results from the Bonneville Power Administration Corona and Field Effects Program

https://www.fhwa.dot.gov/environment/noise/construction noise/handbook/handbook/0.cfm.

<sup>&</sup>lt;sup>13</sup> United States. Federal Highway Administration, 2006. FHWA highway construction noise handbook. No. DOT-VNTSC-FHWA-06-02; FHWA-HEP-06-015. Available online at:

version 3 (U.S. Department of Energy, Bonneville Power Administration, Undated) are listed in **Table 6.2.2-3**.

Table 6.2.2-3. Anticipated Transmission Line Noise Levels with Heavy Rain

$L_5$	$\mathbf{L}_{50}$	Location
17.7 dBA	14.2 dBA	edge of ROW
18.8 dBA	15.3 dBA	directly under line

The Project is located in a rural residential area. Ambient noise level in a rural residential area is about 40 dBA, day/night average sound level  $L_{dn}^{14}$ . As shown in **Table 6.2.2-4**, the noise contribution due to corona effects will result in a change of 0.0 dBA above ambient. This change will not be noticeable to the human ear.

Table 6.2.2-4. Anticipated Total Noise Levels Associated with Heavy Rain

Item	Sound Level (dBA)
Ambient Sound Level - Rural Residential	40.0
Sound Contribution of Project Corona (maximum calculated)	18.8
Sound Contribution of Corona Noise plus Ambient	40.0
Potential Increase above the Ambient Level	0.0

# **Impacts and Mitigation**

Noise associated with construction of the Project will be temporary in nature. To mitigate noise impacts associated with construction activities, work will generally be limited to daytime hours between 7 a.m. and 9 p.m. weekdays. Occasionally, there may be construction outside of those hours mentioned or on a weekend if Great River Energy has to work around customer schedules, line outages, or if the schedule has been significantly impacted due to permitting delays or other factors. Great River Energy will work with applicable stakeholders in the event construction becomes necessary outside of these hours. Heavy equipment will also be equipped, as required by local ordinances, with sound attenuation devices such as mufflers to minimize the daytime noise levels.

Operational noise levels are expected to be well below the state noise limits; therefore, the Project is not anticipated to contribute to an exceedance of noise standards, and no mitigation is proposed.

#### 6.2.3 Aesthetics

The proposed transmission line will be visible along the Proposed Route, similar to the Great River Energy 115-kV MV-EVX transmission lines in the Project Area. Portions of the Proposed Route already have overhead Minnesota Valley distribution lines. The majority of the structures will be wood poles approximately 60 to 90 feet above ground with spans between poles ranging from 300 to 400 feet.

<sup>&</sup>lt;sup>14</sup> USEPA. 1978. Protective Noise Levels

Where the Project overtakes distribution lines, it is Great River Energy's understanding that Minnesota Valley would likely decommission those lines and bury new lines rather than attaching the distribution lines as under-build to the Project's new structures. This would include locations along Baseline Avenue, and 280<sup>th</sup> St E/State Highway 19. Because the distribution lines are owned and maintained by Minnesota Valley, rather than Great River Energy, Great River Energy will not conduct or direct any activities related to the distribution lines. For reference, the location of existing distribution lines along the Proposed Alignment, 100-foot-wide ROW, and Proposed Route is depicted in **Appendix A**.

Design standards for a 115-kV line require taller structures than for distribution lines <sup>15</sup>. Where the Project overtakes the existing Minnesota Valley distribution lines, there will be fewer 115-kV structures than distribution structures because the taller structure heights allow for longer spans between structures.

The landscape in the Project area is a mix of agricultural land, rural residential, open space, commercial / industrial, and utility infrastructure (see **Section 6.4**). The visual effect will depend largely on the perceptions of the observers across these various landscapes but will remain similar to current conditions. Although the area already has existing distribution lines in the viewshed, the visual contrast added by the taller transmission structures and lines may be perceived as a visual disruption.

#### Impacts and Mitigation

Because the Project will utilize existing Minnesota Valley distribution line ROW along portions of Baseline Avenue, and 280<sup>th</sup> St E / State Highway 19, and will otherwise largely be collocated with existing utilities and parallel existing road ROW (see **Section 5.3**), aesthetic impacts are anticipated to be minimal. The existing Minnesota Valley distribution lines have been in place for a decade or more, as the area has developed. Visual impacts might be perceived by a viewer as less because Great River Energy anticipates that the existing distribution underbuild will be buried by the owner of those facilities and there will be fewer structures. The new transmission line structures will be 20 to 30 feet taller with larger insulators, which might increase the visual impacts perceived by a viewer.

Where trees need to be cleared, this change to the landscape is typically a noticeable visual impact to receptors. The Proposed Route was developed in part to minimize the amount of tree clearing, which helps to minimize visual impacts.

Great River Energy will work with landowners to identify concerns related to the transmission line and aesthetics. In general, mitigation includes enhancing positive effects as well as minimizing or eliminating negative effects. Potential mitigation measures include:

• Location of structures, ROW, and other disturbed areas will be determined by considering input from landowners to minimize visual impacts.

<sup>&</sup>lt;sup>15</sup> The existing 69-kV structures are typically approximately 50-60 feet above ground.

- Care shall be used to preserve the natural landscape. Construction and operation shall be conducted to prevent any unnecessary destruction, scarring, or defacing of the natural surroundings in the vicinity of the work.
- Landowners may be compensated for the removal of trees and vegetation based on easement negotiations.

Structures will be placed at the maximum feasible distance from trail and water crossings, within limits of structure design and applicable regulations.

#### **6.2.4** Socioeconomics & Environmental Justice

The socioeconomic setting of the Project Area was evaluated on a regional basis, comparing data for the Scott County, Rice County, and the State of Minnesota. No data was available for Helena or Cedar Lake Townships. Data compiled from the U.S. Census Bureau QuickFacts are summarized in **Table 6.2.4-1.** 

Table 6.2.4-1. Socioeconomic Characteristics within the Project Area<sup>16</sup>

Location	2020 Population	White Alone Population	Median Income (2017- 2021)	Percent Below Poverty Level	Language Other than English Spoken at Home (2017-2021)
State of Minnesota	5,706,494	78.1%	\$77,706	9.3%	12.1%
Scott County	150,928	78.2%	\$109,031	4.6%	13.5%
Rice County	67,097	80.2%	\$71,384	9.4%	13.1%

An environmental justice analysis for the Project was completed using the methodology in Minn. Stat. 216B.1691, subd. 1(e) (rev. 2023), which provides:

- (1) 40 percent or more of the area's total population is nonwhite;
- (2) 35 percent or more of households in the area have an income that is at or below 200 percent of the federal poverty level;
- (3) 40 percent or more of the area's residents over the age of five have limited English proficiency; or

<sup>&</sup>quot;Environmental justice area means an area in Minnesota that, based on the most recent data published by the United States Census Bureau, meets one or more of the following criteria:

<sup>&</sup>lt;sup>16</sup> Data Source: US Census QuickFacts, downloaded 04/17/2023: U.S. Census Bureau QuickFacts: United States

(4) the area is located within Indian country, as defined in United State Code, title 18, section 1151."<sup>17</sup>

Census tracts that intersect with the Proposed Route were analyzed for environment justice areas, consistent with this statute. Census tracts are the best approximation of a geographic area where adverse impacts can occur from the Project. Census tracts are shown in **Figure 6-1**. Scott County was used as a reference population for the census tracts.

**Table 6.2.4-2** identifies the minority populations by race and ethnicity, low-income populations, and populations with a language other than English spoken at home for Scott County and census tracts crossed by the Project Route. The most recent available data was used: U.S. Census 2021 American Community Survey 5-Year Estimate Data File# B17017, File# B03002, and File# DP02.

Table 6.2.4-2. Environmental Justice Data for Census Tracts Crossed by the Project Route<sup>18</sup>

County/Census Tract	2021 Population	Percent Total Minority <sup>a</sup>	Percent Below Poverty Level	Language Other Than English Spoken at Home (2017-2021)
<b>Scott County</b>	149,568	20.8	4.0	13.5
Census Tract 811.01	3,035	1.9	1.4	1.2
Census Tract 812	6,609	10.3	5.4	2.4
a "Minority" refers to	people who reported th	neir ethnicity and race	as something other tha	n non-Hispanic White.

No federally recognized Tribal Areas are crossed by the Project. As presented in **Table 6.2.4-2**, no census tracts within the Project Area are considered environmental justice communities under the definition provided in Minn. Stat. 216B.1691, subd. 1(e).

In addition, because analyses in prior Route Permit Applications have utilized this methodology, Great River Energy also conducted this environmental justice analysis in accordance with the U.S. Environmental Protection Agency (USEPA) Federal Interagency Working Group on Environmental Justice (EJ) and National Environmental Policy Act (NEPA) Committee's publication, Promising Practices for EJ Methodologies in NEPA Reviews (Promising Practices).

Using this methodology, the USEPA's Environmental Justice Screening Tool (EJScreen) was used as an initial step to gather information regarding minority and/or low-income populations; potential environmental quality issues; environmental and demographic indicators; and other important factors. The USEPA recommends that screening tools, such as EJScreen, be used for a "screening-level" look and a useful first step in understanding or highlighting locations that may

<sup>&</sup>lt;sup>17</sup> Although this statute does not prescribe requirements for a route permit application, Great River Energy employs this methodology here consistent with the methodology used by EERA in a recently issued EA. *See* Docket No. ET2/22-235.

<sup>&</sup>lt;sup>18</sup> Data Source: US Census 2021 ACS 5-Year Estimates Detailed Tables File# B03002, File #B17017, and File#DP02, downloaded 04/28/2023: https://data.census.gov/

require further review. EJScreen was used to evaluate the Proposed Route plus a 0.25-mile buffer. The tool's output indicated, "The area is too small or sparsely populated, or these data are not available in the national dataset. Cannot generate an EJScreen chart or report."

According to Promising Practices, minority populations are those groups that include American Indian or Alaskan Native; Asian or Pacific Islander; Black, not of Hispanic origin; or Hispanic. Following the recommendations set forth in Promising Practices, the 50 percent and the meaningfully greater analysis methods was used to identify minority populations. Using this methodology, minority populations are defined where either (a) the aggregate minority population of the block groups in the affected area exceeds 50 percent; or (b) the aggregate minority population in the block group affected is 10 percent higher than the aggregate minority population percentage in the county. The guidance also directs low-income populations to be identified based on the annual statistical poverty thresholds from the U.S. Census Bureau. Using Promising Practices' low-income threshold criteria method, low-income populations are identified as block groups where the percent of low-income population in the identified block group is equal to or greater than that of the county. Scott County is the comparable reference community to ensure that all affected environmental justice communities are properly identified.

**Table 6.2.4-3** identifies the minority populations by race and ethnicity and low-income populations within Minnesota, Scott County, and U.S. Census block groups crossed by the Project. U.S. Census 2021 American Community Survey 5-Year Estimate Data File# B17017 and File# B03002 for the race, ethnicity, and poverty data were analyzed at the block group level.

Table 6.2.4-3. Minority Populations by Race and Ethnicity and Low-Income Populations within the Project Area

State/County/Census Block Group	% White	African	% American Indian or Alaskan Native	% Asian	% Native Hawaiian/ Pacific Islander	Other Race	or	Latino	Minority	% Below Poverty Level
State of Minnesota	78.3	6.5	0.8	5.0	0.0	0.3	3.4	5.6	21.7	9.2
Scott County	79.2	4.8	0.4	6.2	0.0	0.3	3.7	5.5	20.8	4.0
Census Tract 811.01, Block Group 1	98.3	0.0	0.0	0.5	0.0	0.0	0.8	0.4	1.7	2.1
Census Tract 811.01, Block Group 3	99.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0
Census Tract 812, Block Group 4	95.6	0.4	0.0	0.5	0.0	1.5	1.2	1.0	4.6	2.4
<sup>a</sup> "Minority" refers to people who reported their ethnicity and race as something other than non-Hispanic White										

As presented in **Table 6.2.4-3**, no block groups are considered environmental justice communities.

#### <u>Impacts and Mitigation</u>

During construction, there may be short-term positive impacts to the nearby communities. Potential increases in local revenue may occur for businesses, such as hotels, grocery stores, gas stations and restaurants to support utility personnel and contractors.

Long term benefits of the Project include the ongoing reliable electrical services and the ability to serve existing and new local load growth. The benefits apply to the local community regardless of economic status, race, and personal identification.

There are no environmental justice communities impacted by the Project, so no environmental justice impacts are anticipated. Because impacts to socioeconomics will be generally short-term and beneficial, no mitigation is proposed.

#### **6.2.5** Cultural Values

#### **Scott County**

Cultural values include those perceived community beliefs or attitudes in a given area, which provide a framework for community unity. According to the Scott County 2040 Comprehensive Plan, Scott County is the youngest and fastest growing county in the state, and its population growth is anticipated to continue to outpace all other counties in Minnesota through 2040. Scott County has experienced considerable population growth and has become more urbanized and ethnically diversified over the past 50 years. The Scott County vision is described as a "well-planned, safe, prosperous and fiscally responsible community built by citizens and businesses who value neighborhoods, education, families, health, and public safety, and who enjoy its natural beauty, rural character, and location in the region." <sup>19</sup>

Scott County is an agriculturally based community; however, it has diversified with commercial, industrial, and housing developments. The Shakopee Mdewakanton Sioux Community is a federally recognized Indian Tribe that holds land in north-central Scott County, owns and operates the Mystic Lake Casino, and is one of the largest employers in Scott County. The County is home to several historical, scenic, and entertainment destinations including Canterbury Park, Murphy's Landing, Elko Speedway, Renaissance Festival, Valleyfair, and the aforementioned Mystic Lake Casino. Scott County has been working to expand outdoor recreational opportunities for its residents by preserving land to steward and conserve natural resources and wildlife habitat, and increasing funding and therefore services (e.g., new parks, trails, improved accessibility, infrastructure maintenance) associated with the regional park system.

Scott County also supports the use of renewable and alternative energy sources to reduce greenhouse gases and protect the natural environment.

<sup>&</sup>lt;sup>19</sup> 2040 Comprehensive Plan | Scott County, MN (scottcountymn.gov)

#### Rice County

Rice County, which is located to the south of Scott County, is considered a transitional area between south-central and southeastern Minnesota. It is more rural in character relative to Scott County, and much of the land use is agricultural for the production of corn and soybeans as well as livestock operations. The Rice County Vision statement states that "As Rice County grows and evolves into the future, we will support and encourage orderly growth and a diverse economy that will continue to create jobs and a high quality of life for our citizens. We will aspire to maintain the small town feel of our cities and preserve our agricultural heritage."<sup>20</sup>

Rice County is home to the Minnesota State Academies, St. Olaf College, and Carleton College. It boasts 13 parks within the park system totaling over 1,100 acres, in addition to open space such as Rossez Wildlife Area, Cannon River, Wildlife Management Areas, State Scientific and Natural Areas, conservation lands, farmed lands, and forest lands.

Similar to Scott County, Rice County also supports the use of renewable and alternative energy sources and has taken steps to become a more sustainable place for residents and visitors.

#### Impacts and Mitigation

Construction of the proposed Project is not expected to conflict with the cultural values of the area; therefore, no mitigation is proposed.

#### 6.2.6 Recreation

Recreational resources near the Proposed Route are shown on **Figure 6-2**.

Cedar Lake and the associated Cedar Lake Farm Regional Park in Scott County are located approximately 0.25 miles north of the existing Cedar Lake Substation. The Cedar Lake Farm Regional Park consists of picnic areas, trails, swimming, fishing areas, and public boat launches.<sup>21</sup>

The St. Patrick State Wildlife Management Area (WMA) is located to the west of Cedar Lake and is managed by the MDNR. This WMA encompasses approximately 87 acres of primarily wetlands with adjacent oak woodland and is managed for wetland species.<sup>22</sup>

The Creeksbend Golf Course in Scott County is located approximately 0.45 mile east of the Proposed Route along Baseline Avenue. It is an 18-hole golf course located within 230 acres of wooded, rolling hills and native prairies and 80 acres of ponds and wetlands.<sup>23</sup>

Fishing lakes within the Project Area in Scott County include Cedar Lake, Mud Lake, Nash Lake, and Dvorak Wildlife Pond.

<sup>&</sup>lt;sup>20</sup> 2021-Comp-Plan-Chapter-1---Introduction (ricecountymn.gov)

<sup>&</sup>lt;sup>21</sup> https://www.threeriversparks.org/location/cedar-lake-farm-regional-park

<sup>&</sup>lt;sup>22</sup> https://www.dnr.state.mn.us/wmas/detail\_report.html?id=WMA0015000

<sup>&</sup>lt;sup>23</sup> https://www.creeksbendgolfcourse.com/

There are several parks associated with the City of New Prague, located approximately 2 miles to the west, including Sliding Hill Stake Park, Heritage Park, Greenway Park, Settlers Park, Memorial Park, and New Prague Golf Club.

The Scott County Waterfowl Production Area (WPA) is crossed by the Proposed Route near the connection with Great River Energy's MV-EVX 115-kV line; however, the Proposed Alignment avoids structure placement within the WPA. This WPA is managed by the USFWS Minnesota Valley Wetland Management District.

There are several snowmobile trails in both Scott and Rice counties within the Project area, as shown in **Figure 6-2**.

# **Impacts and Mitigation**

The Proposed Alignment will cross over and parallel the local snowmobile trail along Baseline Avenue for about 1.8 miles (**Figure 6-2**). The existing Minnesota Valley distribution line already parallels this snowmobile trail, which will help to mitigate the transmission line's visual impacts. Great River Energy currently plans to construct the Project from October 2024 through May 2025. If construction activities will impact any of the snowmobile trails, Great River Energy will coordinate with the trail associations regarding any trail closures to mitigate impacts by assisting in finding alternate routes.

No impacts to local recreational activities are expected. Because no additional impacts to recreation are anticipated, no mitigation is proposed.

# **6.2.7** Public Services and Transportation

The Project is located in a principally agricultural and rural residential area. Private landowners in the Project Area have their own private wells and individual sewage treatment systems. The residents also have access to other utility services by various providers, including waste collection, natural gas, cable television, electricity, and telephone.

Several existing overhead transmission lines are located in the Project Area (see **Figure 1-3**), including the CapX2020 transmission line located to the north of the Proposed Route running eastwest along 260<sup>th</sup> St E. Xcel Energy's 69-kV 0744 transmission line runs north-south approximately 1.7 miles east of the Cedar Lake Substation. South of the City of New Prague, the line turns to the east and parallels the Proposed Alignment approximately 1.5 miles south of 280<sup>th</sup> Street / State Highway 19. In addition, Great River Energy's 115-kV MV-EVX transmission line runs north-south on Panama Ave / County Highway 23 to the east of the Project, which will serve as the connection point for the Project.

The Minnesota Pipeline Company maintains the MinnCan crude oil pipeline, which runs generally east-west through the northern portion of the Project Area. The Proposed Alignment would be collocated with this pipeline corridor for approximately 0.4 mile from the Cedar Lake Substation

to Baseline Avenue (**page 1 of Appendix A** $^{24}$ ). There is also an existing natural gas pipeline maintained by Northern Natural Gas Pipeline to the east and southeast of the Project Area. Other existing utilities, such as gas/oil pipelines and electric distribution lines, and site improvements, such as septic systems and wells, will be identified during survey activities.

The Proposed Route will follow existing distribution lines maintained by the Minnesota Valley along both Baseline Avenue and 280<sup>th</sup> St E / State Highway 19 (**pages 1-3 of Appendix A**). Currently, the Proposed Alignment will be located within the existing distribution line easement for about 2.5 miles.

The Proposed Route will parallel and/or intersect with several township, county, and state-managed roads and highways as described in **Table 6.2.7-1** and shown in the maps in **Appendix A**.

Table 6.2.7-1. Highways or Roads within the Project Area

Highway / Road Name	Jurisdiction	Parallel / Intersects	Traffic Volumes (SEQ # / Year) <sup>25</sup>		
Baseline Ave	Helena / Cedar Lake Township	Parallel	Not available		
270 <sup>th</sup> St W	Helena Township	Intersect	Not available		
280 <sup>th</sup> St E / State Highway 19	MnDOT	Parallel	8,057-9,120 (11009 and 10255, 2021)		
Teale Ave (N) / Leroy Ave (S)	Cedar Lake Township	Intersect	Not available		
Langford Ave / New Prague Blvd / State Highway 13	MnDOT	Intersect	4,079 (11008, 2021)		
Lake Ave	Wheatland Township	Intersect	Not available		
Joel D Lane	Cedar Lake Township	Intersect	Not available		
Kanabec Ave	Wheatland Township	Intersect	Not available		
Country Hollows Lane	Cedar Lake Township	Intersect	Not available		
Balsa Ave (N) / Jackson Ave or County Road 52 (S)	Cedar Lake Township / Rice County	Intersect	295 (32949, 2020 for Jackson Ave or County Road 52)		
Panama Ave / County Highway 23 (N) / Independence Ave / State Highway 19 (S)	Scott County (N) / MnDOT (S)	Intersect	1,850 (42172, 2018) / 3,750 (4745, 2018)		
280 <sup>th</sup> St E / County Road 86	Scott County	Parallel	Not available		

The Proposed Route parallels approximately four miles of 280<sup>th</sup> St E / State Highway 19, which is considered a principal arterial road in Scott County (**pages 2-3 of Appendix A**). The Proposed Route would also cross Langford Ave / New Prague Blvd / State Highway 13 (**page 2 of Appendix A**), which is also considered a principal arterial road. However, none of the highways or roads within the Project Area have been identified by Scott County as having current or forecasted daily traffic volume or congestion capacity issues.<sup>26</sup>

<sup>&</sup>lt;sup>24</sup> The MinnCan crude oil pipeline location is not provided on the maps in **Appendix A** because this is proprietary information.

<sup>&</sup>lt;sup>25</sup> Traffic Mapping Application (arcgis.com)

<sup>&</sup>lt;sup>26</sup> https://scottcountymn.gov/DocumentCenter/View/9908/Chapter-06-Transportation?bidId=

# **Impacts and Mitigation**

Great River Energy will coordinate Project construction schedules, including any outages, with Minnesota Valley to avoid and/or minimize disruptions to service in the area. Based on the location of other existing utilities and site improvements that are identified during survey activities, the transmission line will be designed to meet or exceed required clearances and pole locations. No structure locations will be placed on or near existing utilities, including the oil pipeline. Because the majority of the Proposed Route will follow existing utility and road ROW, no impacts to public services are anticipated and, therefore, no mitigation is proposed. Similarly, because the Project is primarily proposed to be routed in existing distribution line and road ROW, Great River Energy does not anticipate impacts to site improvements such as wells or septic systems.

Temporary access for construction of the transmission line would be along the transmission line ROW. Temporary and infrequent traffic impacts associated with equipment/material delivery and worker transportation will occur. Stringing the conductors and shield wire across roads can be accomplished with minimal traffic impacts. Typically, a pulling rope is simply carried across the road, which is then pulled overhead. Temporary structures may be installed inside or outside of road ROW to ensure pulling lines, shield wire, or conductors to have sufficient clearance over roads. Great River Energy or its contractors will work with the MnDOT through its application process for a Utility Accommodation Permit in MnDOT ROW and comply with all permit conditions. Applicable licenses where the line impacts county and local roads will also be obtained and complied with.

When appropriate, pilot vehicles will accompany the movement of heavy equipment. Traffic control barriers and warning devices will be used when appropriate. All necessary provisions will be made to conform to safety requirements for maintaining the flow of public traffic. Construction operations will be conducted to offer the least possible obstruction and inconvenience to the traveling public. Great River Energy or its contractors will plan and execute delivery of heavy equipment in coordination with the appropriate road authorities and in a manner that would avoid traffic congestion and reduce likelihood of dangerous situations along local roadways.

Given that the Project will primarily follow existing utility and road ROW, there will be minimal impacts to other utilities. To ensure that any short-term and infrequent traffic impacts are minimized, Great River Energy will coordinate with all affected road authorities and, to the extent practicable, schedule large material/equipment deliveries to avoid periods when traffic volumes are high.

# 6.3 Public Health and Safety

The Project will be designed in compliance with local, state, NESC, and Great River Energy standards regarding clearance to the ground, clearance to crossing utilities, strength of materials, and ROW widths. Construction crews and/or contract crews will comply with local, state, and NESC standards regarding installation of facilities and standard construction practices. Great River Energy's established safety procedures, as well as industry safety procedures, will be followed during and after installation of the transmission line, including clear signage during all construction activities. See **Chapter 5** for detailed discussions on construction practices and safety.

#### **6.3.1** Electric and Magnetic Fields

As it pertains to the Project, the term "EMF" refers to the extremely low frequency (ELF) decoupled electric and magnetic fields (MFs) that are present around any electrical device or conductor and can occur indoors or outdoors. EFs are the result of electric charge, or voltage, on a conductor. The intensity of an EF is related to the magnitude of the voltage on the conductor. MFs are the result of the flow of electricity, or current, traveling through a conductor. The intensity of a magnetic field is related to magnitude of the current flow through the conductor. Electric and MF can be found in association with transmission lines, local distribution lines, substation transformers, household electrical wiring, and common household appliances.

#### Electric Fields

Voltage on a wire produces an EF in the area surrounding the wire. The voltage on the conductors of a transmission line generates an EF extending from the energized conductors. The intensity of transmission line EFs is measured in kilovolts per meter (kV/m), and the magnitude of the EF rapidly decreases with distance from the transmission line conductors. The presence of trees, buildings, or other solid structures in the path of the field can also significantly reduce the magnitude of the EF. Because the magnitude of the voltage on a transmission line is near-constant (ideally within  $\pm 5$  percent of nominal), the magnitude of the EF will be near-constant regardless of the power flowing on the line.

Although there is no state or federal standard for transmission line EF exposures, the EQB developed a standard of a maximum EF limit of 8 kV/m at one meter (3.28 feet) above ground; this standard has been adopted by the Commission. Great River Energy has calculated the approximate EF for the Project's transmission configuration and estimates the peak magnitude of EF density to be well below the EQB standard at approximately 1.2 kV/m underneath the conductors, one meter above ground. **Table 6.3.1-1** summarizes the EFs calculated for the proposed single circuit transmission line. These EF calculations are also shown graphically in **Diagram 6-1**.

Table 6.3.1-1. Calculated Electric Fields (kV/M) for Proposed Alignment (One meter (3.28 feet) above ground)

	Max	Distance to Proposed Alignment – Electric Field (feet)										
Operating Voltage (kV)	Operating Voltage (kV)	-300	-200	-100	-50	-25	Max	25	50	100	200	300
69-kV	72.5	0.00	0.01	0.04	0.16	0.33	0.75	0.44	0.14	0.04	0.01	0.01
115-kV	120.75	0.01	0.02	0.07	0.25	0.53	1.20	0.70	0.22	0.07	0.02	0.01

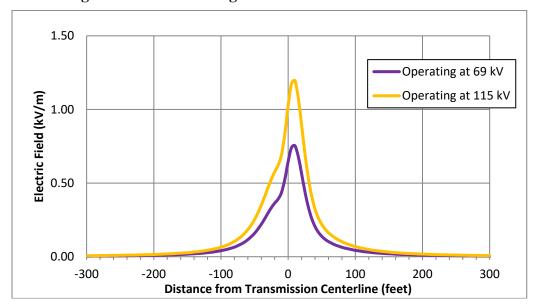


Diagram 6-1. 115-kV Single Circuit Line Electric Field Profile

# Induced Voltage

When an EF reaches a nearby conductive object, such as a vehicle or a metal fence, it can induce a voltage on the object. The magnitude of this voltage is dependent on many factors, including the object's capacitance, shape, size, orientation and location, resistance with respect to ground, and the weather conditions. If the object is insulated or semi-insulated from the ground and a person touches it, a small current could pass through the person's body to the ground. This might be accompanied by a spark discharge and mild shock, similar to what can occur when a person walks across a carpet and touches an object or person.

The main concern with induced voltage is not the magnitude of the voltage induced, but the current that would flow through a person to the ground should the person touch the object. To ensure the safety of persons in the proximity of high voltage transmission lines, the NESC requires that any discharge be less than five milliAmperes root mean square (mA rms). Great River Energy would ensure that any fixed conductive object in close proximity or parallel to the Project, such as a fence or other permanent conductive fixture, would be grounded so any discharge would be less than the 5 mA rms NESC limit.

#### Implantable Medical Devices

High intensity EMF can have adverse impacts on the operation of implantable medical devices (IMDs) such as pacemakers and defibrillators. While research has shown that the MFs associated with HVTLs do not reach levels at which they could cause interference with such devices, it is possible that the EFs associated with some HVTLs could reach levels high enough to induce sufficient body currents to cause interference.

Modern "bipolar" cardiac devices are much less susceptible to interactions with EFs. Manufacturers of pacemakers and other IMDs, have indicated that EFs below 6 kV/m are unlikely to cause interactions affecting operation of most of their devices. **Table 6.3.1-2** and **Diagram 6-1** 

show that the EFs for the Project are well below levels at which modern bipolar devices are susceptible to interaction with the fields.

The older "unipolar" designs of cardiac devices are more susceptible to interference from EFs. Research from the early 1990s indicates that the earliest evidence of interference with these types of IMDs could occur in EFs ranging from 1.2 to 1.7 kV/m. For older style unipolar designs, the EFs do exceed levels that research from the 1990s has indicated may produce interference. However, research conducted in 2005 concluded that the risk of interference to unipolar cardiac devices from high voltage power lines in everyday life is small. In 2007, Minnesota Power and Xcel Energy conducted studies with Medtronic, Inc. under 115-kV, 230-kV, 345-kV, and 500-kV transmission lines to confirm these 2005 findings. The analysis was based on real life public exposure levels under actual transmission lines in Minnesota and found no adverse interaction with pacemakers or IMDs. The analysis concluded that although interference may be possible in unique situations, device interference as a result of typical public exposure would be rare.<sup>27</sup>

In the unlikely event that a pacemaker is impacted, the effect is typically a temporary asynchronous pacing (commonly referred to as reversion mode or fixed rate pacing). The pacemaker will return to its normal operation when the person moves away from the source of the interference.

# Magnetic Fields

Current passing through any conductor, including a wire, produces a magnetic field in the area around the wire. The current flowing through the conductors of a transmission line generates a magnetic field that, in similar fashion to the EF, extends outward from the energized conductors. The intensity of the magnetic field associated with a transmission line is proportional to the amount of current flowing through the line's conductors, and the magnitude of the magnetic field rapidly decreases with the distance from the conductors. Unlike EFs, MFs are not significantly affected by the presence of trees, buildings, or other solid structures nearby. The value of the magnetic field density is expressed in the unit of gauss (G) or milligauss (mG).

There are no federal or Minnesota exposure standards for MFs. The EQB and the Commission have recognized Florida (a 150-mG limit) and New York (a 200-mG limit) state standards. Both state standards are to be considered at the edge of ROW. Studies of the health effects from MFs conclude that the evidence of health risk is weak.<sup>28</sup> The general standard is one of prudent avoidance.

MF levels associated with some common electric appliances are provided in **Table 6.3.1-2.** 

<sup>&</sup>lt;sup>27</sup> 2007 Minnesota Power Systems Conference Proceedings (University of Minnesota), *Electromagnetic Compatibility of Active Implantable Medical Devices (AIMD) and Their Interaction with High Voltage Power Lines*, at 23.

<sup>&</sup>lt;sup>28</sup> Minnesota Department of Health. *EMF White Paper on Electric and Magnetic Field* (EMF) Policy and Mitigation Options. 2002; National Research Council. *Possible Health Effects of Exposure to Residential Electric and Magnetic Fields*. 1997; www.niehs.nih.gov/health/topics/agents/emf/.

Table 6.3.1-2. Magnetic Fields of Common Electric Appliances (mG)<sup>29</sup>

	Distance from Source							
Appliance	6 inches	1 foot	2 feet					
Hair Dryer	300	1						
Electric Shaver	100	20						
Can Opener	600	150	20					
Electric Stove	30	8	2					
Television	NA	7	2					
Portable Heater	100	20	4					
Vacuum Cleaner	300	60	10					
Copy Machine	90	20	7					
Computer	14	5	2					

**Table 6.3.1-3** summarizes the MFs calculated for the proposed transmission line configuration with power flow at peak loading and at average loading. The magnetic field calculations are also shown graphically in **Diagram 6-2.** The maximum magnetic field under expected peak demand conditions is 9.85 mG, which is below most of the levels shown in **Table 6.3.1-3**.

Because the actual power flow on a transmission line could potentially vary throughout the day depending on electric demand, the actual magnetic field level could also vary widely from hour to hour. In any case, the typical magnitude of the magnetic field associated with the proposed transmission line is expected to be well below the calculated intensity at the expected peak loading.

Table 6.3.1-3. Calculated Magnetic Fields (mG) for Proposed Alignment Designs

Operati Max		Line	Distance to Proposed Alignment – Magnetic Field (feet)										
ng Voltage	Operating Voltage (kV)	Current (Amps)	-300	-200	-100	-50	-25	Max	25	50	100	200	300
69-kV Peak Load	72.5	75	0.10	0.22	0.80	2.48	5.38	9.85	6.36	2.83	0.87	0.23	0.10
69-kV Average Load	72.5	42	0.06	0.12	0.45	1.39	3.01	5.52	3.56	1.59	0.49	0.13	0.06
115-kV Peak Load	120.75	47	0.06	0.14	0.50	1.55	3.37	6.17	3.98	1.77	0.54	0.14	0.06
115-kV Average Load	120.75	26	0.03	0.08	0.28	0.86	1.87	3.41	2.20	0.98	0.30	0.08	0.04

<sup>&</sup>lt;sup>29</sup> EMF In Your Environment (USEPA 1992)

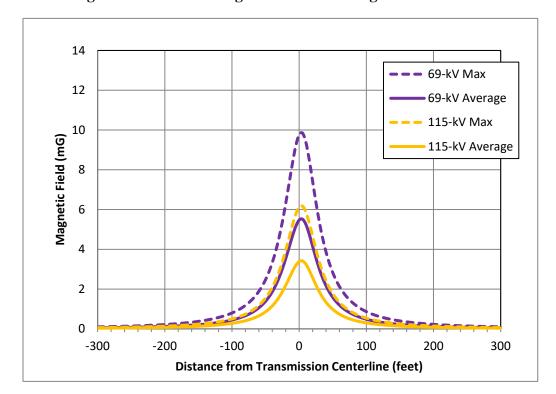


Diagram 6-2. 115-kV Single Circuit Line Magnetic Field Profile

# **Impacts and Mitigation**

Considerable research has been conducted since the 1970s to determine whether exposure to power-frequency, commonly referred to as "extremely-low frequency" or "ELF" (60 hertz), EFs and MFs can cause biological responses and adverse health effects. The multitude of epidemiological and toxicological studies has shown, at most, a weak association (i.e., no statistically significant association) between ELF-MF exposure and health risks and no association between ELF-EF exposure and health risks.

In 1999, the National Institute of Environmental Health Sciences (NIEHS) issued its final report on "Health Effects from Exposure to Power-Line Frequency Electric and Magnetic Fields" in response to the Energy Policy Act of 1992. In the report, the NIEHS concluded that the scientific evidence linking EMF exposures with health risks is weak and that this finding does not warrant aggressive regulatory concern. However, in light of the weak scientific evidence supporting some association between EMF and health effects and the fact that exposure to electricity is common in the United States, the NIEHS stated that passive regulatory action, such as providing public education on reducing exposures, is warranted. Other studies have come to similar decisions. 31

<sup>&</sup>lt;sup>30</sup> Report is available at http://www.niehs.nih.gov/health/topics/agents/emf/

<sup>&</sup>lt;sup>31</sup> Minnesota Department of Health. 2002. A White Paper on Electric and Magnetic Field (EMF) Policy and Mitigation Options; World Health Organization. 2007. Environmental Health Criteria Volume No. 238 on Extremely Low Frequency Fields

Based on findings like those of the Working Group and NIEHS, the Commission has consistently found that "there is insufficient evidence to demonstrate a causal relationship between EMF exposure and any adverse human health effects." This conclusion was further justified in the Route Permit proceedings for the Brookings Project. In the Brookings Project Route Permit proceedings, the Applicants (Great River Energy and Xcel Energy) and one of the intervening parties both provided expert evidence on the potential impacts of ELF-EF and ELF-MF, including the World Health Organization\_findings (2007). The ALJ in that proceeding evaluated written submissions and a day-and-a-half of testimony from the two expert witnesses. The ALJ concluded: "there is no demonstrated impact on human health and safety that is not adequately addressed by the existing State standards for [EF and MF] exposure." The Commission adopted this finding on July 15, 2010.<sup>34</sup>

No impacts to public health and safety are anticipated as a result of the Project. The Project will be designed in compliance with local, state, NESC, and Great River Energy standards regarding clearance to ground, clearance to crossing utilities, clearance to buildings, strength of materials, and ROW widths. The Cedar Lake Substation and other substations in the region are equipped with protective breakers and relays. The protective equipment is designed to de-energize the transmission line when needed. All substations are protected by barbed-wire-topped fencing. Signage attached to the fence lists the owner (Minnesota Valley owns the Cedar Lake Substation), provides a telephone contact number, and warns about electrical hazards within the substation.

Great River Energy will ensure that safety requirements are met during construction and operation of the facilities. Additionally, when crossing roads or railroads during stringing operations, guard structures will be utilized to eliminate traffic delays and provide safeguards for the public. With implementation of these safeguards and protective measures, no additional mitigation is proposed.

### 6.4 Land Use/Zoning

The existing Cedar Lake Substation and the Proposed Route west of Baseline Avenue are located in Helena Township, in Scott County. The Proposed Route from Baseline Avenue south to  $280^{th}$  St E / State Highway 19 is located with Cedar Lake Township, Scott County. Then, the Proposed Route follows  $280^{th}$  St E / State Highway 19, which corresponds with the Scott County / Rice County line. The Proposed Alignment crosses over the county line six times, with 2.0 miles on the north side in Cedar Lake Township, Scott County, and 2.0 miles on the south side in Wheatland Township, Rice County. The Project Area is to the east and outside of the City of New Prague.

<sup>&</sup>lt;sup>32</sup> See, for example, *In the Matter of the Application for a HVTL Route Permit for the Tower Transmission Line Project*, Docket No. ET-2, E015/TL-06-1624, Findings of Fact, Conclusions of Law and Order Issuing a Route Permit to Minnesota Power and Great River Energy for the Tower Transmission Line Project and Associated Facilities (August 1, 2007).

<sup>&</sup>lt;sup>33</sup> In the Matter of the Route Permit Application by Great River Energy and Xcel Energy for a 345 kV Transmission Line from Brookings County, South Dakota to Hampton, Minnesota, Docket No. ET-2/TL-08-1474, ALJ Findings of Fact, Conclusions and Recommendation at Finding 216 (April 22, 2010, and amended April 30, 2010)

<sup>&</sup>lt;sup>34</sup> In the Matter of the Route Permit Application by Great River Energy and Xcel Energy for a 345 kV Transmission Line from Brookings County, South Dakota to Hampton, Minnesota, Docket No. ET-2/TL-08-1474, Order Granting Route Permit (September 14, 2010)

The Project Area consists largely of agricultural and rural development land use patterns. Land cover along the Proposed Route is a mix of agriculture, residential, woodlands, and wetlands (**Figure 6-3**).

Zoning information for the Project Area is provided in **Figure 6-4**. The Project is zoned as follows:

- Scott County<sup>35</sup> / Helena Township Urban Reserve Districts
- Scott County / Cedar Lake Township Agricultural / Rural Districts, Residential Districts and Urban Reserve Districts
- Rice County<sup>36</sup> / Wheatland Township Agricultural

Per the Scott County and Rice County Zoning Ordinances, essential public services including transmission, utilities, and substations are allowable within these zones with a conditional use permit.<sup>37,38</sup>

### <u>Impacts and Mitigation</u>

Impacts to land use as a result of the Project are expected to be minimal, and construction of the line will not change land uses, particularly given that the Project will be located with existing utility and road ROW. Short-term agricultural impacts might occur during construction, which will be mitigated through restoration and compensatory payments (**Section 6.5.1**). Minimal impacts to residential land uses are anticipated; therefore, no additional mitigation is proposed.

#### 6.5 Land-based Economies

### 6.5.1 Agriculture

According to the 2017 U.S. Department of Agriculture (USDA) Census of Agriculture, Scott County has 740 individual farms with an average farm size of 156 acres and covers approximately 115,504 acres (52 percent) of the county. Over \$75 million was generated from both crop and livestock sales in 2017. Rice County has 1,242 individual farms with an average farm size of 182 acres and covers approximately 226,255 acres (69 percent) of the county. Over \$204 million was generated from both crop and livestock sales in 2017.

Agricultural lands within the Proposed Route consist primarily of pasture, hay, and cultivated lands (**Figure 6-3**). The transmission line ROW is not inconsistent for use as pasture, hay, or other crop cultivation. The Proposed Alignment will cross about 3.2 miles of agricultural land, which conservatively is 39.6 acres (within the 100-foot ROW)<sup>39</sup>. Accordingly, there will be negligible

<sup>35</sup> https://gis.co.scott.mn.us/sg3/#

<sup>&</sup>lt;sup>36</sup> https://www.ricecountymn.gov/DocumentCenter/View/385/Zoning-Map

<sup>&</sup>lt;sup>37</sup> https://www.scottcountymn.gov/DocumentCenter/View/1428/Zoning-Ordinance-No-3-?bidId=

<sup>&</sup>lt;sup>38</sup> https://mn-ricecounty.civicplus.com/DocumentCenter/View/393/Chapter-508-Zoning-Districts-Zoning-Map-and-Uses. Nonetheless, a Commission route permit preempts local zoning approvals. Minn. Stat. § 216E.10, subd. 1.

<sup>&</sup>lt;sup>39</sup> https://www.usgs.gov/programs/gap-analysis-project/science/land-cover-data-download

incremental impacts to pasture, hay, and cultivated lands. No organic farms will be impacted by the Project. 40, 41

# **Impacts and Mitigation**

Some agricultural land may be temporarily removed from production during transmission line construction. Determination of temporary agricultural impacts that will result from construction is dependent upon final engineering design. The acreage anticipated to be included in temporary construction access points includes some cultivated lands. Construction of the proposed transmission structures will require repeated access to structure locations to install the structures and to string conductors. Equipment used in the construction process will include backhoes, cranes, boom trucks and assorted small vehicles. Operation of these vehicles on adjoining farm fields can cause rutting and soil compaction, particularly during springtime and otherwise wet conditions.

Great River Energy will work with landowners to minimize impacts to agricultural activities along the Proposed Route and will compensate landowners for any crop damage / loss and soil compaction that may occur during construction. Areas disturbed during construction will be repaired and restored to pre-construction contours as required so that all surfaces drain naturally, blend with the natural terrain, and are left in a condition that will facilitate natural revegetation, provide for proper drainage, and prevent erosion.

Specific mitigation measures to be implemented include:

- Local roads will be used as practicable for moving equipment and installing structures.
- Where local roads cannot be used, movement of crews and equipment will be limited to the ROW to the greatest extent possible, including access to the route. Contractors employed by Great River Energy will limit movement on the ROW to minimize damage to grazing land or property. If movement outside of the ROW is necessary during construction, permission will be obtained, and any damage will be paid to the landowner.
- Construction will be scheduled during periods when agricultural activities will be minimally affected to the extent possible, or the landowner will be compensated accordingly.
- Ruts that are hazardous to agricultural operations will be repaired or compensation will be provided as an alternative if the landowner desires. Such ruts will be leveled, filled, and graded or otherwise eliminated in an approved manner. In the pasture area, compacted soils will be loosened and ruts will be leveled by scarifying, harrowing, discing, or by other approved methods. Damage to ditches, terraces, roads, and other features of the land will be corrected using approved methods and indigenous plants where necessary. The land and facilities will be restored as nearly as practicable to their original conditions.

<sup>&</sup>lt;sup>40</sup> https://www.mda.state.mn.us/organic-farm-directory-county

<sup>41</sup> https://organic.ams.usda.gov/integrity/

- ROW easements will be purchased through negotiations with each landowner affected by the Project. Restoration or compensation will subsequently be made for reasonable crop damages or other property damages that occurs during construction or maintenance as negotiated.
- Fences, gates, and similar improvements that are removed or damaged will be promptly repaired or replaced.

Some temporary construction space will be needed for the Project. For temporary marshalling yards, which will provide space to store material and equipment, and temporary space needed for pulling equipment, Great River Energy will work with local landowners to lease the space by agreement with the respective landowner(s), remove and properly dispose of all material and debris, and repair all damages and perform restoration, as necessary. It is anticipated that minimal temporary construction space on property immediately adjacent to the ROW and on private property will be needed, with the exception of limited equipment access and pulling areas.

### 6.5.2 Forestry

Forested areas are shown in the Detailed Route Maps provided in **Appendix A**. Based on available aerial photographs, Great River Energy will clear approximately 16.7 acres of trees over approximately 2.1 miles within the 100-foot-wide ROW. **Table 6.5.2-1** shows the length of tree clearing where the Proposed Alignment is parallel to existing roads and utilities (i.e., within the Route Width) and collocated with existing roads and utilities (i.e., within 50 feet either side of the Proposed Alignment). Trees are located on private property.

Table 6.5.2-1. Tree Clearing along Proposed Alignment

Utility / Road Type	Parallel (within Proposed Route) (miles)	Collocated with Proposed Alignment (miles)	Source
Electric Transmission / Distribution Lines	1.34	0.35	Minnesota Valley Distribution Lines (personal communication, February 2023); https://resources.gisdata.mn.gov/pub/gdrs/data/pub/us_mn_state_mngeo/util_elec_trans/met adata/metadata.html (2021)
Oil and Gas Pipelines	0.09	0.08	Proprietary information
Roads	2.02	0.07	https://mndot.maps.arcgis.com/apps/View/ind ex.html?appid=ed7c29124e56472cbfba2d0cc 3c557e2 (Undated)
Total (miles)	3.45	0.50	

Notes: Collocation is defined as any road or utility located within 50 feet either side of the Proposed Alignment based on the proposed clearing width.

### <u>Impacts and Mitigation</u>

Because the Project will largely be collocated and parallel with existing utility and road ROWs, there will be minimal incremental impacts from the construction and maintenance of the Project. The ROW will need to be maintained for the safe and reliable operation of the transmission line. Mitigation measures for potential impacts to forest resources would be as follows:

- Compensation for the removal of vegetation in the ROW will be offered to landowners during easement negotiations.
- Landowners will be given the option to keep any portions of the trees (e.g., timber, branches, chips, shreds) cut within the easement area.

### 6.5.3 Tourism

Tourist destinations near the proposed route include the Cedar Lake Farm Regional Park, Creeksbend Golf Course, rivers, and lakes. Popular activities include fishing, boating, swimming, biking, hiking, camping, hunting, snowmobiling, and golfing.

# **Impacts and Mitigation**

The Proposed Route avoids many of the areas that would be considered tourist destinations, and the Project would not preclude tourism activities or appreciably diminish the use or experience at tourist destinations. Minimal tree clearing may be required, but if it is, it would be adjacent to existing ROWs and should not affect wildlife viewing opportunities.

As no impacts on tourism are anticipated, no mitigation is proposed.

### **6.5.4** Mining

There is an active gravel mine located at 12668 New Prague Boulevard (a.k.a. 280<sup>th</sup> St E / State Highway 19) approximately 500 feet east of where the Proposed Alignment crosses over 280<sup>th</sup> St E / State Highway 19 (**page 2 of Appendix A**). According to MnDOT gravel pit and prospect mine data, there are three gravel pits in the vicinity of the Project; the active mine is not listed in the MnDOT data. Two gravel pits are located approximately 1,800 and 3,000 feet west of the Proposed Route. One gravel pit is located approximately 4,600 feet north of the west side of the Proposed Route. Based on review of current aerial imagery and historical aerial imagery, no gravel pits appear to be present and active at these three locations. No other mining activity is present in the vicinity of the Project.

The Project will not inhibit ongoing mining activities at the mine located on New Prague Boulevard. As no impacts to mining are anticipated, no mitigation is proposed.

<sup>&</sup>lt;sup>42</sup> https://www.dot.state.mn.us/materials/aggsource.html. Accessed May 17, 2023.

### 6.6 Archaeological and Historic Resources

A cultural resource literature review of the Proposed Route and a one-mile buffer was conducted by Merjent, Inc. (Merjent). This literature review and Merjent's evaluation of the possible effects of the proposed Project on historic properties in the Project Area was provided to the Minnesota SHPO in a letter dated May 10, 2023 (**Appendix D**<sup>43</sup>); SHPO response to this letter is pending. The following summarizes the results of the literature review.

On Friday, April 28, 2023, Merjent retrieved cultural resources site (i.e., archaeological sites and historic structures) and previous survey files from the SHPO. Merjent Cultural Resource Specialists reviewed archaeological site files on the OSA online portal, as well as the General Land Office (GLO) maps and available historical aerial photography accessed online through the OSA Portal.<sup>44</sup>

According to the OSA and SHPO files, there is one archaeological site that minimally intersects the Project Route. This site is an alpha site, meaning that it was identified by historic documentation and has not been verified in the field by a professional archaeologist. Due to the imprecise locational information of this site, alpha site boundaries are likely larger than they would be if the site was physically located. It is unlikely that this site would have intact deposits where it intersects the current Project given that the point of intersect is a small portion of an existing ROW.

There is one additional archaeological site within one mile of the Project; however, it is at least 1,000 feet from the Project Route. Due to distance, there will be no impact to this site. This site is described as a small lithic scatter initially identified in 2001.

Four historic buildings and structures are located within the Project Area, with one overlapping the Project Route. Trunk Highway 19 (i.e., 280<sup>th</sup> St E / State Highway 19) is a linear resource which the Project intersects at various points. Given that this is an aboveground transmission line, these intersections will not impact the resource. Poles supporting the existing Minnesota Valley distribution lines are visible from Trunk Highway 19. Because the Project is collocated and parallels existing utility and road ROWs, it will not result in an appreciable change in viewshed.

The remaining historic buildings and structures will not be impacted due to distance. The remaining buildings and structures include a farmstead, a log outbuilding associated with a farmstead, and a bridge.

Merjent reviewed nineteenth century GLO maps and notes on file with the Bureau of Land Management. The GLO map of the Project Area illustrated conditions in 1870 as being prairie with many lakes and connecting streams and rivers. An unnamed trail is present near Cedar Lake. Aerial photographs from 1937 show that roads have been constructed and farms have been

<sup>&</sup>lt;sup>43</sup> The maps provided to the SHPO are not included in the correspondence provided in **Appendix D** because they include sensitive cultural resource data protected by the Archaeological Resources Protection Act of 1979 (16 United States Code 470hh, as amended), and National Park Service and Related Programs (54 United States Code 300101, formerly known as the National Historic Preservation Act, 16 United States Code 470-1).

<sup>&</sup>lt;sup>44</sup> OSA Portal. 2023. https://osa.gisdata.mn.gov/OSAportal. Accessed April 28, 2023.

<sup>&</sup>lt;sup>45</sup> Bureau of Land Management General Land Office Records. 2023. https://glorecords.blm.gov/.

established with agricultural fields dominating the landscape. There is no trace of the GLO trail on historic aerials, by 1937 it had been superseded by roads and fields. Subsequent historic and modern aerial photographs show that the landscape of the Project Area has remained largely the same since that time, with roads being the main addition to the area.

Great River Energy requested feedback on the Project from the 11 federally recognized Tribes with geography within Minnesota and the Minnesota Indian Affairs Council in its Project notification letters sent in April 2023. To date, no Tribe has conveyed concerns regarding the Project. These correspondences are included in **Appendix D**.

### Impacts and Mitigation

Two total archaeological sites and four historic buildings and structures were identified within the Project Area. There is potential for historic-era sites within the Project Area because the area has been inhabited at least since the 1930s; however, given that the Project is an overhead transmission line project proposed mostly within an already disturbed ROW, there is a low potential for intact historic sites. Given the lack of previous survey and that the Project Area will intersect an archaeological site and a historic structure, Great River Energy will conduct a Phase I Archaeological Reconnaissance of the final route.

If any archaeological sites are identified during placement of the poles along the permitted Route, construction work will be stopped and SHPO staff consulted as to how to proceed. If human remains are encountered during construction activities, all ground disturbing activity will cease, and local law enforcement will be notified per Minn. Stat. § 307.08.

#### **6.7** Natural Environment

### 6.7.1 Air Quality

### Criteria Pollutants

The Clean Air Act (42 USC 7401 et seq. as amended in 1977 and 1990) is the principal federal statute governing air pollution. Under the Clean Air Act, the USEPA set National Ambient Air Quality Standards (NAAQS) for six "criteria" pollutants considered harmful to public health and the environment: carbon monoxide (CO), ozone, NO2, sulfur dioxide (SO2), lead, particulate matter equal to or less than 10 microns in diameter (PM10), and fine particulate matter equal to or less than 2.5 microns in diameter (PM2.5). The NAAQS include primary standards that are designed to protect human health and secondary standards that are intended to protect public welfare, including visibility and damage to crops and vegetation.

The USEPA and state agencies operate a system of air quality monitoring stations. Data from these monitoring stations are compared to the NAAQS to categorize the air quality of a particular area. Regions of the country that do not meet the NAAQS are designated as "nonattainment" areas. Some areas of the country do not have extensive air quality monitoring networks and are considered "unclassifiable." Unclassifiable regions are presumed to be in attainment with the NAAQS. Both Rice and Scott counties are designated as in attainment or unclassifiable for the NAAQS (40 CFR Part 81.324).

### **Emissions Related to Construction**

During construction, temporary air emissions will occur from the operation of construction equipment, vehicular traffic, and soil disturbance. Construction activities will be performed with standard heavy equipment such as backhoes, cranes, boom trucks, and assorted small vehicles over the course of a six-month period starting fall 2024.

**Table 6.7.1-1** summarizes the estimated potential emissions of criteria pollutants from construction activities for the Project. Construction emissions are based on typical counts of diesel-fueled construction equipment, expected hours of operation, and estimated vehicle miles traveled. Detailed emission calculations are provided as **Appendix F**.

VOC a Description **NO**x CO  $SO_2$ PM<sub>2.5</sub>  $PM_{10}$ Off-Road Engine Emissions 5.12 1.50 0.36 0.00 0.21 0.20 Unpaved Roads 1.58 0.16 Earthmoving 8.00 0.84 TOTAL 5.12 1.50 0.36 0.00 9.79 1.21 Volatile organic compounds.

Table 6.7.1-1. Construction Emissions of Criteria Pollutants (tons per year)

### **Emissions Related to Operation**

The only potential air emissions from a transmission line result from corona, which may produce ozone and oxides of nitrogen. This can occur when the EF intensity exceeds the breakdown strength of the air. For a 115-kV transmission line, the conductor surface gradient is typically below the air breakdown level. As such, it is unlikely that any measurable emissions would occur from the conductor surface.

### Impacts and Mitigation

Temporary and localized air quality impacts caused by construction vehicle emissions and fugitive dust from ROW clearing and construction are expected to occur. Exhaust emissions from diesel equipment will vary during construction but will be minimal and temporary. The magnitude of emissions is influenced heavily by weather conditions and the specific construction activity taking place. Appropriate dust control measures will be implemented, including but not limited to:

- Reduced speed limits on Mullen Road, which is unpaved, and water or other non-chloride-containing dust suppression applications;
- Water application to the right-of-way if erosion occurs during dry weather;
- Street sweeping where soils are tracked onto paved roads; and
- If the right-of-way is wet during construction activities, vehicle tracking of soil from the right-of-way will be minimized by using wooden or plastic matting at access points.

At the completion of construction activities, all construction-related air impacts would cease.

No impacts to air quality are anticipated due to the operation of the transmission line.

### **Greenhouse Gas Emissions**

The State of Minnesota is taking significant action to reduce the amount of greenhouse gas emissions produced in the state. As of 2020, Minnesota has experienced a 23% reduction in greenhouse gas emissions across all industry sectors.<sup>46</sup>

Construction of the transmission line will result in temporary minor greenhouse gas emissions from fuel combustion in construction equipment, commuter vehicles, and delivery trucks. **Table 6.7.1-2** summarizes the estimated potential emissions of greenhouse gas from construction activities for the Project. Emissions are based on typical counts of diesel-fueled construction equipment, expected hours of operation, and estimated vehicle miles traveled. Detailed emission calculations are provided as **Appendix G**. At the completion of construction activities, all construction-related air impacts would cease.

**Table 6.7.1-2. Preliminary Estimate: Greenhouse Gas Emissions** 

Description	CO <sub>2</sub> (Short Tons)	CH <sub>4</sub> (Short Tons)	N <sub>2</sub> O (Short Tons)	CO <sub>2</sub> e (Short Tons)
Off-Road Engine Emissions	171.49	0.01	0.00	172.07
Commuters and Delivery Vehicles	114.83	0.00	0.00	114.83
TOTAL	286.32	0.01	0.00	286.90

#### Notes:

CO<sub>2</sub> – carbon dioxide

 $CH_4$  – methane; 1 short ton  $CH_4$  = 25 short tons  $CO_2e$ 

 $N_2O$  – nitrous oxide; 1 short ton  $N_2O$  = 298 short tons  $CO_2e$ 

CO<sub>2</sub>e – carbon dioxide equivalent

Source: 40 CFR 98 Table A-1: https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-98#Table-A-1-

to-Subpart-A-of-Part-98

The Project does not include expanded services or increased system capacity. As such, there will be no changes to upstream or downstream greenhouse gas emissions during operation of the transmission line.

### Impacts and Mitigation

EPA's Greenhouse Gas Reporting Tool<sup>47</sup> shows emissions within Minnesota totaled 34,929,605 metric tons of carbon dioxide equivalent (CO<sub>2</sub>e) (38,502,906 tons) in 2020. Accordingly, the preliminary estimate of Project greenhouse gas emissions identified here would be negligible.

<sup>&</sup>lt;sup>46</sup> MPCA DOC. January 2023. Greenhouse gas emissions in Minnesota 2005-2020. Available online at: https://www.pca.state.mn.us/sites/default/files/lraq-2sy23.pdf.

<sup>47</sup> https://ejscreen.epa.gov/mapper/

Great River Energy will mitigate vehicle emissions by limiting vehicle idling to only times when necessary.

### Climate Resiliency

Climate change is the change in global or regional climate patterns over time. Changes in average precipitation or temperature over years or decades may indicate climate change. Generally, Minnesota's climate already is changing will continue to do so. Noticeable effects into the future include warmer periods during winter and at night, increased precipitation, heavier downpours, increased summer heat, and the potential for longer dry spells.<sup>48</sup>

From 1895 to 2022, Scott County has experienced an increase in temperature of 0.17 degrees Fahrenheit (°F) per decade and an increase in precipitation of 0.36 inch per decade. During the same period, Rice County has experienced an increase in temperature of 0.15 °F per decade and an increase in precipitation of 0.61 inch per decade.<sup>49</sup>

# Impacts and Mitigation

Climate change could result in an increased risk of flooding in the Project Area, increased temperatures, extreme weather events such as high winds, and excessive rainfall. The Project as proposed will be designed to withstand these changes and will increase reliability in the Project Area. Great River Energy is actively assessing risks to the reliable operation of its transmission system from the potential impacts of climate change and is working on opportunities to mitigate those risks. Over the last three years, Great River Energy has invested over \$67 million dollars in transmission resiliency improvement projects.

### **6.7.2** Water Resources

Hydrologic features in the Project Area and along the Proposed Route are shown in **Figure 6-5**. Hydrologic features such as wetlands, lakes, rivers, and floodplains perform several important functions within a landscape, including flood attenuation, groundwater recharge, water quality protection, and wildlife habitat production. The Project lies within the Minnesota River - Shakopee watershed, in the northeast portion of the Minnesota River Basin.<sup>50</sup>

## Groundwater

The MDNR divides Minnesota into six groundwater provinces. The Project is located in the South-central Province, which is characterized by fine-grained glacial sediment such as clay and silt. Sedimentary bedrock aquifers are common and frequently used, while only limited extents of surficial and buried sand aquifers are present.<sup>51</sup>

<sup>&</sup>lt;sup>48</sup> https://www.dnr.state.mn.us/climate/climate change info/climate-trends.html

<sup>&</sup>lt;sup>49</sup> https://arcgis.dnr.state.mn.us/ewr/climatetrends

<sup>&</sup>lt;sup>50</sup> https://www.dnr.state.mn.us/watersheds/map.html

<sup>&</sup>lt;sup>51</sup> https://www.dnr.state.mn.us/groundwater/provinces/index.html

### Lakes or Ponds

There are no lakes or ponds<sup>52</sup> crossed by the Proposed Alignment; however, two ponds are located within the Proposed Route (**Figure 6-5**). One pond is 165 feet south of the Proposed Alignment and south side of 280<sup>th</sup> St E / State Highway 19, just east of Kanabec Avenue (**page 3 of Appendix A**). The second pond<sup>53</sup> is located 65 feet north of the Proposed Alignment, north of 280<sup>th</sup> St E / State Highway 19 and between Panama Ave / County Highway 23 and Great River Energy's MV-EVX 115-kV transmission line (**page 3 of Appendix A**).

A number of lakes and ponds are also in close proximity to the Proposed Route. The next closest pond is located on the southern edge of the Proposed Route, south of 280<sup>th</sup> St E / State Highway 19, approximately 1,500 feet west of Kanabec Avenue (**page 2 of Appendix A**). The closest lake is Cedar Lake which is located approximately 1,200 feet north of the western end of the Proposed Route (**Figure 6-5**).

In addition, a large shallow, open water wetland community<sup>54</sup> is located at the northern edge of the Proposed Route, north of  $280^{th}$  St E / State Highway 19 and situated between Jackson Ave / Balsa Ave and Panama Ave / County Highway 23. This wetland community falls within the Scott County WPA (page 3 of Appendix A).

The MDNR holds a flowage easement across portions of Township 113, Section 25, Range 23 south of Cedar Lake and west of Baseline Avenue in Scott County. In 1936, the MDNR Division of Waters purchased a flowage easement across these properties (**Figures 1-2 and 6-5**). MDNR has the right to flow waters on these properties but has no other management or ownership interest. Communication regarding this area is included in **Appendix D**.

### **Rivers and Streams**

Rivers and streams intersect the Proposed Route at six locations<sup>55</sup> (**Figure 6-5**). Four rivers and streams intersect the Proposed Alignment (see **pages 1-3 of Appendix A**), and two additional stream segments are located within the Proposed Route but are not crossed by the Proposed Alignment (see **pages 1 and 2 of Appendix A**). All streams are unnamed tributaries to Sand Creek which is approximately 4,500 feet to the west at its closest point from the Proposed Route (**Figure 6-5**).

<sup>&</sup>lt;sup>52</sup> MDNR Division of Fish & Wildlife – Fisheries Unit. DNR Hydrography Dataset. 4/13/2023. https://gisdata.mn.gov/dataset/water-dnr-hydrography

<sup>&</sup>lt;sup>53</sup> MDNR. National Wetland Inventory for Minnesota. 5/23/2019. https://gisdata.mn.gov/dataset/water-nat-wetlands-inv-2009-2014

<sup>&</sup>lt;sup>54</sup> MDNR. National Wetland Inventory for Minnesota. 5/23/2019. https://gisdata.mn.gov/dataset/water-nat-wetlands-inv-2009-2014

<sup>&</sup>lt;sup>55</sup> MDNR Division of Fish & Wildlife – Fisheries Unit. DNR Hydrography Dataset. 4/13/2023. https://gisdata.mn.gov/dataset/water-dnr-hydrography

#### **Public Waters**

Public Waters are wetlands, water basins and watercourses of significant recreational or natural resource value in Minnesota as defined in Minn. Stat. § 103G.005. The MDNR has regulatory jurisdiction over these waters, which are identified on the MDNR Public Waters Inventory maps. <sup>56</sup>

The Proposed Route intersects MDNR Public Waters at three locations<sup>57</sup> (**Figure 6-5**). Two public waters cross the Proposed Alignment (**pages 1 and 3 of Appendix A**) and one additional public water meanders into and out of the Proposed Route approximately 110 feet from the Proposed Alignment (**page 2 of Appendix A**). The crossed public waters are watercourses that are unnamed tributaries to Sand Creek, which is also a Public Water Watercourse.

### **Impaired Waters**

Section 303(d) of the Federal Clean Water Act requires states to publish, every two years, a list of streams and lakes that are not meeting their designated uses because of various impairments. The list, known as the 303(d) list, is based on violations of water quality standards and listed waters are described as "impaired." In Minnesota, the MPCA has jurisdiction over determining 303(d) waters. There are no impaired waters crossed by the Proposed Route (**Figure 6-5**). The closest impaired waters<sup>58</sup> are Cedar Lake and Sand Creek. Cedar Lake is approximately 1,200 feet north of the Proposed Route and is listed as impaired for aquatic consumption and aquatic life due to mercury in fish tissue and nutrient/eutrophication biological indicators. Sand Creek is approximately 4,500 feet west of the Proposed Route and listed as impaired for aquatic life due to chloride, nutrient/eutrophication biological indicators, and turbidity.

#### Wetlands

Wetlands are important resources for flood abatement, wildlife habitat, and water quality. Wetlands that are hydrologically connected to the nation's navigable rivers are protected federally under Section 404 of the Clean Water Act. In Minnesota, wetlands are also protected under the Wetland Conservation Act.

The USFWS produced maps of NWI wetlands based on aerial photographs and Natural Resources Conservation Service (NRCS) soil surveys starting in the 1970s. The NWI data were further updated for the state of Minnesota through a multi-agency effort lead by the MDNR and were published in 2019.<sup>59</sup> Wetlands identified by the Minnesota NWI may be inconsistent with current wetland conditions; however, Minnesota NWI data is the most accurate and readily available database of wetland resources within the Project Area and were therefore used to identify wetlands occurring within the Proposed Route. This analysis was conducted prior to the U.S. Supreme Court's decision in *Sackett v. Envtl. Protection Agency*, which was released on May 25, 2023.

<sup>&</sup>lt;sup>56</sup> https://www.dnr.state.mn.us/waters/watermgmt\_section/pwi/maps.html

<sup>&</sup>lt;sup>57</sup> MDNR Division of Ecological and Water Resources. Public Waters (PW) Basin and Watercourse Delineations. 6/10/2020. https://gisdata.mn.gov/dataset/water-mn-public-waters

<sup>&</sup>lt;sup>58</sup> Minnesota Pollution Control Agency. Impaired Waterbodies. 5/4/2022. https://gisdata.mn.gov/dataset/envimpaired-water-2022

<sup>&</sup>lt;sup>59</sup> https://www.dnr.state.mn.us/eco/wetlands/nwi proj.html

Analysis of Project impacts to wetlands and related regulatory requirements may be updated based on that decision and any related agency guidance.

The Project Route crosses a number of discrete wetland communities and wetland complexes.<sup>60</sup> Wetland Cowardin classifications crossed include Palustrine Forested (PFO), Palustrine Scrub-Shrub (PSS), and Palustrine Emergent (PEM). The Proposed Alignment cumulatively crosses 1,530 feet (0.29 mile) of PFO wetland, 637 feet (0.12 mile) of PSS wetland, and 5,742 feet (1.09 miles) of PEM wetland (pages 1-3 in Appendix A).

# <u>Impacts and Mitigation</u>

#### Groundwater

No impacts to groundwater in the Project Area are anticipated. Dewatering activities are not expected for this Project, and any effects on water tables would be localized and short term and would not affect hydrologic resources.

### Lakes, Rivers, and Streams

There are no lakes crossed by the Proposed Route and the Proposed Route will not impact the MDNR's existing flowage easement south of Cedar Lake. Ponds and streams crossed by the Proposed Route are spaced such that construction activities will avoid impacts to those water resources. In addition, Great River Energy will utilize erosion and sediment control BMPs (e.g., silt fencing) to mitigate the potential for sediment to reach any streams or ponds adjacent construction activities.

#### Public Waters

The MDNR Public Waters Watercourses crossed by the Proposed Route are spaced such that construction activities will avoid impacts within the Ordinary High-Water Level of the Public Waters. In addition, Great River Energy will utilize sediment and erosion control BMPs (e.g., silt fencing) to mitigate the potential for sediment to reach any Public Waters from adjacent construction activities.

### **Impaired Waters**

There are no impaired waters within the Project Area; therefore, there will be no impacts to impaired waters. Also, the Project is not anticipated to cause a water to be newly listed in the Project Area. There is minimal potential to increase turbidity due to sedimentation from construction activities because of the significant distance to any receiving waters. Great River Energy will utilize erosion and sediment BMPs (e.g., silt fencing) to mitigate the potential for sediments to reach any impaired waters.

<sup>&</sup>lt;sup>60</sup> MDNR. National Wetland Inventory for Minnesota. 5/23/2019. https://gisdata.mn.gov/dataset/water-nat-wetlands-inv-2009-2014

#### Wetlands

Once construction of the Project is completed, there will be no significant impacts to wetlands because disturbed soil will be restored to previous conditions and the amount of land area converted to an impervious surface will only be associated with the cross-sectional area of the structures, which will be on the order of 200 square feet total for the Project. Temporary impacts to wetlands may occur if they need to be crossed during construction of the transmission line. Staging or stringing setup areas will not be placed within or adjacent to water resources to the extent practicable.

Wetland impact avoidance measures that will be implemented during design and construction of the transmission lines include spacing and placing the power poles at variable distances to span and avoid wetlands, where possible. The maximum distance that can be spanned is approximately 400 feet. The Proposed Alignment crosses six wetland areas<sup>61</sup> where the wetland distance exceeds 400 feet, which will require that a transmission pole be placed within the wetland. **Table 6.7.2-1** describes the span length and wetland community type of these six wetlands.

Table 6.7.2-1. Wetlands Crossed by the Project Alignment with Span Lengths longer than 400 feet

Wetland Community Type	Span Length (feet)	General Location	Appendix A Map Page
Forested/Emergent Wetland	580	Western end of Proposed Route along Baseline Ave	1
Emergent Wetland	449	Western end of Proposed Route along Baseline Ave	1
Emergent Wetland	1,127	South of 280 <sup>th</sup> St E / State Highway 19 and west of Leroy Ave	2
Emergent Wetland	1,345	South of 280 <sup>th</sup> St E / State Highway 19 east of Leroy Ave	2
Emergent Wetland	862	South of 280 <sup>th</sup> St E / State Highway 19 and east of Jackson Ave / County Highway 52	3
Emergent / Scrub- Shrub	847	South of 280 <sup>th</sup> St E / State Highway 19 and east of Jackson Ave / County Highway 52	3

Where it is not possible to span a wetland, several measures will be utilized to minimize impacts during construction:

- When possible, construction will be scheduled during frozen ground conditions.
- When construction during frozen ground conditions is not possible, construction mats (wooden or composite) will be used to protect wetland vegetation. Additionally, all-terrain construction vehicles may be used, which are designed to minimize impact to soils in damp areas.
- Construction crews will attempt to access wetlands with the least amount of physical impact to the wetlands.

<sup>&</sup>lt;sup>61</sup> MDNR. National Wetland Inventory for Minnesota. 5/23/2019. https://gisdata.mn.gov/dataset/water-nat-wetlands-inv-2009-2014

• The structures will be assembled on upland areas before they are brought to the site for installation, when practicable.

If the final transmission line design cannot enable the Project to span discrete wetland segments, permanent impacts to wetlands will occur where a structure is located in the wetland (approximately five square feet of permanent impact per structure). Wetland vegetation will be restored in the disturbed areas following construction.

Vegetation maintenance procedures under transmission lines prohibit trees from establishing. Existing trees will be removed throughout the entire ROW, including forested wetlands. These forested wetlands will undergo permanent vegetative changes within the ROW. As described in **Section 2.3.1**, Great River Energy, in consultation with the USACE, St. Paul District, will seek coverage under the Utility Regional General Permit once design of the transmission line is complete. Great River Energy has been assigned a Regulatory File No. (MVP-2017-01526-RMH) and a USACE Project Manager (**Appendix D**) for this Project.

#### **6.7.3** Flora and Fauna

#### Flora

Flora can be generally characterized for the Project Area using the Ecological Classification System. <sup>62</sup> The system was developed by the MDNR and U.S. Forest Service for ecological mapping and landscape classification. The top three tiers of the system consist of Province, Section, and Subsection. The Project falls in the Eastern Broadleaf Forest Province, Minnesota & Northeast Iowa Morainal Section, and Big Woods subsection.

The Eastern Broadleaf Forest Province<sup>63</sup> serves "as a transition, or ecotone, between semi-arid portions of the state that were historically prairie and semi-humid mixed conifer-deciduous forests to the northeast. The western boundary of the province in Minnesota is sharply defined along much of its length as an abrupt transition from forest and woodland to open grassland."

The Minnesota and Northeast Iowa Morainal Section<sup>64</sup> "is a long band of deciduous forest, woodland, and prairie that stretches nearly 350 miles (560km) from Polk County in northwestern Minnesota to the Iowa border."

The Big Woods subsection<sup>65</sup> further details flora of the Project Area. Pre-settlement vegetation was comprised of oak woodland and maple-basswood forests with aspen dominated forest located along the western margin of the subsection. The current vegetation and land use is primarily made up of cropland (75%) and pasture (5-10%). The remaining areas of the subsection are comprised of upland forest or wetland.

<sup>62</sup> https://www.dnr.state.mn.us/ecs/index.html

<sup>63</sup> https://www.dnr.state.mn.us/ecs/222/index.html

<sup>64</sup> https://www.dnr.state.mn.us/ecs/222M/index.html

<sup>65</sup> https://www.dnr.state.mn.us/ecs/222Mb/index.html

There are no MDNR Scientific and Natural Areas in the Project Area. 66

### Fauna

The Project is located in the MDNR Nongame Wildlife – Central Region.<sup>67</sup> The Central Region provides habitat for non-game species such as tundra swans during migratory periods, red-headed woodpeckers, raptors, trumpeter swans, mice, turtles, frogs, and snakes. Additional species, as indicated by nearby WMAs,<sup>68</sup> include sandhill cranes and game species such as pheasants, deer, turkey, waterfowl, and other small game species.

There are no MDNR WMAs<sup>69</sup> crossed by the Project Route. The closest MDNR WMA is the St. Patrick's WMA, which is located approximately 1.6 miles to the northeast of the Proposed Route.

Great River Energy reviewed the USFWS National Realty<sup>70</sup> information and easement documents associated with the Scott County WPA managed by the Minnesota Valley Wetland Management District<sup>71</sup> located along 280<sup>th</sup> St E / Minnesota Highway 19 toward the end of the Proposed Route near Panama Avenue / County Highway 23. This WPA consists of three separate easements within a wetland area to the north of 280<sup>th</sup> St E / Minnesota Highway 19. Great River Energy has coordinated with the USFWS regarding this easement; this correspondence is provided in **Appendix D**. The Proposed Alignment avoids structure placement within this WPA.

Rare and natural flora and fauna are discussed in more detail in **Section 6.7.5.** 

# **Impacts and Mitigation**

Minimal impacts to native vegetation are anticipated. The Proposed Route will primarily follow existing road and distribution line corridors or be located in agricultural fields, which will minimize impacts to previously undisturbed vegetation in that area. As described in **Section 6.5.2**, Great River Energy will clear approximately 16.7 acres of trees within the 100-foot-wide ROW associated with the Proposed Alignment. Clearing will be minimized to the extent practicable. Great River Energy will prepare a Vegetation Management Plan for this Project (Appendix H, to be filed at a later date).

There is minimal potential for the displacement of wildlife and loss of habitat from construction of the Project. Wildlife that inhabits natural areas could be impacted in the short-term within the immediate area of construction. The distance that animals will be displaced will depend on the species. Additionally, these animals will be typical of those found in agricultural and forested settings and should not incur population level effects due to construction.

<sup>66</sup> https://www.dnr.state.mn.us/maps/compass/index.html

<sup>67</sup> https://www.dnr.state.mn.us/eco/nongame/central.html

<sup>68</sup> https://www.dnr.state.mn.us/maps/compass.html

<sup>69</sup> https://www.dnr.state.mn.us/maps/compass/index.html

<sup>&</sup>lt;sup>70</sup> FWS National Realty Tracts | FWS National Realty Tracts | U.S. Fish & Wildlife Service GIS Data (arcgis.com)

<sup>&</sup>lt;sup>71</sup> FWS National Realty Tracts | FWS National Realty Tracts | U.S. Fish & Wildlife Service GIS Data (arcgis.com)

Raptors, waterfowl, and other bird species may be affected by the construction and placement of the transmission lines. Avian collisions are a possibility after the completion of the transmission lines. Waterfowl are typically more susceptible to transmission line collision, especially if the transmission line is placed between agricultural fields that serve as feeding areas, or between wetlands and open water, which serve as resting areas. Project design and construction will be done in accordance with Avian Power Line Interaction Committee (APLIC) guidelines. Any eagle or other migratory bird nests discovered during survey of the line or in the land acquisition process will be reported to the USFWS and Great River Energy will adhere to guidance provided.

### **6.7.4** Invasive Species Management

The movement of construction equipment to, from, and between various work sites has the potential to introduce and/or spread invasive species. Invasive and noxious species in Minnesota are regulated by the MDNR<sup>72</sup> and Minnesota Department of Agriculture (MDA).<sup>73</sup> Known invasive and noxious species that are regulated and within the Project Area include Canada thistle, common tansy,<sup>74</sup> non-native phragmites, and curly leaf pondweed.<sup>75</sup>

# **Impacts and Mitigation**

To minimize the potential for the introduction or spread of invasive species, Great River Energy proposes to implement the following BMPs during Project construction:

- All disturbed areas will be revegetated using weed-free seed mixes. If practicable, native
  plant species will be used to revegetate disturbed areas. Weed-free straw or weed-free hay
  will be used for erosion control.
- Herbicidal or manual vegetation removal may be implemented to minimize the spread of invasive species where such removal is consistent with easement conditions or landowner restrictions.
- The ROW may be moved before noxious weeds or invasive species go to seed.
- Construction vehicles will be cleaned and inspected to remove dirt, mud, plants, and debris from vehicles and equipment prior to arriving at, and leaving from, construction sites.
- The Construction Field Representative will oversee BMP installation and effectiveness.

These BMPs will be incorporated into Great River Energy's forthcoming Vegetation Management Plan for this Project (Appendix H, to be filed at a later date).

<sup>&</sup>lt;sup>72</sup> https://www.dnr.state.mn.us/invasives/index.html

<sup>&</sup>lt;sup>73</sup> https://www.mda.state.mn.us/plants-insects/noxious-invasive-weeds

<sup>&</sup>lt;sup>74</sup> MDNR – Ecological and Water Resources. Terrestrial Invasive Species Observations. 4/27/2023. https://gisdata.mn.gov/dataset/env-invasive-terrestrial-obs

<sup>&</sup>lt;sup>75</sup> MDNR – Ecological and Water Resources. 4/27/2023. Aquatic Invasive Species. https://gisdata.mn.gov/dataset/env-invasive-aquatic-obs

### **6.7.5** Rare and Unique Natural Resources

# Threated and Endangered Species

Great River Energy submitted a formal Natural Heritage Review Request (2022-00769) on April 12, 2023, through the MDNR's MCE, which is included in **Appendix D**.

In addition, Great River Energy reviewed the USFWS IPaC website<sup>76</sup> for a list of federally threatened and endangered species, candidate species, and designated critical habitat that may be present within the Project Area.

### State-Listed Species

Great River Energy's consultant, Merjent, consulted the MDNR Natural Heritage Inventory System data through License Agreement LA 1066 on February 15, 2022, and did not identify any features within 1 mile of the Proposed Route. Great River Energy also submitted a review request through the MDNR's Minnesota Conservation Explorer (MCE) online application review process (https://mce.dnr.state.mn.us/). An automated response provided by the MDNR on April 12, 2023, indicated that the Project will not negatively affect any known occurrences of rare features. The response is provided in **Appendix D.** 

# Federally Listed Species

Based on the official species list provided by the USFWS (**Appendix D**), one species federally listed under Endangered Species Act (ESA), one species proposed for listing, and one candidate species have been previously documented within the vicinity of the Project (**Table 6.7.5-1**). No federally designated critical habitat is present within the Project Area.

Table 6.7.5-1. Federally Protected Species within the Project Area

Common Name	Scientific Name	Federal Status	
Northern long-eared bat	Myotis septentrionalis	Endangered	
Tricolored bat	Perimyotis subflavus	Proposed Endangered	
Monarch butterfly	Danaus plexippus	Candidate	

### Northern Long-eared Bat

The range of the northern long-eared bat (NLEB) stretches across much of the eastern and midwestern United States. During summer, the bats roost singly or in colonies under bark, in cavities, or in crevices of both live and dead trees. Males and non-reproductive females may also roost in cooler places such as caves and mines. This species is thought to be opportunistic in selecting roosts, using tree species based on the tree's ability to retain bark or provide cavities or

<sup>&</sup>lt;sup>76</sup> Information for Planning and Conservation (IPaC) Website. Available online at: https://ecos.fws.gov/ipac/. Accessed April 2023.

crevices. It has also been found, rarely, roosting in structures such as barns and sheds. In winter, NLEBs use caves and mines as hibernacula.<sup>77</sup>

#### Tricolored Bat

The tricolored bat is one of the smallest bats species native to North America. The species overwinters in caves and mines where available. However, throughout much of its range in the southern United States, roadside culverts, tree cavities, and abandoned water wells may also serve as suitable overwintering habitat.

During the active season (generally, April 1 to October 31), the species may be found roosting among leaf clusters (live and dead) on living or recently dead deciduous hardwood trees. Roost choice may also vary by region and this species has been observed roosting in eastern red cedar trees and pine needles, as well as within manufactured structures such as barns and bridges.<sup>78</sup>

On September 13, 2022, the USFWS published a proposed rule listing the tricolored bat as federally endangered under the ESA. A final rule is expected in October 2023.<sup>79</sup>

### Monarch Butterfly

The monarch butterfly is a large butterfly with an approximate 3-4-inch wingspan and characterized by bright orange coloring on the wings, with distinctive black borders and veining. The species can be found in a wide variety of habitats including prairies, grasslands, urban gardens, road ditches, and agricultural fields, provided a supply of nectaring plants are available for adult foraging and milkweed plants are present for laying eggs and as a food source for caterpillars. <sup>80</sup>

On December 17, 2020, the USFWS published the result of its 12-month review of the monarch butterfly and determined that listing the species under the ESA was "warranted but precluded," meaning the species meets the criteria for listing as an endangered or threatened species, but the USFWS cannot currently implement the listing because there are other listing actions with a higher priority. The species is now a candidate for listing; however, candidate species are not protected under the ESA. The USFWS has added the monarch to the updated national listing workplan and based on its listing priorities and workload, intends to propose listing the monarch in Fiscal Year 2024, if listing is still warranted at that time, with a possible effective date within 12 months of the proposed rule. The USFWS will also conduct an annual status review to determine if changes in prioritization are necessary.

June 2023

<sup>&</sup>lt;sup>77</sup> USFWS. Northern Long-eared Bat. Available online at: https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis. Accessed April 2023.

<sup>&</sup>lt;sup>78</sup> USFWS. Tricolored Bat. Available online at: https://www.fws.gov/species/tricolored-bat-perimyotis-subflavus.

<sup>&</sup>lt;sup>79</sup> USFWS. Service proposes to list the tricolored bat as endangered under the Endangered Species Act. Available online at: https://www.fws.gov/press-release/2022-09/proposal-list-tricolored-bat-endangered.

<sup>&</sup>lt;sup>80</sup> USFWS. Monarch Butterfly. Available online at: https://www.fws.gov/species/monarch-butterfly-danaus-plexippus.

<sup>&</sup>lt;sup>81</sup> USFWS. Endangered and Threatened Wildlife and Plants; 12-Month Finding for the Monarch Butterfly. 85 Federal Register 81813 (December 17, 2020).

### Impacts and Mitigation

# Northern Long-eared Bat

Based on the USFWS Determination Key (DKey) for the NLEB, the Project "may affect, but is not likely to adversely affect" the species (**Appendix D**). With that determination of effect, a "Consistency Letter" (**Appendix D**) was generated. Great River Energy will commit to the minimization and avoidance measures outlined in the DKey; therefore, no impacts are anticipated.

### Tricolored Bat

Potential impacts to individual tricolored bats may occur if clearing or construction takes place when the species is roosting in its summer habitat, in trees outside of hibernacula. Bats may be injured or killed if occupied trees are cleared during this active window. Tree clearing activities conducted when the species is in hibernation and not present on the landscape will not result in direct impacts to individual bats but could result in indirect impacts due to removal of suitable roosting habitat.<sup>82</sup>

### Monarch Butterfly

Suitable habitat for monarchs may be present within the Project area. If the USFWS determines the species should be listed and protections for the species coincide with Project planning, permitting, and/or construction, Great River Energy will review Project activities for potential impacts to the species and develop appropriate avoidance and mitigation measures.

Constructing within and/or adjacent to an existing utility ROW minimizes impacts to habitat in this area. Great River Energy will continue to coordinate with the MDNR and USFWS to avoid and minimize Project impacts on sensitive species.

The following general measures will be used to help avoid or minimize impacts to area wildlife and rare natural resources during and after the completion of the proposed transmission line:

- BMPs will be utilized to prevent erosion of the soils in the areas of impact.
- Sound water and soil conservation practices will be implemented during construction and operation of the Project to protect topsoil and adjacent water resources and minimize soil erosion. Practices may include containing excavated material, protecting exposed soil, and stabilizing restored soil.
- Disturbed areas will be re-vegetated with native species and wildlife conservation species, where applicable if the landowner agrees.

<sup>&</sup>lt;sup>82</sup> USFWS. Species Status Assessment Report for the Tricolored Bat (*Perimyotis subflavus*). Available online at: https://ecos.fws.gov/ServCat/DownloadFile/221212.

• Raptor protection measures will be implemented, including following APLIC Avian Safe Design recommendations and placement of bird flight diverters on the line after consultation with USFWS.

# 6.8 Physiographic Features

### **6.8.1** Topography

The Proposed Route occurs over generally flat terrain with periodic rolling hills that rise in elevation approximately 50 - 100 feet (**Figure 6-6** and **Appendix A**).

# **Impacts and Mitigation**

Construction of the Project will not alter the topography along the Proposed Alignment; therefore, no mitigation is proposed.

### 6.8.2 Geology

The Big Woods subsection<sup>83</sup> of the Ecological Classification indicates that for bedrock geology the depth of glacial sediment to bedrock varies from 100 to 400 feet. The Project Route is located in the southern half of the subsection and, as such, underlying bedrock includes Ordovician and Cambrian sandstone, shale, and dolomite. Cretaceous shale, sandstone, and clay underly the bedrock further to the north.

# **Impacts and Mitigation**

Few geological constraints on design, construction, or operation are anticipated in the Project Area. Based on typical soil types in Minnesota, it is anticipated that the above ground pole will be buried approximately 13 feet into the ground, which will not impact subsurface geologic features. Construction of the Project will not alter the geology along the routes; therefore, no mitigation is proposed.

#### **6.8.3** Soils

The Big Woods subsection<sup>84</sup> of the Ecological Classification states that the soils are dominantly loamy, with textures ranging from loam to clay loam. The parent material is glacial till and are classified primarily as Alfisols. Alfisols are soils developed under forests.

USDA NRCS STATSGO2 data were reviewed to describe soil resources in the Project Area. The STATSGO2 Database<sup>85</sup> is also referred to as the Digital General Soil Map of the United States and is a broad-based inventory of soils for use in broad planning. Soils are organized by general association units which are derived from more detailed soil survey maps. The general association units were determined by transecting or sampling areas on the detailed maps and then statistically expanding the data to characterize the whole map unit. Each association unit represents a

<sup>83</sup> https://www.dnr.state.mn.us/ecs/222Mb/index.html

<sup>84</sup> https://www.dnr.state.mn.us/ecs/222Mb/index.html

<sup>85</sup> https://www.nrcs.usda.gov/resources/data-and-reports/description-of-statsgo2-database

distinctive pattern of soils, relief, and drainage, and is a unique natural landscape. Typically, an association consists of one or more major soils and some minor soils. There are two soil association units that intersect the Proposed Route. These soil associations are listed in **Table 6.8.3-1** and shown in **Figure 6-6**.

Table 6.8.3-1. Soil Associations in the Project Area

Soil Association <sup>86</sup>	General Description <sup>87</sup>		
	Lester-Le Sueur-Cordova association unit is characterized as very deep, well drained		
Lester-Le Sueur-	soils to poorly drained soils that formed in calcareous, loamy till. They are found in areas		
Cordova (s3503)	ranging from lower landscape positions on flats and upper drainageways to convex slopes		
	on moraines and till plains. Slopes range from 1 to 70 percent.		
	Lerdal-Kilkenny-Hamel association unit is characterized as very deep, poorly drained to		
Lerdal-Kilkenny-	moderately well drained soils that formed in clayey glacial till or flow till and underlying		
Hamel (s3617)	loamy glacial till on glacial moraines. They are found in gently sloping to moderately		
	steep areas and in areas with convex slopes on higher lying terrain. Slopes range from 1 to		
	35 percent.		

## **Impacts and Mitigation**

Potential impacts of construction are compaction of the soil associated with construction equipment traffic and exposing the soils to wind and water erosion. Soil compaction within wetlands would be mitigated by installation of construction mats, and as described in **Section 5.6**, the restoration contractor would take measures to alleviate soil compaction where needed. As described in **Section 5.5**, ground disturbance and soil exposure would be primarily limited to the pole locations, which would typically consist of a 10- to 15-foot-deep hole between 2 to 4 feet in diameter. Impacts to physiographic features should be minimal during and after installation of the transmission line structures, and these impacts will be short term. There should be no long-term impacts resulting from this Project.

Erosion and sediment control methods and BMPs will be utilized to minimize runoff during line construction. Such BMPs may include but are not limited to the installation of sediment barriers (silt fence, straw bales, bio-logs), filter socks, mulch, upslope diversions, slope breakers. As described in **Section 5.6**, exposed soils will also be revegetated as soon as possible to minimize erosion. Great River Energy will also develop a Vegetation Management Plan for this Project (Appendix H, to be filed at a later date).

Project construction is not anticipated to result in the disturbance of more than one acre of soils. As discussed in **Section 2.3.2**, if more than one acre of soil will be disturbed during the construction of the transmission line, Great River Energy will obtain a NPDES construction stormwater permit from the MPCA and will prepare a SWPPP.

Long-term impacts to soils are not anticipated, and no impact from Project operations are expected.

<sup>&</sup>lt;sup>86</sup> USDA NRCS. Digital General Soil Map of the U.S. (STATSGO2). 10/13/2016. https://gisdata.mn.gov/dataset/geos-statsgo2

<sup>87</sup> https://www.nrcs.usda.gov/resources/data-and-reports/official-soil-series-descriptions-osd

# **6.9** Summary of Potential Environmental Effects

Great River Energy analyzed the potential environmental effects of the proposed Project. Generally, Project effects are anticipated to be temporary and/or minor. No homeowners will be displaced by the Project. All land impacted during construction will be restored to the extent possible, and landowners will be compensated for any crop losses due to construction operations or structure and conductor placement. The EFs associated with the new line (1.2 kV/m) will be significantly less than the maximum levels permitted by state regulators (8 kV/m). No stray voltage issues are anticipated. Similarly, Project facilities will comply with applicable noise standards. The Project will parallel existing roads, electric distribution lines, and pipeline ROW for much of its length. The routing of the Project minimizes potential tree removal but may require the permanent removal of approximately 16.7 acres of trees within its ROW. There are wetlands within the proposed transmission line ROW. Great River Energy prefers to span wetlands, but there are six wetlands along the Proposed Route that likely cannot be spanned because the wetland complexes exceed the typical span length of 400 feet. In addition, sometimes stakeholder requests may preclude the design from avoiding some wetlands. Unavoidable impacts include a change in aesthetics and the presence of additional traffic during construction on the local roads. These and other potential environmental effects, as well as applicable avoidance and minimization measures, are described in more detail in **Chapter 6** of this Application.

The EERA is responsible for environmental review of the Project and will prepare an EA that analyzes the Project's potential environmental impacts.

# **6.10** Unavoidable Impacts

Minnesota Rule 7850.1900, subpart 3(G) requires that an application discuss "human and environmental effects that cannot be avoided if the facility is approved at a specific site or route." The Project will be designed, constructed, and operated using processes and procedures, as described in this Application, which will avoid, minimize, and mitigate potential impacts. There will nevertheless be nominal impacts that cannot be avoided. The nominal impacts from construction activities will include soil compaction and erosion, short-term traffic delays, vegetative clearing, wetland conversion, visual impacts, habitat loss, temporary disturbance and displacement of wildlife, and loss of land use for other purposes. The nominal impacts from operations will include the continued maintenance of tall growing vegetation, conversion of agricultural land, visual impacts, interference with AM radio signals, and individual wildlife impacts from habitat reduction and avian collisions.

The Project will require only minimal commitments of resources that are irreversible and irretrievable. Irreversible commitments of resources are those that result from the use or destruction of a specific resource that cannot be replaced within a reasonable timeframe. Irretrievable resource commitments are those that result from the loss in value of a resource that cannot be restored after the action. For the Project, those commitments that do exist are primarily related to construction. Construction resources will include aggregate resources, concrete, steel, and hydrocarbon fuel. During construction, vehicles necessary for these activities will be deployed on site and will need to travel to and from the construction area, consuming hydrocarbon fuels. Other resources will be used in pole construction, pole placement, and other construction activities.

#### **6.11 Cumulative Effects**

Cumulative potential effects are impacts on the environment that result from "the incremental effects of a project in addition to other projects in the environmentally relevant area that might reasonably be expected to affect the same environmental resources, including future projects actually planned or for which a basis of expectations have been laid, regardless of what person undertakes the other projects or what jurisdictions have authority over the projects."<sup>88</sup>

Consideration of cumulative potential effects is intended to aid decision-makers so that they do not make decisions about a specific project in a vacuum. Effects that may be minimal in the context of a single project may accumulate and become significant when all projects are considered.

A review of foreseeable projects (federal, state, or local unit of governments) in the Project area or along the transmission route that may affect, or be affected by, the proposed Project was conducted including projects identified by the MnDOT, <sup>89</sup> MPCA, <sup>90</sup> Scott County, <sup>91</sup> and Rice County. <sup>92</sup> Great River Energy also coordinated with Xcel Energy and Minnesota Valley to determine if there are any other additional potential transmission or distribution projects in this area.

Current and reasonably foreseeable future projects within the Project Area are summarized in **Table 6.11-1** and shown in **Figure 6-7**. Great River Energy plans to commence construction of the Project in fall 2024 once required permits and approvals are obtained. Great River Energy anticipates construction will take place over eight months and the Project will be energized in summer 2025.

Table 6.11-1. Current and Reasonably Foreseeable Projects

Project Name / Responsible Agency	General Location	Anticipated Timing	General Description	Reference
Jackson Ave / County Road 52 (Rice County)	Near the connection point of the Proposed Project with Great River Energy's MV-EVX line, intersects with 280 <sup>th</sup> St E / State Highway 19	Rice County anticipates completion by October 2023	Paving of Jackson Ave / County Road 52	Rice County Highway Dept. 2023 Maintenance & Construction Plan: https://www.ricecoun tymn.gov/172/Maps
Great River Energy Removal of 115-kV MV- CDT transmission line	North of the Project area on the existing CapX2020 structures that run east-west along 260 <sup>th</sup> St E	Anticipate completion by August 2025	Involves the removal of 4.5 miles of the 115-kV transmission line on the CapX2020 structures	Great River Energy (see <b>Chapter 1</b> )

<sup>88</sup> Minn. R. 4410.0200, subp. 11a.

<sup>&</sup>lt;sup>89</sup> Construction Projects, Plans, and Studies on Minnesota Highways - MnDOT (state.mn.us)

<sup>&</sup>lt;sup>90</sup> Local sites and projects | Minnesota Pollution Control Agency (state.mn.us)

<sup>&</sup>lt;sup>91</sup> Construction Projects | Scott County, MN (scottcountymn.gov), Future Projects & Studies | Scott County, MN (scottcountymn.gov)

<sup>&</sup>lt;sup>92</sup> Rice County Highway Dept. 2023 Maintenance & Construction Plan (arcgis.com)

Project Name / Responsible Agency	General Location	Anticipated Timing	General Description	Reference
CapX2020 2 <sup>nd</sup> Circuit	North of the Project area on the existing CapX2020 structures that run east-west along 260 <sup>th</sup> St E	Anticipate completion by August 2025	String the 2 <sup>nd</sup> 345-kV transmission line (2 <sup>nd</sup> circuit) on the existing CapX2020 structures	Consultation with Xcel Energy
Minnesota Valley Burial of Distribution Lines	Along Baseline Ave and along 280 <sup>th</sup> St E / State Highway 19	Summer 2024	Burial of distribution lines where the Project overtakes the existing lines	Consultation with Minnesota Valley

#### **6.11.1 Human Settlements**

Cumulative potential effects on human settlements are anticipated to be minimal. The current and reasonably foreseeable projects occurring in the Project Area are primarily maintenance of existing infrastructure, as is the case of the Minnesota Valley burial of existing lines and Rice County Road paving projects. Great River Energy's removal of the existing 4.5-mile 115-kV MV-CDT transmission line from Xcel Energy's CapX2020 structures and Xcel Energy's subsequent stringing of the second 345-kV circuit on the CapX2020 structures will not require the installation of any additional infrastructure in the Project Area. Impacts will be temporary and minor associated with the short-term construction activity to remove the old line and string the new line.

# **6.11.2** Public Health and Safety

Cumulative potential effects on public health and safety as a result of the Project are anticipated to be minimal (see **Section 6.3**). The current and reasonably foreseeable projects include infrastructure maintenance and improvement projects being undertaken to ensure safe operation of the infrastructure and the public's health and safety.

#### **6.11.3 Land-Based Economies**

Cumulative potential effects on land-based economies are anticipated to be minimal. These projects are maintenance and infrastructure improvements occurring within existing utility and road ROWs.

### **6.11.4 Natural Environment**

Cumulative potential effects on the natural environment are anticipated to be minimal. These projects are maintenance and infrastructure improvements occurring within existing utility and road ROWs.

## **6.11.5** Rare and Unique Natural Resources

Cumulative potential effects on rare and unique natural resources are anticipated to be minimal. These projects are maintenance and infrastructure improvements occurring within existing utility and road ROWs.

### 7 APPLICATION OF RULE CRITERIA

#### 7.1 Route Permit

According to Minn. Stat. § 216E.02, subd. 1, it is the policy of the state of Minnesota to locate HVTLs in an orderly manner that minimizes adverse human and environmental impacts and ensures continuing electric power system reliability and integrity. The Commission has promulgated standards and criteria for issuing Route Permits (Minn. R. 7850.4000). That rule provides that the Commission shall issue Route Permits for HVTLs that are consistent with state goals to conserve resources, minimize environmental impacts and impacts to human settlement, minimize land use conflicts, and ensure the state's electric energy security through efficient, cost-effective transmission infrastructure. The Project addresses these criteria:

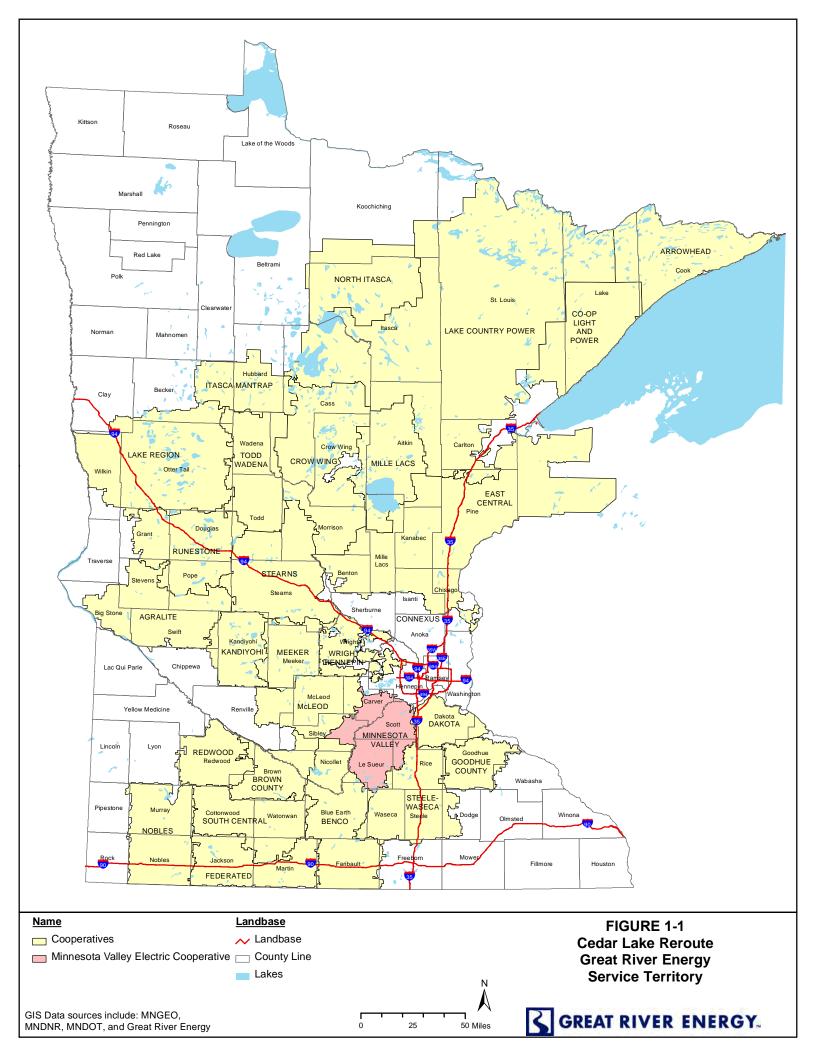
- The Project is consistent with state goals to conserve resources because the majority of the Project is proposed to be routed along existing utility, pipeline, and road ROWs, thus avoiding and minimizing potential additional impacts to the extent practicable.
- The Project will minimize environmental impacts because:
  - The majority of the Project is proposed to be routed along existing utility, pipeline, and road ROWs, which will avoid and minimize potential impacts on vegetation and wildlife.
  - o Great River Energy will develop its final alignment based on the permitted route to further avoid and minimize impacts to environmental resources, in compliance with federal, state, and local regulations and in coordination with applicable federal, state, and local agencies.
  - o Great River Energy will design the final alignment to avoid or span as many wetlands as practicable.
- Great River Energy will implement construction, restoration, and operation and maintenance procedures and BMPs to further avoid and minimize impacts to environmental resources. The Project will minimize impacts on human settlement and other land use conflicts because:
  - It is proposed to generally be routed along utility, pipeline, and road ROWs and/or routed along property boundaries, thus avoiding impacts to new landowners and parcels.
  - Great River Energy will develop its final alignment based on landowner and stakeholder input to avoid and minimize impacts to residents and business owners along the final route.

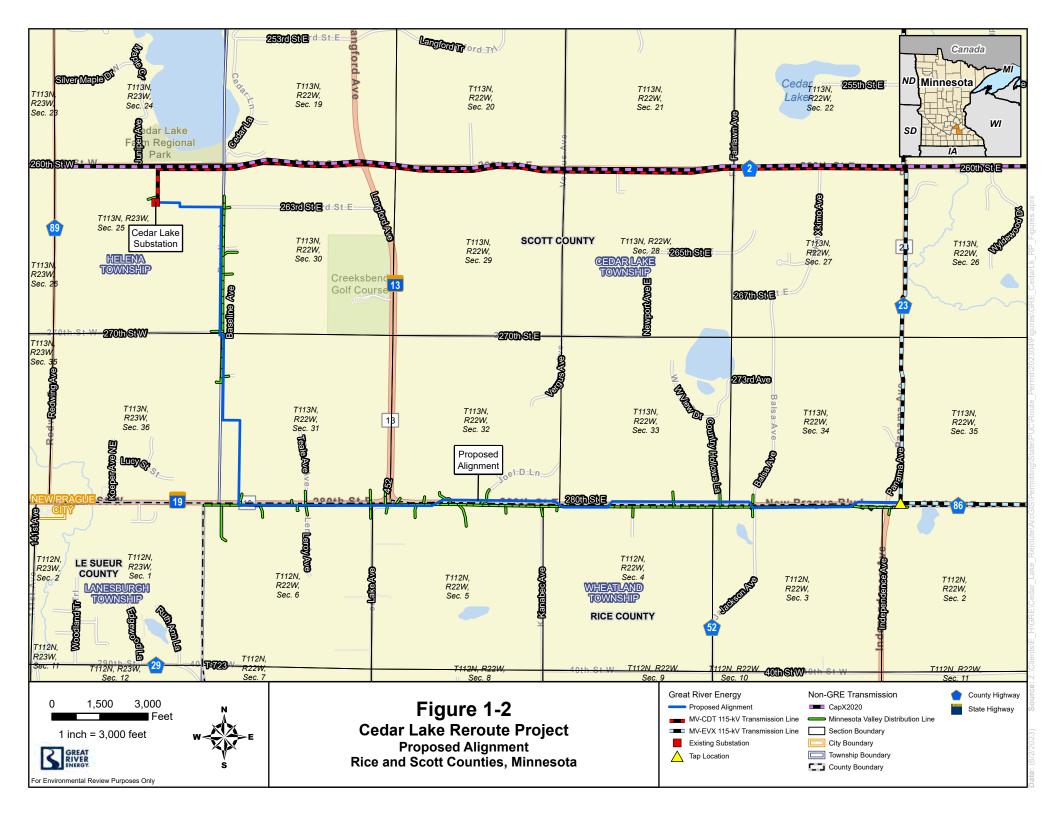
- Disturbed areas will be restored to their original condition to the maximum extent practicable and Great River Energy will negotiate compensation with landowners for unavoidable impacts.
- The Project is consistent with state goals to ensure electric energy security because it will help ensure continued reliable and secure electrical service to the existing Cedar Lake Substation and will accommodate the installation of a new 345-kV circuit on the existing CapX2020 line.

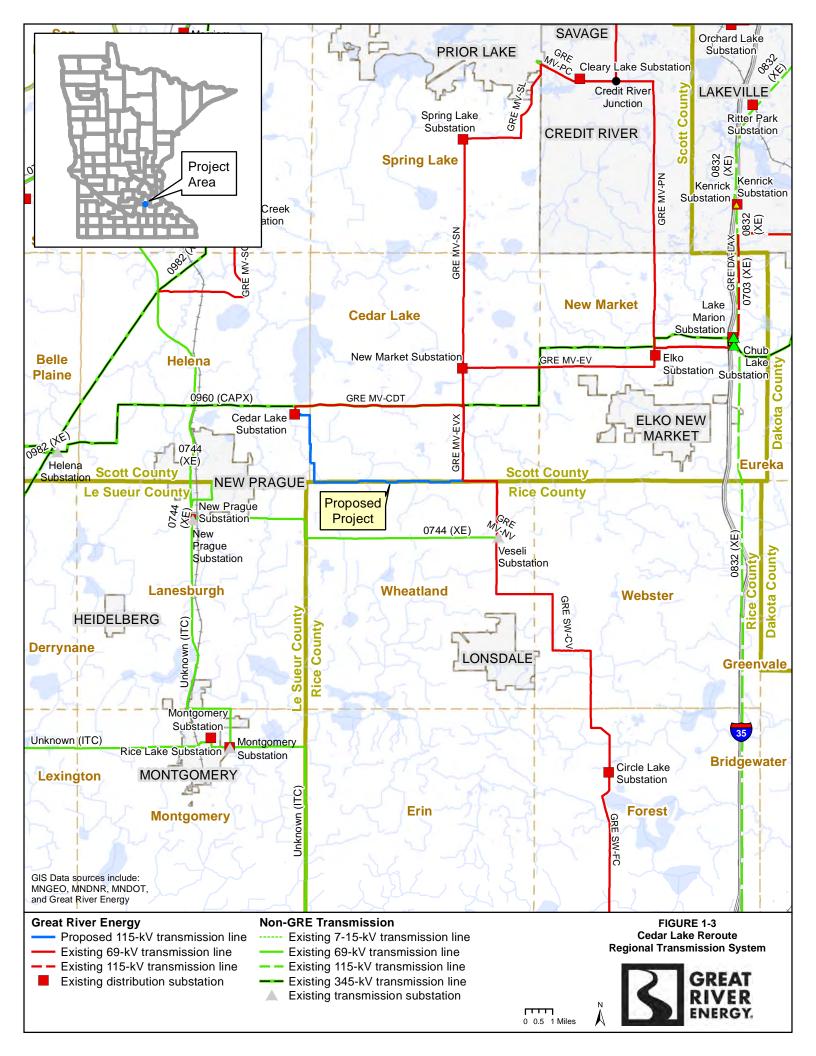
### 7.2 Conclusion

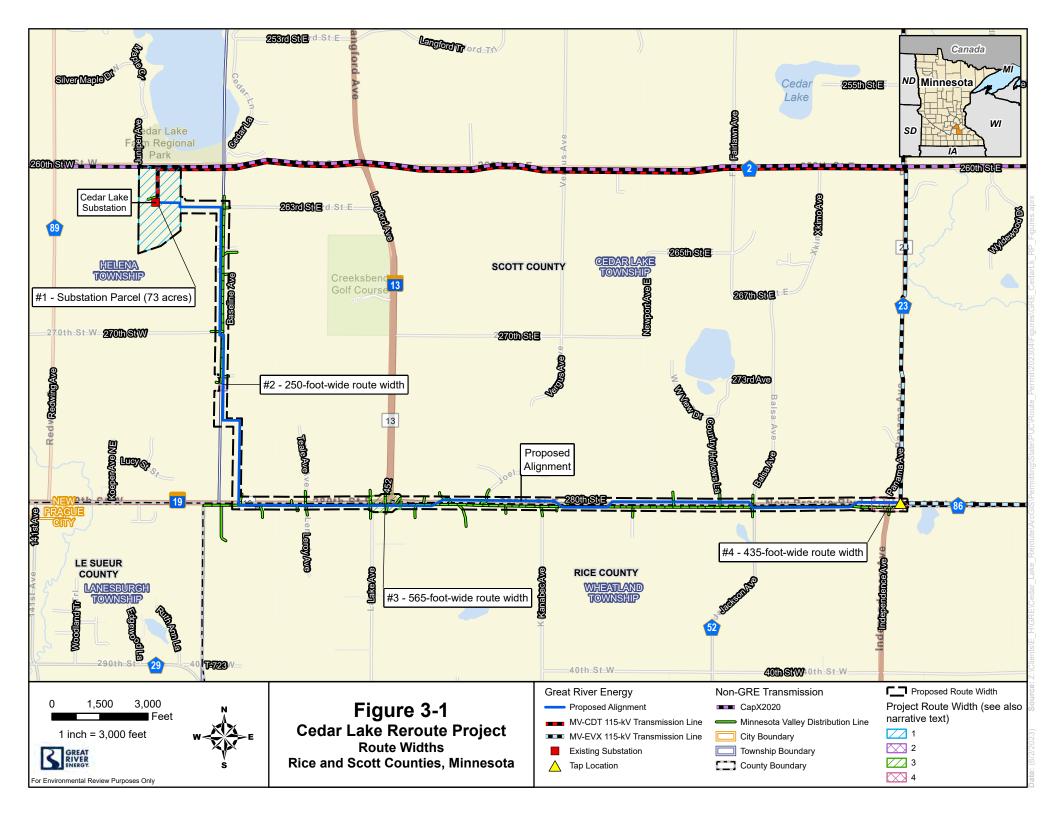
Great River Energy respectfully requests that the Commission issue a Route Permit for the proposed Project in Scott and Rice Counties, Minnesota.

# Figures

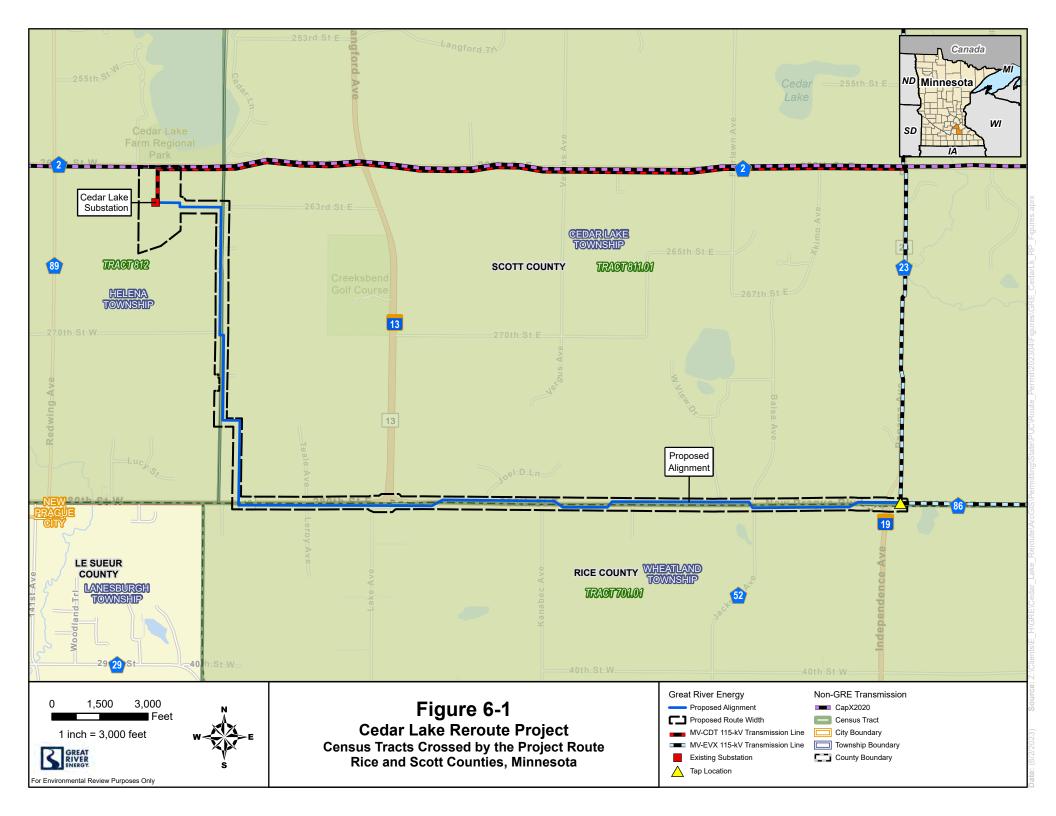


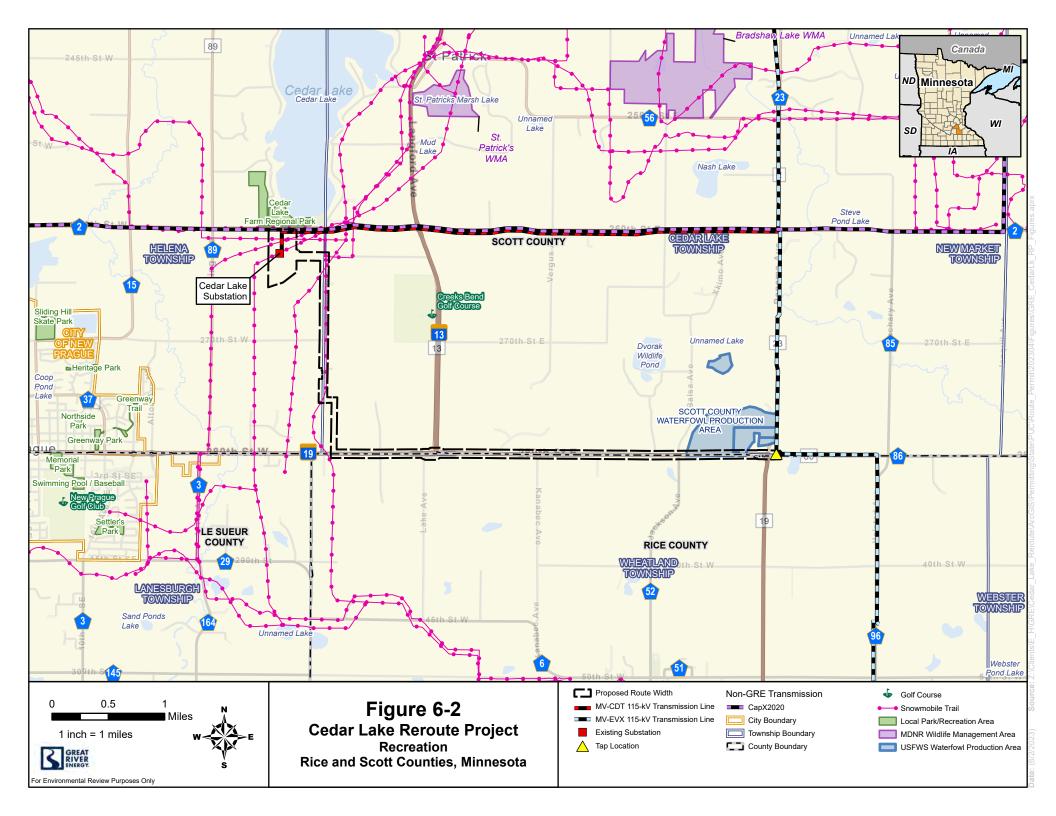


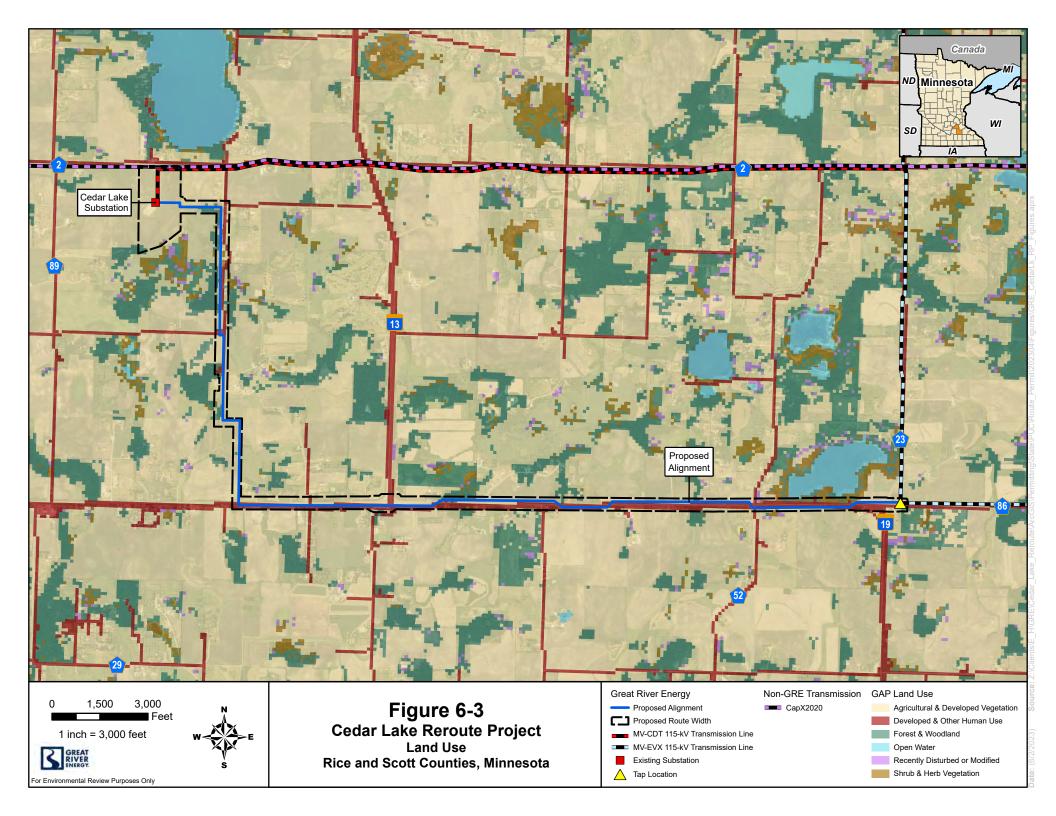


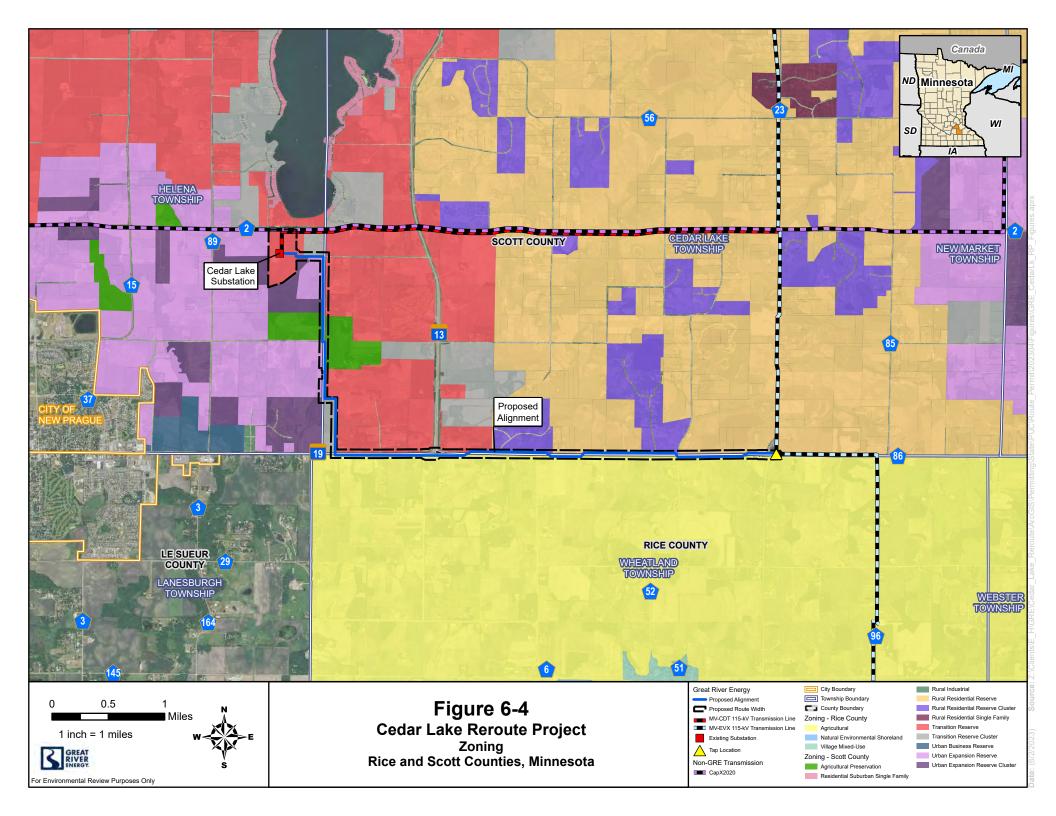


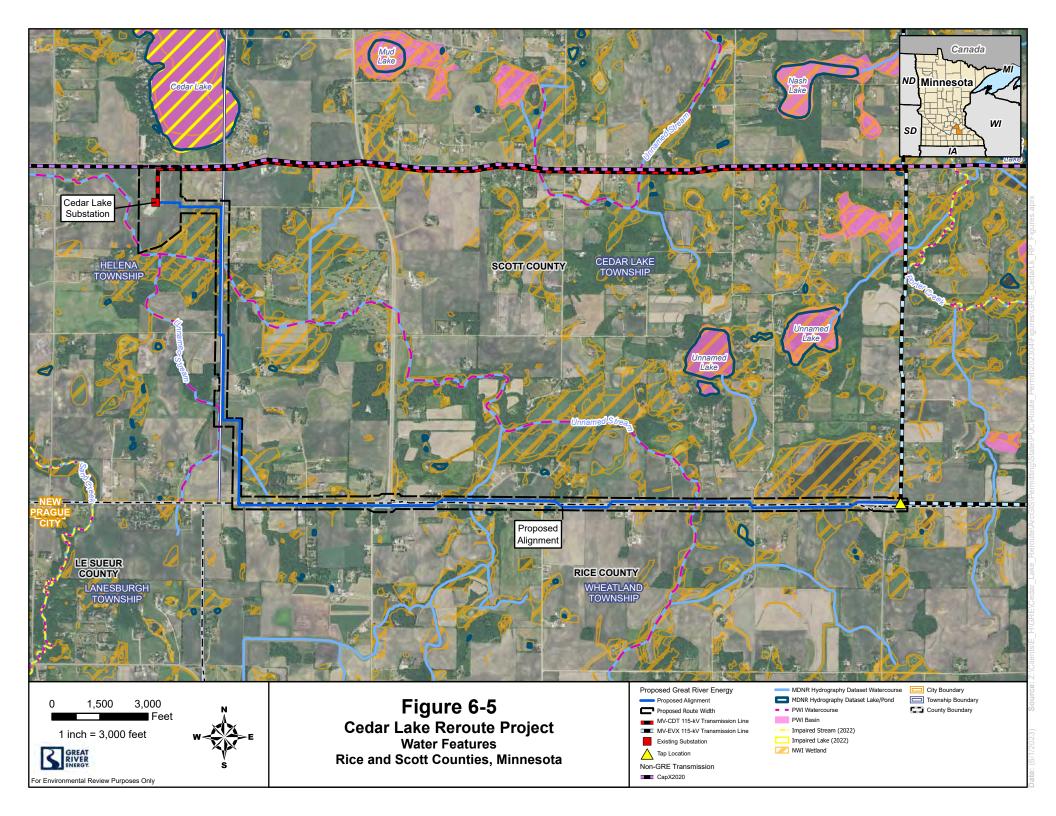


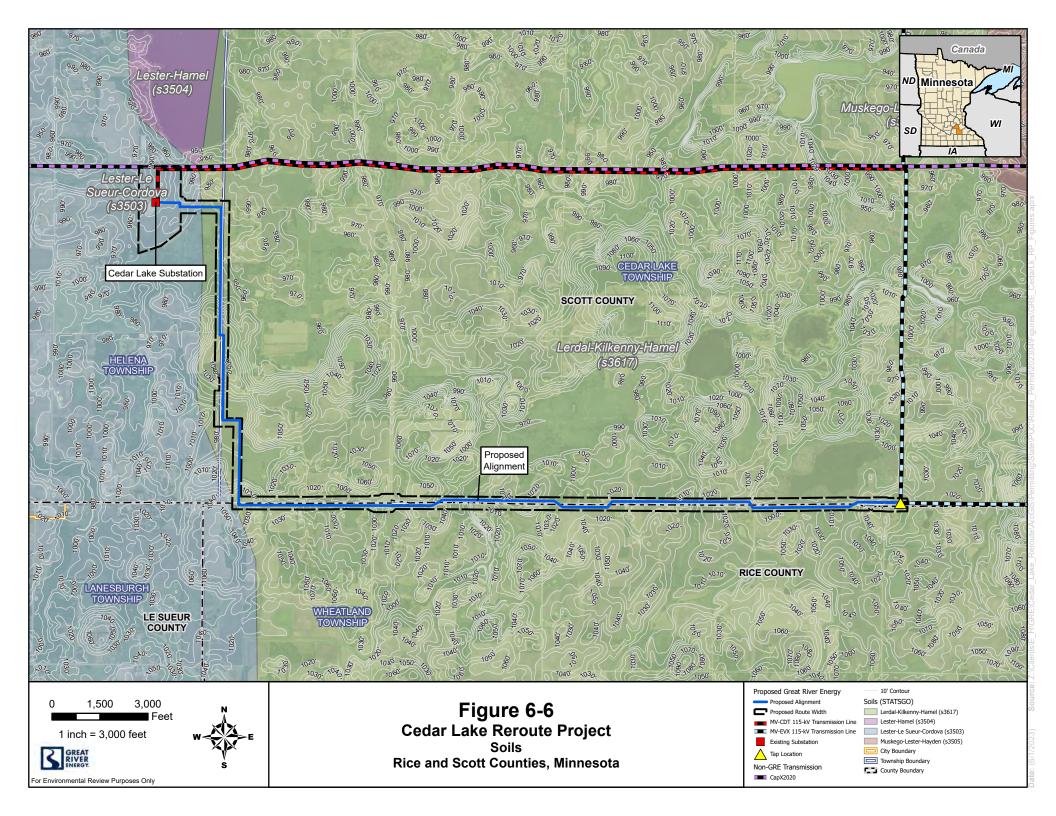








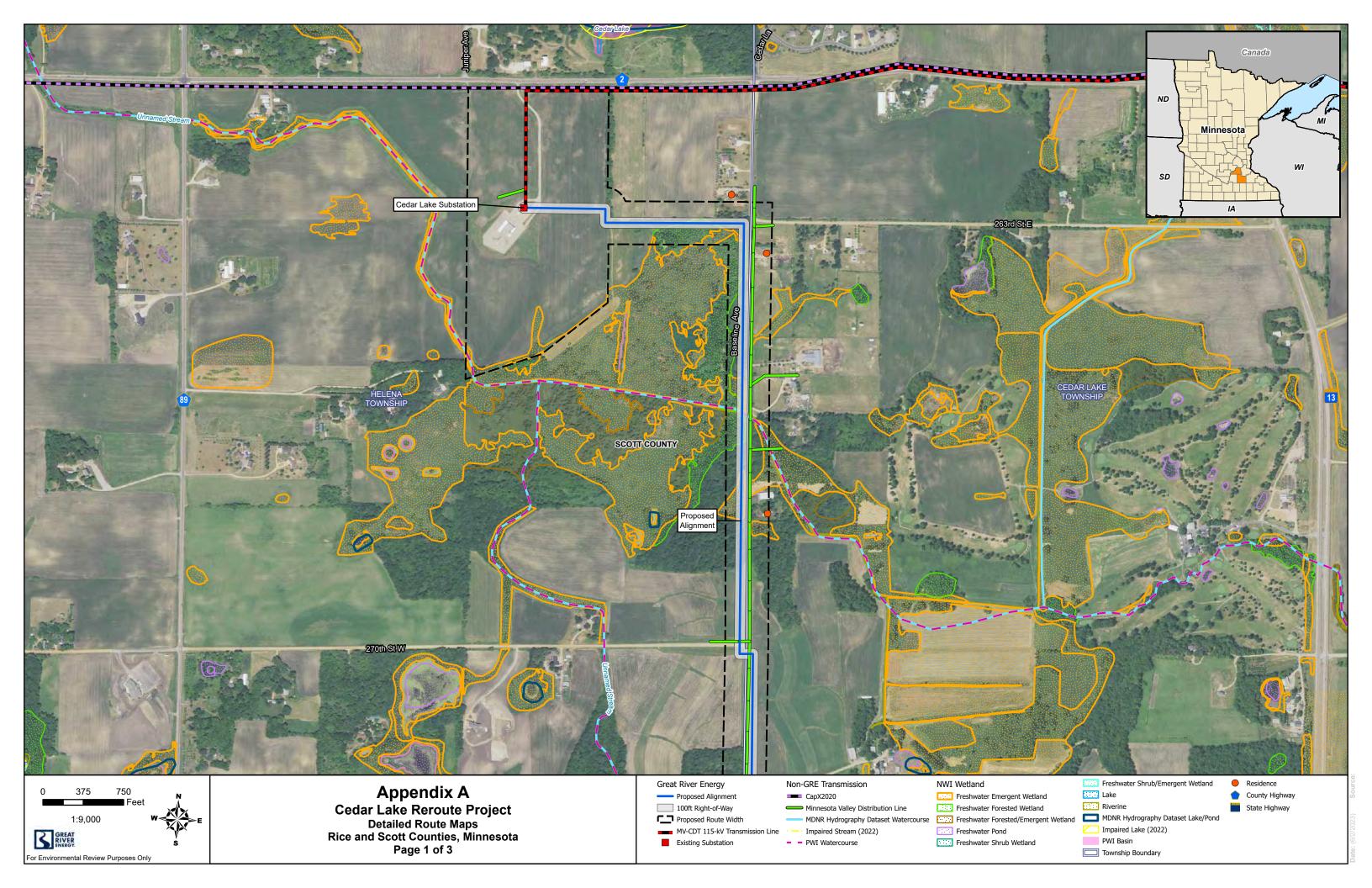


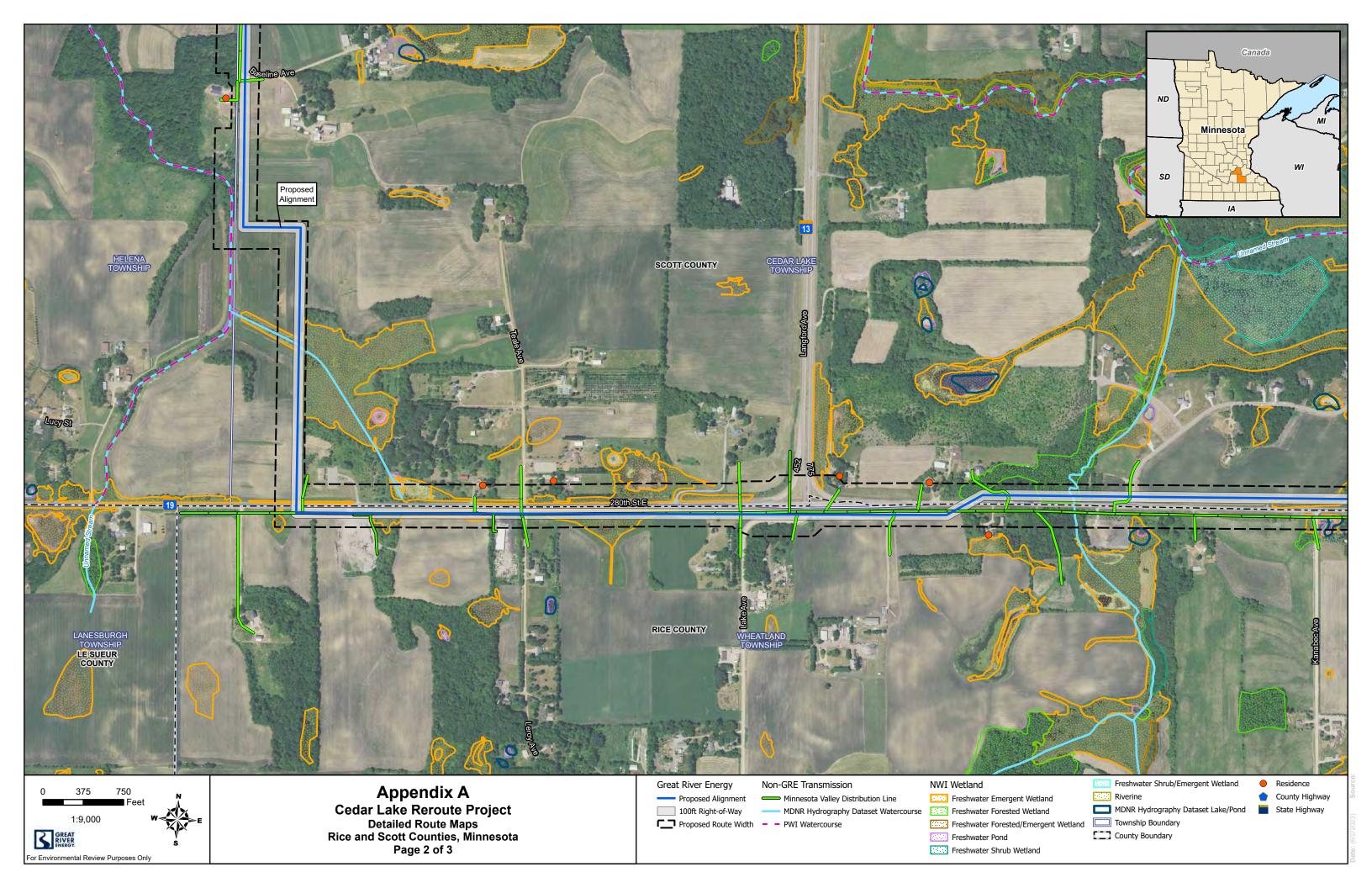


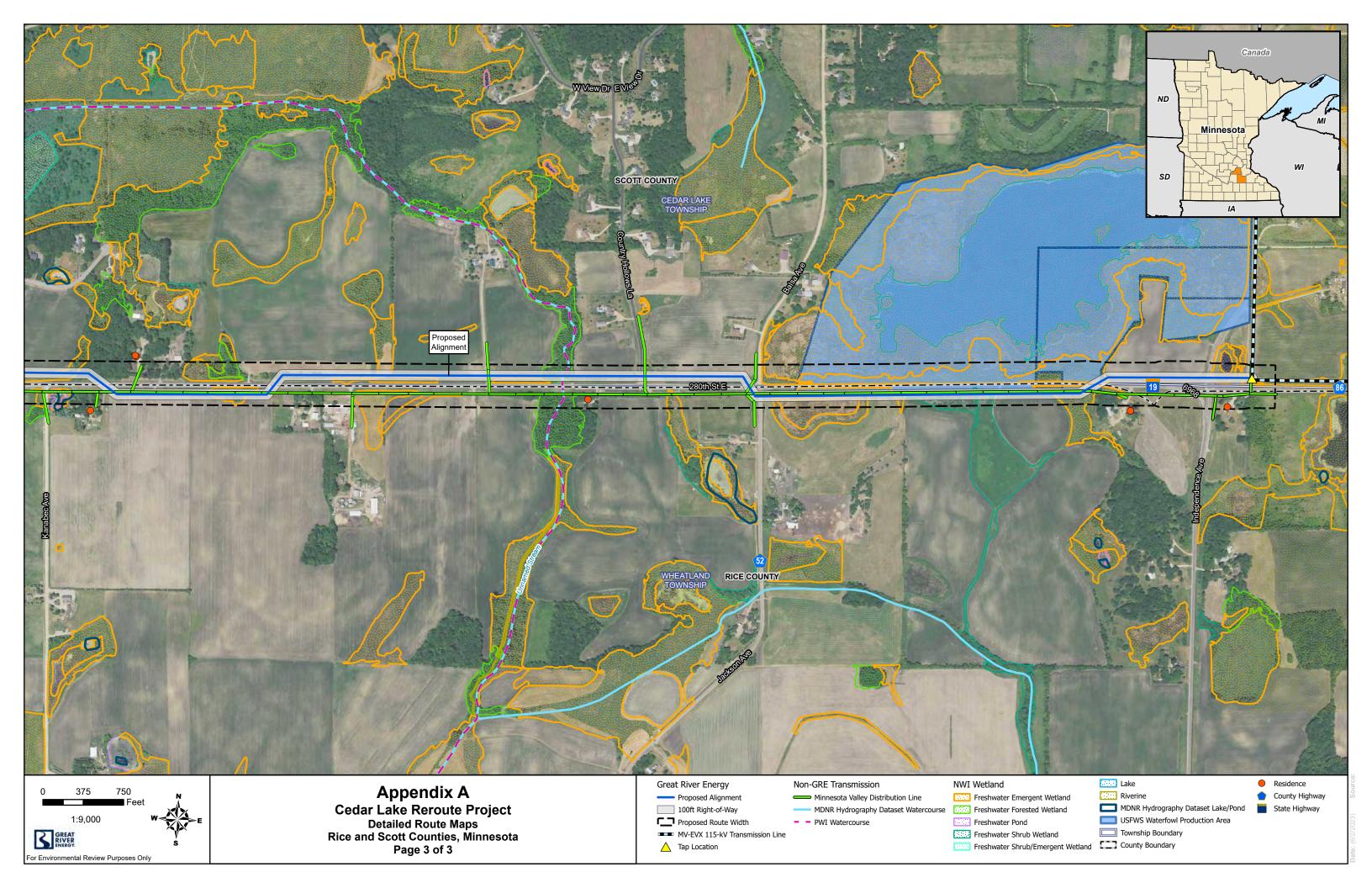


# Appendix A

Detailed Route Maps







# Appendix B

Correspondence with Landowners and Local Government Units



March 15, 2023

MV-CDT Line WO #209488



SUBJECT: Transmission line project open house

PID(s): 039300065

### Dear Invitee:

Great River Energy, wholesale electric supplier to Minnesota Valley Electric Cooperative, is proposing to construct a new 6.3-mile 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which runs along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing the load serving capability of the existing transmission system in the southwest metropolitan area.

As an identified landowner along the proposed route or a governmental authority for the project area, Great River Energy is encouraging you to attend the project open house. No formal presentation will be given. You are encouraged to attend anytime during the hours indicated.

Wednesday, March 29, 2023
11:00 a.m – 1:00 p.m.
4:00 p.m. – 6:00 p.m.
The Park Ballroom
300 Lexington Ave S, New Prague, MN 56071

Enclosed is a project fact sheet showing the proposed route corridor and timeline. If you are unable to attend the open house, please contact me with comments or questions at 763-445-5981 or via email at mhagelin@grenergy.com. Great River Energy appreciates your understanding as we begin this important project.

Sincerely,

GREAT RIVER ENERGY

Matt Hagelin

Senior Field Representative

**Enclosure** 

 $MH: dp\SP\trans\ capital\ projects\209488-MV-CDT\ line-relocation\ study\LR\Notifications\2023.03.15\ open\ house\ letter. docx\ projects\209488-MV-CDT\ line-relocation\ study\LR\Notifications\2023.03.15\ open\ house\ letter. docx\ projects\209488-MV-CDT\ line-relocation\ study\LR\Notifications\2023.03.15\ open\ house\ letter. docx\209488-MV-CDT\ line-relocation\ study\LR\Notification\2023.03.15\ open\ house\ letter. docx\209488-MV-CDT\ line-relocation\ study\LR\Notification\2023.03.15\ open\ house\ letter. docx\209488-MV-CDT\ line-relocation\2023.03.15\ open\ house\2023.03.15\ open\ house\2023.03.15\ open\ house\2023.03.15\ open\ house\2023.03.15\ open\ house\2023.03.15\ open\2023.03.15\ open\2023.03\ open\$ 



### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

# About Great River Energy and Minnesota Valley Electric Cooperative

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through our member-owners, we serve two-thirds of Minnesota geographically and parts of Wisconsin, including Minnesota Valley Electric Cooperative.

### **Schedule**

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construction

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**Energization** Summer 2025

### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

# **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Substation 270th StW 13 Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute Existing 345-kV transmission line Proposed 115-kV transmission line Proposed permit route corridor Existing 115-kV circuit to be removed for future 1 Miles A 0.5 incoming 345-kV circuit Existing 115-kV transmission line GREAT RIVER ENERGY.

### **Great River Energy representatives**

Existing distribution substation

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

# NOTICE

# Please join us for an

# **OPEN HOUSE**

to learn about an important electric transmission project being proposed by Minnesota Valley Electric Cooperative and Great River Energy, to be built in Scott and Rice counties

Wednesday, March 29, 2023 11:00 a.m. – 1:00 p.m. 4:00 p.m. – 6:00 p.m. The Park Ballroom 300 Lexington Ave S New Prague, MN 56071

No formal presentation will be given.

Attendees are encouraged to come anytime during the hours indicated.

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area.

If you have any questions, please contact:

### **Matthew Hagelin**

Senior Field Representative 763-445-5981 mhagelin@grenergy.com **Mark Strohfus** 

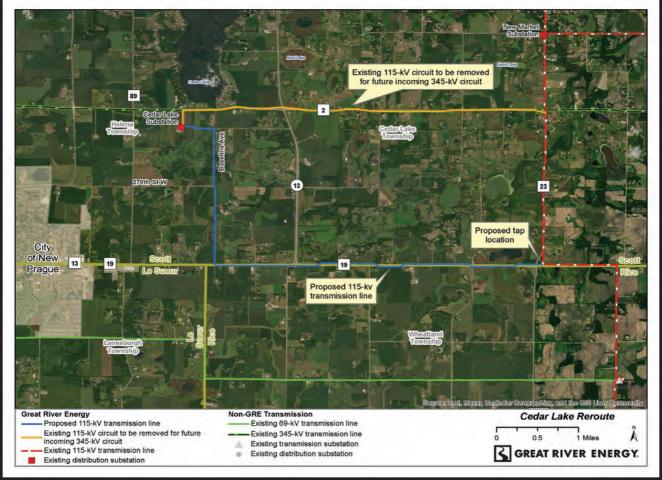
Project Manager 763-445-5210 mstrohfus@grenergy.com

Great River Energy 12300 Elm Creek Blvd N Maple Grove, MN 55369

Project updates can be found at greatriverenergy.com/CedarLakeTap

Your feedback is important to us. We encourage you to attend the open house to have your questions answered and provide any comments you may have.

### Proposed project



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If you have any questions, please contact:

Matthew Hagelin Senior Field Representative 763-445-5981

mhagelin@grenergy.com

Great River Energy 12300 Elm Creek Blvd N Maple Grove, MN 55369 Mark Strohfus Project Manager

763-445-5210 mstrohfus@grenergy.com

Project updates can be found at greatriverenergy.com/CedarLakeTap

Your feedback is important to us. We encourage you to attend the open house to have your questions answered and provide any comments you may have.

Proposed project



# Appendix C

Letter of Intent to file a Route Permit Application under the Alternative Review Procedures, dated May 3, 2023



May 3, 2023 PROJECT: Cedar Lake Reroute WO#209488

Mr. Will Seuffert Executive Secretary Minnesota Public Utilities Commission 121 7th Place East, Suite 350 St. Paul, MN 55101

Subject: Notice of Intent by Great River Energy to Submit a Route Permit Application under the

**Alternative Permitting Process** 

Rebuild Existing 115-kV Transmission Line in Scott and Rice Counties, MN

Docket No. ET2/TL-23-170

Dear Mr. Seuffert:

In accordance with Minn. R. 7850.2800, subp. 2, this letter serves as notice to the Minnesota Public Utilities Commission (Commission) that Great River Energy (Applicant) intends to submit a Route Permit Application under the alternative permitting procedures of Minn. R. 7850.2800 to 7850.3900 for the construction of a 115-kV high voltage transmission line in Scott and Rice Counties (Project). The Project will replace the existing 115-kV high voltage transmission line currently located as a second circuit on the CapX2020 Brookings to Hampton transmission line structures in Scott County, Minnesota. The Applicant intends to submit the Route Permit Application to the Commission in June 2023.

Please contact me at 763-445-5210 or by email at <a href="MStrohfus@GREnergy.com">MStrohfus@GREnergy.com</a> if you have any questions regarding this notice.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Strohfus

Project Manager, Transmission Permitting

mstrohfus@grenergy.com D: 763-445-5210

# Appendix D

Correspondence with Agencies and Tribes







April 14, 2023

Fred Souchet
Federal Aviation Administration
Air Traffic - Minnesota
fred.souchet@faa.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Fred Souchet:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Fred Souchet April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet

cc: Robert Kiser



### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

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construction

**Environmental permits** Winter 2024 – Spring 2025 **Transmission line** Fall 2024 – Summer 2025

**Energization** Summer 2025

### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

# **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

 From:
 Kiser, Robert K-CTR (FAA)

 To:
 Kristin Lenz; Souchet, Fred (FAA)

 Cc:
 Strohfus, Mark GRE-MG; Britta Bergland

Subject: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

**Date:** Monday, April 17, 2023 1:49:59 PM

Attachments: <u>image002.png</u> <u>image005.png</u>

### **CAUTION:** This email originated from outside of Merjent.

Kristin.

I'd say just to file for the transmission lines where you want them to go and if there are any that you are replacing, just show it as the prior study. Otherwise, I will wok them like I would normally. We will see how the Part 77 looks but I can't see that until they are already filed. Additionally, if you have that many miles of lines, please make sure to fill out the correct city and/or county as it makes verifying them that much easier.

Please let me know if you have any further questions or concerns. I look forward to working with you going forward on this project.

Robby

\_\_\_\_\_

NOTE: Email is the fastest way to reach me.

# Robby Kiser

Federal Aviation Administration

AJV-A51/Obstruction Evaluation Group

Air Traffic Specialist III / FAA OEG - NAVTAC Support

1701 Columbia Ave. College Park, GA 30337

Telephone: Work: 404-305-6616 Fax: 404-305-6588

Email: Robert.k-CTR.kiser@faa.gov

Level III Technician for the states of Michigan, Minnesota and Rhode Island





1) To see if your structure is required to file with FAA, please go to:

 $\underline{https://oeaaa.faa.gov/oeaaa/external/gisTools/gisAction.jsp?action=showNoNoticeRequiredToolForm}$ 

- 2) OEAAA.faa.gov Filing Instructions: <a href="https://oeaaa.faa.gov/oeaaa/external/content/instructions.jsp">https://oeaaa.faa.gov/oeaaa/external/content/instructions.jsp</a>
- 3) General FAQs: https://oeaaa.faa.gov/oeaaa/external/searchAction.jsp?action=generalFAQs
- 4) DOT/FAA Obstruction Marking & Lighting Advisory Circular (AC 70/7460-1M):

https://www.faa.gov/regulations\_policies/advisory\_circulars/index.cfm/go/document.information/documentID/1030047

- 5) Light Outage Reporting: https://oeaaa.faa.gov/oeaaa/external/content/lightOutageReporting.jsp
- 6) Helpdesk (System Issues/Support): 202-580-7500/Email: oeaaa\_helpdesk@cghtech.com

From: Kristin Lenz <kristin.lenz@merjent.com>

**Sent:** Friday, April 14, 2023 3:13 PM

**To:** Souchet, Fred (FAA) <Fred.Souchet@faa.gov>; Kiser, Robert K-CTR (FAA) <Robert.K-CTR.Kiser@faa.gov> **Cc:** Strohfus, Mark GRE-MG <MStrohfu@GREnergy.com>; Britta Bergland <bri> bergland@merjent.com>

Subject: Great River Energy Cedar Lake Reroute Project Introduction

Good afternoon,

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed letter and Project Fact Sheet provide additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/</a>. Please contact Mark Strohfus at 763-445-5210 or <a href="https://greatriverenergy.com/transmission-project/">MStrohfu@GREnergy.com/transmission-project/</a> where the proposed route. The project and the proposed route. The project and the project and

Thank you,

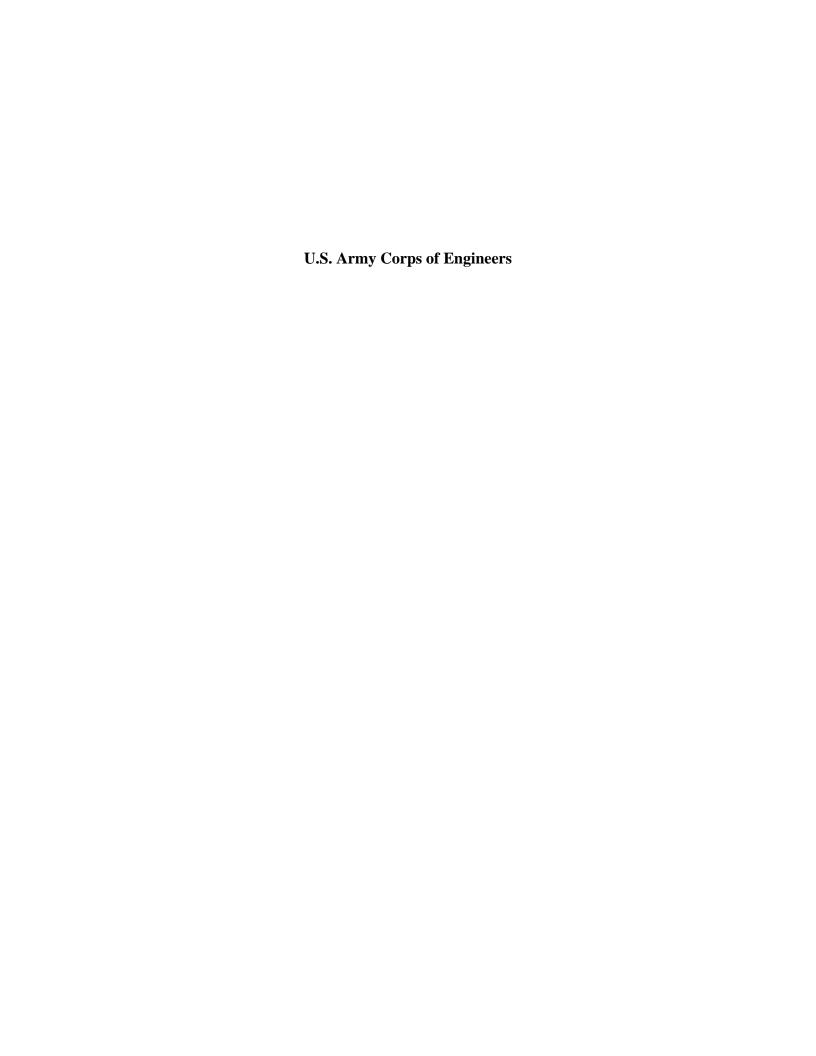
Kristin Lenz on behalf of Mark Strohfus, Great River Energy

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

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April 14, 2023

Chad Konickson
U.S. Army Corps of Engineers
St. Paul District - Regulatory and Permits
332 Minnesota St., Ste. E1500
St. Paul, MN 55101
usace\_requests\_MN@usace.army.mil

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Chad Konickson:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Chad Konickson April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

# About Great River Energy and Minnesota Valley Electric Cooperative

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through our member-owners, we serve two-thirds of Minnesota geographically and parts of Wisconsin, including Minnesota Valley Electric Cooperative.

### **Schedule**

Notifications Winter/Spring 2023 State permitting Spring 2023 – Spring 2024

Survey/design Fall 2023 – Spring 2024

Easements/

construction

**Environmental permits** Winter 2024 – Spring 2025 **Transmission line** Fall 2024 – Summer 2025

**Energization** Summer 2025

### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

# **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:



### **DEPARTMENT OF THE ARMY**

U.S. ARMY CORPS OF ENGINEERS, ST. PAUL DISTRICT 332 MINNESOTA STREET, SUITE E1500 ST. PAUL, MN 55101-1323

04/17/2023

Regulatory File No. MVP-2017-01526-RMH

### THIS IS NOT A PERMIT

Mark Strohfus

1 Main Street SE

Minneapolis, Minnesota 55414

To: Mark Strohfus:

We have received your submittal described below. You may contact the Project Manager with questions regarding the evaluation process. The Project Manager may request additional information necessary to evaluate your submittal.

File Number: MVP-2017-01526-RMH

Applicant: Mark Strohfus

Project Name: Great River Energy / Cedar Lake 115 kV Transmission Line Reroute

Project Location: Section 24 of Township 113 N, Range 23 W, Scott County, Minnesota

(Latitude: 44.5727324992638; Longitude: -93.4866532094447)

Received Date: 04/17/2023

Project Manager: Raelene Hegge

(651) 290-5355

Raelene.Hegge@usace.army.mil

Additional information about the St. Paul District Regulatory Program can be found on our web site at http://www.mvp.usace.army.mil/missions/regulatory.

Please note that initiating work in waters of the United States prior to receiving Department of the Army authorization could constitute a violation of Federal law. If you have any questions, please contact the Project Manager.

Thank you.

U.S. Army Corps of Engineers St. Paul District Regulatory Branch



#### DEPARTMENT OF THE ARMY

U.S. ARMY CORPS OF ENGINEERS, ST. PAUL DISTRICT 332 MINNESOTA STREET, SUITE E1500 ST. PAUL, MN 55101-1323

May 11, 2023

Regulatory File No. MVP-2017-01526-RMH

Great River Energy c/o: Mark Strohfus 12300 Elm Creek Blvd Maple Grove, MN 55369-4718 mstrohfus@grenergy.com

Dear Mark Strohfus:

This letter is in response to correspondence we received regarding the Great River Energy Cedar Lake Reroute Project. The project site is located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Without detailed plans, we cannot provide specific comments regarding the effects the proposed activity would have on jurisdictional waters of the United States or whether a Department of the Army Permit would be required. In lieu of a specific response, please consider the following general information concerning our regulatory program that may apply to the proposed project.

If the proposal involves activity in navigable waters of the United States, it may be subject to the Corps of Engineers' jurisdiction under Section 10 of the Rivers and Harbors Act of 1899 (Section 10). Section 10 prohibits the construction, excavation, or deposition of materials in, over, or under navigable waters of the United States, or any work that would affect the course, location, condition, or capacity of those waters, unless the work has been authorized by a Department of the Army permit.

If the proposal involves discharge of dredged or fill material into waters of the United States, it may be subject to the Corps of Engineers' jurisdiction under Section 404 of the Clean Water Act (CWA Section 404). Waters of the United States include navigable waters, their tributaries, and adjacent wetlands (33 CFR § 328.3). CWA Section 301(a) prohibits discharges of dredged or fill material into waters of the United States, unless the work has been authorized by a Department of the Army permit under Section 404. Information about the Corps permitting process can be obtained online at <a href="http://www.mvp.usace.army.mil/regulatory">http://www.mvp.usace.army.mil/regulatory</a>.

The Corps evaluation of a Section 10 and/or a Section 404 permit application involves multiple analyses, including (1) evaluating the proposal's impacts in accordance with the National Environmental Policy Act (NEPA) (33 CFR part 325), (2) determining whether the proposal is contrary to the public interest (33 CFR § 320.4), and (3) in the case of a Section 404 permit, determining whether the proposal complies with the Section 404(b)(1) Guidelines (Guidelines) (40 CFR part 230).

If the proposal requires a Section 404 permit application, the Guidelines specifically require that "no discharge of dredged or fill material shall be permitted if there is a practicable

### Regulatory Branch (File No. MVP-2017-01526-RMH)

alternative to the proposed discharge which would have less adverse impact on the aquatic ecosystem, so long as the alternative does not have other significant adverse environmental consequences" (40 CFR § 230.10(a)). Time and money spent on the proposal prior to applying for a Section 404 permit cannot be factored into the Corps' decision whether there is a less damaging practicable alternative to the proposal.

If an application for a Corps permit has not yet been submitted, the project proposer may request a pre-application consultation meeting with the Corps to obtain information regarding the data, studies or other information that will be necessary for the permit evaluation process. A pre-application consultation meeting is strongly recommended if the proposal has substantial impacts to waters of the United States, or if it is a large or controversial project.

If you have any questions, please contact Raelene Hegge in our St. Paul office at (651) 290-5355 or Raelene.Hegge@usace.army.mil. In any correspondence or inquiries, please refer to the Regulatory file number shown above.

Sincerely,

Raelene Hegge Regulatory Specialist

CC:

Kristin Lenz, Merjent (kristin.lenz@merjent.com)

### U.S. Fish and Wildlife Service Minnesota Valley Wetland Management District



April 14, 2023

Eric Mruz
U.S. Fish and Wildlife Service
Minnesota Valley Wetland Management District
3815 American Blvd.
Bloomington, MN 55425
eric mruz@fws.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Eric Mruz:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Eric Mruz April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet

MStrohfu@GREnergy.com D: 763-445-5210



#### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

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Typical 115-kV wood single circuit structure with and without distribution under build.

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on each side of the centerline

Permits – MN Public Utilities Commission route permit

## **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

#### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

From: Britta Bergland

To:Healy, Faye L; Mruz, Eric; Randa, Jacob GCc:Strohfus, Mark GRE-MG; Kristin Lenz

Subject: RE: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

**Date:** Friday, May 19, 2023 11:45:31 AM

Attachments: image001.png

image002.png image003.png

That works, thank you! I'll set up a meeting.

Have a great weekend -

Britta

#### **Britta Bergland**

612.746.3673 direct 612.220.9692 mobile britta.bergland@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

**From:** Healy, Faye L <faye\_healy@fws.gov>

Sent: Friday, May 19, 2023 9:28 AM

**To:** Britta Bergland <a href="mailto:bergland@merjent.com">britta.bergland@merjent.com</a>; Mruz, Eric <eric\_mruz@fws.gov</a>; Randa, Jacob

G < Jacob Randa@fws.gov>

Cc: Strohfus, Mark GRE-MG <MStrohfu@GREnergy.com>; Kristin Lenz <kristin.lenz@merjent.com>

Subject: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Would 9-10am on Tuesday the 23<sup>rd</sup> work?

**Faye Healy** (she/her) · Supervisory Wildlife Refuge Specialist · Minnesota Valley National Wildlife Refuge & Wetland Management District · 3815 American Blvd East · Bloomington MN 55425 · cell 612-720-3420 · faye healy@fws.gov



Find us on Facebook | On the Web: fws.gov/refuge/minnesota\_valley

**From:** Britta Bergland < britta.bergland@merjent.com >

**Sent:** Wednesday, May 17, 2023 1:19 PM

**To:** Healy, Faye L < faye\_healy@fws.gov>; Mruz, Eric < eric\_mruz@fws.gov>; Randa, Jacob G < Jacob Randa@fws.gov>

**Cc:** Strohfus, Mark GRE-MG < <u>MStrohfu@GREnergy.com</u>>; Kristin Lenz < <u>kristin.lenz@merient.com</u>>

Subject: RE: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Hi Faye, thanks – I am only free until 10am on Wednesday – I have an appointment that starts at 10am. Do any other times work for you? Feel free to send over some blocks of time that are good on your end.

Thanks!

#### **Britta Bergland**

612.746.3673 direct 612.220.9692 mobile britta.bergland@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merient.com

From: Healy, Faye L < <a href="mailto:faye\_healy@fws.gov">faye L < faye\_healy@fws.gov</a> Sent: Wednesday, May 17, 2023 7:30 AM

**To:** Britta Bergland < britta.bergland@merjent.com >; Mruz, Eric < eric\_mruz@fws.gov >; Randa, Jacob G < Jacob Randa@fws.gov >

**Cc:** Strohfus, Mark GRE-MG < <u>MStrohfu@GREnergy.com</u>>; Kristin Lenz < <u>kristin.lenz@merjent.com</u>>

Subject: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

We are available Wednesday at 10 am.

**Faye Healy** (she/her) · Supervisory Wildlife Refuge Specialist · Minnesota Valley National Wildlife Refuge & Wetland Management District · 3815 American Blvd East · Bloomington MN 55425 · cell 612-720-3420 · faye healy@fws.gov



Find us on Facebook | On the Web: fws.gov/refuge/minnesota valley

**From:** Britta Bergland < britta.bergland@merjent.com >

**Sent:** Tuesday, May 16, 2023 12:11 PM

**To:** Healy, Faye L < faye\_healy@fws.gov>; Mruz, Eric < eric\_mruz@fws.gov>; Randa, Jacob G < Jacob Randa@fws.gov>

Cc: Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com >; Kristin Lenz < kristin.lenz@merient.com >

Subject: RE: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Good afternoon – Yes, we'd be happy to set a meeting for next week. Would your group have availability between 8-10am on Monday, Tuesday, Wednesday, or Friday? To be safe I think we should book an hour. If you let me know a time that works for you, I can send an invite.

Thanks!

#### **Britta Bergland**

612.746.3673 direct 612.220.9692 mobile britta.bergland@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merient.com

From: Healy, Faye L < faye\_healy@fws.gov> Sent: Tuesday, May 16, 2023 11:03 AM

**To:** Britta Bergland < britta.bergland@merjent.com >; Mruz, Eric < eric\_mruz@fws.gov >; Randa, Jacob G < Jacob Randa@fws.gov >

**Cc:** Strohfus, Mark GRE-MG < <a href="MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a>; Kristin Lenz < <a href="mailto:kristin.lenz@merjent.com">kristin.lenz@merjent.com</a>>

**Subject:** Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Hi Britta,

Eric is on annual leave right now, but he will be back by next week.

We had some questions about this project. Would it be possible for us to set up a call for next week to discuss?

**Thanks** 

**Faye Healy** (she/her) · Supervisory Wildlife Refuge Specialist · Minnesota Valley National Wildlife Refuge & Wetland Management District · 3815 American Blvd East · Bloomington MN 55425 · cell 612-720-3420 · faye\_healy@fws.gov



**From:** Britta Bergland < britta.bergland@merjent.com >

**Sent:** Tuesday, May 16, 2023 11:00 AM **To:** Mruz, Eric < eric mruz@fws.gov>

**Cc:** Healy, Faye L < <a href="mailto:faye\_healy@fws.gov">faye healy@fws.gov</a>>; Strohfus, Mark GRE-MG < <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a>>;

Kristin Lenz < kristin.lenz@merjent.com >

Subject: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Good morning Eric – just checking in on this item. We are planning to file a Route Permit Application with the Minnesota Public Utilities Commission soon and would like to accurately characterize this area in our materials.

Thanks so much for your help!

Britta

#### **Britta Bergland**

612.746.3673 direct 612.220.9692 mobile britta.bergland@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660

www.merjent.com

From: Mruz, Eric < <a href="mruz@fws.gov">eric\_mruz@fws.gov">eric\_mruz@fws.gov</a>>
Sent: Monday, May 1, 2023 1:49 PM

**To:** Britta Bergland < britta.bergland@merjent.com >

Cc: Healy, Faye L < faye healy@fws.gov>

Subject: Re: EXTERNAL: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Britta,

my apologies, we are still working on a response.

Thanks

**Eric Mruz** · Acting Project Leader · Minnesota Valley National Wildlife Refuge & Wetland Management District Complex · 3815 American Blvd East · Bloomington MN 55425 · cell 612-590 - 8073 · eric\_mruz@fws.gov



Find us on Facebook | On the Web: fws.gov/refuge/minnesota valley

From: Britta Bergland < britta.bergland@merjent.com >

**Sent:** Friday, April 28, 2023 2:24 PM **To:** Mruz, Eric <<u>eric mruz@fws.gov</u>>

Cc: Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com >; Hagelin, Matthew GRE-MG

<mhagelin@GREnergy.com>; Kristin Lenz <kristin.lenz@merjent.com>

Subject: RE: EXTERNAL: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Hi Eric -

Hope you are well – just checking in on the request below. Thank you for your help!

Britta

#### **Britta Bergland**

612.746.3673 direct 612.220.9692 mobile britta.bergland@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660

www.merjent.com

From: Britta Bergland

**Sent:** Thursday, April 13, 2023 3:19 PM **To:** Mruz, Eric < <a href="mailto:eric\_mruz@fws.gov">eric\_mruz@fws.gov</a>>

Cc: Strohfus, Mark GRE-MG < <a href="MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a>; Hagelin, Matthew GRE-MG

<mhagelin@GREnergy.com>; Kristin Lenz <kristin.lenz@merjent.com>

Subject: RE: EXTERNAL: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

Hi Eric.

Thanks for the quick response. The attached shapefile presents the route width that GRE is considering requesting from the Minnesota Public Utilities Commission as part of the Route Permit process. The transmission line, as well as any temporary construction workspace and permanent rights-of-way, would be contained within this area.

We'd appreciate your review of all FWS interests that intersect with this shape. We're especially interested in copies of public records regarding the easements and any additional information you can share that might impact GRE's routing efforts in this area.

Thanks!

#### Britta

#### **Britta Bergland**

612.746.3673 direct 612.220.9692 mobile britta.bergland@merjent.com



www.merjent.com

1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660

From: Mruz, Eric < <a href="mruz@fws.gov">eric mruz@fws.gov</a> Sent: Wednesday, April 12, 2023 11:45 AM

**To:** Britta Bergland < <u>britta.bergland@merjent.com</u>>

Cc: Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com >; Hagelin, Matthew GRE-MG

<mhagelin@GREnergy.com>; Kristin Lenz <kristin.lenz@merjent.com>

Subject: EXTERNAL: Re: [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

**CAUTION:** This email originated from outside of Merjent.

Britta.

thank you for reaching out and providing this information. Would it be possible to get a georeferenced file (like a geodatabase feature class or shapefile) so we could line it up with the FWS cadastral layer?

**Eric Mruz** · Acting Project Leader · Minnesota Valley National Wildlife Refuge & Wetland Management District Complex · 3815 American Blvd East · Bloomington MN 55425 · cell 612-590 - 8073 · eric\_mruz@fws.gov



Find us on Facebook | On the Web: fws.gov/refuge/minnesota valley

**From:** Britta Bergland < britta.bergland@merjent.com>

Sent: Wednesday, April 12, 2023 10:21 AM

**To:** Mruz, Eric < <a href="mruz@fws.gov">eric\_mruz@fws.gov">eric\_mruz@fws.gov</a>>

**Cc:** Strohfus, Mark GRE-MG < <a href="MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a>>; Hagelin, Matthew GRE-MG

<mhagelin@GREnergy.com>; Kristin Lenz <kristin.lenz@merjent.com>

**Subject:** [EXTERNAL] GRE Cedar Lake Reroute Project - FWS Interest Review

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

#### Hi Eric -

Great River Energy will be applying to the Minnesota Public Utilities Commission (Commission) for a Route Permit to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice County, MN, referred to as the Cedar Lake Reroute Project (Project). Great River Energy anticipates filing the Route Permit application with the Commission later in 2023. Great River Energy held an Open House in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. This has resulted in refinements to the originally designed proposed route based on landowners' comments. At this time, Great River Energy proposes that the Project follow an approximately 6.3-mile route starting from the existing Cedar Lake Substation to tie-in with Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. I've attached a fact sheet and overview map with additional Project information.

During routing review, we identified two USFWS units in the vicinity of the Project that are part of the Scott County Waterfowl Production Area – these are identified in USFWS realty data as the Wixon and Cervenka Easements (see below). Both are within T112, R22, S3. We are hoping that you could provide us with a copy of these easements and feedback regarding routing in this area. Please let me know if you need additional information to complete your review – thank you!

#### Britta



#### **Britta Bergland**

## **Great River Energy Cedar Lake Reroute Project**

## U.S. Fish and Wildlife Service (USFWS) – Minnesota Valley Wetland Management District Meeting Notes – May 23, 2023

Participants: Steve Lawler (Great River Energy), Kristin Lenz (Merjent), Britta Bergland (Merjent), Eric Mruz (USFWS, Minnesota Valley Wetland Management District, Deputy Manager), Faye Healy (USFWS, Minnesota Valley Wetland Management District), Jacob Randa (USFWS, Wildlife Refuge Specialist)

Lenz and Bergland provided an overview of the Cedar Lake Reroute Project (Project) purpose and Proposed Route using a web viewer with Project and resource layers. Lenz explained that Great River Energy is currently preparing to apply for a Route Permit (RP) with the Minnesota Public Utilities Commission (MPUC). The RP application will include a route width for the Proposed Route and will include other route alternatives. The MPUC will determine which Route Width will be utilized for the Project. Within the Route Width (which is proposed as 400 feet for the Project), Great River Energy will have flexibility to move the Route Alignment based on feedback from stakeholders, including landowners and permitting agencies. This flexibility in the Route Alignment is in part in order to minimize and avoid impacts to resources along the route and allow for execution of final easements with underlying landowners. Although the Route Width currently overlaps with the USFWS Waterfowl Production Area (WPA) easements, the Route Alignment is largely to the south of the easements along 280<sup>th</sup> St E / State Highway 19, except for one portion on the eastern side where the Project Alignment currently crosses back over to the north side of 280<sup>th</sup> St E / State Highway 19 prior to connecting to Great River Energy's existing 115-kV transmission line along Panama Ave. The right-of-way (ROW) or easement width that Great River Energy would require for the Project Alignment would be 100 feet; 50 feet on either side of the line. Trees would be cleared within the 100-foot-wide ROW. Lawler shared that the proposed construction start is fall 2024.

USFWS inquired whether Great River Energy has contacted the landowners associated with the WPA. Lenz confirmed that Great River Energy held an Open House for the Project in New Prague in March 2023 and that one of the landowners attended.

USFWS also inquired regarding the process for landowner engagement and easement acquisition. Lenz explained that Great River Energy has interacted with several of the landowners along the Proposed Route. The Project Alignment would not be finalized until the MPUC selects a route, and then Great River Energy will work with resource agencies (as part of the permitting process) and landowners to finalize the alignment, including pole placement.

Lenz and Lawler asked regarding the location of the southern extent of the WPA, which does not seem accurate because the easements extend across the Minnesota Department of Transportation State Highway 19 easement to the south side of the road. Randa indicated that the road has moved a few times so it is possible that the USFWS easement does extend across the road. Randa will request a review of the legal boundaries of the easement; this will be completed by USFWS Realty staff.

After understanding the proposed Project impacts, Mruz stated that a crossing of the USFWS interests would typically be through a ROW Grant. This process takes about 2 years and would include a National Environmental Policy Act (NEPA) component. USFWS has concerns regarding potential impacts to wetlands and wildlife. This wetland is very productive for migratory birds. Bergland asked if the permitting process would change if permanent impacts could be avoided – for example, if poles were placed outside of USFWS interests and the transmission line just spanned the USFWS interest. Mruz was unsure and will confirm with USFWS Realty regarding the permit mechanism and process.

# Great River Energy Cedar Lake Reroute Project Co (USEWS) - Minnesota Valloy Wetland Me

## U.S. Fish and Wildlife Service (USFWS) – Minnesota Valley Wetland Management District Meeting Notes – May 23, 2023

USFWS inquired on whether other route alternatives have been reviewed, including joining or aligning with/widening the existing CapX2020 structures. Lawler indicated that several other route alternatives have been reviewed, and joining the CapX2020 structure is not an option because Xcel Energy will be stringing the second 345-kV circuit on those structures; for that reason Great River Energy has to vacate these structures with the existing transmission line. Landowners along the CapX line have also already recently been disturbed. The intent of the Project is to move wind and solar energy out of southwest Minnesota, and this Project is important to ensuring that occurs. There is an existing Minnesota Valley Electric Cooperative (Minnesota Valley) distribution line along 280<sup>th</sup> St E / State Highway 19. Great River Energy understands that Minnesota Valley would likely bury where the new transmission line overtakes the distribution lines. Great River Energy typically places its line 2 feet within private property lines when along road easements.

Lawler stated that in terms of avian mitigation, Great River Energy can install bird diverters on top of the poles. USFWS requested an Avian Mitigation Plan and would like to have input on that plan, including the type of diverters used.

USFWS inquired whether the transmission line can be buried; Lawler indicated that distribution lines can be buried, burying transmission lines is cost prohibitive. USFWS inquired why Great River Energy cannot stay on the south side of 280<sup>th</sup> St E / State Highway 19 to avoid the USFWS interest. Lenz indicated that Great River Energy is trying to avoid additional tree clearing for the landowner to the south, as well as proximity to structures. The Minnesota Valley distribution line currently crosses this landowners' property, but additional tree clearing would be necessary for the transmission line.

Lenz requested a copy of the WPA easements; USFWS indicated these are public record and should be available from the County recorder; USFWS will also review its ability to share the records. Randa provided an easement number.

USFWS reiterated their desire to keep the line to the south of the easements and south of 280<sup>th</sup> St E / State Highway 19; they noted that the USFWS District is short staffed and it would be a minimum of 2 years to process any authorization. Lawler indicated that two years would be problematic for the Project schedule and inquired if Great River Energy could facilitate a cost recovery agreement to facilitate USFWS project review.

USFWS inquired on the extent of clearing associated with the existing distribution lines. Lawler indicated that Minnesota Valley minimizes clearing, mainly just to keep trees off the line; the transmission line will require tree clearing 50 feet either side of centerline to avoid falling trees taking down lines and causing outages.

USFWS asked for a map of the layers shown on the call (USFWS easements, property lines, proposed Project Alignment and Route Width, and existing distribution line); Merjent will prepare and provide. USFWS asked if Great River Energy could show a route that avoids the easements; Lenz stated that this would not be immediately available, but that Merjent would discuss with Great River Energy after the meeting. Bergland noted that this meeting correspondence will be included in the pending RP application to show agency consultation, and offered to share notes from the call with USFWS.

### Great River Energy

#### Cedar Lake Reroute Project

## U.S. Fish and Wildlife Service (USFWS) – Minnesota Valley Wetland Management District Meeting Notes – May 23, 2023

#### **Action Items:**

#### **USFWS Actions:**

- Check on availability of easements; confirm southern boundary of the easements relative to 280<sup>th</sup> St E / State Highway 19
- Check on permitting mechanism if transmission line spans property without poles placed in property

#### **Great River Energy:**

- Provide map of route alignment across USFWS interest
- Provide map of potential alternatives avoiding pole placement and/or avoiding USFWS interest entirely
- Provide copy of meeting notes

#### **Kristin Lenz**

From: Kristin Lenz

**Sent:** Friday, June 2, 2023 11:51 AM

To: 'Mruz, Eric'

Cc: Strohfus, Mark GRE-MG; Hagelin, Matthew GRE-MG; Lawler, Steve GRE-MG; Britta Bergland; Healy,

Faye L; Randa, Jacob G

**Subject:** RE: GRE/USFWS - Cedar Lake Reroute Project

**Attachments:** GRE\_CedarLake\_USFWS\_MVWMD\_RouteUpdate\_20230602.pdf

#### Good morning Eric,

Great River Energy was able to obtain and review the easement documents associated with the Scott County Waterfowl Production Area (WPA) (easement numbers A477514, A4775115 and A477516), and has also revised the Proposed Alignment associated with the Cedar Lake Reroute Project to avoid structure placement within the Scott County WPA. The attached letter provides additional information regarding Great River Energy's review of the easement documents and includes a map with the revised Proposed Alignment. Great River Energy would appreciate any comments that you may have on the revised Proposed Alignment.

Please contact Mark Strohfus at 763-445-5210 or MStrohfus@GREnergy.com should you need additional information.

Thank you,

Kristin Lenz, on behalf of Mark Strofhus, Great River Energy

#### Kristin Lenz

Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

From: Mruz, Eric <eric\_mruz@fws.gov> Sent: Friday, May 26, 2023 8:52 AM

To: Kristin Lenz < kristin.lenz@merjent.com>

**Cc:** Strohfus, Mark GRE-MG <MStrohfu@GREnergy.com>; Hagelin, Matthew GRE-MG <mhagelin@GREnergy.com>; Lawler, Steve GRE-MG <slawler@GREnergy.com>; Britta Bergland <br/>
Stritta.bergland@merjent.com>; Healy, Faye L

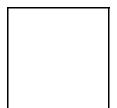
<faye\_healy@fws.gov>; Randa, Jacob G <Jacob\_Randa@fws.gov>

Subject: EXTERNAL: Re: [EXTERNAL] RE: GRE/USFWS - Cedar Lake Reroute Project Meeting Notes

#### **CAUTION:** This email originated from outside of Merjent.

Thanks Kristen for sending over the notes from our meeting. We are meeting with our realty staff late next week and will get back to you shortly after that.

**Eric Mruz** · Acting Project Leader · Minnesota Valley National Wildlife Refuge & Wetland Management District Complex · 3815 American Blvd East · Bloomington MN 55425 · cell 612-590 - 8073 · eric\_mruz@fws.gov



Find us on Facebook | On the Web: fws.gov/refuge/minnesota valley

From: Kristin Lenz < kristin.lenz@merjent.com>

Sent: Thursday, May 25, 2023 2:09 PM

**To:** Healy, Faye L <faye\_healy@fws.gov>; Mruz, Eric <eric\_mruz@fws.gov>; Randa, Jacob G <Jacob\_Randa@fws.gov> **Cc:** Strohfus, Mark GRE-MG <MStrohfu@GREnergy.com>; Hagelin, Matthew GRE-MG <mhagelin@GREnergy.com>;

Lawler, Steve GRE-MG <slawler@GREnergy.com>; Britta Bergland <bri>britta.bergland@merjent.com>

Subject: [EXTERNAL] RE: GRE/USFWS - Cedar Lake Reroute Project Meeting Notes

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

#### Good afternoon,

Thanks again for meeting with us this week to discuss the Great River Energy Cedar Lake Reroute Project. Attached are the meeting notes for your review. As Britta mentioned, we plan to include these notes in an Agency Correspondence appendix associated with the Route Permit application. Please let us know if you have any revisions.

Thank you! Kristin

#### Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



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12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

June 2, 2023

Eric Mruz
U.S. Fish and Wildlife Service
Minnesota Valley Wetland Management District
3815 American Blvd.
Bloomington, MN 55425
eric mruz@fws.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Eric Mruz:

We appreciate the opportunity to meet with the U.S. Fish and Wildlife Service (USFWS) Minnesota Valley Wetland Management District on May 23, 2023. During that discussion, the USFWS requested that Great River Energy review the Cedar Lake Reroute Project Proposed Alignment and avoid impacting the Scott County Waterfowl Production Area (WPA).

Great River Energy was able to obtain and review the easement documents associated with the Scott County WPA (easement numbers A477514, A4775115 and A477516). Based on our review of these documents, the easements are subject to all valid existing rights-of-way for highways, roads, railroads, pipelines, canals, laterals, electrical transmission lines, cable lines, and all mineral rights. This is consistent with long-standing Minnesota law, which grants electric power companies, like Great River Energy, the right to use road rights-of-way. See Minn. Stat. § 222.37 ("Any . . . electric light, heat, power company may use public roads for the purpose of constructing, using, operating, and maintaining lines, . . . for their business. . . ."); see also Minneapolis Gas Co. v. Zimmerman, 91 N.W.2d 642, 649 (Minn. 1958) ("Clearly since the Cater decision in 1895, Minnesota has been definitely committed to the use that the use of rights-of-way by utilities for locating their facilities is one of the proper and primary purposes for which highways are designed. . . ."). Accordingly, as a matter of law, Great River Energy has the right to use the road (subject to the road authority's regulation), though it may also be encumbered in part by the USFWS easements.

Great River Energy has revised the Proposed Alignment to extend farther to the east south of 280<sup>th</sup> St E / State Highway 19 before crossing to the north side of the highway to avoid structure placement within the Scott County WPA; however, the 100-foot-wide right-of-way associated with the Proposed Alignment would still overlap a portion of the Scott County WPA, as reflected in the enclosed figure. This overlap would occur entirely within the 280<sup>th</sup> St E / State Highway 19 road right-of-way, which Great River Energy has a legal right to use, and to which the USFWS easements are subordinate. To ensure safe and reliable operation of the proposed transmission line, Great River Energy would maintain the ROW by clearing any tall growing species. Given that this area of the WPA is cleared road ROW, this would not alter the WPA, and there would be no impacts to the WPA. Great River Energy proposes this revised Proposed Alignment in consideration of Minnesota law, and the express USFWS easement language, and to minimize tree clearing both north and south of 280<sup>th</sup> St E / State Highway 19.

MStrohfus@GREnergy.com

Eric Mruz June 2, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the revised Proposed Alignment. Please contact me at 763-445-5210 or <a href="MStrohfus@GREnergy.com">MStrohfus@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

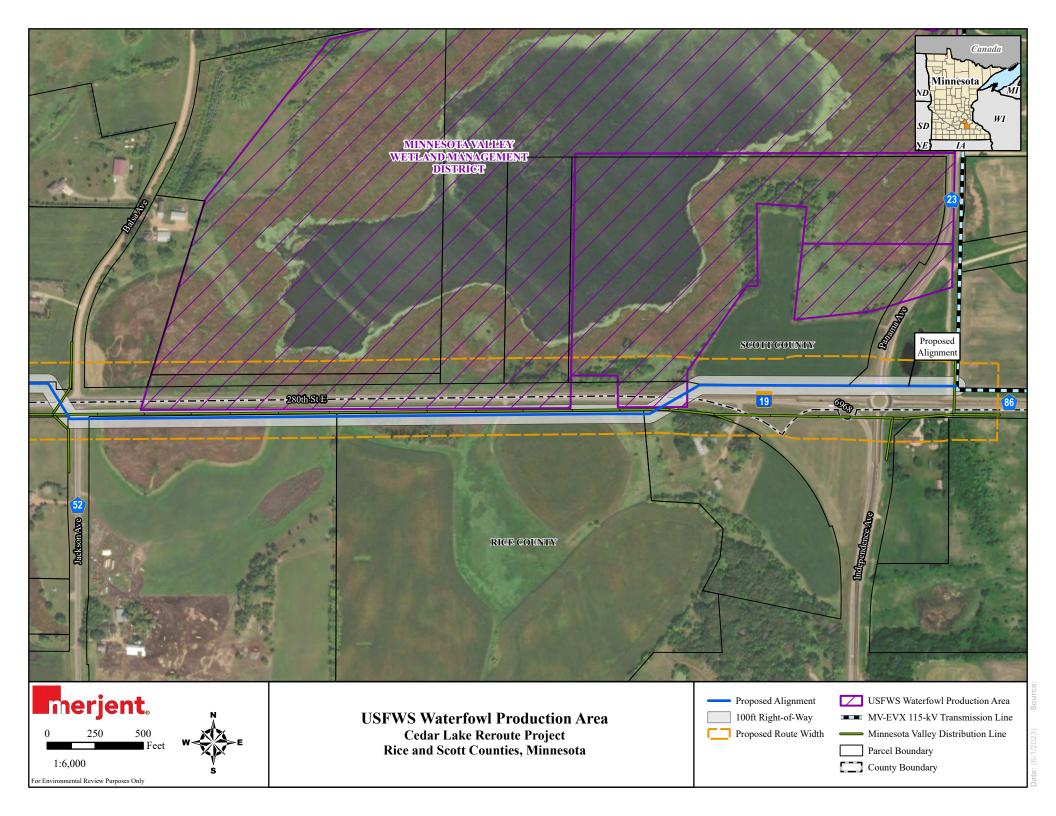
Project Manager, Transmission Permitting

cc: Britta Bergland, Merjent

Kristin Lenz, Merjent

Encl: Revised Proposed Alignment Figure

MStrohfu@GREnergy.com D: 763-445-5210



### U.S. Fish and Wildlife Service Minnesota Ecological Services Field Office



12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 17, 2023

Shauna Marquardt
U.S. Fish and Wildlife Service
Minnesota Ecological Services Field Office
3815 American Blvd.
Bloomington, MN 55425
Shauna Marquardt@fws.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Shauna Marquardt:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

MStrohfu@GREnergy.com D: 763-445-5210

Shauna Marquardt April 17, 2023 Page 2

Great River Energy obtained an official species list and determination for the Project (Project code 2023-0069468, Project locator 217-125004562) via the USFWS Information for Planning and Consultation (IPaC) planning tool on April 14, 2023. Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at:

https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/. Please contact me at 763-445-5210 or <a href="MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet

MStrohfu@GREnergy.com D: 763-445-5210



#### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley
Electric Cooperative
125 Minnesota Valley Electric Drive
Jordan, MN 55352
1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

#### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

#### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

# About Great River Energy and Minnesota Valley Electric Cooperative

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through our member-owners, we serve two-thirds of Minnesota geographically and parts of Wisconsin, including Minnesota Valley Electric Cooperative.

#### **Schedule**

Notifications Winter/Spring 2023

**State permitting** Spring 2023 – Spring 2024 **Survey/design** Fall 2023 – Spring 2024

Easements/

construction

**Environmental permits** Winter 2024 – Spring 2025 **Transmission line** Fall 2024 – Summer 2025

Energization

Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

## **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

#### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

From: <u>Marquardt, Shauna R</u>

To: <u>Kristin Lenz</u>

Cc: Strohfus, Mark GRE-MG; Britta Bergland; Mandy Bohnenblust

Subject: Re: EXTERNAL: Re: [EXTERNAL] Great River Energy Cedar Lake Reroute Project Introduction

**Date:** Monday, April 17, 2023 4:03:16 PM

Attachments: <u>image001.png</u>

Thank you for the follow-up Kristin,

I'll forward your request to a biologist for review. The consistency and verification letters you received are official correspondence from USFWS and require no additional concurrence from us if your project fits the measures outlined in the determination keys and predetermined outcomes. If a permit from USACE or USFWS National Wildlife Refuges is required, you should provide your documentation to them so they can review as federal agencies with ESA section 7 responsibilities. Because of the potential intersection with NWR lands, I'll ask the reviewer to provide any additional recommendations and coordinate with National Wildlife Refuges as appropriate.

\_\_\_\_\_

Shauna Marquardt (<a href="sheether">sheether</a>)
Field Office Supervisor
U.S. Fish and Wildlife Service

Minnesota-Wisconsin Ecological Services Field Office

mobile: 573-239-3293

From: Kristin Lenz < kristin.lenz@merjent.com>

**Sent:** Monday, April 17, 2023 12:00 PM

**To:** Marquardt, Shauna R < Shauna\_Marquardt@fws.gov>

Cc: Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com >; Britta Bergland

<britta.bergland@merjent.com>; Mandy Bohnenblust <mandy.bohnenblust@merjent.com>

Subject: RE: EXTERNAL: Re: [EXTERNAL] Great River Energy Cedar Lake Reroute Project Introduction

Good morning Shauna,

This Project does not have a federal funding source; however, it may require a federal permit from the U.S. Army Corps of Engineers and/or the U.S. Fish and Wildlife for crossing of a Waterfowl Production Area. Final permit requirements will be determined based on the route approved by the Minnesota Public Utilities Commission.

Based on the results of the Official Species List, Merjent, on behalf of Great River Energy, completed the Determination Key (DKey) for the northern long-eared bat. If a federal authorization is not required for the project, the DKey indicate that the project will 'not result in unauthorized take' of northern long-eared bats. If a federal authorization is required, the federal action agency can review the project in IPaC and convert the consistency letter to a concurrence letter. We do not anticipate that the project will have "unauthorized take" or "adverse impacts" to federally listed species.

Great River Energy would appreciate any comments that you may have on the Project and the proposed route.

Thank you,

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

From: Marquardt, Shauna R < Shauna\_Marquardt@fws.gov>

**Sent:** Monday, April 17, 2023 11:00 AM **To:** Kristin Lenz < kristin.lenz@merjent.com>

Cc: Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com>; Britta Bergland

<britta.bergland@merjent.com>; Mandy Bohnenblust <mandy.bohnenblust@merjent.com>
Subject: EXTERNAL: Re: [EXTERNAL] Great River Energy Cedar Lake Reroute Project Introduction

**CAUTION:** This email originated from outside of Merjent.

Good morning,

Thanks for contacting the U.S. Fish and Wildlife Service. Does this project have any federal funding sources (e.g. Rural Utilities Service or infrastructure funding)? Based on the results of your IPaC submission, determination key results, and subsequent analysis, do you anticipate potential impacts to listed species?

Shauna Marquardt (she/her)
Field Office Supervisor
U.S. Fish and Wildlife Service

Minnesota-Wisconsin Ecological Services Field Office

mobile: 573-239-3293

**From:** Kristin Lenz < <u>kristin.lenz@merjent.com</u>>

**Sent:** Monday, April 17, 2023 10:34 AM

**To:** Marguardt, Shauna R < Shauna Marguardt@fws.gov>

Cc: Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com >; Britta Bergland

<br/>veritta.bergland@merjent.com>; Mandy Bohnenblust <mandy.bohnenblust@merjent.com>

Subject: [EXTERNAL] Great River Energy Cedar Lake Reroute Project Introduction

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#### Good morning,

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy obtained an official species list and determination for the Project (Project code 2023-0069468, Project locator 217-125004562) via the USFWS Information for Planning and Consultation (IPaC) planning tool on April 14, 2023. Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed letter and Project Fact Sheet provide additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/</a>. Please contact Mark Strohfus at 763-445-5210 or <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/</a>. Please contact Mark Strohfus at 763-445-5210 or <a href="https://greatriverenergy.com/transmission-project/">MStrohfu@GREnergy.com</a> should you need additional information.

Thank you, Kristin Lenz on behalf of Mark Strohfus, Great River Energy

#### Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merient.com



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#### www.merjent.com

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## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Minnesota-Wisconsin Ecological Services Field Office 3815 American Blvd East Bloomington, MN 55425-1659 Phone: (952) 858-0793 Fax: (952) 646-2873

In Reply Refer To: April 27, 2023

Project Code: 2023-0074835 Project Name: Cedar Lake

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

This response has been generated by the Information, Planning, and Conservation (IPaC) system to provide information on natural resources that could be affected by your project. The U.S. Fish and Wildlife Service (Service) provides this response under the authority of the Endangered Species Act of 1973 (16 U.S.C. 1531-1543), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d), the Migratory Bird Treaty Act (16 U.S.C. 703-712), and the Fish and Wildlife Coordination Act (16 U.S.C. 661 *et seq.*).

#### **Threatened and Endangered Species**

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seg.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS IPaC system by completing the same process used to receive the enclosed list.

#### **Consultation Technical Assistance**

Please refer to refer to our <u>Section 7 website</u> for guidance and technical assistance, including <u>step-by-step instructions</u> for making effects determinations for each species that might be present and for specific guidance on the following types of projects: projects in developed areas, HUD, CDBG, EDA, USDA Rural Development projects, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

We recommend running the project (if it qualifies) through our Minnesota-Wisconsin Federal Endangered Species Determination Key (Minnesota-Wisconsin ("D-key")). A demonstration video showing how-to access and use the determination key is available. Please note that the Minnesota-Wisconsin D-key is the third option of 3 available d-keys. D-keys are tools to help Federal agencies and other project proponents determine if their proposed action has the potential to adversely affect federally listed species and designated critical habitat. The Minnesota-Wisconsin D-key includes a structured set of questions that assists a project proponent in determining whether a proposed project qualifies for a certain predetermined consultation outcome for all federally listed species found in Minnesota and Wisconsin (except for the northern long-eared bat- see below), which includes determinations of "no effect" or "may affect, not likely to adversely affect." In each case, the Service has compiled and analyzed the best available information on the species' biology and the impacts of certain activities to support these determinations.

If your completed d-key output letter shows a "No Effect" (NE) determination for all listed species, print your IPaC output letter for your files to document your compliance with the Endangered Species Act.

For Federal projects with a "Not Likely to Adversely Affect" (NLAA) determination, our concurrence becomes valid if you do not hear otherwise from us after a 30-day review period, as indicated in your letter.

If your d-key output letter indicates additional coordination with the Minnesota-Wisconsin Ecological Services Field Office is necessary (i.e., you get a "May Affect" determination), you will be provided additional guidance on contacting the Service to continue ESA coordination outside of the key; ESA compliance cannot be concluded using the key for "May Affect" determinations unless otherwise indicated in your output letter.

Note: Once you obtain your official species list, you are not required to continue in IPaC with d-keys, although in most cases these tools should expedite your review. If you choose to make an effects determination on your own, you may do so. If the project is a Federal Action, you may want to review our section 7 step-by-step instructions before making your determinations.

# Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species

- If IPaC returns a result of "There are no listed species found within the vicinity of the project," then
  project proponents can conclude the proposed activities will have **no effect** on any federally listed
  species under Service jurisdiction. Concurrence from the Service is not required for **no**effect determinations. No further consultation or coordination is required. Attach this letter to the dated
  IPaC species list report for your records.
- 2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project other than bats (see below) then project proponents must determine if proposed activities will have **no effect** on or **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain <u>Life History Information for Listed and Candidate Species</u> on our office website. If no impacts will occur to a species on the IPaC species list (e.g., there is no habitat present in the project area), the appropriate determination is **no effect**. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.

3. Should you determine that project activities **may affect** any federally listed, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. <u>Electronic submission is preferred</u>.

#### **Northern Long-Eared Bats**

Northern long-eared bats occur throughout Minnesota and Wisconsin and the information below may help in determining if your project may affect these species.

This species hibernates in caves or mines only during the winter. In Minnesota and Wisconsin, the hibernation season is considered to be November 1 to March 31. During the active season (April 1 to October 31) they roost in forest and woodland habitats. Suitable summer habitat for northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥3 inches dbh for northern long-eared bat that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, northern long-eared bats could be affected.

Examples of <u>unsuitable</u> habitat include:

- Individual trees that are greater than 1,000 feet from forested or wooded areas,
- Trees found in highly developed urban areas (e.g., street trees, downtown areas),
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees, and
- A monoculture stand of shrubby vegetation with no potential roost trees.

If IPaC returns a result that northern long-eared bats are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** this species **IF** one or more of the following activities are proposed:

- Clearing or disturbing suitable roosting habitat, as defined above, at any time of year,
- Any activity in or near the entrance to a cave or mine,
- Mining, deep excavation, or underground work within 0.25 miles of a cave or mine,
- Construction of one or more wind turbines, or
- Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

*If none of the above activities are proposed*, project proponents can conclude the proposed activities will have **no effect** on the northern long-eared bat. Concurrence from the Service is not required for **No** 

**Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.

If any of the above activities are proposed, and the northern long-eared bat appears on the user's species list, the federal project user will be directed to either the range-wide northern long-eared bat D-key or the Federal Highways Administration, Federal Railways Administration, and Federal Transit Administration Indiana bat/ Northern long-eared bat D-key, depending on the type of project and federal agency involvement. Similar to the Minnesota-Wisconsin D-key, these d-keys helps to determine if prohibited take might occur and, if not, will generate an automated verification letter.

*Please note:* On November 30, 2022, the Service published a proposal final rule to reclassify the northern long-eared bat as endangered under the Endangered Species Act. On January 26, 2023, the Service published a 60-day extension for the final reclassification rule in the Federal Register, moving the effective listing date from January 30, 2023, to March 31, 2023. This extension will provide stakeholders and the public time to preview interim guidance and consultation tools before the rule becomes effective. When available, the tools will be available on the Service's northern long-eared bat website (https://www.fws.gov/species/northern-longeared-bat-myotis-septentrionalis). Once the final rule goes into effect on March 31, 2023, the 4(d) D-key will no longer be available (4(d) rules are not available for federally endangered species) and will be replaced with a new Range-wide NLEB D-key (range-wide d-key). For projects not completed by March 31, 2023, that were previously reviewed under the 4(d) d-key, there may be a need for reinitiation of consultation. For these ongoing projects previously reviewed under the 4(d) d-key that may result in incidental take of the northern long-eared bat, we recommend you review your project using the new range-wide d-key once available. If your project does not comply with the range-wide d-key, it may be eligible for use of the Interim (formal) Consultation framework (framework). The framework is intended to facilitate the transition from the 4(d) rule to typical Section 7 consultation procedures for federally endangered species and will be available only until spring 2024. Again, when available, these tools (new range-wide d-key and framework) will be available on the Service's northern long-eared bat website.

#### **Whooping Crane**

Whooping crane is designated as a non-essential experimental population in Wisconsin and consultation under Section 7(a)(2) of the Endangered Species Act is only required if project activities will occur within a National Wildlife Refuge or National Park. If project activities are proposed on lands outside of a National Wildlife Refuge or National Park, then you are not required to consult. For additional information on this designation and consultation requirements, please review "Establishment of a Nonessential Experimental Population of Whooping Cranes in the Eastern United States."

#### **Other Trust Resources and Activities**

*Bald and Golden Eagles* - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. Should bald or golden eagles occur within or near the project area please contact our office for further coordination. For communication and wind energy projects, please refer to additional guidelines below.

*Migratory Birds* - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA to proactively prevent the

mortality of migratory birds whenever possible and we encourage implementation of <u>recommendations that</u> <u>minimize potential impacts to migratory birds</u>. Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

Communication Towers - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed <u>voluntary guidelines for minimizing impacts</u>.

*Transmission Lines* - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to guidelines developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

*Wind Energy* - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's <u>Wind Energy Guidelines</u>. In addition, please refer to the Service's <u>Eagle Conservation Plan Guidance</u>, which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

#### **State Department of Natural Resources Coordination**

While it is not required for your Federal section 7 consultation, please note that additional state endangered or threatened species may also have the potential to be impacted. Please contact the Minnesota or Wisconsin Department of Natural Resources for information on state listed species that may be present in your proposed project area.

#### Minnesota

<u>Minnesota Department of Natural Resources - Endangered Resources Review Homepage</u> Email: Review.NHIS@state.mn.us

#### Wisconsin

Wisconsin Department of Natural Resources - Endangered Resources Review Homepage

Email: <u>DNRERReview@wi.gov</u>

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

#### Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

04/27/2023

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Minnesota-Wisconsin Ecological Services Field Office 3815 American Blvd East Bloomington, MN 55425-1659 (952) 858-0793

### **PROJECT SUMMARY**

Project Code: 2023-0074835 Project Name: Cedar Lake

Project Type: Transmission Line - New Constr - Above Ground

Project Description: Transmission line reroute

Project Location:

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@44.55668365">https://www.google.com/maps/@44.55668365</a>,-93.52225062635912,14z



Counties: Rice and Scott counties, Minnesota

#### **ENDANGERED SPECIES ACT SPECIES**

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### **MAMMALS**

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species.  Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a> BIRDS	Proposed Endangered
NAME	STATUS
Whooping Crane <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY)  No critical habitat has been designated for this species.  Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>	Experimental Population, Non- Essential
INSECTS NAME	STATUS
Monarch Butterfly Danaus plexippus	Candidate

### **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

The following FWS National Wildlife Refuge Lands and Fish Hatcheries lie fully or partially within your project area:

FACILITY NAME ACRES
SCOTT COUNTY WATERFOWL PRODUCTION AREA 178.796

 $\underline{https://www.fws.gov/refuges/profiles/index.cfm?id=32591}$ 

04/27/2023

### **MIGRATORY BIRDS**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Golden-plover <i>Pluvialis dominica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Dec 1 to Aug 31

NAME	BREEDING SEASON
Black Tern <i>Chlidonias niger</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3093">https://ecos.fws.gov/ecp/species/3093</a>	Breeds May 15 to Aug 20
Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler <i>Cardellina canadensis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Golden-winged Warbler <i>Vermivora chrysoptera</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/8745">https://ecos.fws.gov/ecp/species/8745</a>	Breeds May 1 to Jul 20
Henslow's Sparrow <i>Ammodramus henslowii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3941">https://ecos.fws.gov/ecp/species/3941</a>	Breeds May 1 to Aug 31
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a>	Breeds elsewhere
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9480">https://ecos.fws.gov/ecp/species/9480</a>	Breeds elsewhere
Western Grebe <i>aechmophorus occidentalis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/6743">https://ecos.fws.gov/ecp/species/6743</a>	Breeds Jun 1 to Aug 31

## PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the

FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### **Probability of Presence (■)**

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

### **Breeding Season** (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### **Survey Effort (|)**

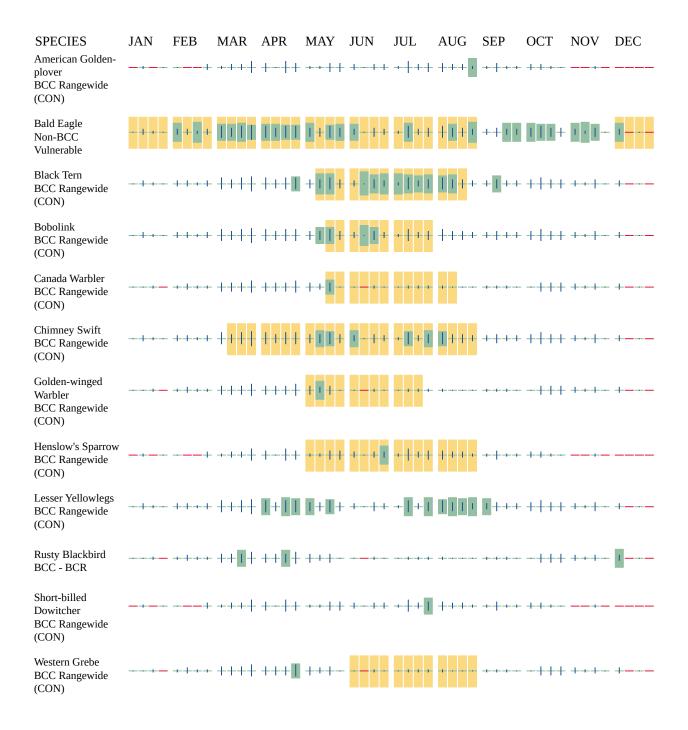
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



#### Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds <a href="https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds">https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</a>
- Nationwide conservation measures for birds <a href="https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf">https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</a>

#### MIGRATORY BIRDS FAQ

## Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

## What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <a href="Rapid Avian Information">Rapid Avian Information</a> Locator (RAIL) Tool.

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

#### How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point

within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <a href="Eagle Act">Eagle Act</a> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <a href="Northeast Ocean Data Portal">Northeast Ocean Data Portal</a>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <a href="NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf">Outer Continental Shelf</a> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no

data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

04/27/2023

## **WETLANDS**

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

#### FRESHWATER EMERGENT WETLAND

- PEM1Af
- PEM1A
- PEM1Ad
- <u>PEM1F</u>
- <u>PEM1C</u>
- PEM1Cx

#### FRESHWATER FORESTED/SHRUB WETLAND

- PFO1A
- PSS1A
- PSS1Cd
- PFO1Ad

#### FRESHWATER POND

- PABH
- PUBHx
- PABHx

#### **RIVERINE**

- R5UBH
- R4SBC
- R2UBFx

04/27/2023

## **IPAC USER CONTACT INFORMATION**

Agency: Merjent Inc.

Name: Mandy Bohnenblust Address: 1 Main St SE, Suite 300

City: Minneapolis

State: MN Zip: 55414

Email mandy.bohnenblust@merjent.com

Phone: 6127463677



## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

Minnesota-Wisconsin Ecological Services Field Office 3815 American Blvd East Bloomington, MN 55425-1659 Phone: (952) 858-0793 Fax: (952) 646-2873

In Reply Refer To: April 14, 2023

Project code: 2023-0069468 Project Name: Cedar Lake

Federal Nexus: yes

Federal Action Agency (if applicable):

**Subject:** Technical assistance for 'Cedar Lake'

#### Dear Mandy Bohnenblust:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on April 14, 2023, for 'Cedar Lake' (here forward, Project). This project has been assigned Project Code 2023-0069468 and all future correspondence should clearly reference this number. Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.

#### **Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter.

#### **Determination for the Northern Long-Eared Bat**

Based upon your IPaC submission and a standing analysis, your project is not reasonably certain to cause incidental take of the northern long-eared bat. Unless the Service advises you within 15 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

#### Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly Danaus plexippus Candidate
- Tricolored Bat Perimyotis subflavus Proposed Endangered
- Whooping Crane *Grus americana* Experimental Population, Non-Essential

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above. Note that if a new species is listed that may be affected by the identified action before it is complete, additional review is recommended to ensure compliance with the Endangered Species Act.

#### **Next Step**

<u>Consultation with the Service is necessary.</u> The project has a federal nexus (e.g., Federal funds, permit, etc.), but you are not the federal action agency or its designated (in writing) non-federal representative. Therefore, the ESA consultation status is <u>incomplete</u> and no project activities should occur until consultation between the Service and the Federal action agency (or designated non-federal representative), is completed.

As the federal agency or designated non-federal representative deems appropriate, they should submit their determination of effects to the Service by doing the following.

- 1. Log into IPaC using an agency email account and click on My Projects, click "Search by record locator" to find this Project using **217-125004562**. (Alternatively, the originator of the project in IPaC can add the agency representative to the project by using the Add Member button on the project home page.)
- 2. Review the answers to the Northern Long-eared Bat Range-wide Determination Key to ensure that they are accurate.
- 3. Click on Review/Finalize to convert the 'not likely to adversely affect' consistency letter to a concurrence letter. Download the concurrence letter for your files if needed.

If no changes occur with the Project or there are no updates on listed species, no further consultation/coordination for this project is required for the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place before project implements any changes which are final or commits additional resources.

If you have any questions regarding this letter or need further assistance, please contact the Minnesota-Wisconsin Ecological Services Field Office and reference Project Code 2023-0069468 associated with this Project.

#### **Action Description**

You provided to IPaC the following name and description for the subject Action.

#### 1. Name

Cedar Lake

#### 2. Description

The following description was provided for the project 'Cedar Lake':

Construct a new 115kV transmission line with a total ROW of 100 ft. ROW clearing of

trees. Drilling holes for monopoles approximately every 300 - 400 feet.

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@44.55668365">https://www.google.com/maps/@44.55668365</a>,-93.52225062635912,14z



### **DETERMINATION KEY RESULT**

Based on the answers provided, the proposed Action is consistent with a determination of "may affect, but not likely to adversely affect" for the Endangered northern long-eared bat (*Myotis septentrionalis*).

### **QUALIFICATION INTERVIEW**

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

**Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Do you have post-white nose syndrome occurrence data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed acoustic detections. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

Νo

3. Does any component of the action involve construction or operation of wind turbines?

**Note:** For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.). *No* 

4. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

5. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

6. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

**Note:** This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

No

8. Have you determined that your proposed action will have no effect on the northern longeared bat? Remember to consider the <u>effects of any activities</u> that would not occur but for the proposed action.

If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer "No" below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project's action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a "no effect" determination for the northern long-eared bat.

**Note:** Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer "No" and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of <a href="Effects of the Action">Effects of the Action</a> can be found here: <a href="https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions">https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions</a>

No

9. Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating northern long-eared bats?

No

10. Does the action area contain or occur within 0.5 miles of (1) talus or (2) anthropogenic or naturally formed rock crevices in rocky outcrops, rock faces or cliffs?

11. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

(If unsure, answer "Yes.")

**Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags ≥3 inches (12.7 centimeter) dbh), answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat can be found at: <a href="https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions">https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions</a>

Yes

12. Will the action cause effects to a bridge?

No

13. Will the action result in effects to a culvert or tunnel?

No

14. Does the action include the intentional exclusion of northern long-eared bats from a building or structure?

**Note:** Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local U.S. Fish and Wildlife Services Ecological Services Field Office to help assess whether northern long-eared bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures

No

- 15. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?** *No*
- 16. Will the action cause construction of one or more new roads open to the public?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

17. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic on one or more existing roads?

**Note:** For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

18. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

No

- 19. Will the proposed action involve the creation of a new water-borne contaminant source (e.g., leachate pond pits containing chemicals that are not NSF/ANSI 60 compliant)? *No*
- 20. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?
- 21. Will the action include drilling or blasting?

Yes

No

22. Will the drilling or blasting affect known or potentially suitable hibernacula, summer habitat, or active year-round habitat (where applicable) for the northern long-eared bat?

**Note:** In addition to direct impacts to hibernacula, consider impacts to hydrology or air flow that may impact the suitability of hibernacula. Additional information defining suitable summer habitat for the northern long-eared bat can be found at: <a href="https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions">https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions</a>

No

- 23. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

  No
- 24. Will the proposed action involve the use of herbicides or pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

  No
- 25. Will the action include or cause activities that are reasonably certain to cause chronic nighttime noise in suitable summer habitat for the northern long-eared bat? Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time.

**Note:** Additional information defining suitable summer habitat for the northern long-eared bat can be found at: <a href="https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions">https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions</a> *No* 

26. Does the action include, or is it reasonably certain to cause, the use of artificial lighting within 1000 feet of suitable northern long-eared bat roosting habitat?

**Note:** Additional information defining suitable roosting habitat for the northern long-eared bat can be found at: <a href="https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions">https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions</a> *No* 

27. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

Yes

28. Has a presence/probable absence summer bat survey targeting the northern long-eared bat following the Service's <u>Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines</u> been conducted within the project area? If unsure, answer "No."

No

29. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

**Note:** A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property and has a diameter breast height of six inches or greater.

No

- 30. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)? *Yes*
- 31. [Semantic] Does your project intersect a known sensitive area for the northern long-eared bat?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your <u>state agency or USFWS field office</u>

Automatically answered

No

32. <u>Will all tree cutting/trimming or other knocking or bringing down of trees be restricted to the inactive season for the northern long-eared bat?</u>

Note: Inactive Season dates for summer habitat outside of staging and swarming areas can be found here: <a href="https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas">https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas</a>.

## **PROJECT QUESTIONNAIRE**

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

8.2

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the <u>inactive</u> (hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: <a href="https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas">https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas</a>

8.2

In what extent of the area (in acres) will trees be cut, knocked down, or trimmed during the <u>active</u> (non-hibernation) season for northern long-eared bat? **Note:** Inactive Season dates for spring staging/fall swarming areas can be found here: <a href="https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas">https://www.fws.gov/media/inactive-season-dates-swarming-and-staging-areas</a>

0

Will all potential northern long-eared bat (NLEB) roost trees (trees ≥3 inches diameter at breast height, dbh) be cut, knocked, or brought down from any portion of the action area greater than or equal to 0.1 acre? If all NLEB roost trees will be removed from multiple areas, select 'Yes' if the cumulative extent of those areas meets or exceeds 0.1 acre.

Yes

Enter the extent of the action area (in acres) from which all potential NLEB roost trees will be removed. If all NLEB roost trees will be removed from multiple areas, entire the total extent of those areas. Round up to the nearest tenth of an acre.

8.2

For the area from which all potential northern long-eared bat (NLEB) roost trees will be removed, on how many acres (round to the nearest tenth of an acre) will trees be allowed to regrow? Enter '0' if the entire area from which all potential NLEB roost trees are removed will be developed or otherwise converted to non-forest for the foreseeable future.

0

Will any snags (standing dead trees) ≥3 inches dbh be left standing in the area(s) in which all northern long-eared bat roost trees will be cut, knocked down, or otherwise brought down?

Yes

Will all project activities by completed by April 1, 2024?

## **IPAC USER CONTACT INFORMATION**

Agency: Merjent Inc.

Name: Mandy Bohnenblust Address: 1 Main St SE, Suite 300

City: Minneapolis

State: MN Zip: 55414

Email mandy.bohnenblust@merjent.com

Phone: 6127463677

## U.S. Department of Agriculture Natural Resources Conservation Service



12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 17, 2023

Christopher Schmidt
U.S. Department of Agriculture
Natural Resources Conservation Service
7151 W 190<sup>th</sup> St.
Jordan, MN 55352-2103
chris.schmidt@usda.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Chris Schmidt:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

MStrohfu@GREnergy.com D: 763-445-5210

Chris Schmidt April 17, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet

MStrohfu@GREnergy.com D: 763-445-5210



#### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley
Electric Cooperative
125 Minnesota Valley Electric Drive
Jordan, MN 55352
1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

#### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

#### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

## About Great River Energy and Minnesota Valley Electric Cooperative

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through our member-owners, we serve two-thirds of Minnesota geographically and parts of Wisconsin, including Minnesota Valley Electric Cooperative.

#### **Schedule**

Notifications Winter/Spring 2023

**State permitting** Spring 2023 – Spring 2024 **Survey/design** Fall 2023 – Spring 2024

Easements/

construction

**Environmental permits** Winter 2024 – Spring 2025 **Transmission line** Fall 2024 – Summer 2025

Energization

Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

## **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

#### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

#### Kristin Lenz

From: Kristin Lenz

Sent:Friday, April 21, 2023 1:37 PMTo:Veith, Stuart - FPAC-NRCS, MNCc:Schmidt, Chris - FPAC-NRCS, MN

Subject: RE: EXTERNAL: FW: [External Email]Great River Energy Cedar Lake Reroute Project Introduction

Hi Stuart,

Thank you for your response. The proposed project will largely be collocated with existing utility and road ROWs, but not entirely. Our first step is to file an application with the Minnesota Public Utilities Commission, who will issue a Route Permit for the designated route corridor. Great River Energy will then work with landowners, agencies and other stakeholders to establish the final alignment and pole placement. Can you clarify what you mean by a letter of exemption? Is that related to minimal effects on agricultural lands? If that is the case, it sounds like we should reach back out when we are closer to the permitting stage?

Thank you for your feedback.

Kristin

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

From: Veith, Stuart - FPAC-NRCS, MN <stuart.veith@usda.gov>

**Sent:** Friday, April 21, 2023 9:19 AM

**To:** Kristin Lenz < kristin.lenz@merjent.com>

Cc: Schmidt, Chris - FPAC-NRCS, MN <chris.schmidt@usda.gov>

Subject: EXTERNAL: FW: [External Email] Great River Energy Cedar Lake Reroute Project Introduction

**CAUTION:** This email originated from outside of Merjent.

Kristin,

Thank you for the opportunity to review this project. From what it appears the proposed project will take place within an existing right of way and there will be no expansion or new right of way? Just wanted to double-check to make sure I understood correctly. If this is the case I will be more than happy to provide you with a letter of exemption for your records. If not we can work on taking the necessary next steps.

Thanks,

Stuart Veith

Area Resource Soil Scientist

USDA-NRCS 3555 9<sup>th</sup> ST NW Bld 350 Rochester, MN 55901

Office: 507-289-7454 ext. 3581

Cell: 507-298-4300

From: Schmidt, Chris - FPAC-NRCS, MN <chris.schmidt@usda.gov>

Sent: Monday, April 17, 2023 3:03 PM

To: Veith, Stuart - FPAC-NRCS, MN < <a href="mailto:stuart.veith@usda.gov">stuart.veith@usda.gov</a>>

Subject: FW: [External Email] Great River Energy Cedar Lake Reroute Project Introduction

Stuart,

See below for your review, thanks.

### Chris Schmidt

District Conservationist
Faribault Customer Service Team Lead
Waconia, Jordan, Le Center, Faribault, and Farmington Field Offices
USDA-NRCS
Faribault Field Office
1810 30<sup>th</sup> St NW, Suite 1
Faribault, MN 55021
Office: (507) 334-1887 ext. 3

Cell: 507-412-7186

From: Kristin Lenz <kristin.lenz@merjent.com>

Sent: Monday, April 17, 2023 3:01 PM

To: Schmidt, Chris - FPAC-NRCS, MN < chris.schmidt@usda.gov>

Cc: Strohfus, Mark GRE-MG < <a href="MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a>; Britta Bergland < <a href="mailto:britta.bergland@merjent.com">britta.bergland@merjent.com</a>>

Subject: [External Email] Great River Energy Cedar Lake Reroute Project Introduction

#### [External Email]

If this message comes from an unexpected sender or references a vague/unexpected topic;

Use caution before clicking links or opening attachments.

Please send any concerns or suspicious messages to: Spam.Abuse@usda.gov

#### Good afternoon,

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed letter and Project Fact Sheet provide additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/</a>. Please contact Mark Strohfus at 763-445-5210 or MStrohfu@GREnergy.com should you need additional information.

Thank you, Kristin Lenz on behalf of Mark Strohfus, Great River Energy

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660

www.merjent.com

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April 14, 2023

Jaylen Strong
Bois Forte Band of Chippewa
Tribal Historic Preservation Officer
1500 Bois Forte Road
Tower, MN 55790
jaylen.strong@boisforte-nsn.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Jaylen Strong:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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MStrohfu@GREnergy.com D: 763-445-5210

Jaylen Strong April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 

MStrohfu@GREnergy.com D: 763-445-5210



#### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley
Electric Cooperative
125 Minnesota Valley Electric Drive
Jordan, MN 55352
1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

#### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

#### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

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Energization

Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

## **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

#### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:





April 14, 2023

Evan Schroeder
Fond du Lac Band of Lake Superior Chippewa
Tribal Historic Preservation Officer
28 University Rd.
Cloquet, MN 55720
evanschroeder@fdlrez.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Evan Schroeder:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Evan Schroeder April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

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**Energization** Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

#### **Great River Energy representatives**





April 14, 2023

Rob Hull Grand Portage Band of Ojibwe Tribal Historic Preservation Officer PO Box 428 Grand Portage, MN 55605 thpo@grandportage.com

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Rob Hull:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Rob Hull April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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**Energization** Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

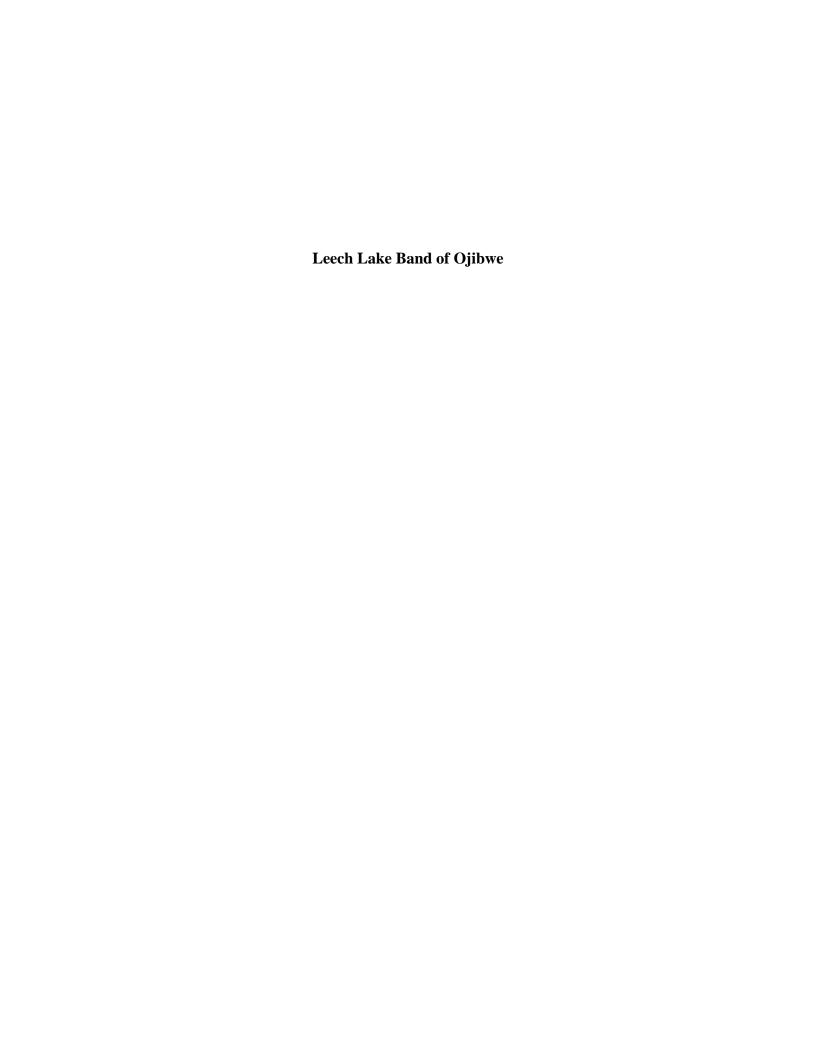
Structures - 60 to 90-foot wood or steel poles

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Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

#### **Great River Energy representatives**





April 14, 2023

Amy Burnette Leech Lake Band of Ojibwe Tribal Historic Preservation Officer 15756 State 371 NW Cass Lake, MN 56633 amy.burnette@llojibwe.net

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Amy Burnette:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Amy Burnette April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 



12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



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Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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#### **Great River Energy representatives**





April 14, 2023

Cheyanne St. John
Lower Sioux Indian Community
Tribal Historic Preservation Officer
39527 Reservation Highway 1
Morton, MN 56270
cheyanne.stjohn@lowersioux.com

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Cheyanne St. John:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Cheyanne St. John April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



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The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

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Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

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Energization

Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

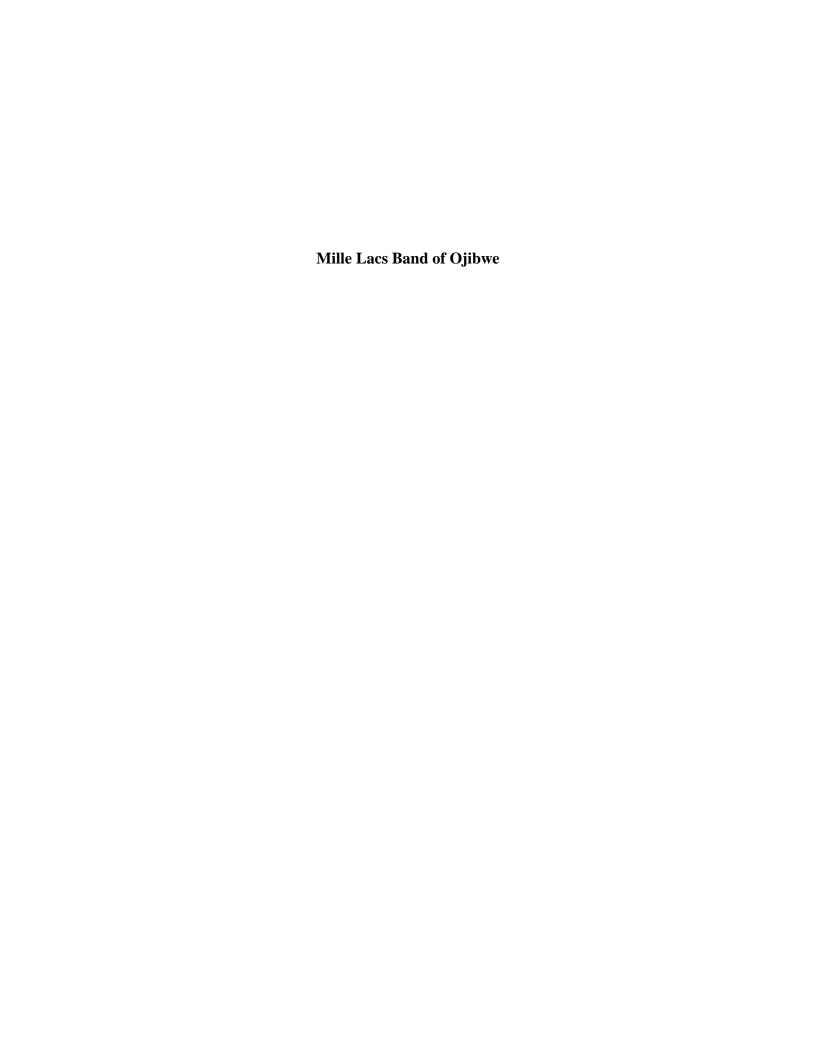
Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

#### **Great River Energy representatives**





April 14, 2023

Terry Kemper
Mille Lacs Band of Ojibwe
Tribal Historic Preservation Officer
Terry.Kemper@millelacsband.com

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Terry Kemper:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Terry Kemper April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 



12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley
Electric Cooperative
125 Minnesota Valley Electric Drive
Jordan, MN 55352
1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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Energization

Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

#### **Great River Energy representatives**





April 14, 2023

Noah White Prairie Island Indian Community Tribal Historic Preservation Officer 5636 Sturgeon Lake Road Welch, MN 55089 noah.white@piic.org

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Noah White:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Noah White April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



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Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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Energization

Summer 2025

#### **Quick facts**

Length - 6.3 miles

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Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

#### **Great River Energy representatives**





April 14, 2023

Kade Ferris
Red Lake Nation
Tribal Historic Preservation Officer
15484 Migizi Drive
Red Lake, MN 56671
kade.ferris@redlakenation.org

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Kade Ferris:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Kade Ferris April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



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Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

#### **Great River Energy representatives**





April 14, 2023

Leonard Wabasha
Shakopee Mdewakanton Sioux Community
Tribal Historic Preservation Officer
2330 Sioux Trail NW
Prior Lake, MN 55372
leonard.wabasha@shakopeedakota.org

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Leonard Wabasha:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Leonard Wabasha April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



# **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

# **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

# **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:





12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Samantha Odegard
Upper Sioux Community
Tribal Historic Preservation Officer
PO Box 147
5722 Travers Lane
Granite Falls, MN 56241
samanthao@uppersiouxcommunity-nsn.org

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

# Samantha Odegard:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Samantha Odegard April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



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12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

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Typical 115-kV wood single circuit structure with and without distribution under build.

# Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

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**Energization** Summer 2025

# **Quick facts**

Length - 6.3 miles

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Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

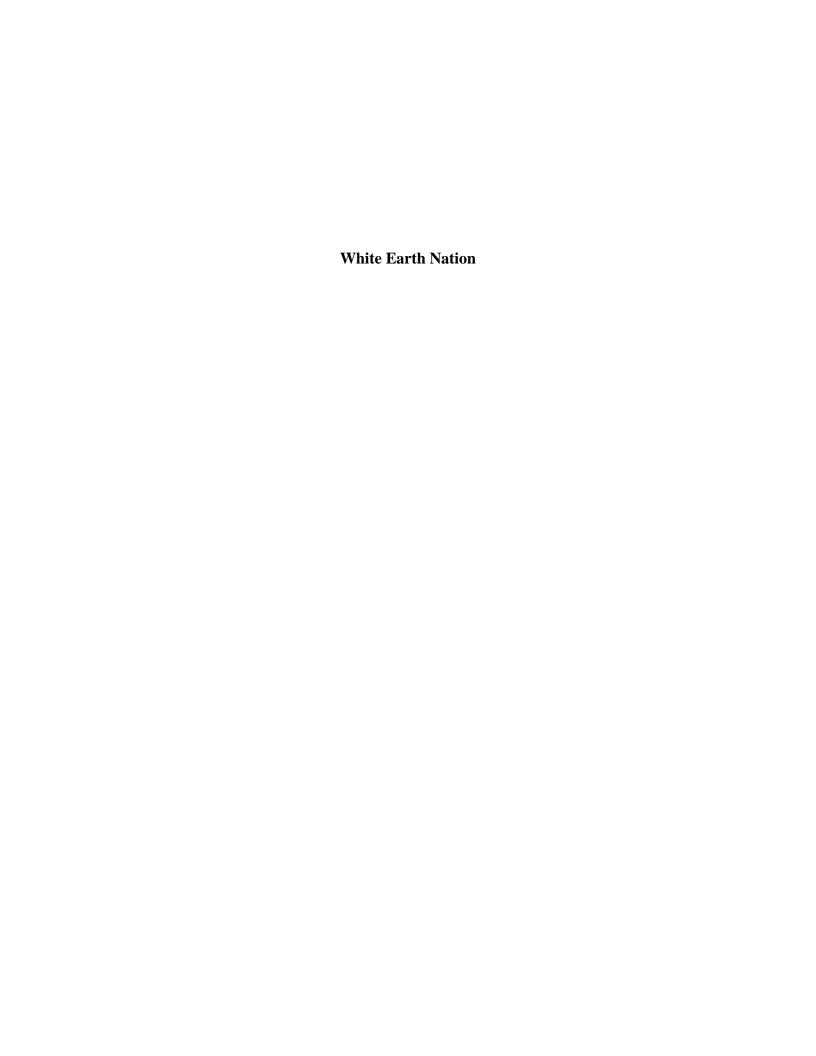
on each side of the centerline

Permits – MN Public Utilities Commission route permit

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# **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:





12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Jaime Arsenault
White Earth Nation
Tribal Historic Preservation Officer
PO Box 418
White Earth, MN 56591-0418
Jaime.Arsenault@whiteearth-nsn.gov

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Jaime Arsenault:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Jaime Arsenault April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



# **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

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The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

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12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Stephan Roos Minnesota Department of Agriculture 625 Robert St N St. Paul, MN 55155-2538 Stephan.roos@state.mn.us

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

# Stephan Roos:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Stephan Roos April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 



# **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley
Electric Cooperative
125 Minnesota Valley Electric Drive
Jordan, MN 55352
1-800-282-6832

mvec.net

Cedar Lake reroute transmission project

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Typical 115-kV wood single circuit structure with and without distribution under build.

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12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Scott Hanson (Southeast)
Anneka Munsell (Metro)
Minnesota Department of Health
Environmental Health Division, Drinking Water Protection
scott.j.hanson@state.mn.us
anneka.munsell@state.mn.us

**Subject:** Great River Energy Cedar Lake Reroute Project

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Scott Hanson and Anneka Munsell:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Scott Hanson and Anneka Munsell April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkfield

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 

cc:

Lauren Larkin, Wellhead Protection Program, Southeast Dereck Richter, Surface Water Protection (Statewide) Danielle Nielsen, Surface Water Protection (Statewide)



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12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



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# **Great River Energy representatives**

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# Minnesota Department of Natural Resources Ecological and Water Resources



12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Melissa Collins (Central Region)
Haley Byron (South Region)
Minnesota Department of Natural Resources
Ecological and Water Resources – Environmental Review
melissa.collins@state.mn.us
haley.byron@state.mn.us

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Melissa Collins and Haley Bryon:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Melissa Collins and Haley Byron April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturpful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet

cc:

Martha Vickery, MDNR Lands & Minerals, Central Region Benjamin J. Schaefer, Lands & Minerals, South Region



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From: Schaefer, Benjamin (DNR)

To: Kristin Lenz

Subject: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

**Date:** Friday, April 14, 2023 2:59:18 PM

Attachments: image002.png

image003.png

# **CAUTION:** This email originated from outside of Merjent.

#### Thanks Kerstin,

I have passed this on to my staff in DNR Southern Region (Rice County). At first glance I did not see any sate land affected in our region, but possibly some public water crossings. Karla Ihns and Krista Howk from my office have been briefed on the project. Thanks.



#### **BENJAMIN J. SCHAEFER**

# **Southern Region Operations Coordinator**

Division of Lands and Minerals

21371 State Highway 15 New Ulm, MN 56073

Phone: 507-233-1211 Cell: 507-276-1985

benjamin.schaefer@state.mn.us

From: Kristin Lenz < kristin.lenz@merjent.com>

Sent: Friday, April 14, 2023 2:28 PM

To: Collins, Melissa (DNR) < Melissa. Collins@state.mn.us>; Byron, Haley (DNR)

<Haley.Byron@state.mn.us>

Cc: Vickery, Martha L (DNR) <martha.vickery@state.mn.us>; Schaefer, Benjamin (DNR)

<benjamin.schaefer@state.mn.us>; Strohfus, Mark GRE-MG <MStrohfu@GREnergy.com>; Britta

Bergland <a href="mailto:britta.bergland@merjent.com">britta.bergland@merjent.com</a>

**Subject:** Great River Energy Cedar Lake Reroute Project Introduction

#### This message may be from an external email source.

Do not select links or open attachments unless verified. Report all suspicious emails to Minnesota IT Services Security Operations Center.

# Good afternoon,

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed letter and Project Fact Sheet provide additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at:

https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/. Please contact Mark Strohfus at 763-445-5210 or <a href="MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Thank you, Kristin Lenz on behalf of Mark Strohfus, Great River Energy

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



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From: <u>Kristin Lenz</u>

To: <u>Collins, Melissa (DNR)</u>; <u>Haley Byron</u>

Cc: Vickery, Martha L (DNR); Schaefer, Benjamin (DNR); Strohfus, Mark GRE-MG; Warzecha, Cynthia (DNR); Britta

Bergland; Rasmussen, Elizabeth (She/Her/Hers) (DNR)

Subject: RE: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

**Date:** Tuesday, May 16, 2023 3:30:00 PM

Attachments: <u>image001.png</u> <u>image002.png</u>

image002.png image003.png image004.png image005.png

Thank you for your response Melissa. We have submitted the Project to the MCE and we will also make note of your recommendations. You are correct that there is a public watercourse crossing and we will pursue permitting upon identification of the final route.

Thank you, Kristin

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com

# merjent.

1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

From: Collins, Melissa (DNR) < Melissa. Collins@state.mn.us>

**Sent:** Tuesday, May 16, 2023 2:40 PM

To: Kristin Lenz <kristin.lenz@merjent.com>; Haley Byron <Haley.Byron@state.mn.us>

Cc: Vickery, Martha L (DNR) <martha.vickery@state.mn.us>; Schaefer, Benjamin (DNR)

<benjamin.schaefer@state.mn.us>; Strohfus, Mark GRE-MG <MStrohfu@GREnergy.com>;

Warzecha, Cynthia (DNR) <cynthia.warzecha@state.mn.us>; Britta Bergland

<britta.bergland@merjent.com>; Rasmussen, Elizabeth (She/Her/Hers) (DNR)

<Elizabeth.Rasmussen@state.mn.us>

Subject: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

# **CAUTION:** This email originated from outside of Merjent.

# Hi Kristin,

Thank you for reaching out to coordinate on this project. Please excuse the late reply. I'm still playing catch up after returning from medical leave. I reviewed the information you provided, and don't have any major concerns with the proposed route. If you have not already, please submit this project to Minnesota Conservation Explorer in order to query the Natural Heritage Information System and understand how the project may impact protected state-listed species and rare features. Please note that the only way to screen a project for impacts to

state-listed species that are protected by law, is to query the NHIS database through MCE or by using a private NHIS license agreement. If rare features are identified within one mile of a project using a private license, the project should be submitted for review through MCE for further coordination with DNR. If protected species are identified with a mile, the project will be manually reviewed by Natural Heritage review staff who will follow up with next steps.

It appears that the proposed new line will cross a DNR Public Watercourse (Unnamed Stream, M-055-023-012) in multiple places, and require a DNR license to cross. Please refer to this website for more information on how to apply:

https://www.dnr.state.mn.us/permits/utility\_crossing/index.html.

We recommend that the project avoid impacting wetlands to the greatest degree possible. If work in wetlands is necessary, please use poly/timber mats to limit soil compaction or work under completely frozen conditions. We recommend using wildlife-friendly erosion control materials, and reseeding with appropriate native, weed-free <u>seed mixes</u> to limit the spread of invasive species.

Please let me know if you have any questions.

Thank you,

# **Melissa Collins**

Regional Environmental Assessment Ecologist | Ecological and Water Resources Pronouns: She/her/hers

# **Minnesota Department of Natural Resources**

1200 Warner Road St. Paul, MN 55106 Phone: 651-259-5755

Email: melissa.collins@state.mn.us

mndnr.gov









**From:** Kristin Lenz < kristin.lenz@merjent.com>

**Sent:** Friday, April 14, 2023 2:28 PM

To: Collins, Melissa (DNR) < Melissa.Collins@state.mn.us >; Byron, Haley (DNR)

<<u>Haley.Byron@state.mn.us</u>>

**Cc:** Vickery, Martha L (DNR) < <u>martha.vickery@state.mn.us</u>>; Schaefer, Benjamin (DNR)

<benjamin.schaefer@state.mn.us>; Strohfus, Mark GRE-MG < MStrohfu@GREnergy.com>; Britta

Bergland < britta.bergland@merjent.com >

**Subject:** Great River Energy Cedar Lake Reroute Project Introduction

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Good afternoon,

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Thank you, Kristin Lenz on behalf of Mark Strohfus, Great River Energy

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merient.com



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# Minnesota Department of Natural Resources Natural Heritage Information System



# Formal Natural Heritage Review - Cover Page

See next page for results of review. A draft watermark means the project details have not been finalized and the results are not official.

Project Name: Cedar Lk - Chub Lk 1
Project Proposer: Great River Energy

Project Type: Utilities, Transmission (electric, cable, phone)

**Project Type Activities:**;

TRS: T112 R22 S2, T112 R22 S3, T112 R22 S4, T112 R22 S5, T112 R22 S6, T112 R23 S1, T113 R22

S19, T113 R22 S30, T113 R22 S31, T113 R22 S32, T113 R22 S33, T113 R22 S34 +

County(s): Le Sueur, Rice, Scott

DNR Admin Region(s): Central, South

Reason Requested: PUC Site or Route Application

Project Description: Construct a new 115kV transmission line with a total ROW of 100 ft. ROW clearing of

trees. Drilling holes for monopoles approximately every 300 - 400 feet.

Existing Land Uses: Agricultural, rural residential.

Landcover / Habitat Impacted: Agricultural, forested, wetlands, road ROW

Waterbodies Affected: Numerous wetlands would be crossed several of which can be spanned. Some

crossings are greater than 400 ft and would require a pole to be located in the wetland.

**Groundwater Resources Affected:** None **Previous Natural Heritage Review:** No

Previous Habitat Assessments / Surveys: No

# **SUMMARY OF AUTOMATED RESULTS**

Category	Results	Response By Category
Project Details	Comments	Tree Removal - Recommendations
Ecologically Significant Area	No Comments	No Further Review Required
State-Listed Endangered or Threatened Species	No Comments	No Further Review Required
State-Listed Species of Special Concern	No Comments	No Further Review Required
Federally Listed Species	No Records	Visit IPaC For Federal Review



Minnesota Department of Natural Resources Division of Ecological & Water Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155-4025

April 12, 2023

Project ID: MCE #2022-00769

Mark Strohfus Great River Energy 12300 Elm Creek Boulevard Maple Grove, MN 55369

RE: Automated Natural Heritage Review of the proposed Cedar Lk - Chub Lk 1 See Cover Page for location and project details.

Dear Mark Strohfus,

As requested, the above project has been reviewed for potential effects to rare features. Given the project details provided on the cover page, I do not believe the proposed project will negatively affect any known occurrences of rare features. To ensure compliance with federal law, conduct a federal regulatory review using the U.S. Fish and Wildlife Service's (USFWS) online <u>Information for Planning and Consultation (IPaC)</u> tool.

### Project Type and/or Project Type Activity Comments

• The Natural Heritage Information System (NHIS) tracks bat roost trees and hibernacula plus some acoustic data, but this information is not exhaustive. Even if there are no bat records listed below, all seven of Minnesota's bats, including the federally threatened northern long-eared bat (<u>Myotis septentrionalis</u>), can be found throughout Minnesota. Tree removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies and the pups cannot yet fly. To minimize these impacts, the DNR recommends that tree removal be avoided during the months of June and July.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota's rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota's rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no records may exist within the project area. If additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

Cedar Lk - Chub Lk 1 MCE #: 2022-00769 Page 3 of 5

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location and the project description provided on the cover page. If project details change or construction has not occurred within one year, please resubmit the project for review.

The Natural Heritage Review does not constitute project approval by the Department of Natural Resources. Instead, it identifies issues regarding known occurrences of rare features and potential effects to these rare features. For information on the environmental review process or other natural resource concerns, you may contact your <a href="DNR Regional Environmental Assessment Ecologist">DNR Regional Environmental Assessment Ecologist</a>.

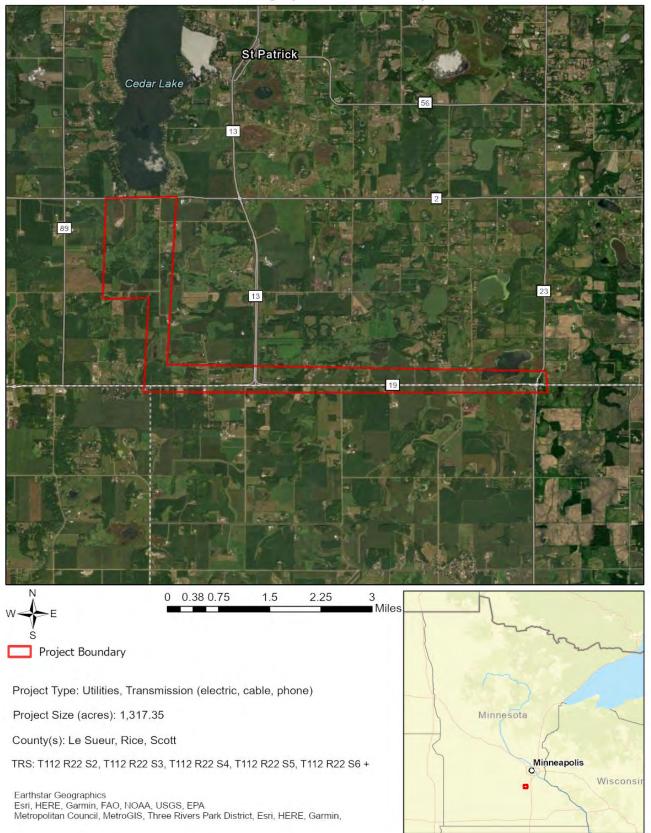
Thank you for consulting us on this matter, and for your interest in preserving Minnesota's rare natural resources.

Sincerely,

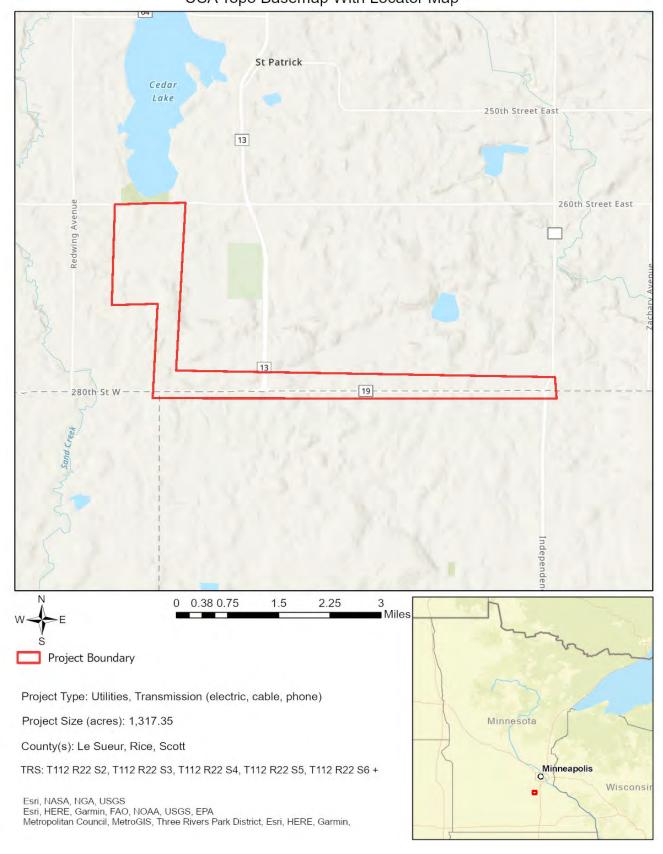
Jim Drake Jim Drake Natural Heritage Review Specialist James.F.Drake@state.mn.us

Links: USFWS Information for Planning and Consultation (IPaC) tool
Information for Planning and Consultation (IPaC) tool
DNR Regional Environmental Assessment Ecologist Contact Info
https://www.dnr.state.mn.us/eco/ereview/erp\_regioncontacts.html

## Cedar Lk - Chub Lk 1 Aerial Imagery With Locator Map



# Cedar Lk - Chub Lk 1 USA Topo Basemap With Locator Map







12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Stacy Kotch Egstad, Utility Routing & Siting Coordinator Minnesota Department of Transportation Land Management stacy.kotch@state.mn.us

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Stacy Kotch Egstad:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Stacy Kotch Egstad April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturpful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 

cc:

Tod Sherman, MNDOT Metro District Buck Craig, MNDOT Metro District Dave Evans, MNDOT Southeast District



### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

## About Great River Energy and Minnesota Valley Electric Cooperative

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through our member-owners, we serve two-thirds of Minnesota geographically and parts of Wisconsin, including Minnesota Valley Electric Cooperative.

### **Schedule**

Notifications Winter/Spring 2023
State permitting Spring 2023 – Spring 2024

Survey/design Fall 2023 – Spring 2024

Easements/

construction

**Environmental permits** Winter 2024 – Spring 2025 **Transmission line** Fall 2024 – Summer 2025

**Energization** Summer 2025

### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

### **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

From: Kristin Lenz

To: Kotch Egstad, Stacy (DOT)

Cc: Sherman, Tod (DOT); Craig, E (DOT); Evans, David (DOT); Strohfus, Mark GRE-MG; Britta Bergland

Subject: RE: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

**Date:** Thursday, April 20, 2023 4:52:00 PM

Attachments: P1 20230412 CedarLk.kmz

image001.png image002.png image003.png image004.png image005.png image006.png

P1 Align 20230412 CedarLk.zip

### Good afternoon Stacy,

Thanks again for the meeting today. Attached are a shapefile and .kmz file of the Great River Energy Cedar Lake Reroute Project proposed route alignment and route width.

Thank you, Kristin

### Kristin Lenz

Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

From: Kotch Egstad, Stacy (DOT) <stacy.kotch@state.mn.us>

**Sent:** Monday, April 17, 2023 10:55 AM **To:** Kristin Lenz < kristin.lenz@merjent.com>

**Cc:** Sherman, Tod (DOT) <tod.sherman@state.mn.us>; Craig, E (DOT) <buck.craig@state.mn.us>;

Evans, David (DOT) <david.evans@state.mn.us>; Strohfus, Mark GRE-MG

<MStrohfu@GREnergy.com>; Britta Bergland <britta.bergland@merjent.com>

Subject: RE: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

Good Morning Kristin,

This week I can make Wed 4/19 at 11am or 1pm OR Thurs 4/20 at 10am work for myself and most District staff. Metro staff will be optional as the build portion does not currently affect TH ROW in their District.

You can send me the Teams meeting request and I will forward to the appropriate attendees on my side.

If additional dates/times are needed, please let me know,

### Stacy Kotch Egstad

Utility Routing & Siting Coordinator | Office of Land Management

### **Minnesota Department of Transportation**

395 John Ireland Blvd Mailstop 678

St. Paul, MN. 55155 O: 651-366-4635

mndot.gov/





**From:** Kristin Lenz < <a href="mailto:kristin.lenz@merjent.com">kristin.lenz@merjent.com</a>>

Sent: Monday, April 17, 2023 10:28 AM

**To:** Kotch Egstad, Stacy (DOT) < <a href="mailto:stacy.kotch@state.mn.us">stacy.kotch@state.mn.us</a>>

Cc: Sherman, Tod (DOT) < tod.sherman@state.mn.us >; Craig, E (DOT) < buck.craig@state.mn.us >;

Evans, David (DOT) < <u>david.evans@state.mn.us</u>>; Strohfus, Mark GRE-MG

< <u>MStrohfu@GREnergy.com</u>>; Britta Bergland < <u>britta.bergland@merjent.com</u>> **Subject:** RE: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

Good morning Stacy,

Great River Energy would like to set up a meeting with MNDOT to further discuss Project specifics. Are there some convenient dates/times that work for you to set something up?

Thank you, Kristin

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660

www.merjent.com

From: Kotch Egstad, Stacy (DOT) < stacy.kotch@state.mn.us>

Sent: Friday, April 14, 2023 2:46 PM

**To:** Kristin Lenz < <a href="mailto:kristin.lenz@merjent.com">kristin.lenz@merjent.com</a>>

Cc: Sherman, Tod (DOT) <tod.sherman@state.mn.us>; Craig, E (DOT) <buck.craig@state.mn.us>;

Evans, David (DOT) < <u>david.evans@state.mn.us</u>>; Strohfus, Mark GRE-MG < <u>MStrohfu@GREnergy.com</u>>; Britta Bergland < <u>britta.bergland@merjent.com</u>>

Subject: EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

### **CAUTION:** This email originated from outside of Merjent.

Kristin,

Thank you for the information and early outreach.

Before MnDOT can provide useful feedback for the project, we'd like to know 2 things:

- 1. Is the line along TH 19 inside/outside/combo/aerial encroachment only of MnDOT ROW?
- 2. Can you provide a brief explanation for the many crossings of TH 19 shown on the map?

Thank you,

### Stacy Kotch Egstad

Utility Routing & Siting Coordinator | Office of Land Management

### **Minnesota Department of Transportation**

395 John Ireland Blvd Mailstop 678 St. Paul, MN. 55155

O: 651-366-4635 mndot.gov/





**From:** Kristin Lenz < kristin.lenz@merjent.com>

Sent: Friday, April 14, 2023 2:30 PM

To: Kotch Egstad, Stacy (DOT) < <a href="mailto:stacy.kotch@state.mn.us">stacy.kotch@state.mn.us</a>>

**Cc:** Sherman, Tod (DOT) < <a href="mailto:tod.sherman@state.mn.us">tod.sherman@state.mn.us</a>; Craig, E (DOT) < <a href="mailto:buck.craig@state.mn.us">buck.craig@state.mn.us</a>;

Evans, David (DOT) < <a href="mailto:david.evans@state.mn.us">david.evans@state.mn.us</a>; Strohfus, Mark GRE-MG

< MStrohfu@GREnergy.com >; Britta Bergland < britta.bergland@merjent.com >

**Subject:** Great River Energy Cedar Lake Reroute Project Introduction

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Thank you, Kristin Lenz on behalf of Mark Strohfus, Great River Energy

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



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# Great River Energy Cedar Lake Reroute Project Minnesota Department of Transportation April 20, 2023 Meeting Notes

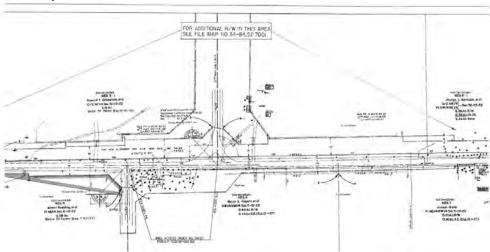
Participants: Stacy Koch-Egstad, David Evans, Heather Lukes, Tracy Schnell, Steve Schoeb, Tod Sherman, Angie Piltaver (Minnesota Department of Transportation [MNDOT])
Mark Strohfus (Great River Energy)
Kristin Lenz, Britta Bergland (Merjent)

- Koch-Egstad confirmed that the Great River Energy structures appear to be within MNDOT right-of-way (ROW).
- Strohfus described the proposed Cedar Lake Reroute Project alignment along 280<sup>th</sup> St E / State Highway 19, including features that Great River Energy is trying to avoid, thus creating crossovers. Strohfus described other complications including reluctant landowners, wetlands, threading between houses.
- MNDOT has concerns about powerlines on either side of the road and would like to avoid a
  boxed-in effect. Koch-Egstad described certain regulations that MNDOT must consider as an
  agency. Strohfus described that where Great River Energy overtakes the Minnesota Valley
  Electric Cooperative (MN Valley) distribution lines, they would seek to bury the MN Valley line.
  Great River Energy prefers to not have under-build. Where they do not overtake it, there would
  be lines on both sides of the road.
- The group discussed the intersection of State Highways 19 and 13. MNDOT would like to keep the route on the south side near State Highway 13, in case a roundabout is added at the northern side of the intersection of State Highways 13 and 19. There are no immediate/present plans to do work on State Highway 19 in the 10-Year Plan for District 7. Piltaver provided the following link to the District 7 Project Page: <a href="https://www.dot.state.mn.us/d7/projects.html">https://www.dot.state.mn.us/d7/projects.html</a>. If at some time this intersection does become built into a roundabout, it would affect 2-3 poles currently proposed as part of Cedar Lake Reroute Project; however, there are no certain plans at this time.
- Strohfus described that Great River Energy intends to submit its Route Permit Application in June 2023. The Minnesota Public Utilities Commission (MPUC) is considering a 9-month Route Permit process. In service-date is planned for summer 2025. Normally, Great River Energy plans for a project like this to take 5 years, but this is looking more like 3 years. Great River Energy will engage in additional consultations with MMDOT before easement acquisitions.
- Koch-Egstad stated that this communication is considered pre-filing consultation. Then, once an
  application is filed, MNDOT will advise the MPUC and Department of Commerce (DOC) on its
  comments on the route. Koch-Egstad prefers to engage in early review with the MNDOT
  environmental group. She would like Great River Energy to send KMZ and shapefiles of the
  centerline and route width. Great River Energy will send over the geospatial data today after
  the meeting.
- MNDOT can provide updates on projects in the area when needed and also closer to
  construction. Schnell described that in District 6, there is one project in 2025 near Lonsdale,
  constructing a roundabout at State Highway 19 and Rice County Hwy 2; there may be closures
  that impact the Project, but otherwise, that is all she sees for her district. In District 7, the
  earliest project along State Highway 19 is in 2029 (Gaylord to State Highway 169) and then State
  Highway 169 to State Highway 13 in New Prague in 2031.
- Schoeb explained sight corners are angled for traffic at intersections to be able to have a clear view around corners. MNDOT prohibits the installation of poles in sight corners.

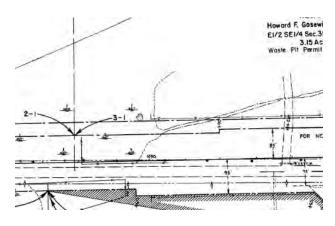
# Great River Energy Cedar Lake Reroute Project Minnesota Department of Transportation April 20, 2023 Meeting Notes

- Great River Energy would also need to stay out of areas where the MDNOT has access control
  along State Highway 19. Access control refers to areas where access is withheld to allow people
  to get in and out of their property (e.g., driveways). It can apply to MNDOT trunk highways like it
  applies to interstate. MNDOT does not allow longitudinal placement in access control areas.
  Access control areas are indicated as dashed tick marks on the MNDOT ROW maps available in
  PDF format on their website (examples provided below). MNDOT will also confirm.
- Strohfus displayed current alignment near intersection of State Highway 19 and Panama Ave / County Road 23. There is a wetland east of Panama Ave / County Road 23 that may be a stormwater pond. The MNDOT ROW through this area is quite wide and MNDOT is currently in the process of both expanding and contracting the ROW in this location. MNDOT inquired on the maximum span between transmission poles; Strohfus to follow-up. Strohfus provided example of potential pole placement in this area and inquired if causes concerns for the MNDOT. MNDOT recommended that the pole on the west side be pushed back closer to the ROW line. This may allow locating the eastern pole further to the west to completely span the MNDOT ROW.
- Koch-Egstad recommended that Great River Energy provide MNDOT with a shapefile of the pole placements as soon as possible for review.
- MNDOT also indicated their preference for perpendicular versus diagonal crossing of the ROW.
   GRE is open to planning more perpendicular crossings.

### R/W Map #11-8



**Zoomed In** 



# Great River Energy Cedar Lake Reroute Project Minnesota Department of Transportation June 1, 2023 Meeting Notes

**Participants:** Stacy Kotch Egstad (Minnesota Department of Transportation [MNDOT]), David Evans (MNDOT), Ann Driver (MNDOT), Mark Strohfus (Great River Energy), Kristin Lenz (Merjent)

Strohfus introduced Great River Energy's Cedar Lake Reroute Proposed Alignment change to avoid the U.S. Fish and Wildlife Service (USFWS) Scott County Waterfowl Production Area. The Proposed Alignment would be extended farther to the east on the south side of State Highway 19 before crossing over to the north side of the highway; the angle of the crossing may also be shallower. The intent is to avoid both the Waterfowl Production Area and to avoid tree clearing as much as possible to the north and south of State Highway 19. The MNDOT did not see any issues with this route revision at this time.

Driver indicated that the Proposed Alignment will need to be moved a little further to the north to avoid the roundabout lanes at the State Highway 19 / Panama Ave. Should be aligned to avoid sight corners and lighting at the roundabout. The move needs to be sufficient to avoid safety concerns with lighting and be sufficiently out of the lanes.

Great River Energy is looking to establish a pole within the area between Panama Ave and Great River Energy's existing 115-kV N/S line – the intent would be to avoid the wetland and place the pole where the wetland boundary is farther north (in the upland area). The MNDOT is working with the County to transfer ownership of this area to the MNDOT; however, this may not occur for another couple of years. Therefore, Great River Energy may need to coordinate with the County regarding this property and not MNDOT. The MNDOT had previously mentioned that the wetland in this area may have been stormwater mitigation; however, MNDOT could not confirm for sure.





12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Melissa Cerda, Senior Cultural Resources Specialist Dylan Goetsch, Cultural Resources Field Investigator Minnesota Indian Affairs Council 161 St. Anthony Ave., Ste. 919 St. Paul, MN 55103 melissa.cerda@state.mn.us dylan.goetsch@state.mn.us

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Melissa Cerda and Dylan Goetsch:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Melissa Cerda and Dylan Goetsch April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



### **Great River Energy**

12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



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125 Minnesota Valley Electric Drive
Jordan, MN 55352
1-800-282-6832

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Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

## About Great River Energy and Minnesota Valley Electric Cooperative

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to approximately 1.7 million people through its 27 member-owner cooperatives and customers. Through our member-owners, we serve two-thirds of Minnesota geographically and parts of Wisconsin, including Minnesota Valley Electric Cooperative.

### **Schedule**

Notifications Winter/Spring 2023

**State permitting** Spring 2023 – Spring 2024 **Survey/design** Fall 2023 – Spring 2024

Easements/

construction

**Environmental permits** Winter 2024 – Spring 2025 **Transmission line** Fall 2024 – Summer 2025

Energization

Summer 2025

### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

### **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:





12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Amanda Gronhovd Office of the State Archaeologist 328 W Kellogg Blvd. St. Paul, MN 55102 Amanda.Gronhovd@state.mn.us

Subject: Great River Energy Cedar Lake Reroute Project

115-kV Transmission Line in Scott and Rice Counties, Minnesota

### Amanda Gronhovd:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Amanda Gronhovd April 14, 2023 Page 2

Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission\_project/</a>. Please contact me at 763-445-5210 or <a href="mailto:MStrohfu@GREnergy.com">MStrohfu@GREnergy.com</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet



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The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

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### **Quick facts**

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### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:





12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

May 10, 2023

Sarah Beimers
Minnesota State Historic Preservation Office
Administration Building #203
50 Sherburne Ave.
St. Paul, MN 55155
sarah.beimers@state.mn.us

**Subject: Great River Energy Cedar Lake Reroute Project** 

115-kV Transmission Line in Scott and Rice Counties, Minnesota

#### Sarah Beimers:

Great River Energy proposes to build an overhead 6.3-mile-long 115-kV transmission line and structures (Project) in order to replace approximately 4.5 miles of the existing MV-CDT 115-kV transmission line that is currently located on the CapX2020 Brookings to Hampton transmission line (CapX2020) structures. The existing line must be removed from the CapX2020 structures in order to make room for construction of a second 345-kV circuit on the g CapX2020 structures. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

Great River Energy held an Open House at the American Legion Park Ballroom in New Prague, Minnesota on March 29, 2023, to provide information and solicit comments from landowners and other interested stakeholders. Great River Energy received feedback at the Open House which resulted in revisions to its proposed route. At this time, Great River Energy's proposed route would begin at the existing Cedar Lake Substation and travel 6.3 miles to tie-in with the existing MV-EVX 115-kV transmission line near the intersection of Panama Avenue/County Road 23 and Minnesota Highway 19. The Project would be located in Helena and Cedar Lake Townships, east of the City of New Prague, in Scott County, and in Wheatland Township, in Rice County, MN.

Sarah Beimers May 10, 2023 Page 2

On behalf of Great River Energy, Merjent Inc. (Merjent) conducted a Phase IA Cultural Resources Assessment, which is enclosed with this letter for your review. Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at: <a href="https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/">https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/</a>. Please contact me at 763-445-5210 or <a href="https://greatriverenergy.com/strohfu@GREnergy.com/should/">MStrohfu@GREnergy.com/should/</a> should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mack Stuthful

Mark Strohfus

Project Manager, Transmission Permitting

Encl:

**Project Fact Sheet** 

Phase IA Cultural Resources Assessment



May 10, 2023

Sarah Beimers
Minnesota State Historic Preservation Office
Administration Building #203
50 Sherburne Ave.
St. Paul, MN 55155
sarah.beimers@state.mn.us

Re: Cedar Lake Reroute Project Phase IA Cultural Resources Assessment

#### Dear Sarah Beimers:

This letter presents the results of a file search completed in support of the Cedar Lake Reroute Project (Project) in Scott and Rice Counties, Minnesota. Great River Energy proposes to build an overhead 6.3-mile-long 115-kV transmission line and structures in order to replace remove approximately 4.5 miles of the existing MV-CDT 115-kV transmission line that is currently located on the CapX2020 Brookings to Hampton (CapX2020) transmission line structures. The existing line must be removed from CapX2020 structures in order to make room for Xcel Energy's second 345-kV circuit. To assist with Project planning, Merjent, Inc (Merjent) prepared this letter; it includes the results of a file search and recommendations and is not intended to replace a formal field survey.

In order to adequately address resources that may be affected by Project improvements, a larger Study Area was created to establish context and understand nearby archaeological site density. The Study Area includes the Project Area plus an additional one-mile buffer on each side of the centerline. The Study Area is comprised of the following locations:

County	Township	Range	Sections
Rice	112N	22W	3, 4, 5, 6
Scott	113N	22W	31, 32, 33, 34, 35
Scott	113N	23W	25, 36

### REGULATORY FRAMEWORK

When Project development proceeds, we expect that the Minnesota Field Archaeology Act (Minn. Stat § 138.31-138.42) will apply to the Project. Regardless of specific permits required prior to construction, the Private Cemeteries Act (Minn. Stat § 307.08) will apply.

The Minnesota Field Archaeology Act (Minn. Stat § 138.32-138.42) establishes the Office of the State Archaeologist (OSA); requires licenses to engage in archaeology on nonfederal public land; establishes ownership, custody, and use of objects and data recovered during survey; and requires state agencies to submit development plans to the OSA, Minnesota State Historic Preservation Office (SHPO), and the Minnesota Indian Affairs Council for review when there are known or suspected archaeological sites in the area.

Minnesota's Private Cemeteries Act (Minn. Stat § 307.08) affords all human burial grounds and remains older than 50 years and located outside of platted or identified cemeteries protection from unauthorized disturbance. This statute applies to burials on either public or private lands or waters and includes prehistoric Indian burial mounds as well as historic cemeteries.

### **Literature Review**

On Friday, April 28, 2023, Merjent retrieved cultural resources site (archaeological sites and historic structures) and previous survey files from the SHPO. Merjent Cultural Resource Specialists reviewed archaeological site files on the OSA online portal, as well as the General Land Office (GLO) maps and available historical aerial photography accessed online through the OSA Portal<sup>1</sup>. Enclosed Figures 1 and 2 show the features discussed below identified during this review.

### BACKGROUND RESEARCH RESULTS Previously Recorded Archaeological Resources

According to the OSA and SHPO files, there is one site that minimally intersects the Project Route. This site is an alpha site, meaning that it was identified by historic documentation and has not been verified in the field by a professional archaeologist. Due to the imprecise locational information of this site, alpha site boundaries are likely larger than they would be if the site was physically located. It is unlikely that this site would have intact deposits where it intersects the current Project given that the point of intersect is a small portion of an existing right-of-way (ROW).

• Site 21SCs is described as a historic ghost town known as Raven Stream, a small town inhabited in the mid-late 1800s.

There is one additional archaeological site within one mile of the Project, however it is at least 1,000 feet from the Project Route. Due to distance, there will be no impact to this site. This site is described as a small lithic scatter initially identified in 2001.

Site Number/Name	Site Type	Location (TRS)	NRHP Status
21SC0063	Lithic Scatter	T113N R22W Sec. 33	Unevaluated
21SCs	Ghost Town	T113N R23W Sec 36	Unevaluated

### **Previously Recorded Archaeological Surveys**

The Study Area falls mostly within **Unknown Site Potential/Poorly Surveyed** layers of the Mn Model (Phase 4) Survey Implementation Model. One previous archaeological survey was identified in the Study Area. The precise location of the survey was not provided, however the survey (SC-99-01) identified site 21SC0063 (discussed above), which is located near the outer edge of the Study Area, and in an area that is Low Site Potential/Well Surveyed layer of the Mn



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<sup>&</sup>lt;sup>1</sup> OSA Portal. 2023. https://osa.gisdata.mn.gov/OSAportal. Accessed April 28, 2023.

Model. Given that the Project is located largely along utility and road ROWs, it is unlikely that the Project area contains intact cultural deposits.

### **Previously Recorded Standing Historic Buildings and Structures**

Four historic buildings and structures are located within the Study Area, with one overlapping the Project area. Trunk Highway 19 (XX-ROD-041) (aka 280<sup>th</sup> St E / State Highway 19) is a linear resource which the Project Route intersects at various points. Given that this is an aboveground transmission line, these intersections will not impact the resource. Poles supporting the existing Minnesota Valley Electric Cooperative distribution lines are visible from Trunk Highway 19. Because the Project is collocated and parallels existing utility and road ROWs, it will not result in an appreciable change in viewshed.

The remaining historic buildings and structures will not be impacted due to distance. The remaining buildings and structures include a farmstead (RC-WHE-001), a log outbuilding associated with a farmstead (SC-CLK-009), and a bridge (SC-HEL-015). The exact location of the bridge was not provided; however, a review of Google Street View indicates that the bridge has been removed.

Site Number/Name	Site Type	Location (TRS)	NRHP
			Recommendation
RC-WHE-001	Farmstead	T112N R22W Sec 3	Unevaluated
SC-CLK-009	Log Outbuilding	T113N R22W Sec 35	Unevaluated
SC-HEL-015/70507	Bridge	T113N R23W Sec 36	Unevaluated
XX-ROD-041/Trunk Highway 19	Road-related	Multiple	Unevaluated

### **General Land Office and Aerial Photo Review**

Merjent reviewed Nineteenth century GLO maps and notes on file with the Bureau of Land Management<sup>2</sup> (Bureau of Land Management 2023). The GLO map of the Project Area illustrated conditions in 1870 as being prairie with many lakes and connecting streams and rivers. An unnamed trail is present near Cedar Lake. The trail continues south and intersects the Project Route at the same point that alpha site 21SCs intersects it. Aerial photographs from 1937 show that roads have been constructed and farms have been established with agricultural fields dominating the landscape. There is no trace of the GLO trail on historic aerials, by 1937 it had been superseded by roads and fields. Subsequent historic and modern aerial photographs show that the landscape of the Project Area has remained largely the same since that time, with roads being the main addition to the area.

#### **SUMMARY AND RECOMMENDATIONS**

Two total archaeological sites and four historic buildings and structures were identified within the Study Area. There is potential for Historic-era sites within the Project Area because the area has been inhabited at least since the 1930s; however, given that the Project is an overhead transmission line project proposed mostly within an already disturbed ROW, there is a low



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<sup>&</sup>lt;sup>2</sup> Bureau of Land Management General Land Office Records. 2023. https://glorecords.blm.gov/

potential for intact historic sites. Mn Model4 indicates that the Project's Area of Potential Effect has an unknown site potential because the area has been poorly surveyed. The Project Area could contain pre-contact sites given its location among several water sources. Given the lack of previous survey and that the Project Route intersects an archaeological site and a historic structure, Merjent recommends that a Phase I Archaeological Reconnaissance be conducted. Additionally, if human remains are encountered during construction activities, all ground disturbing activity must cease, and local law enforcement must be notified per Minn. Stat § 307.08.

If you have any questions regarding this memorandum, please do not hesitate to contact me (lacy.lepisto@merjent.com).

Sincerely, Merjent, Inc.

Lacy Lepisto

Cultural Resource Specialist

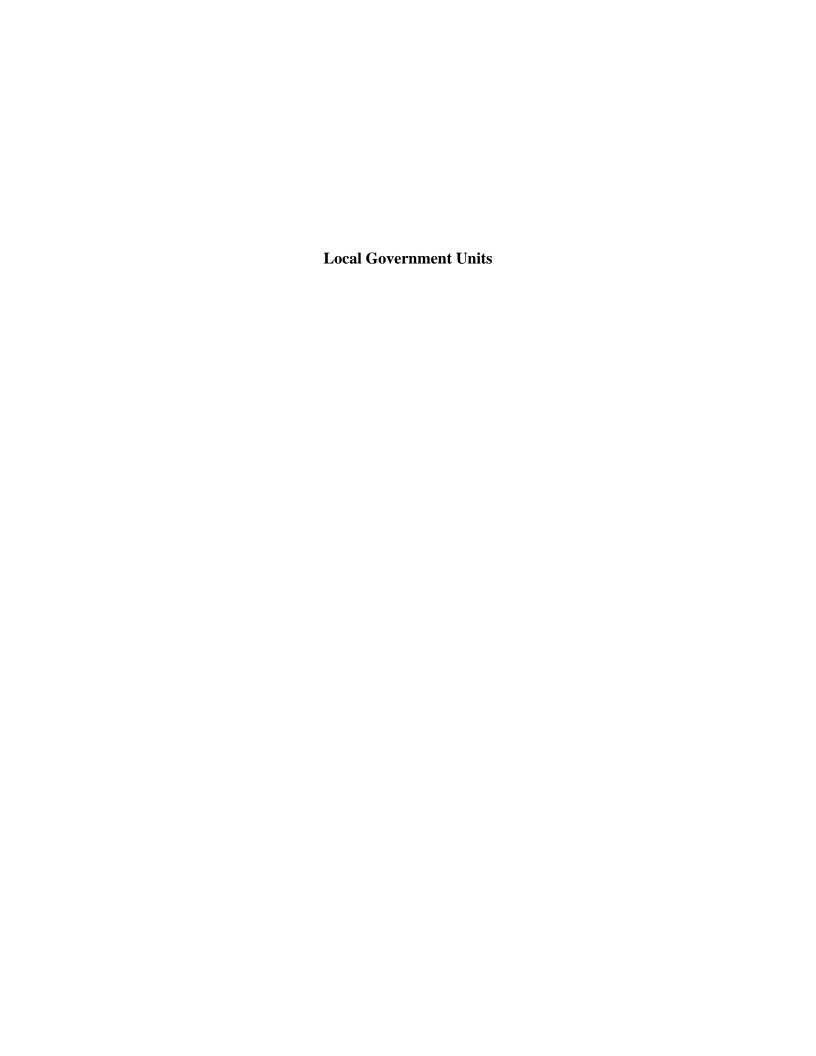
### Enclosed:

Figure 1 Topographic Map (Contains Confidential and Privileged Information)
Figure 2 Aerial Map (Contains Confidential and Privileged Information)

CC

Mark Strohfus, Great River Energy Kristin Lenz, Merjent Bill Harding, Merjent









12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Troy Kuphal
Scott County Soil & Water Conservation District
7151 190<sup>th</sup> St W Suite 125
Jordan, MN 55352-2103
tkuphal@co.scott.mn.us

**Subject:** Great River Energy Cedar Lake Reroute Project

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Troy Kuphal:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Troy Kuphal April 14, 2023 Page 2

You are receiving this letter because your agency has been identified as the Local Government Unit that administers the Wetland Conservation Act in Scott County. Great River Energy would also like to request Scott County's noxious weeds list. Great River Energy would appreciate any comments that you may have on the Project and the proposed route. The enclosed Project Fact Sheet provides additional information on the Project, including a map of the Project area and proposed route. Great River Energy also maintains a web site that contains Project information at:

https://greatriverenergy.com/transmission\_project/cedar-lake-transmission-project/. Please contact me at 763-445-5210 or MStrohfu@GREnergy.com should you need additional information.

Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 

cc:

Alyssa Core, Minnesota Board of Soil and Waters Resources

MStrohfu@GREnergy.com D: 763-445-5210



12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



Minnesota Valley Electric Cooperative 125 Minnesota Valley Electric Drive Jordan, MN 55352 1-800-282-6832 mvec.net

Cedar Lake reroute transmission project

Great River Energy is proposing to construct a new 115-kilovolt (kV) transmission line in Scott and Rice Counties ("Cedar Lake Reroute" or "Project"). The Project is being done to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. The Project, along with the second 345-kV circuit, will ensure we maintain reliable and resilient service to electric customers in the future by addressing reliability concerns and increasing deliverability of renewable resources from southern Minnesota to the southwest metropolitan area. A route permit must be issued by the Minnesota Public Utilities Commission (PUC) before construction can begin.

#### **Overview**

The Project will include construction of a new approximately 6.3-mile 115-kV transmission line. The transmission line will connect at Great River Energy's existing MV-EVX 115-kV transmission line near the intersection of County Road 23 and Minnesota Highway 19 and extend to the existing Cedar Lake Substation south of County Road 2 (see map on back). The Project will be built to Great River Energy's 115-kV design but will initially operate at 69 kV. Designing to 115-kV standards will simplify operating the regional transmission system at 115 kV as electrification and load development increases in the area. The route permit application will include analyses with the transmission line operating at 115 kV. Once the transmission line is constructed and connected to the substation, Great River Energy's existing 4.5-mile MV-CDT 115-kV transmission circuit, which is co-located in part on the CapX2020 345-kV transmission structures along County Road 2, will be removed.

After Great River Energy submits the route permit application to the Minnesota PUC, a representative from Great River Energy will contact property owners to discuss access to the proposed route and the process for acquisition of easements. Following construction of the transmission line, Great River Energy will promptly repair any damages that may occur.





Typical 115-kV wood single circuit structure with and without distribution under build.

#### Permitting and public involvement

Great River Energy will submit a route permit application for the proposed project to the PUC. During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the Project, including public meetings facilitated by the PUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA). The DOC EERA will prepare an environmental assessment for the Project. Construction cannot begin until an approved route permit is issued by the PUC.

## About Great River Energy and Minnesota Valley Electric Cooperative

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**Energization** Summer 2025

#### **Quick facts**

Length - 6.3 miles

**Voltage –** 115 kV (initially operated at 69 kV)

Structures - 60 to 90-foot wood or steel poles

Spans - 300 to 400 feet apart

Right of way - 100-foot-wide right of way, 50 feet

on each side of the centerline

Permits – MN Public Utilities Commission route permit

## **Proposed project** Existing 115-kV circuit to be removed for future incoming 345-kV circuit Cedar Lake Helena Township 270th StW Proposed tap location 19 Proposed 115-kv Wheatland Township Lanesburgh transmission line **Great River Energy** Non-GRE Transmission Cedar Lake Reroute - Existing 345-kV transmission line Proposed 115-kV transmission line Existing 115-kV circuit to be removed for future incoming 345-kV circuit 1 Miles Existing 115-kV transmission line Existing distribution substation GREAT RIVER ENERGY. Proposed permit route corridor

#### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:





12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Julie Renkel
Rice County - Water Resource Management
310 Third St. NW
Faribault, MN 55021
RCPlanningZoning@ricecountymn.gov

**Subject:** Great River Energy Cedar Lake Reroute Project

115-kV Transmission Line in Scott and Rice Counties, Minnesota

Julie Renkel:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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MStrohfu@GREnergy.com D: 763-445-5210

Julie Renkel April 14, 2023 Page 2

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Sincerely,

**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

Encl: Project Fact Sheet

MStrohfu@GREnergy.com D: 763-445-5210



12300 Elm Creek Boulevard Maple Grove, MN 55369 1-888-521-0130 greatriverenergy.com



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Typical 115-kV wood single circuit structure with and without distribution under build.

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12300 Elm Creek Boulevard Maple Grove, Minnesota 55369-4718 763-445-5000 greatriverenergy.com

April 14, 2023

Jarett Spitzack
Rice County Soil & Water Conservation District
1810-30<sup>th</sup> St. NW
Faribault, MN 55021-1843
Jarett.Spitzack@riceswcd.org

Subject: Great River Energy Cedar Lake Reroute Project
115-kV Transmission Line in Scott and Rice Counties, Minnesota

Jarett Spitzack:

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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MStrohfu@GREnergy.com D: 763-445-5210

Jarett Spitzack April 14, 2023 Page 2

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**GREAT RIVER ENERGY** 

Mark Sturkful

Mark Strohfus

Project Manager, Transmission Permitting

**Encl: Project Fact Sheet** 

cc:

Steve Pahs, Rice County Soil & Water Conservation District Alyssa Core, Minnesota Board of Soil and Waters Resources

MStrohfu@GREnergy.com D: 763-445-5210



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#### **Great River Energy representatives**

For project updates and information, visit www.greatriverenergy.com/CedarLakeTap or contact any of the following:

From: <u>Kristin Lenz</u>
To: <u>Jarett Spitzack</u>

Cc: <u>Strohfus, Mark GRE-MG</u>; <u>Britta Bergland</u>

Subject: RE: Great River Energy Cedar Lake Reroute Project Introduction

**Date:** Monday, April 17, 2023 10:43:00 AM

Attachments: <u>image001.png</u>

#### Good morning Jarett,

Thank you for your response. Apart from some pole placement which may occur in wetlands, Great River Energy would only anticipate temporary fill associated with construction mats in wetlands at this time. The route alignment provided in the introduction letter is preliminary and is subject to change. Once we move through the Route Permit application process with the Minnesota Public Utilities Commission, we will have a better understanding of potential wetland impacts.

Thank you, Kristin

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660 www.merjent.com

From: Jarett Spitzack < Jarett. Spitzack@riceswcd.org >

**Sent:** Friday, April 14, 2023 2:45 PM

To: Kristin Lenz < kristin.lenz@merjent.com>

**Subject:** EXTERNAL: RE: Great River Energy Cedar Lake Reroute Project Introduction

#### **CAUTION:** This email originated from outside of Merjent.

Good afternoon Kristin.

Thanks for making us aware of the project. I believe MnDOT conducted a level 1 delineation on the Rice/Scott Co line earlier this year for a different project. As you are probably aware, posts and pilings are not considered fill under WCA. Do you anticipate any permanent impacts to wetlands or only temporary? Either way, I don't foresee any issues with WCA in Rice County.

Thanks,

Jarett

**From:** Kristin Lenz < <u>kristin.lenz@merjent.com</u>>

**Sent:** Friday, April 14, 2023 2:21 PM

To: Jarett Spitzack < <u>Jarett.Spitzack@riceswcd.org</u>>; Steven Pahs < <u>Steven.Pahs@riceswcd.org</u>>

**Cc:** Core, Alyssa (BWSR) <<u>alyssa.core@state.mn.us</u>>; Strohfus, Mark GRE-MG <<u>MStrohfu@GREnergy.com</u>>; Britta Bergland <<u>britta.bergland@merjent.com</u>>

**Subject:** Great River Energy Cedar Lake Reroute Project Introduction

Good afternoon,

Great River Energy is proposing to reroute approximately 4.5 miles of an existing 115-kilovolt (kV) transmission line in Scott and Rice Counties, Minnesota as part of the Cedar Lake Reroute Project (the Project). The purpose of the Project is to make room for a second 345-kV circuit to be attached to the existing CapX2020 Brookings to Hampton transmission structures, which run along County Road 2 in the Project area. Great River Energy is planning to submit a Route Permit Application to the Minnesota Public Utilities Commission in June 2023.

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Thank you, Kristin Lenz on behalf of Mark Strohfus, Great River Energy

Kristin Lenz Senior Project Manager 612.924.3962 direct 763.913.4740 mobile kristin.lenz@merjent.com



1 Main Street SE, Suite 300 Minneapolis, MN 55414 612.746.3660

www.merjent.com

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### Appendix E

Landowner Mailing List

#### Great River Energy Cedar Lake Reroute Project Landowner Mailing List

Contact Type	First Name	Last Name	Company	Address	City	State	Zip Code	PID
	Jennifer K.	Alfonso	Company	13890 Mckenna Rd NW	Prior Lake	MN	55372	039300065
	William A.	Allen		14125 Louisiana Ave S Unit 5115	Savage	MN	55378	039310083
	William A.	Allen		27845 Teale Ave	New Prague	MN	56071	039310083
	Cecil & Virgilene	Anderson		6451 190th St E	Prior Lake	MN	55372	0105150001, 0105275001
	Cecil & Virgilene	Anderson		3009 Lake Ave	New Prague	MN	56071	0105150001, 0105275001
	Keith C. & Kelli M.	Balke Jr.		12876 New Prague Blvd	New Prague	MN	56071	0106225001
		Barnes		27782 Balsa Ave	Webster	MN	55088	030310141
	Benjamin	Bartusek		305 Sunrise Ave N	New Prague	MN	56071	0106175008
	David	Bartusek		1815 West Melrose	Chicago	П	60657	0104100002
	John T. & Shirley	Bartusek		362 Rolling Hills Dr S	Le Center	MN	56057	0104275001
		Bartusek Bierle		3062 Jackson Ave	Webster	MN	55088	103225002
		Bartusek Et Al		211 1st Ave Se	New Prague	MN	56071	0104175002
		Bartusek-Bierle		Po Box 373	Park Rapids	MN	56470	0103225003
	Frank	Bisek		1901 270th St W	New Prague	MN	56071	059360131
		Bisek		175 280th St W	New Prague	MN	56071	07.001.2650
		Bradfield		121 263 St E	New Prague	MN	56071	039300042
		Brandt		27797 Teale Ave	New Prague	MN	56071	039310084
		Busch		700 Forest Green Cir NE	New Prague	MN	56071	039320052
	Roger & Judy	Carlson		9076 New Prague Blvd	Webster	MN	55088	0103100001
	Bradley J.	Cervenka		8154 30 St W	Elko New Market	MN	55020	039350060, 039340140, 030350010
	Bradley J.	Cervenka		27901 Panama Ave	Webster	MN	55088	039350060, 039340140, 030350010
	Joseph R. Clay and	Jan LaFavor-Clay Trust		3021 Lake Ave	New Prague	MN	56071	0105225001
	Sarah	Dejoy		3260 Independence Ave	Webster	MN	55088	0103175001, 0103175002
	Marvin	Deutsch		28414 141st Ave	New Prague	MN	56071	0106125002, 0106125003
PROPERTY	Marvin	Deutsch		12410 New Prague Blvd	New Prague	MN	56071	0106125002, 0106125003
		Deutsch		28414 141st Ave	New Prague	MN	56071	0106200001
		Deutsch		12668 New Prague Blvd	New Prague	MN	56071	0106200001
	Joan H. & Kenneth	Dille		6481 Casey Parkway	Prior Lake	MN	55372	0106100001
PROPERTY	Joan H. & Kenneth	Dille		12150 New Prague Blvd	New Prague	MN	56071	0106100001
TAX	Steven D.	Eischens		27776 Mark Ave	New Prague	MN	56071	050140010
TAX	Michael J. & Sara M.	Fatland		27941 Teale Ave	New Prague	MN	56071	039310081
	Amanda L.	Foix		22781 Balsa Ave	Webster	MN	55088	030220010
	John	Franek		3322 Lake Ave	New Prague	MN	56071	0105125001
TAX .	John T. & Elizabeth	Franek		3322 Lake Ave	New Prague	MN	56071	0106175011
TAX	Rosemary	Franek		11220 New Prague Blvd	New Prague	MN	56071	0105100001
TAX .	Jasen R.	Giles		27655 Langford Ave	New Prague	MN	56071	039320050
TAX	Lynette M.	Grobel		27832 Teale Ave	New Prague	MN	56071	030290012
TAX	Timothy L. & Susan J.	Hanson		26571 Baseline Ave	New Prague	MN	56071	039300064
TAX	Jon C. & Mary R.	Hendricks		880 260 St W	New Prague	MN	56071	050700040, 059250021, 050700030, 050700020, 050700010
TAX	Curtis L.	Hoffman		1991 Joel D Ln	New Prague	MN	56071	030740170
TAX	James L. & Lucille	Hurrle		1340 280 St E	New Prague	MN	56071	039320053
TAX	Jeffrey & Antonette	Jeurissen		1166 280 St E	New Prague	MN	56071	039320051
	Jeffrey J.	Jeurissen		1166 280th St E	New Prague	MN	56071	039330080, 039330083, 039330090
	John O. & Kristine B.	Johnson		27901 Teale Ave	New Prague	MN	56071	039310085
	Tammy L. & David M.	Johnson		26525 Baseline Ave	New Prague	MN	56071	039300066
TAX	Tyler Robert	Kienow		1529 Cottonwood Trl	New Prague	MN	56071	030740030
	Andrew J.	Kreuser		2026 280 St E	New Prague	MN	56071	039330081
	Jeffery R.	Krocak		26801 Baseline Ave	New Prague	MN	56071	039300061
	Chris A.	Kubes		26160 Baseline Ave	New Prague	MN	56071	050330020
		Kubes		26140 Baseline Ave	New Prague	MN	56071	050410010
	Wallace J. & Jeanne P.	Kubes		1002 3Rd St Ne	New Prague	MN	56071	059250061
	Justin	Lennox		1522 Cottonwood Trl	New Prague	MN	56071	039320062
	John L.	Magnussen		1773 Joel D Ln	New Prague	MN	56071	030740180, 030740210, 030740200, 030740151
		Marsyla		201 263rd St E	New Prague	MN	56071	039300043
		Meyers		11580 New Prague Blvd	New Prague	MN	56071	0105200001
		Muhlenhardt		3225 Jackson Ave	Webster	MN	55088	0103200001
TAX	Roger G. & Catherine A.	Novak	1	27910 Country Hollows Ln	New Prague	MN	56071	030310010
	. 6	Novotny		825 260 St W	New Prague	MN	56071	059250070, 050410020

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Contact Type	First Name	Last Name	Company	Address	City	State	Zip Code	PID
TAX	Anrita B.	Novotny Irrevocable Trust		210 7th Ave NW	New Prague	MN	56071	039310020
PROPERTY	Anrita B.	Novotny Irrevocable Trust		27750 Teale Ave	New Prague	MN	56071	039310020
TAX	Alvin & Genevieve	Novotny Trust		27255 Baseline Ave	New Prague	MN	56071	039310030
TAX	Joel J. & Mary E.	Olson		8916 30th St W	Webster	MN	55088	102225001
TAX	Kevin M. & Rita	Olson		3245 Lake Ave	New Prague	MN	56071	0105250001
TAX	Mark & Jacqueline	Pavek		6450 30th St W	Elko	MN	55020	0104150001, 0104225001, 0104250001
TAX	Donald & Elaine	Pesta		27840 Teale Ave	New Prague	MN	56071	030290021
TAX	Scott & Anne	Pexa Revocable Trust		196 280th St W	New Prague	MN	56071	030750010, 050620070
TAX	Ashley M.	Quam		27268 Baseline Ave	New Prague	MN	56071	059360132
TAX	Mark & Linda	Rahn Trust		26301 Baseline Ave	New Prague	MN	56071	039300041
TAX	David	Ranzinger		806 280 St E	New Prague	MN	56071	030150010
TAX	Tracy A.	Roorda		426 280 St E	New Prague	MN	56071	039310090
TAX	Bradley D. & Margaret	Schipper		3221 Leroy Ave	New Prague	MN	56071	0106125004
TAX	Christopher R. & Rose M.	Simones		26200 Baseline Ave	New Prague	MN	56071	050330030
TAX	Thomas M.	Sirek		3496 Halstad Ave	Webster	MN	55088	0102200001
TAX	Daniel J. & Teresa	Skluzacek		2650 280 St E	New Prague	MN	56071	039330060
TAX	Randall Joseph	Steinhoff		1146 138th Ave NW	Andover	MN	55304	030740010
PROPERTY	Randall Joseph	Steinhoff		1560 Joel D Ln	New Prague	MN	56071	030740010
TAX	Truman A. & Brenda	Tollefsrud		4515 Independence Ave	Lonsdale	MN	55046	0103125001
TAX	Steven C.	Trewartha		27747 Teale Ave	New Prague	MN	56071	039310021
TAX	Eugene A. & Dorothy	Tupy		10050 New Prague Blvd	New Prague	MN	56071	0104100001
TAX	Gladys M.	Tupy		420 Independence St	New Prague	MN	56071	0106250001
TAX	John A.	Tupy		1598 Joel D Ln	New Prague	MN	56071	030740020
TAX	Myron & Carol	Tupy		10950 New Prague Blvd	New Prague	MN	56071	0104225002
TAX	Thomas E. Voight and	Kayla Voight Millner		10550 New Prague Blvd	New Prague	MN	56071	0104200001
TAX	Jessica A.	Wallner		2030 280 St E	New Prague	MN	56071	039330082
TAX	Katie L.	Weiers		27846 Teale Ave	New Prague	MN	56071	039310110
TAX	Daniel M.	Wixon		27590 Panama Ave	Webster	MN	55088	039340100, 039340120, 039340150, 039340160
TAX			Bisek Brothers LLC	1901 270 St W	New Prague	MN	56071	059250050, 039300070, 039310010
PROPERTY			Bisek Brothers LLC	300 270th St W	New Prague	MN	56071	059250050, 039300070, 039310010
PROPERTY			Bisek Brothers LLC	27251 Baseline Ave	New Prague	MN	56071	059250050, 039300070, 039310010
TAX			Country Knolls Homeowners' Assoc	1798 Joel D Ln	New Prague	MN	56071	030740190
TAX			Dove Hill Farms LLC	PO Box 94	New Prague	MN	56071	039300044
PROPERTY			Dove Hill Farms LLC	26495 Baseline Ave	New Prague	MN	56071	039300044
TAX			Heritage United Meth Church	PO 32	New Prague	MN	56071	039310082
PROPERTY			Heritage United Meth Church	200 280th St E	New Prague	MN	56071	039310082
TAX			Johnson Reiland Builders And Remodelers	616 Highway 3 S	Dundas	MN	55019	030740161
PROPERTY			Johnson Reiland Builders And Remodelers	1851 Joel D Ln	New Prague	MN	56071	030740161
TAX			LEH Properties LLC	3765 Lake Ave	New Prague	MN	56071	0104125001
PROPERTY			LEH Properties LLC	10480 New Prague Blvd	New Prague	MN	56071	0104125001
TAX		Evan Bohlman	Minnesota Pipe Line Company LLC	PO 2900	Wichita	KS	67201	050140030
TAX			Pomije Farms LLC	301 260 St E	New Prague	MN	56071	039300031
TAX			Schaefer Living Trust	3109 Leroy Ave	New Prague	MN	56071	0106100002, 0106125001

### Appendix F

**Construction Emission Calculations** 

# Great River Energy Cedar Lake Reroute 2023 Construction Emission Calculations Summary

	Construction Emissions (tons) Criteria Pollutants							
Description	NOx	CO	VOC	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>		
Off-Road Engine Emissions	5.12	1.50	0.36	0.00	0.21	0.20		
Unpaved Roads					1.58	0.16		
Commuters and Delivery Vehicles								
Earthmoving					8.00	0.84		
TOTAL	5.12	1.50	0.36	0.00	9.79	1.21		

## Great River Energy Cedar Lake Reroute 2023 Construction Emission Calculations Emission Factors for Construction Engines

		Hours per	Days per	Number of	Total Hours	Max Power	Load	Loaded		E	mission Facto	ors <sup>d,e</sup> (g/hp-h	r)	
Equipment	Quantity <sup>a</sup>	Day	Week	Weeks	Used <sup>b</sup>	(HP)	Factor c	Power (HP)	voc	co	NOx	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>
Air Compressor	1	10	5	16	800	80	1	80	0.367	2.366	4.700	0.240	0.240	0.002
ATV	1	10	5	16	800	20	0.5	10	0.438	2.161	4.440	0.267	0.267	0.002
Backhoe	1	50	5	16	4,000	75	8.0	60	0.367	2.366	4.700	0.240	0.240	0.002
Fork Lift	1	5	5	16	400	120	1	120	0.167	0.843	4.335	0.132	0.132	0.002
Dump Truck	1	5	5	16	400	325	8.0	260	0.338	0.867	4.100	0.180	0.180	0.002
Generator	1	5	5	16	400	250	0.5	125	0.167	0.843	4.335	0.132	0.132	0.002
Boom truck	2	10	5	16	1,600	50	1	50	0.338	0.867	4.100	0.180	0.180	0.002
Pickup Truck	5	10	5	16	4,000	150	0.25	38	0.167	0.843	4.335	0.132	0.132	0.002
Skid steer loader	2	10	5	16	1,600	50	1	50	0.309	0.748	4.000	0.132	0.132	0.002
Large Crane	1	10	5	16	800	15	0.21	3	0.438	2.161	4.44	0.267	0.259	0.002
Medium Crane	1	10	5	16	800	450	0.7	315	0.3085	0.7475	4.0	0.132	0.128	0.002
2-inch Water Pump	1	5	5	16	400	5	0.69	3	0.438	2.161	4.44	0.267	0.259	0.002
Semitruck/Trailer	1	5	5	16	400	500	0.59	500	0.167	0.843	4.335	0.132	0.132	0.002

<sup>&</sup>lt;sup>a</sup> Equipment counts based on experience with construction of a similar projects.

393.5 hp-hr/MMBtu 453.6 g/lb

<sup>&</sup>lt;sup>b</sup> Generally assumes work will occur 7 am - 7 pm, Monday through Saturday.

c Load Factors from Appendix A of EPA 420\_P-04-005, Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling, USEPA, April 2004.

d EPA 420-P-04-009, Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression Ignition, USEPA, April 2004 - Tier 2 Engines.

 $<sup>^{\</sup>rm e}$  GHG emission factors from Title 40 Subchapter C Part 98 Subpart C Table C-1 and C-2 to Subpart C. Assumption:

#### Great River Energy Cedar Lake Reroute 2023

#### Construction Emission Calculations

#### Emission Estimates from Construction Engines

			Potential Emis	ssions (tons)		
Equipment	VOC	CO	NOx	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>
Air Compressor	2.59E-02	0.167	0.332	0.017	0.017	0.000
ATV	3.86E-03	0.019	0.039	0.002	0.002	0.000
Backhoe	9.71E-02	0.626	1.243	0.063	0.063	0.001
Fork Lift	8.83E-03	0.045	0.229	0.007	0.007	0.000
Dump Truck	3.88E-02	0.099	0.470	0.021	0.021	0.000
Generator	9.20E-03	0.046	0.239	0.007	0.007	0.000
Boom truck	2.98E-02	0.076	0.362	0.016	0.016	0.000
Pickup Truck	2.76E-02	0.139	0.717	0.022	0.022	0.000
Skid steer loader	2.72E-02	0.066	0.353	0.012	0.012	0.000
Large Crane	1.22E-03	0.006	0.012	0.001	0.001	0.000
Medium Crane	8.57E-02	0.208	1.111	0.037	0.036	0.001
2-inch Water Pump	6.66E-04	0.003	0.007	0.000	0.000	0.000
Semitruck/Trailer	6.66E-04	0.003	0.007	0.000	0.000	0.000
TOTAL	0.36	1.50	5.12	0.21	0.20	0.00

#### Great River Energy Cedar Lake Reroute 2023

#### Construction Emission Calculations

#### Fugitive Dust Emissions from Unpaved Roads

		Total Davis				n Factor MT) <sup>c</sup>		sions ns)
Equipment	Quantity <sup>a</sup>	Total Days Used	VMT b	w	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
ATV	1	80	40	20	1.73	0.17	0.03	0.00
Backhoe	1	400	200	50	2.62	0.26	0.26	0.03
Fork Lift	1	40	20	20	1.73	0.17	0.02	0.00
Dump Truck	1	40	20	21	1.77	0.18	0.02	0.00
Boom truck	2	160	160	24	1.88	0.19	0.15	0.02
Pickup Truck	5	400	1,000	24	1.88	0.19	0.94	0.09
Skid steer loader	2	160	160	26	1.95	0.20	0.16	0.02
Large Crane	1	10	5	50	2.62	0.26	0.01	0.00
Medium Crane	1	10	5	25	1.92	0.19	0.00	0.00
2-inch Water Pump	1	5	3	25	1.92	0.19	0.00	0.00
Semitruck/Trailer	1	5	3	25	1.92	0.19	0.00	0.00
TOTAL							1.58	0.16

<sup>&</sup>lt;sup>a</sup> Equipment counts are estimated based current construction plan.

<sup>&</sup>lt;sup>c</sup> AP-42 Section 13.2.2 Unpaved Roads, dated November 2006, Equations 1a and 2 TOTALS 11.19 1.12 Surface Silt content based on Table 13.2.2-1 - construction sites.

Eq 1a: E = $k * (s/12)^a * (W/3)^b$	Constants	PM	PM <sub>10</sub>	$PM_{2.5}$
Eq 2: E <sub>ext</sub> = E * [(365-P)/365]	k (lb/VMT)	4.9	1.5	0.15
where:	а	0.7	0.9	0.9
VMT = Vehicle Miles Traveled	b	0.45	0.45	0.45

W = Mean Vehicle Weight, tons

S = Mean Vehicle Speed, mph

P = 120 days with at least 0.01 inches rain, EPA's AP-42 Figure 13.2.2-1

s = 8.5 surface material silt content (%) for construction sites, EPA's AP-42 Table 13.2.2-1

E = size-specific emission factor, lb/ VMT

E<sub>ext</sub> = annual size-specific emission factor extrapolated for natural migration, lb/VMT

<sup>&</sup>lt;sup>b</sup> Each vehicle is assumed to travel 0.5 mile per day on site.

#### Cedar Lake Reroute 2023

#### Construction Emission Calculations

#### Fugitive Dust Emissions from Earthmoving Activities

Summary of Fugitive Dust Emissions From Earthmoving Activities  Daily Material Handling								
	Construction Rate <sup>a</sup>	Handling Time Exposed Are		Emission Factors <sup>b - d</sup> (lb/ton)		Emissions (tons)		
Construction Activity	(ton/day)	(days)	(acres)	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	
Topsoil removed by scraper <sup>e</sup>	855.6	180		0.058	0.0061	4.47	0.47	
Topsoil replacement	855.6	180		0.012	0.0013	0.92	0.10	
Wind erosion of exposed areas		180	76.36	0.38	0.03999	2.61	0.27	
TOTAL						8.00	0.84	

Notes and Assumptions:

<sup>&</sup>lt;sup>e</sup> Assumes the entire workspace is cleared to 1 foot deep, 1.25 tons per cubic yard.

Construction Schedule						
Total Days:	180					

	Topsoil Removed by Scraper a			
	Total	Soil Volume	Soil Weight	Daily Material Handling Rate
County/Facility	(Acres)	(yd³)	(ton)	(ton/day)
Cedar Lake Reroute	76.36	123,200	154,000	856
TOTAL	76.36	123,200	154,000	856

<sup>&</sup>lt;sup>a</sup> Assumes the entire ROW is cleared, 6.5 miles long and 100 feet wide.

<sup>&</sup>lt;sup>a</sup> Soil density: 1.25 tons per yard.

<sup>&</sup>lt;sup>b</sup> As worst case, PM<sub>10</sub> is set equal to Total Particulate Matter. PM<sub>2.5</sub> is set to 0.105 times PM<sub>10</sub> per AP-42 Section 11.9 Table 11.9-1.

<sup>&</sup>lt;sup>c</sup> Wind Erosion Exposed Areas emission factor: AP-42 Section 11.9 Western Surface Coal Mining, Table 11.9-4, July 1998, wind erosion of exposed areas (ton/yr/acre).

<sup>&</sup>lt;sup>d</sup> Emission factor: AP-42 Section 11.9 Western Surface Coal Mining, Table 11.9-4, July 1998, topsoil removal by scraper.

### Appendix G

Greenhouse Gas Emission Calculations

# Great River Energy Cedar Lake Reroute 2023 Greenhouse Gas Emission Calculations Summary

	Greenhouse Gas Emissions From Construction Engines (tons)						
Description	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	CO₂e <sup>a</sup>			
Off-Road Engine Emissions	171.49	0.01	0.00	172.07			
Commuters and Delivery Vehicles	114.83	0.00	0.00	114.83			
TOTAL	286.32	0.01	0.00	286.90			

 $<sup>^{\</sup>rm a}$  CO $_{
m 2}$ e = carbon dioxide equivalent. Includes global warming potentials from 40 CFR 98 Table A-1.

Global Warming Potentials						
CO <sub>2</sub>	CH₄	N <sub>2</sub> O				
1	25	298				

Source: 40 CFR 98 Table A-1: https://www.ecfr.gov/current/title-40/chapter-l/subchapter-C/part-98#Table-A-1-to-Subpart-A-of-Part-98

#### Cedar Lake Reroute 2023

#### Greenhouse Gas Emission Calculations

Emission Estimates from Construction Engines

		Hours per	Days per	Number of	<b>Total Hours</b>	Max Power	Load	Loaded	Emission Factors <sup>d,e</sup> (g/hp-hr)			Potential Emissions f (tons)			
Equipment	Quantity <sup>a</sup>	Day	Week	Weeks	Used <sup>b</sup>	(HP)	Factor <sup>c</sup>	Power (HP)	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	CO₂e
Air Compressor	1	10	5	16	0	80	1	80	188.262	0.008	0.002	0.00	0.00	0.00	0.00
ATV	1	10	5	16	2,600	20	0.5	10	188.262	0.008	0.002	5.40	0.00	0.00	5.41
Backhoe	1	50	5	16	1,300	75	8.0	60	188.262	0.008	0.002	16.19	0.00	0.00	16.24
Fork Lift	1	5	5	16	0	120	1	120	188.262	0.008	0.002	0.00	0.00	0.00	0.00
Dump Truck	1	5	5	16	0	325	0.8	260	188.262	0.008	0.002	0.00	0.00	0.00	0.00
Generator	1	5	5	16	0	250	0.5	125	188.262	0.008	0.002	0.00	0.00	0.00	0.00
Boom truck	2	10	5	16	1,300	50	1	50	188.262	0.008	0.002	13.49	0.00	0.00	13.54
Pickup Truck	5	10	5	16	6,500	150	0.25	38	188.262	0.008	0.002	50.58	0.00	0.00	50.76
Skid steer loader	2	10	5	16	0	50	1	50	188.262	0.008	0.002	0.00	0.00	0.00	0.00
Large Crane	1	10	5	16	1,300	15	0.21	3	188.262	0.008	0.002	0.85	0.00	0.00	0.85
Medium Crane	1	10	5	16	1,300	450	0.7	315	188.262	0.008	0.002	84.98	0.00	0.00	85.27
2-inch Water Pump	1	5	5	16	0	500	0.59	500	188.262	0.008	0.002	0.00	0.00	0.00	0.00
Semitruck/Trailer	1	5	5	16	0	50	1	50	188.262	0.008	0.002	0.00	0.00	0.00	0.00
TOTAL		-	-	-		-						171.49	0.01	0.001	172.07

<sup>&</sup>lt;sup>a</sup> Equipment counts based on experience with construction of a similar projects.

<sup>&</sup>lt;sup>1</sup> CO₂e is carbon dioxide equivalent and includes global warming potentials from 40 CRF Part 98 Table A-1.

Global Warming Potentials						
CO <sub>2</sub>	CH₄	N <sub>2</sub> O				
1	25	298				

Source: 40 CFR 98 Table A-1: https://www.ecfr.gov/current/title-40/chapter-l/subchapter-C/part-98#Table-A-1-to-Subpart-A-of-Part-98

<sup>&</sup>lt;sup>b</sup> Generally assumes work will occur 7 am - 7 pm, Monday through Saturday.

<sup>&</sup>lt;sup>c</sup> Load Factors from Appendix A of EPA 420\_P-04-005, Median Life, Annual Activity, and Load Factor Values for Nonroad Engine Emissions Modeling, USEPA, April 2004.

d EPA 420-P-04-009, Exhaust and Crankcase Emission Factors for Nonroad Engine Modeling - Compression Ignition, USEPA, April 2004 - Tier 2 Engines.

<sup>&</sup>lt;sup>e</sup> GHG emission factors from Title 40 Subchapter C Part 98 Subpart C Table C-1 and C-2 to Subpart C.

#### Cedar Lake Reroute 2023

#### Greenhouse Gas Emission Calculations

#### Greenhouse Gas Emissions from On Road Construction Traffic

On-Road Vehicles										
	Vehicles per day	Miles per vehicle	Number of Days	Fuel Used (gallons)	CO <sub>2</sub> Emissions <sup>a</sup> (tons)					
Commuter Vehicles - Gasoline b	20	60	180	9,818	96					
Delivery Trucks - Diesel <sup>c</sup>	1	60	180	1,662	19					

<sup>&</sup>lt;sup>a</sup> Assumes 1 gallon of gasoline = 8,887 grams CO<sub>2</sub> and 1 gallon of diesel = 10,180 g CO<sub>2</sub>, per US EPA's "Greenhouse Gas Emissions from a Typical Passenger Vehicle," available online at: https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100U8YT.pdf

<sup>&</sup>lt;sup>b</sup> Assumes commuters travel 30 miles each way (60 miles round trip) per day, with a fuel economy of 24 miles per gallon, per US EPA and US Department of Energy Fuel Economy data for combined city and highway driving in 2023, available online at: https://www.fueleconomy.gov/feg/download.shtml.

<sup>&</sup>lt;sup>c</sup> Assumes delivery trucks travel 30 miles each way (60 miles round trip) per day, with a fuel economy of 6.5 miles per gallon, industry average.

## Appendix H

Vegetation Management Plan [To be filed at a later date]