

APPENDIX B ENGAGEMENT

All aboard for opening day



Gary Mailman (left) and his grandson Declan Mailman, 5, were aboard the Kristen and Kyle at Little Liscomb wharf on the opening day (April 10) of the spring lobster season in that fishing area. Wendy Mailman



Guysborough County Home Support Agency

WE'RE HIRING

Under the direction of the Clinical Supervisor, a **Home Support Worker** is responsible for providing home support services (Personal Care, Meal Preparation, Household Management, Laundry, and Home Support Exercise Program) for Clients according to Provincial Standards.

- Continuing Care Assistant certificate preferred, however, HSWs, PCWs, or equivalent experience may apply
- Current Criminal Records Check, CPR and First Aid, WHMIS, Food Handlers, Alzheimer and Other Related Dementia Care course
- Must have a valid driver's license with access to a reliable vehicle on a daily basis.

The hourly rate for Home Support Worker is between \$21.34 - \$26.29 based on experience and qualifications. To be part of this dynamic team, please apply in writing, including a full resume and supporting documentation to the attention of:

Denise Halloran, Executive Director
Guysborough County Home Support Agency
Mail: PO Box 264, Guysborough NS B0H 1N0
Email: office@gchsa.ca

This job opportunity is a Casual Position with up to full time hours (depending on geographic area), however, it does not meet the criteria for AIP or permanent residency.

Only candidates selected for an interview shall be notified.



Open House Sessions for Wind Farm 3 as Part of the You're Invited! Guysborough Wind Projects

EverWind invites you to join us at one of our upcoming open house information sessions to learn more about Wind Farm 3 as part of the Guysborough Wind Projects. Wind Farm 3 involves up to 107 proposed wind turbines producing up to 856MW of renewable electricity, located in the Municipality of the District of Guysborough and the Municipality of the District of St. Mary's, near the communities of Country Harbour, Stormont, Port Bickerton, Port Hillford, Indian Harbour Lake, and Melrose.

These informal drop-in sessions, featuring poster boards, are an opportunity to meet the team, review early project information, ask questions, and share your feedback in an open and collaborative setting. Community input is an important part of the planning process, and we welcome your participation.

Open House Sessions

Wednesday, May 6, 2026
6:00 - 8:00 p.m.

Sherbrooke Village, Exhibition Centre
42 Main Street, Sherbrooke

Thursday, May 7, 2026
1:00 - 4:00 p.m.

Country Harbour Gun Club
NS-316, Cross Roads Country Harbour

Thursday, May 7, 2026
6:00 - 8:00 p.m.

Sea Shore Volunteer Fire Department
4874 NS-211, Bickerton West

Do You Have Questions?

We'd love to hear from you. Email us at info@guysboroughwind.com or visit guysboroughwind.com for more information.

You can also visit us during our office hours on Tuesdays & Wednesdays from 10 a.m. - 4 p.m. located in the Mall (9996 Highway 16, Guysborough).



Here fishy, fishy...



Evan MacKenzie, 12, spent some of his Earth Day (April 22) casting a line on a wharf at Vincent's Lake on Elgg Mountain behind his grandparents' property in Arisaig. Jim and Shirley MacDonald said their grandson, an avid outdoors person, lives for the beauty the Earth has to offer. Contributed

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SUBSCRIBERS CAN ALSO ACCESS
THE DIGITAL EDITION OF *THE JOURNAL* ONLINE
AT WWW.GUYSBOROUGHJOURNAL.CA

PUT YOUR MONEY WHERE YOUR HOUSE IS

Keep your dollars in Canada to support local businesses and strengthen communities.



YOU'RE INVITED!

Learn about the Eastern Shore's sustainable fuels project

Date: Tuesday, May 12, 2026

Time: 4-6 p.m.

Location: St. Mary's Lion's Club
(8004 Nova Scotia Trunk 7)

Nova Sustainable Fuels is developing a proposed Renewable Energy Park (REP) on Nova Scotia's Eastern Shore - powered by wind and solar - to produce sustainable fuels.

Join us to explore proposed sites for renewable power generation in the District of St. Mary's.

This includes potential wind and solar layouts, as well as routing for the planned ~65 km transmission line connecting the generation site to the REP in Goldboro.

We'll also share updated socio-economic findings, including potential benefits like job creation and government revenue.

Come meet the team, ask questions, and share your feedback—we'd love to hear from you.

Questions? info@novasustainablefuels.com



Welcome Pjila'si



Community Open House 2026

*Visual simulation of the proposed Wind Farm 3 Wind Project as part of the Guysborough Wind Projects

Land Acknowledgement

This project is located in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq people, who have been the caretakers of this land since time immemorial and continue to be today.

The Guysborough Wind Projects are being developed in partnership with Mi'kmaq communities, with a shared commitment to Indigenous leadership, respect for rights and knowledge, and meaningful, long-term collaboration.

We also recognize African Nova Scotians as a distinct people whose histories, cultures, and contributions have shaped Nova Scotia for more than 400 years and continue to enrich communities across the province.

About the Membertou Led Indigenous Consortium



- Membertou Development Corporation is **leading a Mi'kmaq Nations consortium with equity ownership** in both Phase 1 and 2 wind projects.
- The projects follow an **Indigenous equity partner ownership model**, supporting **meaningful shared leadership and decision-making**.
- The partnership enables long-term **participation in both the development, construction and operation** of the projects.
- The consortium structure reflects a commitment to **economic reconciliation, local capacity building, and intergenerational benefits** for participating Mi'kmaq communities.




About EverWind

- EverWind is a **Canadian company** developing industrial energy and infrastructure projects across Atlantic Canada.
- Building on **existing marine and energy infrastructure** to deliver clean fuel solutions.
- Supplying **domestic and international markets** with large-scale, low-carbon energy.
- **Team of 100+ employees**, primarily from local communities, supported by technical partners.
- **Experienced developers, owners, and operators** of complex infrastructure projects across North America.
- Committed to **responsible development** grounded in environmental stewardship, Indigenous partnership, community engagement, and **long-term economic benefit**.



Point Tupper Energy Infrastructure Hub



 EVERWIND



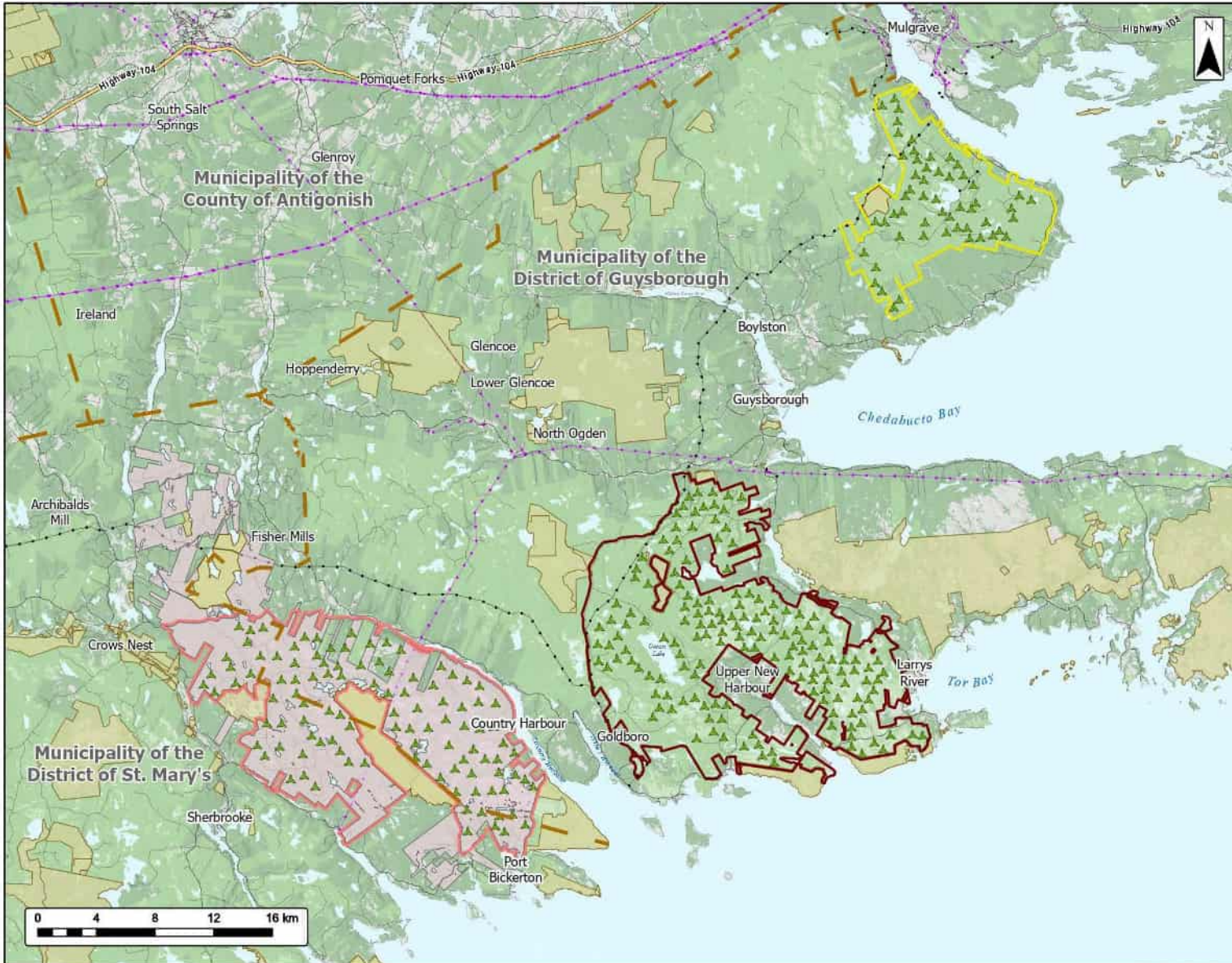
ATLANTIC OCEAN



Phase 1 Wind Projects 

Phase 2 Wind Projects 

Point Tupper 



Phase 2
Overview

EVERWIND

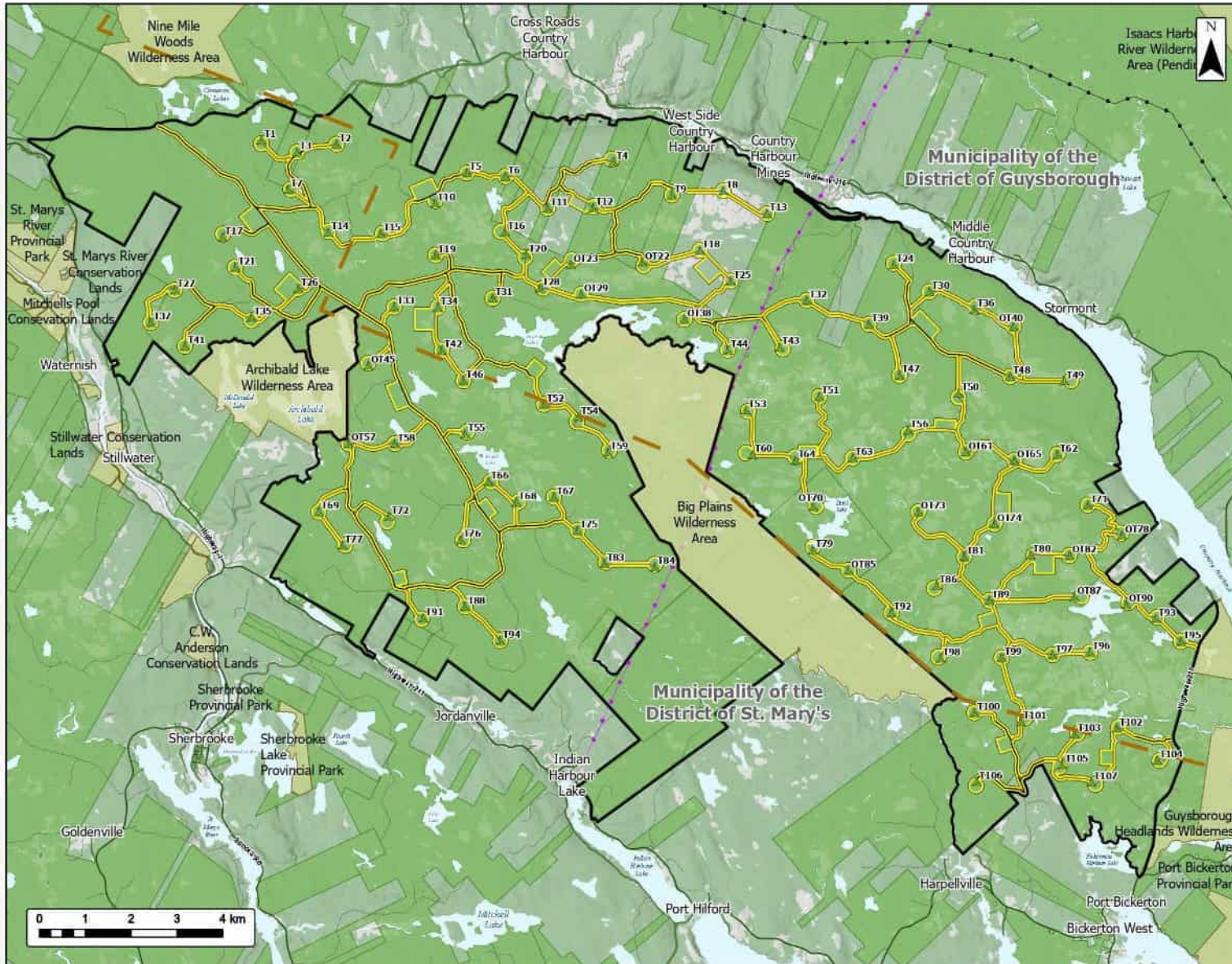
Seboukik Wind Project (Wind Farm 1)	
Owen Lake Wind Project (Wind Farm 2)	
Wind Farm 3	
Proposed Turbine Locations	
Crown Land	
Protected and Limited Use Lands	
Wind Farm 3 MOU Boundary	
Municipality Boundary	
Transportation	
Trans-Canada Highway	
Highway	
Road	
Unpaved Road	
Utilities (Line)	
Existing Pipeline	
Existing Transmission Lines	
Mapped Lakes and Rivers	

0 10 20 km

Geographic Source: NAD 83 UTM 18Q UTM Zone 18Q
Source: SRTM, NADA, RGA, UDS, SRTM, Nova Scotia, SuroGIS, UDS, NSMIR, ACCO, IBA CANADA, CNR, NSR, SuroGIS, UDS

Date: 2026-04-22	Project #: 25-12648
Scale: 1:250,000	Drawing #: 1
Drawn By: K. Wallace	
Checked By: A. Doane	

strum
CONSULTING



Wind Farm 3 Overview

Study Area	
Assessment Area	
Proposed Turbine Locations	
Municipality Boundary	
Existing Road to be Upgraded	
Proposed New Road	
Green Land	
Protected and Limited Use Lands	
Transportation	
Road	
Unpaved Road	
Utilities (Line)	
Existing Pipeline	
Existing Transmission Lines	
Water Features	
Mapped Lakes and Rivers	

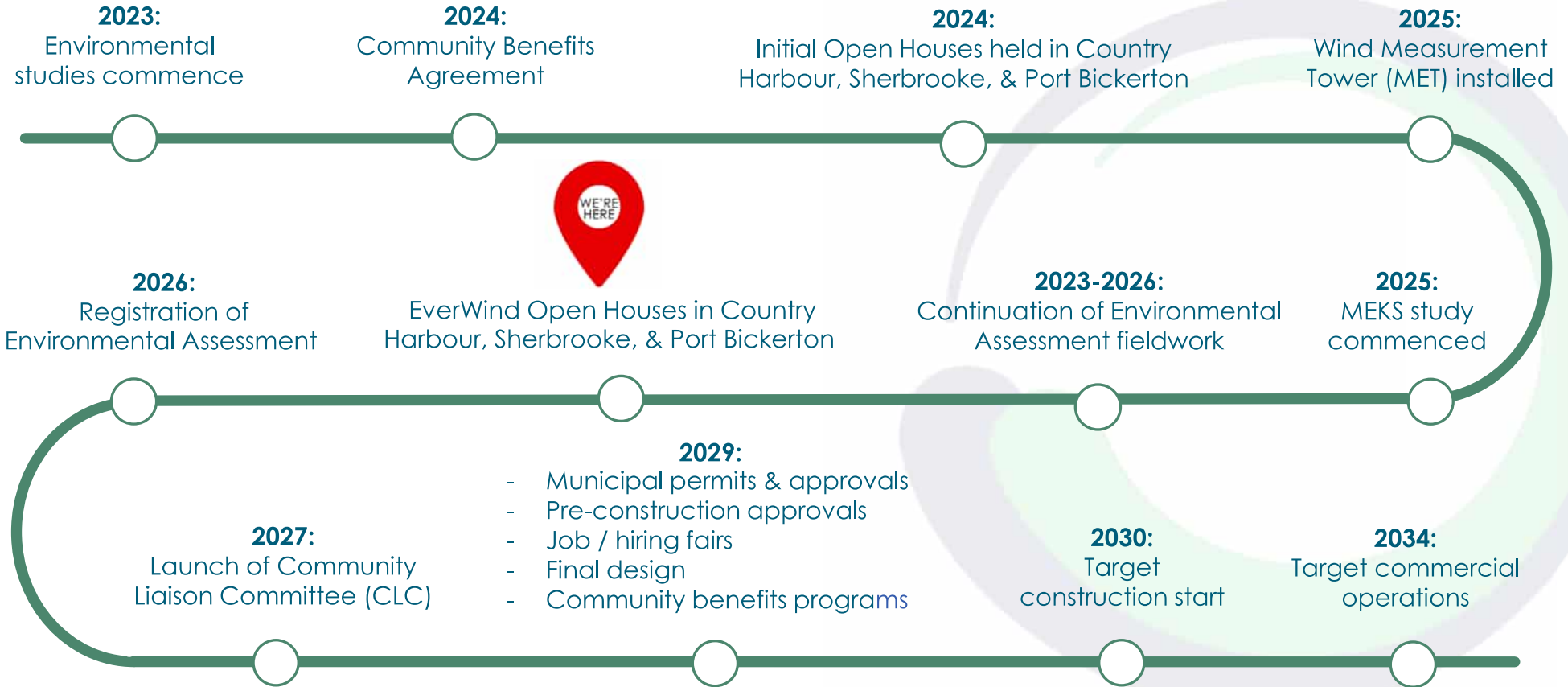
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Date: 2026-04-22	Project #: 25-12648
Scale: 1:80,000	Drawing #:
Drawn By: K. Wallace	1
Checked By: A. Doane	

About the Wind Farm 3 Wind Project

The Wind Farm 3 wind project development was started by EverWind in 2023 as part of its Phase 2 wind portfolio. The proposed project is a result of over two years of community engagement, field studies, wind measurement, and engineering.

Project Capacity	Up to 856 MW
Ownership	Membertou-led Indigenous Consortium & EverWind
# Turbines	Up to 107 turbines
Turbine Model	Goldwind GWH182-8.0
Hub Height	130 m
Total Height	~221 m
Interconnection	Consortium-owned HV transmission line
Project Location	Municipality of the District of Guysborough and Municipality of the District of St. Mary's , near the communities of Country Harbour, Stormont, Port Bickerton, Port Hilford, Indian Harbour Lake, and Melrose.

Where We Are & Where We're Going



How a Wind Project is Sited

Choosing where to place wind turbines is a careful, multi-step process. No single factor decides where turbines go. It's about balancing technical, environmental, and community considerations.

When siting a wind project, the project team looks at:

- **Wind resource:** Areas with strong, consistent wind that can reliably generate electricity.
- **Land and terrain:** Land suitability, slope, soil conditions, and safe access for construction and maintenance.
- **Environmental studies:** Detailed studies to understand potential effects on wildlife, wetlands, watercourses, forests, and habitats, and how impacts can be avoided or reduced.
- **Setbacks and regulations:** Provincial and municipal requirements, including minimum distances from homes, roads, water bodies, and other features.
- **Cultural and archaeological considerations:** Studies and engagement to identify and protect areas of cultural, archaeological, or historical importance.
- **Community input:** Local knowledge, feedback, and concerns shared through open houses, engagement sessions, and future Community Liaison Committee discussions.

Siting decisions are refined over time as studies are completed, and community feedback is considered. The goal is to place turbines in locations that are safe, responsible, and respectful of the environment and nearby communities.

Environmental Assessment

Purpose

- An Environmental Assessment (EA) helps proponents plan projects to minimize environment impacts.

EA Registration Documents Include

- Information on the Project (location, phases of development, construction, schedule etc.).
- Indigenous and public engagement.
- Methods and results of baseline studies (desktop, field, predictive modelling etc.).
- Proposed mitigations.
- Significance of adverse effects on Valued Environmental Components (VECs).

Registration

- Public are notified of registration and have 40 days to submit comments.
- The EA is reviewed by a wide variety of provincial and federal departments.
- Regulators evaluate the design and plan of the Project through the EA process, to ensure environmental impacts are identified and managed before a project is constructed.
- Decision made by the Minister of Nova Scotia Environment and Climate Change.

Environmental Studies

- ✓ **Thousands of hours of studies**, completed by scientists, biologists, engineers and other technical experts.
- ✓ Informed by years of local community, regulatory and Indigenous engagement activities and feedback.
- ✓ Cumulative impacts are being considered.



Birds & Bats

- Breeding and migratory surveys, radar & acoustic monitoring, habitat surveys
- Targeted surveys for nightjars



Aquatic Environment

- Fish & fish habitat
- Wetland delineation and functional assessments



Terrestrial Wildlife

- Year-round surveys for terrestrial wildlife
- Targeted mainland moose and wood turtle surveys



Terrestrial Habitat

- Rare plant surveys
- Lichen surveys
- Old growth forest surveys
- Habitat assessments



Atmospheric Environment

- Greenhouse gas (GHG) assessment
- Noise modelling
- Shadow flicker modelling



Geophysical Environment

- Surficial and bedrock geology
- Groundwater



Heritage & Cultural

- Mi'kmaq Ecological Knowledge Study (MEKS)
- Archaeological Resource Impact Assessment (ARIA)

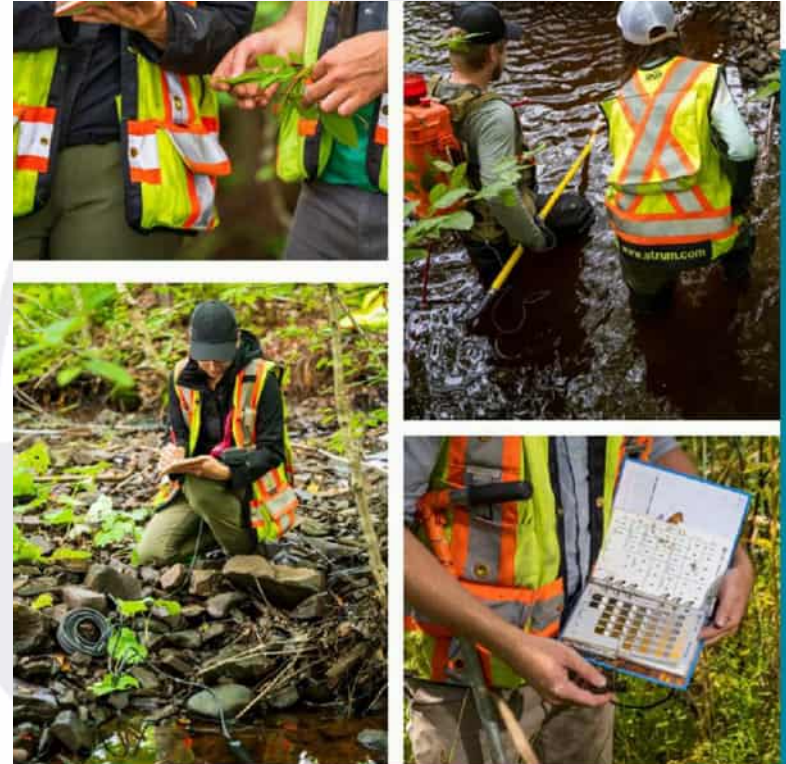


Social & Economic

- Desktop assessments for: local & provincial economy, land use & value, and recreation & tourism

Environmental Monitoring

- Prior to certain project phases, the following plans will be developed, implemented, and submitted to Nova Scotia Environment and Climate Change:
 - Surface Water Management Plan
 - Erosion and Sediment Control Plan
 - Blasting Management Plan (if blasting is required)
 - Terrestrial Habitat and Wildlife Management Plan
 - Avian and Bat Monitoring Plan
 - Adaptive Management Plan
 - Complaints Resolution Plan
 - Mi'kmaq Communication Plan
 - Contingency Plan
- A second year of radar and acoustic monitoring for birds and bats will be completed prior to operations.
- Two years of monitoring for birds and bats will be completed during operations.
- Two years of monitoring for mainland moose is typically required during operations.
- A Traffic Management Plan will be developed.





- LEGEND**
- COMMUNITY
 - POTENTIAL RECEPTOR
 - TURBINE LOCATION
 - HIGHWAY
 - LOCAL ROAD
 - MUNICIPAL BOUNDARY
 - WATERCOURSE
 - WATERBODY
 - PREDICTED CUMULATIVE NOISE LEVEL
 - CUMULATIVE NOISE LEVEL ≥ 40 DBA



REFERENCE(S)
 DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA, ALL RIGHTS RESERVED
 DATUM: NAD83 PROJECTION: UTM ZONE 20

CLIENT
EVERWIND FUELS (EFW)

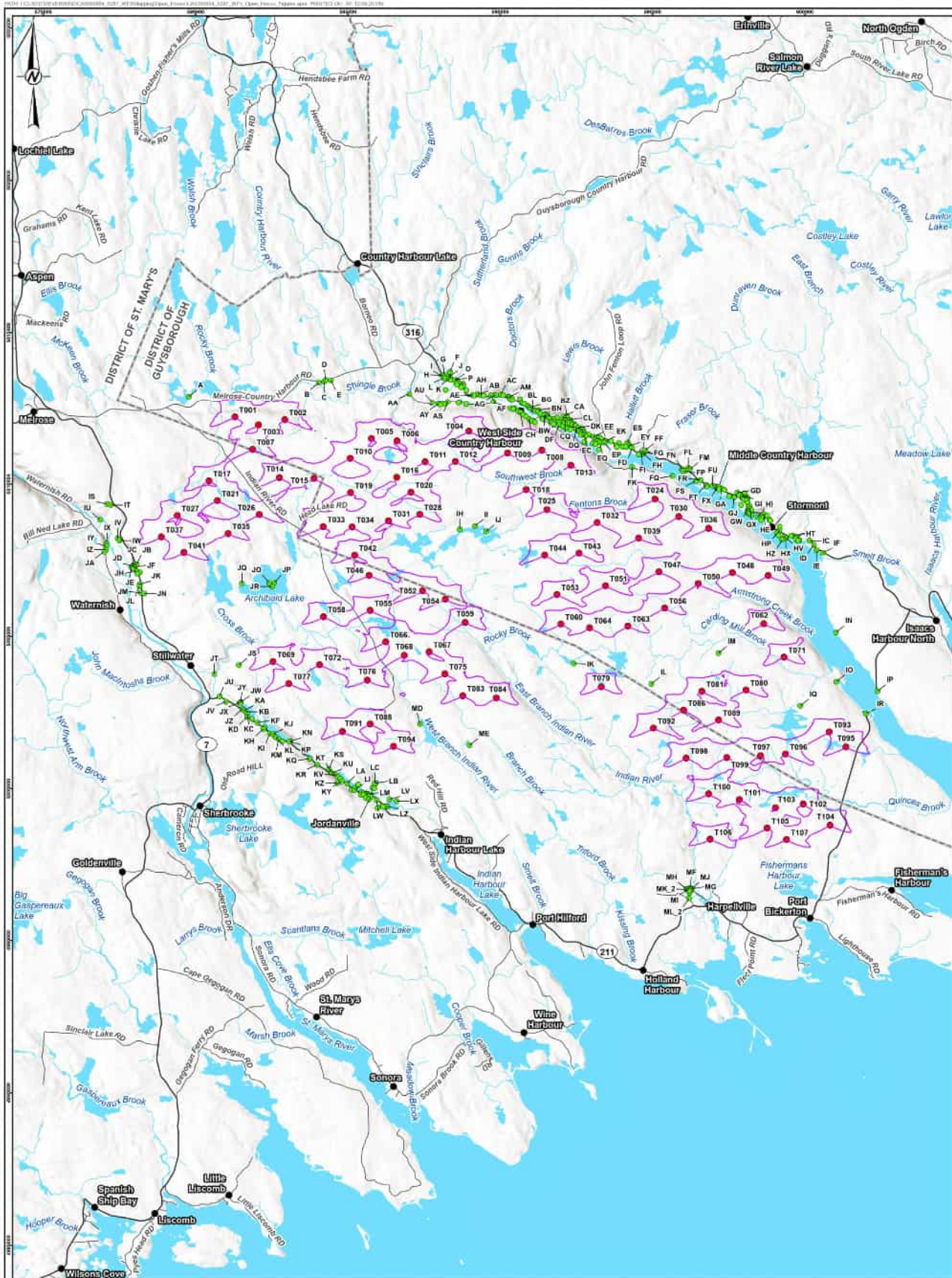
PROJECT
WIND FARM 3



CONSULTANT	YYYY-MM-DD	2025-04-23
DESIGNED	VY	
PREPARED	MV / PT	
REVIEWED	VY	
APPROVED	NLH	

TITLE
CUMULATIVE NOISE LEVELS

PROJECT NO	CONTROL	REV	FIGURE
CA0066864.6287		0	1



- LEGEND**
- COMMUNITY
 - POTENTIAL RECEPTOR
 - TURBINE LOCATION
 - HIGHWAY
 - LOCAL ROAD
 - MUNICIPAL BOUNDARY
 - WATERCOURSE
 - WATERBODY
 - PREDICTED SHADOW FLICKER (ADJUSTED-CASE)
 - 30 HOURS PER YEAR



REFERENCE(S)
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 DATUM: NAD83 PROJECTION: UTM ZONE 20

PROJECT
WIND FARM 3

CLIENT
EVERWIND FUELS (EFW)



DESIGNED	VY	2025-04-23
PREPARED	MV PT	
REVIEWED	VY	
APPROVED	NLH	

TITLE
SHADOW FLICKER LEVELS

PROJECT NO.	CONTROL	REV.	FIGURE
CA0066864.6287		0	2

Local Benefits: Direct, Indirect & Induced

- We believe our projects are net positives for the local communities in which we work.
- Benefits include:
 - **Billion-dollar Investment** in the Municipality of the District of Guysborough and Municipality of the District of St. Mary's.
 - Contracting opportunities for **Indigenous & local businesses**.
 - **Community Benefits Funds** paid out annually directly to the community through a combination of Proximity Payments, Vibrancy Fund and Bursaries.
 - Increased **local spending** on goods and services during the project's development, construction and operational phases.
 - Millions in project lifetime paid to the municipality.

Annual Municipal Tax

~\$7.4 million per year*

Project Life Municipal Tax

~\$308 million*

Wind development creates lasting economic spin-offs, supports local services, and delivers **stable, long-term revenue** to local municipalities.

Significant Job Creation



350-450 of Direct Jobs During Construction:

- ✓ **Civil installation:** land clearing, road construction, forming, concrete supply, grouting
- ✓ **Electrical installation:** overground installation, electrical testing, instrument installation
- ✓ **Turbine installation:** crane supply, turbine offload, mechanical and electrical work
- ✓ **Local businesses:** benefits from increased local spending with larger local workforce

~30-40 Part-Time and Full-Time Jobs during Operations and Maintenance:

- ✓ HV Technicians / Electricians
- ✓ Wind Technicians
- ✓ Road Maintenance Workers
- ✓ Vegetation Management Service Providers
- ✓ Snow & Surface Removal
- ✓ Administrative Support
- ✓ Inventory / Materials Management

Pre-construction activities to start in 2029/2030. A job fair will be held prior to start of construction. On-the-job training will be available.

Community Liaison Committee (CLC)

EverWind is committed to open communication and long-term collaboration with the communities where the project is being developed. As part of that commitment, a Community Liaison Committee (CLC) will be established for the project.

The CLC is a volunteer group made up of people from across the region, including local residents, landowners, municipal representatives, and members of community organizations. Members are selected through a public call for interest.

The CLC provides a way for community members and the project team to connect regularly and share information. Its role includes:

- Supporting ongoing communication throughout project development, construction, and operations.
- Providing a space to share local questions, concerns, and ideas.
- Offering input on potential project impacts and how they can be managed.
- Helping inform community benefit programs and local priorities.

If you are interested in learning more or getting involved in the CLC, please email info@guysboroughwind.com

Community Benefits Agreement

The Community Benefits Agreement includes a range of initiatives designed to deliver direct, long-term value to local communities, including the following:

Community Vibrancy Fund



Annual community benefits fund earmarked for community organisations

Proximity Payment



Direct payments to homeowners within a specified distance

Bursary Fund



Funds for education and training in the renewables industry, including supporting placements in the Wind Turbine Tech Program at NSCC

Other Benefits

- ✓ Local job fairs
- ✓ Contracting for Indigenous and local businesses
- ✓ Increased local spending

EverWind commits to \$1,000 per MW to Community Benefit Funds: >\$800 thousand annually*


Decommissioning

Repowering:

- Global trends favour **repowering** due to renewable wind resources
- Technological advances enable **efficient turbine replacements**

Decommissioning

- **All steel** is recyclable
- **>90%** of wind turbine is recyclable today!
- **Emerging technology** for turbine blade recycling
- **Dismantling** and **removal** of the turbines and all other equipment
- Removal of the turbine **foundations** down to 1m below grade
- **Reclamation** of the land



EverWind will provide a decommissioning plan to ensure funds are available to remove project facilities at end of project life

Help Us Choose a New Name for Wind Farm 3!

We're looking for a name that reflects the place, the people, and what matters most to the community. This project will grow alongside the community and bring renewable energy, local jobs, and long-term benefits. Below are a few name ideas shared by local students and community members. **Please place a sticker on or near the name you like best.**

Fishers Wind Project

Named to reflect the area's strong heritage and long connection to fishing in the ocean, lakes & rivers

Harbour Hills Wind Project

Inspired by the region's rolling hills and nearby coastal harbours that shape the local landscape

Big Plains Wind Project

Reflects the broad open landscapes and expansive upland terrain that define the character of the area

Napu'saqnuq Wind Project

The Mi'kmaq name for St. Mary's River. It was an essential waterway for the Mi'kmaq to travel, fish, hunt & live.

Thank you all / Wela'lioq

We appreciate you taking the time to join us!

Please fill out a feedback form

Visit our website to stay up-to-date on the project
guysboroughwind.com

Have a follow up question? Email us at info@guysboroughwind.com

You can also visit us during our office hours on Tuesdays & Wednesdays from 10 a.m. - 4 p.m. located in the Mall (9996 Highway 16, Guysborough)



EVERWIND

Open House Exit Survey

1) How did you hear about this event? (i.e. got an email about this, heard from neighbour, municipal or county councillor, advertisement, website, social media, traditional media in paper or on radio):

2) How helpful was the information you received? Please indicate by circling a number below:

(Not at all helpful) 1 2 3 4 5 (Very helpful)

3) Please provide your comments or feedback on the Project:

Loved the visuals at the back



EVERWIND

Open House Exit Survey

1) How did you hear about this event? (i.e. got an email about this, heard from neighbour, municipal or county councillor, advertisement, website, social media, traditional media in paper or on radio):

Voiced from friends

2) How helpful was the information you received? Please indicate by circling a number below:

(Not at all helpful)

1

2

3

4

5

(Very helpful)

3) Please provide your comments or feedback on the Project:

informative

New Name "Smoky Hollow Hills"



EVERWIND

Open House Exit Survey

1) How did you hear about this event? (i.e. got an email about this, heard from neighbour, municipal or county councillor, advertisement, website, social media, traditional media in paper or on radio):

Radio

2) How helpful was the information you received? Please indicate by circling a number below:

(Not at all helpful)

1

2

3

4

5

(Very helpful)

3) Please provide your comments or feedback on the Project:

This is too close to my home + my neighbors. There are way too many Turbines. How would you like to live with this many turbines in your back yard? Answer honestly, and you would feel what I feel. I live here for the quiet, peaceful area it has always been + you are doing this to provide humans with electricity. Our Veterans would be so proud. Not! Stop this madness now!

APPENDIX C
WSP EMI STUDY



EverWind Ltd.
Harbour Hills Wind Project

Electromagnetic Interference

2026-05-25

CA0066864.6287





Document distribution

EverWind Ltd.

Harbour Hills Wind Project

Electromagnetic Interference

2026-05-25

CA0066864.6287

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Appendix A – Main Correspondence

1. Electromagnetic Interference - EMI

EverWind NS Holdings Ltd. (EverWind) and Membertou Development Corporation are proposing development of the Harbour Hills Wind Project (the Project) in the Municipality of the District of Guysborough and the Municipality of the District of St. Mary's, Nova Scotia. EverWind retained WSP Canada Inc. (WSP) to prepare an assessment of potential electromagnetic interference from the Project on existing radiocommunication and radar systems.

Under certain conditions, wind turbines can adversely affect radio communication and radar systems. Engaging key stakeholders early in the planning process is strongly advised to confirm that a proposed installation will not result in unacceptable interference, thereby avoiding costly design modifications or project delays during later stages of development (RABC & CanWEA, 2025).

The degree and nature of interference depend on the physical and operational properties of the turbine. Key influencing factors include rotor blade dimensions and aerodynamic design, hub and tower height, tower diameter, and the material composition of both blades and tower structures.

Electromagnetic interference (EMI) generated by a wind turbine is generally categorized into obstruction and reflection. Obstruction occurs when a turbine is positioned along the line-of-sight between a transmitter and a receiver, leading to signal attenuation or complete signal blockage. Reflection arises when the original signal is distorted by reflected energy from turbine surfaces. A subset of reflection interference, known as scatter, is specifically associated with the movement of the rotor blades, which creates rapidly varying reflections (RABC & CanWEA, 2025).

1.1 Assessment Methodology

Early engagement with relevant stakeholders is advised to confirm that a proposed installation will not result in unacceptable interference.

The EMI assessment was conducted following the guidance in *Technical Information and Coordination Process Between Wind Turbines and Radiocommunication and Radar Systems* (RABC & CanWEA, 2025).

Using the Innovation, Science and Economic Development Canada (ISED) online tool, the publicly accessible database of radio installations was consulted to identify locations of existing radiocommunication and radar systems within consultation zones, as shown in Table 1.1.

Some system and licensing information is not made available to the public. In these situations, ISED performs a search of the licensing data to identify users in the area who may also require consultation, and if potential interference is identified, ISED helps to establish a connection between the Project proponent and the license holder.



Table 1.1 Consultation zones, according to RABC & CanWEA guidelines (2025)

Systems	Consultation Zone
Point-to-Point Systems above 890 megahertz (MHz)	1 km
Broadcast Transmitters (AM, FM, and TV stations)	AM Station: omnidirectional (single tower) antenna system: 5 km directional (multiple towers) antenna system: 15 km FM station: 2 km TV station: 2 km
Over-the-Air Reception (TV off-air pickup, consumer TV receivers)	Analog TV Station (NTSC): 15 km Digital TV (DTV) station (ATSC): 10 km
Cellular Type Networks, Land Mobile Radio Networks, and Point-to-Point Systems below 890 MHz	1 km
Satellite Systems (Direct to Home, Satellite Ground Stations)	500 m
Air Defence Radars, Vessel Traffic Radars, Air Traffic Control Radars, and Weather Radars	Department of National Defence (DND) Air Defence Radar: 100 km DND or NAV Canada Air Traffic Control Primary Surveillance Radar: 80 km DND or NAV Can Air Traffic Control Secondary Surveillance Radar: 10 km DND Precision Approach Radar: 40 km Canadian Coast Guard Vessel Traffic Radar System: 60 km Military or Civilian airfield: 10 km Environment Canada Weather Radar: 60 km
Very High Frequency OmniRange	15 km



Consultation letters were sent to all mandatory contacts listed in the RABC & CanWEA guidance and to the licence holders identified through the ISED open database search, presenting the Harbour Hills Wind Project (then called Wind Farm 3 Wind Project), including a reference map and a KMZ file, that can be used in GIS environment. The proposed turbine specifications presented were:

- Number of turbines: 107
- Turbine model: Goldwind 182-8.0 MW
 - Tip height: 221.7 m
 - Hub height: 130 m
 - Rotor configuration: 3 blades
 - Rotor/Blade sweep diameter: 183.4 m (blade length: 91.7 m)

1.2 Engagement Summary

Table 1.2 presents the summary of the engagement done. As of May 25, 2026, most responses received indicated no potential interference with radio communication and radar systems.

ISED search on non-public database indicated potential interference with existing and planned infrastructure from the Public Safety Field Communications of Nova Scotia. Contact was established with the service manager, and both parties are working together to discuss concerns and potential mitigation measures.

Bell Canada has also indicated the need for closer engagement with the proponent, to assess and discuss potential interferences with their infrastructure, and is currently in contact with EverWind.

It is important to note that response time can vary significantly between stakeholders and that changes to some project features (e.g. layout, turbine dimensions) could require a new assessment by the licence holders. For these reasons, EverWind remains committed to maintaining ongoing communication with stakeholders and to actively addressing concerns raised by them and by the public throughout the life of the Project.



Table 1.2 Summary of EMI engagement

Government Departments, Agencies & Regulators	Main communications and dates	Conclusion
Innovation, Science and Economic Development Canada (ISED)	2026-03-17: Notification letter 2026-03-17: Acknowledgement of receipt 2026-03-19: Search results identified a non-disclosed system that will require additional consultation	Requirement of further communication with the Nova Scotia Public Safety Field Communications, Department of Emergency Management
Department of National Defence (DND)	2026-03-17: Notification letter 2026-03-17: Acknowledgement of receipt. Requested up to 8 weeks for final assessment	No final response to date. Late responses will be forwarded to EverWind
Royal Canadian Mounted Police	2026-03-17: Notification letter 2026-03-17: Final response	No interference issue anticipated. Requirement to validate with Bell
Canadian Coast Guard	2026-03-17: Notification letter 2026-03-17: Final response	No interference issue anticipated
Environment Canada	2026-03-17: Notification letter 2026-03-17: Acknowledgement of receipt 2026-03-24: Final response	No interference issue anticipated. If additional turbines are proposed in the vicinity, new assessments may be needed
NAV CANADA	2026-03-18: Online submission 2026-03-18: Acknowledgement of receipt, indicating 8 to 12 weeks for response.	No final response to date. Late responses will be forwarded to EverWind



Government Departments, Agencies & Regulators	Main communications and dates	Conclusion
Nova Scotia Public Safety Field Communications, Department of Emergency Management	2026-03-18: Notification letter 2026-03-25: Analysis result indicating potential interference with existing and proposed infrastructure.	Meeting between EverWind and Public Safety Field Communications scheduled to address concerns.
Fire Service Association of Guysborough	2026-04-02: Notification letter	No final response to date. Late responses will be forwarded to EverWind
Bell Canada	2026-03-17: Notification letter 2026-03-27: Follow-up communication, requesting acknowledgement 2026-03-30: Potential interferences need to be further detailed and discussed	In contact with EverWind to address potential issues raised
Rogers	2026-04-02: Notification letter	No final response to date. Late responses will be forwarded to EverWind
Eastlink	2026-04-02: Notification letter 2026-04-06: Response indicating engineering team will reach out if concerns arise.	No final response to date. Late responses will be forwarded to EverWind
Seaside Communications	2026-04-02: Notification letter 2026-04-07: Follow-up message to the Network Operations Centre 2026-04-07: Response indicating engineering team will reach out if concerns arise.	No final response to date. Late responses will be forwarded to EverWind

Bibliography

Journal articles

RABC & CanWEA. (2025). Technical Information and Coordination Process Between Wind Turbines and Radiocommunication and Radar Systems: RABC–CanWEA Guidelines (Updated 2025). RABC-CANWEA-Guidelines-_Updated-2025.



Appendix A – Main Correspondence

This appendix presents the notification letter sent to the stakeholders and relevant communication, including final responses received, as of May 25, 2026.



2026-03-17
Reference: CA0066864.6287

Innovation, Science and Economic Development Canada
(ISED)
Email: ic.spectrumnsd-spectredne.ic@canada.ca;
sarah.ivany@ised-isde.gc.ca

Wind Farm 3 Wind Project

Subject: Wind Farm 3 Wind Project – Guysborough County, Nova Scotia

Dear ISED Representative,

WSP Canada has been engaged by EverWind to support the proposed **Wind Farm 3** Wind Project (the “Project”) in Guysborough County, Nova Scotia.

On behalf of our client, WSP is conducting an electromagnetic interference (EMI) assessment related to the placement of 107 wind turbines. As part of this process, we are seeking feedback, operational details, and technical specifications from stakeholders to determine whether the proposed turbine installations could potentially interfere with your existing operations.

The proposed turbine specifications are as follows:

- Number of turbines: 107
- Turbine model: Goldwind 182-8.0 MW
 - Tip height: 221.7 m
 - Hub height: 130 m
 - Rotor configuration: 3 blades
 - Rotor/Blade sweep diameter: 183.4 m (blade length: 91.7 m)

For your reference, a map showing the proposed turbine locations is attached (**Figure 1**). Additionally, a summary of the turbines’ details, including coordinates and elevations, is provided in Table 1, presented below.



Table 1. Proposed Turbine Locations & Specifications

Turbine ID	Latitude	Longitude	Base Elevation (m)	Turbine Hub Height (m)	Tip Height (m)	Total Elevation (m)
T1	45° 15' 31.11" N	061° 57' 50.1" W	113	130	221.7	465
T10	45° 14' 45.43" N	061° 54' 57.35" W	146	130	221.7	497
T100	45° 08' 43.07" N	061° 46' 5.46" W	59	130	221.7	410
T101	45° 08' 36.44" N	061° 45' 19.36" W	64	130	221.7	415
T102	45° 08' 30.68" N	061° 43' 43.6" W	60	130	221.7	412
T103	45° 08' 27.08" N	061° 44' 25.47" W	52	130	221.7	404
T104	45° 08' 7.64" N	061° 43' 3.9" W	57	130	221.7	408
T105	45° 08' 5.72" N	061° 44' 38.41" W	62	130	221.7	414
T106	45° 07' 54.84" N	061° 46' 4.33" W	48	130	221.7	399
T107	45° 07' 53.14" N	061° 44' 9.58" W	34	130	221.7	385
T11	45° 14' 40.82" N	061° 53' 4.57" W	157	130	221.7	509
T12	45° 14' 40.7" N	061° 52' 19.07" W	145	130	221.7	497
T13	45° 14' 34.84" N	061° 49' 25.28" W	152	130	221.7	504
T14	45° 14' 25.92" N	061° 56' 44.36" W	139	130	221.7	491
T15	45° 14' 24.67" N	061° 55' 52.09" W	132	130	221.7	483
T16	45° 14' 24.64" N	061° 53' 47.76" W	147	130	221.7	499
T17	45° 14' 23.48" N	061° 58' 30.32" W	117	130	221.7	469
T18	45° 14' 9.67" N	061° 50' 33.07" W	167	130	221.7	519
T19	45° 14' 9.04" N	061° 54' 57.41" W	153	130	221.7	505
T2	45° 15' 27.63" N	061° 56' 35.1" W	123	130	221.7	475
T20	45° 14' 8.55" N	061° 53' 26.65" W	161	130	221.7	513
T21	45° 14' 2.35" N	061° 58' 18.02" W	127	130	221.7	479
T22	45° 14' 2.17" N	061° 51' 30.81" W	172	130	221.7	524
T23	45° 14' 0.88" N	061° 52' 42.28" W	182	130	221.7	533
T24	45° 13' 57.54" N	061° 47' 19.43" W	117	130	221.7	469
T25	45° 13' 48.0" N	061° 50' 2.4" W	177	130	221.7	529
T26	45° 13' 46.97" N	061° 57' 15.24" W	144	130	221.7	496
T27	45° 13' 46.94" N	061° 59' 18.7" W	142	130	221.7	493
T28	45° 13' 44.84" N	061° 53' 13.65" W	173	130	221.7	524
T29	45° 13' 40.24" N	061° 52' 32.29" W	176	130	221.7	527
T3	45° 15' 22.41" N	061° 57' 14.74" W	133	130	221.7	485
T30	45° 13' 38.47" N	061° 46' 44.1" W	103	130	221.7	454
T31	45° 13' 38.39" N	061° 54' 0.94" W	151	130	221.7	503
T32	45° 13' 33.52" N	061° 48' 46.96" W	132	130	221.7	483
T33	45° 13' 33.1" N	061° 55' 39.44" W	169	130	221.7	520
T34	45° 13' 32.43" N	061° 54' 55.89" W	186	130	221.7	537
T35	45° 13' 27.12" N	061° 58' 2.58" W	139	130	221.7	491
T36	45° 13' 25.56" N	061° 45' 59.4" W	101	130	221.7	453



Turbine ID	Latitude	Longitude	Base Elevation (m)	Turbine Hub Height (m)	Tip Height (m)	Total Elevation (m)
T37	45° 13' 24.46" N	061° 59' 43.18" W	142	130	221.7	494
T38	45° 13' 21.55" N	061° 50' 49.6" W	140	130	221.7	492
T39	45° 13' 16.28" N	061° 47' 45.04" W	144	130	221.7	496
T4	45° 15' 12.68" N	061° 51' 58.09" W	152	130	221.7	504
T40	45° 13' 13.01" N	061° 45' 20.35" W	102	130	221.7	453
T41	45° 13' 7.55" N	061° 59' 9.39" W	131	130	221.7	483
T42	45° 13' 2.39" N	061° 54' 52.52" W	171	130	221.7	523
T43	45° 13' 1.21" N	061° 49' 14.95" W	153	130	221.7	504
T44	45° 12' 59.69" N	061° 50' 6.59" W	152	130	221.7	504
T45	45° 12' 52.37" N	061° 56' 6.22" W	125	130	221.7	477
T46	45° 12' 40.71" N	061° 54' 31.29" W	152	130	221.7	504
T47	45° 12' 40.2" N	061° 47' 15.2" W	110	130	221.7	462
T48	45° 12' 38.12" N	061° 45' 24.57" W	106	130	221.7	457
T49	45° 12' 34.39" N	061° 44' 30.8" W	101	130	221.7	452
T5	45° 15' 6.31" N	061° 54' 24.94" W	138	130	221.7	490
T50	45° 12' 26.99" N	061° 46' 16.31" W	81	130	221.7	433
T51	45° 12' 26.13" N	061° 48' 35.77" W	136	130	221.7	487
T52	45° 12' 23.48" N	061° 53' 11.1" W	139	130	221.7	491
T53	45° 12' 17.49" N	061° 49' 48.99" W	136	130	221.7	488
T54	45° 12' 14.34" N	061° 52' 37.01" W	128	130	221.7	480
T55	45° 12' 3.44" N	061° 54' 30.48" W	121	130	221.7	472
T56	45° 12' 1.48" N	061° 47' 7.36" W	101	130	221.7	453
T57	45° 11' 57.83" N	061° 56' 26.98" W	109	130	221.7	461
T58	45° 11' 57.35" N	061° 55' 40.6" W	110	130	221.7	462
T59	45° 11' 49.24" N	061° 52' 7.8" W	96	130	221.7	448
T6	45° 15' 3.48" N	061° 53' 46.47" W	151	130	221.7	503
T60	45° 11' 46.02" N	061° 49' 43.68" W	107	130	221.7	459
T61	45° 11' 45.85" N	061° 46' 10.03" W	96	130	221.7	447
T62	45° 11' 43.04" N	061° 44' 38.67" W	87	130	221.7	438
T63	45° 11' 42.82" N	061° 48' 3.07" W	105	130	221.7	457
T64	45° 11' 41.67" N	061° 49' 0.63" W	115	130	221.7	466
T65	45° 11' 39.38" N	061° 45' 21.66" W	87	130	221.7	439
T66	45° 11' 29.75" N	061° 54' 7.67" W	125	130	221.7	476
T67	45° 11' 18.43" N	061° 53' 2.55" W	150	130	221.7	502
T68	45° 11' 15.1" N	061° 53' 39.98" W	123	130	221.7	474
T69	45° 11' 10.29" N	061° 56' 57.54" W	119	130	221.7	471
T7	45° 14' 56.39" N	061° 57' 24.23" W	158	130	221.7	509
T70	45° 11' 9.15" N	061° 48' 43.23" W	99	130	221.7	451
T71	45° 11' 7.25" N	061° 44' 8.95" W	75	130	221.7	427



Turbine ID	Latitude	Longitude	Base Elevation (m)	Turbine Hub Height (m)	Tip Height (m)	Total Elevation (m)
T72	45° 11' 6.4" N	061° 55' 47.7" W	129	130	221.7	481
T73	45° 11' 4.31" N	061° 46' 58.54" W	97	130	221.7	449
T74	45° 10' 55.07" N	061° 45' 42.47" W	94	130	221.7	445
T75	45° 10' 54.83" N	061° 52' 39.27" W	126	130	221.7	478
T76	45° 10' 49.28" N	061° 54' 36.26" W	128	130	221.7	479
T77	45° 10' 46.63" N	061° 56' 34.38" W	132	130	221.7	483
T78	45° 10' 45.72" N	061° 43' 35.14" W	51	130	221.7	402
T79	45° 10' 38.66" N	061° 48' 44.52" W	102	130	221.7	454
T8	45° 14' 51.36" N	061° 50' 8.74" W	162	130	221.7	513
T80	45° 10' 32.94" N	061° 45' 6.87" W	86	130	221.7	438
T81	45° 10' 32.35" N	061° 46' 13.35" W	105	130	221.7	456
T82	45° 10' 32.18" N	061° 44' 28.04" W	78	130	221.7	429
T83	45° 10' 31.25" N	061° 52' 12.86" W	120	130	221.7	472
T84	45° 10' 28.43" N	061° 51' 22.51" W	128	130	221.7	480
T85	45° 10' 24.19" N	061° 48' 8.95" W	96	130	221.7	448
T86	45° 10' 12.53" N	061° 46' 41.09" W	91	130	221.7	443
T87	45° 10' 3.18" N	061° 44' 24.05" W	73	130	221.7	425
T88	45° 10' 2.5" N	061° 54' 32.75" W	136	130	221.7	488
T89	45° 10' 1.5" N	061° 45' 48.78" W	88	130	221.7	440
T9	45° 14' 48.82" N	061° 51' 0.26" W	155	130	221.7	507
T90	45° 09' 57.13" N	061° 43' 32.39" W	67	130	221.7	419
T91	45° 09' 55.03" N	061° 55' 14.58" W	96	130	221.7	447
T92	45° 09' 53.97" N	061° 47' 26.97" W	99	130	221.7	450
T93	45° 09' 46.92" N	061° 43' 2.84" W	58	130	221.7	410
T94	45° 09' 38.41" N	061° 53' 58.05" W	102	130	221.7	453
T95	45° 09' 30.68" N	061° 42' 38.07" W	49	130	221.7	401
T96	45° 09' 24.2" N	061° 44' 9.0" W	53	130	221.7	405
T97	45° 09' 22.76" N	061° 44' 46.49" W	61	130	221.7	413
T98	45° 09' 21.56" N	061° 46' 38.52" W	70	130	221.7	422
T99	45° 09' 21.35" N	061° 45' 37.47" W	67	130	221.7	419



We appreciate your time and input on this matter. Please let us know if you require any additional information or have concerns regarding potential interference.

Sincerely,

A handwritten signature in blue ink that reads "Norberto".

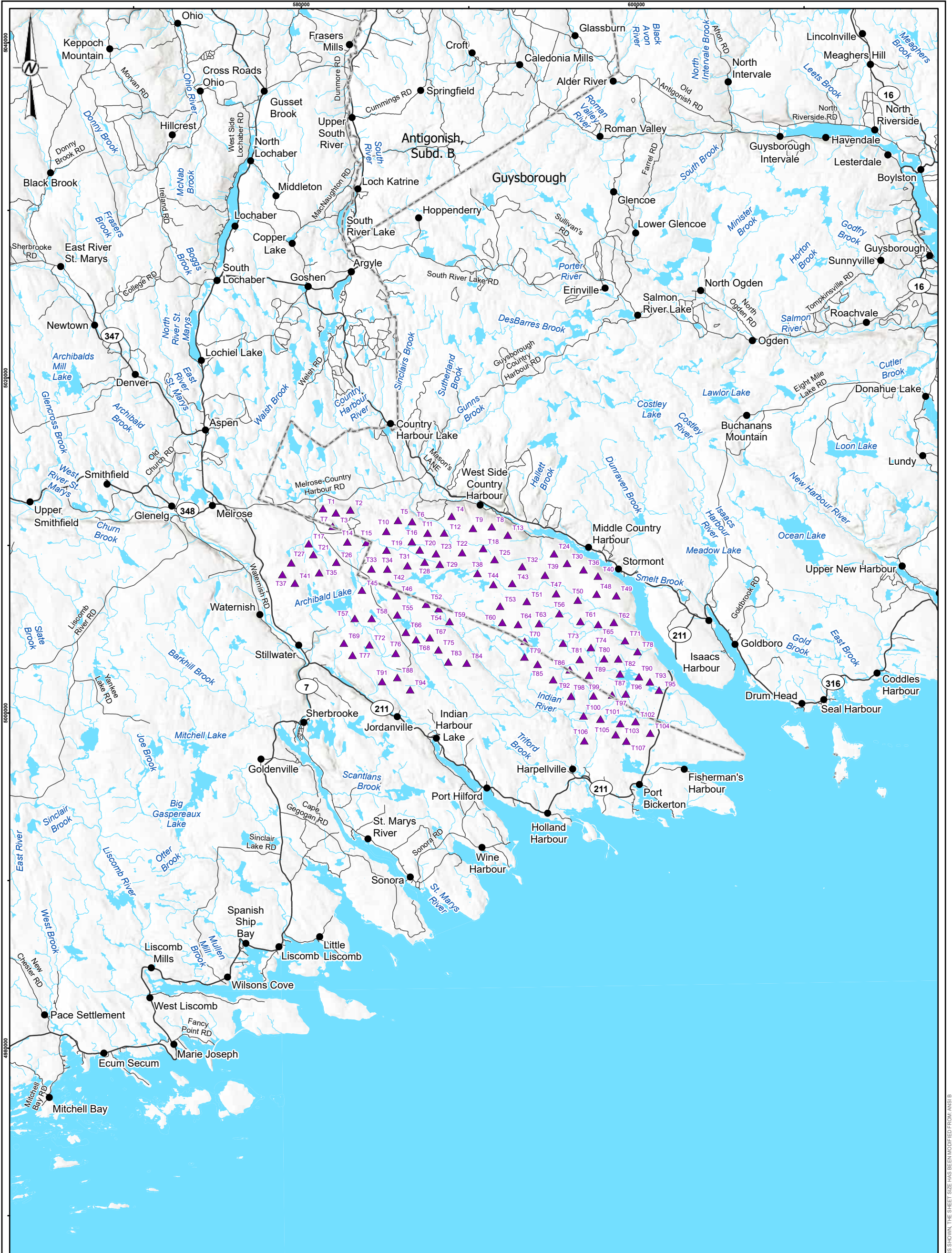
Norberto Lopes Hulle, MSc

He/him

EA Practitioner

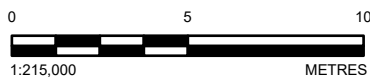
WSP Canada

Attachments: Figure 1. Project Location and Turbine Layout



- LEGEND**
- HIGHWAY
 - LOCAL ROAD
 - WATERCOURSE
 - WATERBODY
 - MUNICIPAL BOUNDARY

DRAFT



NOTE(S)

REFERENCE(S)

DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 DATUM: NAD83 PROJECTION: UTM ZONE 20

PROJECT

WIND FARM 3

TITLE

TURBINE LAYOUT

CLIENT
EVERWIND FUELS (EFW)

CONSULTANT



YYYY-MM-DD	2026-03-11
DESIGNED	PT
PREPARED	PT
REVIEWED	
APPROVED	

PROJECT NO.
CA0066766.3659

CONTROL

REV.
A

FIGURE
1

RE: Wind Farm 2 Wind Project - Electromagnetic Interference

From Popescu, Virgil <virgil.popescu@bell.ca>

Date Mon 3/30/2026 1:55 PM

To Saini, Sunny <sunny.saini@bell.ca>; Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>; Butler, Joel <Joel.Butler@bellaliant.ca>; Donkor, Enyonam <enyonam.donkor@bell.ca>; Gibicar, Robert A <rob.gibicar@bell.ca>

Hello Norberto.

Proposed wind farm developments Upper Afton and Wind Farm 2 Guysborough County in Nova Scotia are unlikely to affect the operations of any existing Bell terrestrial microwave link.

I forwarded your notification/request to my colleagues in Bell for assessment of risk to any of the existing infrastructure providing cellular service.

There's some concern related to the turbines planned for the Wind Farm 3 project. Details will be provided in a separate message.

Best regards,



Virgil Popescu | Senior Advisor

Wireless Network Connectivity Engineering

1 Carrefour A-G Bell B3, Verdun, QC H3E 3B3

virgil.popescu@bell.ca // 1-514-796-3949

From: Saini, Sunny <sunny.saini@bell.ca>

Sent: March-30-26 11:10 AM

To: Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>; Popescu, Virgil <virgil.popescu@bell.ca>; Butler, Joel <Joel.Butler@bellaliant.ca>; Donkor, Enyonam <enyonam.donkor@bell.ca>; Gibicar, Robert A <rob.gibicar@bell.ca>

Subject: RE: Wind Farm 2 Wind Project - Electromagnetic Interference

+ [@Gibicar, Robert A](#)

Thanks,



Sunny Saini

Wireless Network Operations | Bell Mobility Inc.

RE: Wind Farm 3 Wind Project - Electromagnetic Interference

From Grégoire, Martin (DFO/MPO) <Martin.Gregoire@dfo-mpo.gc.ca>

Date Tue 3/17/2026 3:32 PM

To Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>

Unclassified - Non-Classifié

Hello,

The proposed wind farm (Wind Farm 3) is located 51 km away from the Eddy Point (Mulgrave) radar site. Even though it is located within the 60 km consultation zone, it is located beyond the area covered by the radar. Therefore no interference issues are anticipated.

Regards / Salutations,

Martin Grégoire

Canadian Coast Guard
Garde côtière canadienne

RE: Wind Farm 3 Wind Project - Electromagnetic Interference

From TES_WindTurbines@forces.gc.ca <TES_WindTurbines@forces.gc.ca>

Date Tue 3/17/2026 11:29 AM

To Norberto.Hulle@wsp.com <Norberto.Hulle@wsp.com>

Good morning,

This email is to acknowledge that Department of National Defence (DND) has received your proposal and to advise you that we may contact you if we require any further information to perform our assessments.

If you have received a Land Use File number from Nav Canada, Could you please forward that to us.

Please allow up to eight weeks for the assessment to be accomplished as several different DND organizations will begin working on your proposal shortly.

Thank you again if you have any questions, please contact us at

WindTurbines@forces.gc.ca

The DND website for Wind turbine impact assessment is located at

<https://www.canada.ca/en/air-force/services/wind-turbine-impact-assessment-for-industry.html>

Respectfully,

MWO / Adjum Jeff Bateman, CD

Staff Officer Aerospace Systems 3

1 Canadian Air Division Headquarters / Canadian NORAD Region

Canadian Armed Forces

jeffrey.bateman2@forces.gc.ca / Tel.: 204-833-2500 ext 257- 2257 / CSN: 257-2257 / Cell: 431-294-4035

Officier d'État Major Systèmes Aérospatiales 3

1re Division Aérienne du Canada/Région Canadienne du NORAD

Forces armées canadiennes

jeffrey.bateman2@forces.gc.ca / Tel.: 204-833-2500 ext 257- 2257 / CSN: 257-2257 / 431-294-4035

RE: Wind Farm 3 Wind Project - Electromagnetic Interference

From Andrew MacVicar <Andrew.MacVicar@corp.eastlink.ca>

Date Mon 4/6/2026 8:01 AM

To Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>

Good morning Norberto,

Thanks for the information on another wind farm project, I've shared with my Engineering folks, who will be in touch if they have any questions or concerns.

Have a wonderful week!
Andrew

Andrew MacVicar | Manager Customer Experience

Eastlink | Continuous Improvement

Andrew.MacVicar@corp.eastlink.ca

From: Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>

Sent: Thursday, April 2, 2026 4:33 PM

To: For the office of Jeff Gillham, Chief Executive Officer <CEO@corp.eastlink.ca>; Andrew MacVicar <Andrew.MacVicar@corp.eastlink.ca>

Subject: Wind Farm 3 Wind Project - Electromagnetic Interference

Good afternoon,

Please find attached a notification letter about the proposed **Wind Farm 3** Wind Project in Guysborough County, Nova Scotia. We are reaching out to request your insights regarding any potential electromagnetic interference related to this project. For your convenience, a KMZ file illustrating the turbine layout is also included.

I would appreciate it if you could confirm that you have received these materials. Should you have any questions or wish to discuss any specific details further, please don't hesitate to get in touch.

Regards,

Norberto Lopes Hülle

EA Practitioner

Intermediate Scientist, MSc

He/him

WSP

50 Troop Avenue

Dartmouth, Nova Scotia

B3B 1Z1 Canada

wsp.com

March 20, 2026

Norberto Lopes Hülle
WSP Canada on behalf of EverWind



Subject: Wind Farm 3 Wind Project

Dear Norberto,

Thank you for contacting the Meteorological Service of Canada, a Branch of Environment and Climate Change Canada (ECCC), regarding your renewable energy project proposal.

When assessing the potential impact of all new wind energy projects, ECCC's main goal is to avoid significant interference with any of ECCC's state-of-the-art weather radars that would hinder the timely and accurate production of watches and warnings of significant weather.

We have reviewed the information that you provided to ECCC via e-mail on March 17, 2026 for the proposed Wind Farm 3 Project (the "Proposed Project") located approximately 134-157 km away from ECCC's Gore, NS weather radar (the "Weather Radar"). Based on the information provided, our preliminary assessment of the Proposed Project indicates that any potential interference that may be caused should not significantly affect our radar operations. Consequently, we do not have objections to the current Proposed Project operations on the Weather Radar. This being said, if additional wind turbines are proposed in the vicinity of the Weather Radar which might result in cumulative interference on ECCC's weather radar operations, ECCC will monitor these impacts and may contact you to discuss potential mitigation measures.

If your Proposed Project is modified in any manner (e.g. number of turbines, turbine height or placement), this preliminary assessment will no longer be valid and an updated analysis will be conducted by ECCC once all the information regarding the revised Proposed Project has been submitted in a timely matter to ECCC at: radarsmeteo-weatherradars@ec.gc.ca.

If the Proposed Project proceeds through the development process and becomes operational or if the Proposed Project does not proceed, we would appreciate being informed so that we may update our records.

Sincerely,

Shannon Kaya
Director, Satellite, Lightning, and Engineering Division
Meteorological Service of Canada, Environment and Climate Change Canada




Wind Farm 3 Wind Project - Electromagnetic Interference

From Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>

Date Thu 4/2/2026 5:06 PM

To Shawn Andrews <sandrews@modg.ca>

 1 attachment (10 KB)

turbines_WF3.kmz;

Good afternoon, Shawn

Please find attached a notification letter about the proposed **Wind Farm 3** Wind Project in Guysborough County, Nova Scotia. We are reaching out to request your insights regarding any potential electromagnetic interference related to this project. For your convenience, a KMZ file illustrating the turbine layout is also included.

Similar to what I mentioned for Wind Farm 2, we are already in contact with Nova Scotia Public Safety Field Communications on this project as well.

I would appreciate it if you could confirm that you have received these materials. Should you have any questions or wish to discuss any specific details further, please don't hesitate to get in touch.

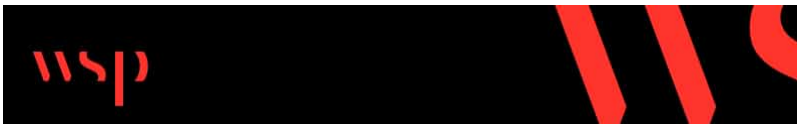
Regards,

Norberto Lopes Hülle
EA Practitioner
Intermediate Scientist, MSc
He/him

M +1 647-546-8208 (NEW)

WSP
50 Troop Avenue
Dartmouth, Nova Scotia
B3B 1Z1 Canada

wsp.com



RE: Wind Farm 3 Wind Project - Electromagnetic Interference

From Stevens, Brendan (he, him, his | il, le, lui) (ISED/ISDE) <Brendan.Stevens@ised-isde.gc.ca>

Date Thu 3/19/2026 3:11 PM

To Lopes Hülle, Norberto <norberto.hulle@wsp.com>

Good Afternoon,

I've completed a search for stations not found in our public database. I have identified a non-disclosed system that will require additional consultation for your project according to the RABC document linked below.

[Technical Information and Coordination Process Between Wind Turbines and Radiocommunication and Radar Systems - RABC-CCCR](#)

Coordination will be required with the Nova Scotia Department of Emergency Management.

I have passed along your contact information to the user to facilitate the consultation process.

Please be sure to conduct a search of ISED's public database at [Search for SMS data](#) to conduct a search for additional users that may require coordination.

If you have any further questions, please let me know.

Regards,

Brendan Stevens
(he, him, his | il, le, lui)

Spectrum Management Officer | Agent de la Gestion du Spectre
Spectrum Management Operations Branch | Direction générale des opérations de la gestion du spectre
Innovation, Science and Economic Development Canada / Government of Canada | Innovation, Sciences et Développement économique Canada / Gouvernement du Canada
50 Brown Avenue, Dartmouth NS B3B 1X8 | 50, avenue Brown, Dartmouth NS B3B 1X8
brendan.stevens@ised-isde.gc.ca
Telephone | Téléphone +1 (902) 489-0339
Government of Canada | Gouvernement du Canada

NAVCANADA Land Use 26-1390 Wind Farm 3

From LandUse@navcanada.ca <LandUse@navcanada.ca>

Date Wed 3/18/2026 4:13 PM

To Lopes Hulle, Norberto <NORBERTO.HULLE@WSP.COM>; Bonazza, Jeff <jeff.bonazza@everwindfuels.com>; Hulle, Norberto <norberto.hulle@wsp.com>; norberto.hulle@wsp.com <norberto.hulle@wsp.com>; tyler.degier@everwindfuels.com <tyler.degier@everwindfuels.com>

Good day / Bonjour La version française figure ci - dessous / French Text Follows

Thank you for your submission, your Land Use file number is 26-1390. Please reference this number for all transactions on this submission. At NAV CANADA, we are currently working on different ways to diminish our turnaround times. Please note that we currently have the following time frame published on our website:

Processing times vary, but NAV CANADA attempts to respond within 8 to 12 weeks of receiving a complete proposal. The accuracy and completeness of the initial documentation and your cooperation and promptness in remedying deficiencies or inaccuracies will help to expedite the review process.

If you have any questions or would like an update of your file, please do not hesitate to contact us.

/

Merci pour votre soumission. Votre numéro de dossier d'utilisation de terrain est 26-1390. Veuillez mentionner ce numéro pour toutes les transactions reliées sur cette soumission. Chez NAV CANADA, nous travaillons actuellement sur différentes façons de réduire nos délais d'exécution. Veuillez noter que nous avons actuellement le délai suivant publié sur notre site Web:

Les délais de traitement varient selon l'exhaustivité et l'exactitude des renseignements soumis et selon la complexité du projet. En général, NAV CANADA tente de répondre dans un délai de 8 à 12 semaines.

N'hésitez pas à nous contacter si vous avez des questions ou souhaitez une mise à jour de votre dossier

Regards / Cordialement

Proposal Summary/ Détails de la proposition

Proponent Information / Information sur le promoteur

Applicant Name / Nom du demandeur

Norberto Lopes Hulle

Applicant Address / Adresse du demandeur	NS
Phone number / Numéro de téléphone	
Cell number / Numéro de cellulaire	
E-mail address / Adresse courriel	NORBERTO.HULLE@WSP.COM

Owner Information / Information sur le propriétaire

Owner Name / Nom du propriétaire	Jeff Bonazza
Owner Address / Adresse du propriétaire	
Phone number / Numéro de téléphone	
Cell number / Numéro de cellulaire	
E-mail address / Adresse courriel	jeff.bonazza@everwindfuels.com

Project Information / Information sur le projet

Project Identification / Désignation du projet	Wind Farm 3
Nearest Town / Ville la plus proche	Guysborough NS
Proposed new construction start date / Date proposée pour le début des nouvelles constructions	2027-04-01
Proposed completion date / Date d'achèvement proposée	
Is the current work on NAVCANADA land? / Les travaux en cours sur le territoire de NAV CANADA sont-ils effectués ?	No
Additional Comments / Commentaires additionnels	

Obstacle Information / Information sur l'obstacle

Obstacle Description / Description de l'obstacle	107 Turbine Wind Farm Project
Land Use Type / Type d'utilisation de terrains	Wind Turbine(s) / Éolienne(s)
Has Crane / Grues utilisées?	No / Non

Obstacle(s)

Id	Longitude	Latitude	Ground / Sol	Height / Hauteur	Radius / Rayon
T1	45 15 31.1100	-061 57 50.1000	371.687347852 ft/pi	727.362228 ft/pi	0 ft/pi
T10	45 14 45.4300	-061 54 57.3500	477.67291554799993 ft/pi	727.362228 ft/pi	0 ft/pi

T100	45 08 43.0700	-061 46 05.4600	192.46194841599998 ft/pi	727.362228 ft/pi	0 ft/pi
T101	45 08 36.4400	-061 45 19.3600	208.984258656 ft/pi	727.362228 ft/pi	0 ft/pi
T102	45 08 30.6800	-061 43 43.6000	196.431436732 ft/pi	727.362228 ft/pi	0 ft/pi
T103	45 08 27.0800	-061 44 25.4700	170.75427055600002 ft/pi	727.362228 ft/pi	0 ft/pi
T104	45 08 07.6400	-061 43 03.9000	185.91536028000002 ft/pi	727.362228 ft/pi	0 ft/pi
T105	45 08 05.7200	-061 44 38.4100	203.637473708 ft/pi	727.362228 ft/pi	0 ft/pi
T106	45 07 54.8400	-061 46 04.3300	156.529204484 ft/pi	727.362228 ft/pi	0 ft/pi
T107	45 07 53.1400	-061 44 09.5800	110.425856552 ft/pi	727.362228 ft/pi	0 ft/pi
T11	45 14 40.8200	-061 53 04.5700	515.576460068 ft/pi	727.362228 ft/pi	0 ft/pi
T12	45 14 40.7000	-061 52 19.0700	475.83991024 ft/pi	727.362228 ft/pi	0 ft/pi
T13	45 14 34.8400	-061 49 25.2800	499.033480536 ft/pi	727.362228 ft/pi	0 ft/pi
T14	45 14 25.9200	-061 56 44.3600	456.38157628399995 ft/pi	727.362228 ft/pi	0 ft/pi
T15	45 14 24.6700	-061 55 52.0900	431.66864898399996 ft/pi	727.362228 ft/pi	0 ft/pi
T16	45 14 24.6400	-061 53 47.7600	481.672259508 ft/pi	727.362228 ft/pi	0 ft/pi
T17	45 14 23.4800	-061 58 30.3200	384.06989418 ft/pi	727.362228 ft/pi	0 ft/pi
T18	45 14 09.6700	-061 50 33.0700	548.6227209680001 ft/pi	727.362228 ft/pi	0 ft/pi
T19	45 14 09.0400	-061 54 57.4100	501.93735202 ft/pi	727.362228 ft/pi	0 ft/pi
T2	45 15 27.6300	-061 56 35.1000	404.188333144 ft/pi	727.362228 ft/pi	0 ft/pi
T20	45 14 08.5500	-061 53 26.6500	528.277904044 ft/pi	727.362228 ft/pi	0 ft/pi
T21	45 14 02.3500	-061 58 18.0200	416.80742803600003 ft/pi	727.362228 ft/pi	0 ft/pi

T22	45 14 02.1700	-061 51 30.8100	565.8448343800001 ft/pi	727.362228 ft/pi	0 ft/pi
T23	45 14 00.8800	-061 52 42.2800	596.440963968 ft/pi	727.362228 ft/pi	0 ft/pi
T24	45 13 57.5400	-061 47 19.4300	383.575471592 ft/pi	727.362228 ft/pi	0 ft/pi
T25	45 13 48.0000	-061 50 02.4000	582.336632808 ft/pi	727.362228 ft/pi	0 ft/pi
T26	45 13 46.9700	-061 57 15.2400	471.86648491600005 ft/pi	727.362228 ft/pi	0 ft/pi
T27	45 13 46.9400	-061 59 18.7000	464.92357130799996 ft/pi	727.362228 ft/pi	0 ft/pi
T28	45 13 44.8400	-061 53 13.6500	566.265438068 ft/pi	727.362228 ft/pi	0 ft/pi
T29	45 13 40.2400	-061 52 32.2900	576.4888635919999 ft/pi	727.362228 ft/pi	0 ft/pi
T3	45 15 22.4100	-061 57 14.7400	436.85040767999993 ft/pi	727.362228 ft/pi	0 ft/pi
T30	45 13 38.4700	-061 46 44.1000	337.049551468 ft/pi	727.362228 ft/pi	0 ft/pi
T31	45 13 38.3900	-061 54 00.9400	494.76477961200004 ft/pi	727.362228 ft/pi	0 ft/pi
T32	45 13 33.5200	-061 48 46.9600	432.05250726400004 ft/pi	727.362228 ft/pi	0 ft/pi
T33	45 13 33.1000	-061 55 39.4400	552.99214368 ft/pi	727.362228 ft/pi	0 ft/pi
T34	45 13 32.4300	-061 54 55.8900	609.191620544 ft/pi	727.362228 ft/pi	0 ft/pi
T35	45 13 27.1200	-061 58 02.5800	455.803164192 ft/pi	727.362228 ft/pi	0 ft/pi
T36	45 13 25.5600	-061 45 59.4000	331.685706152 ft/pi	727.362228 ft/pi	0 ft/pi
T37	45 13 24.4600	-061 59 43.1800	466.2811829 ft/pi	727.362228 ft/pi	0 ft/pi
T38	45 13 21.5500	-061 50 49.6000	459.03872859999996 ft/pi	727.362228 ft/pi	0 ft/pi
T39	45 13 16.2800	-061 47 45.0400	473.55710176800005 ft/pi	727.362228 ft/pi	0 ft/pi
T4	45 15 12.6800	-061 51 58.0900	498.65880860799996 ft/pi	727.362228 ft/pi	0 ft/pi

T40	45 13 13.0100	-061 45 20.3500	333.202438484 ft/pi	727.362228 ft/pi	0 ft/pi
T41	45 13 07.5500	-061 59 09.3900	430.14437072 ft/pi	727.362228 ft/pi	0 ft/pi
T42	45 13 02.3900	-061 54 52.5200	562.435385452 ft/pi	727.362228 ft/pi	0 ft/pi
T43	45 13 01.2100	-061 49 14.9500	501.12042286 ft/pi	727.362228 ft/pi	0 ft/pi
T44	45 12 59.6900	-061 50 06.5900	498.76051464799997 ft/pi	727.362228 ft/pi	0 ft/pi
T45	45 12 52.3700	-061 56 06.2200	409.883871384 ft/pi	727.362228 ft/pi	0 ft/pi
T46	45 12 40.7100	-061 54 31.2900	498.26543589199997 ft/pi	727.362228 ft/pi	0 ft/pi
T47	45 12 40.2000	-061 47 15.2000	361.33203256 ft/pi	727.362228 ft/pi	0 ft/pi
T48	45 12 38.1200	-061 45 24.5700	346.586953348 ft/pi	727.362228 ft/pi	0 ft/pi
T49	45 12 34.3900	-061 44 30.8000	329.76214966 ft/pi	727.362228 ft/pi	0 ft/pi
T5	45 15 06.3100	-061 54 24.9400	453.454082752 ft/pi	727.362228 ft/pi	0 ft/pi
T50	45 12 26.9900	-061 46 16.3100	267.38517916 ft/pi	727.362228 ft/pi	0 ft/pi
T51	45 12 26.1300	-061 48 35.7700	445.03577539599996 ft/pi	727.362228 ft/pi	0 ft/pi
T52	45 12 23.4800	-061 53 11.1000	456.99870228800006 ft/pi	727.362228 ft/pi	0 ft/pi
T53	45 12 17.4900	-061 49 48.9900	446.211956536 ft/pi	727.362228 ft/pi	0 ft/pi
T54	45 12 14.3400	-061 52 37.0100	419.83761186 ft/pi	727.362228 ft/pi	0 ft/pi
T55	45 12 03.4400	-061 54 30.4800	395.537414232 ft/pi	727.362228 ft/pi	0 ft/pi
T56	45 12 01.4800	-061 47 07.3600	331.80611298 ft/pi	727.362228 ft/pi	0 ft/pi
T57	45 11 57.8300	-061 56 26.9800	358.106310672 ft/pi	727.362228 ft/pi	0 ft/pi
T58	45 11 57.3500	-061 55 40.6000	361.74049714 ft/pi	727.362228 ft/pi	0 ft/pi

T59	45 11 49.2400	-061 52 07.8000	315.432424792 ft/pi	727.362228 ft/pi	0 ft/pi
T6	45 15 03.4800	-061 53 46.4700	496.160448948 ft/pi	727.362228 ft/pi	0 ft/pi
T60	45 11 46.0200	-061 49 43.6800	350.933738264 ft/pi	727.362228 ft/pi	0 ft/pi
T61	45 11 45.8500	-061 46 10.0300	313.34613863600003 ft/pi	727.362228 ft/pi	0 ft/pi
T62	45 11 43.0400	-061 44 38.6700	284.530192832 ft/pi	727.362228 ft/pi	0 ft/pi
T63	45 11 42.8200	-061 48 03.0700	344.43570655999997 ft/pi	727.362228 ft/pi	0 ft/pi
T64	45 11 41.6700	-061 49 00.6300	376.50755798 ft/pi	727.362228 ft/pi	0 ft/pi
T65	45 11 39.3800	-061 45 21.6600	285.57809312800003 ft/pi	727.362228 ft/pi	0 ft/pi
T66	45 11 29.7500	-061 54 07.6700	408.58104982 ft/pi	727.362228 ft/pi	0 ft/pi
T67	45 11 18.4300	-061 53 02.5500	492.66471392799997 ft/pi	727.362228 ft/pi	0 ft/pi
T68	45 11 15.1000	-061 53 39.9800	402.005918376 ft/pi	727.362228 ft/pi	0 ft/pi
T69	45 11 10.2900	-061 56 57.5400	390.85729597200003 ft/pi	727.362228 ft/pi	0 ft/pi
T7	45 14 56.3900	-061 57 24.2300	517.659465384 ft/pi	727.362228 ft/pi	0 ft/pi
T70	45 11 09.1500	-061 48 43.2300	324.529537944 ft/pi	727.362228 ft/pi	0 ft/pi
T71	45 11 07.2500	-061 44 08.9500	245.913393696 ft/pi	727.362228 ft/pi	0 ft/pi
T72	45 11 06.4000	-061 55 47.7000	423.09187705600004 ft/pi	727.362228 ft/pi	0 ft/pi
T73	45 11 04.3100	-061 46 58.5400	318.692267416 ft/pi	727.362228 ft/pi	0 ft/pi
T74	45 10 55.0700	-061 45 42.4700	307.018382528 ft/pi	727.362228 ft/pi	0 ft/pi
T75	45 10 54.8300	-061 52 39.2700	414.98492141599996 ft/pi	727.362228 ft/pi	0 ft/pi
T76	45 10 49.2800	-061 54 36.2600	419.172585592 ft/pi	727.362228 ft/pi	0 ft/pi

T77	45 10 46.6300	-061 56 34.3800	432.371404912 ft/pi	727.362228 ft/pi	0 ft/pi
T78	45 10 45.7200	-061 43 35.1400	165.722446248 ft/pi	727.362228 ft/pi	0 ft/pi
T79	45 10 38.6600	-061 48 44.5200	334.725076328 ft/pi	727.362228 ft/pi	0 ft/pi
T8	45 14 51.3600	-061 50 08.7400	530.139124576 ft/pi	727.362228 ft/pi	0 ft/pi
T80	45 10 32.9400	-061 45 06.8700	283.224746596 ft/pi	727.362228 ft/pi	0 ft/pi
T81	45 10 32.3500	-061 46 13.3500	343.668646168 ft/pi	727.362228 ft/pi	0 ft/pi
T82	45 10 32.1800	-061 44 28.0400	254.318577692 ft/pi	727.362228 ft/pi	0 ft/pi
T83	45 10 31.2500	-061 52 12.8600	393.081377408 ft/pi	727.362228 ft/pi	0 ft/pi
T84	45 10 28.4300	-061 51 22.5100	421.41471164800004 ft/pi	727.362228 ft/pi	0 ft/pi
T85	45 10 24.1900	-061 48 08.9500	316.111886756 ft/pi	727.362228 ft/pi	0 ft/pi
T86	45 10 12.5300	-061 46 41.0900	299.561033208 ft/pi	727.362228 ft/pi	0 ft/pi
T87	45 10 03.1800	-061 44 24.0500	239.49147748 ft/pi	727.362228 ft/pi	0 ft/pi
T88	45 10 02.5000	-061 54 32.7500	446.99903005199997 ft/pi	727.362228 ft/pi	0 ft/pi
T89	45 10 01.5000	-061 45 48.7800	290.245088028 ft/pi	727.362228 ft/pi	0 ft/pi
T9	45 14 48.8200	-061 51 00.2600	509.319570104 ft/pi	727.362228 ft/pi	0 ft/pi
T90	45 09 57.1300	-061 43 32.3900	221.124022824 ft/pi	727.362228 ft/pi	0 ft/pi
T91	45 09 55.0300	-061 55 14.5800	313.758868308 ft/pi	727.362228 ft/pi	0 ft/pi
T92	45 09 53.9700	-061 47 26.9700	324.106637668 ft/pi	727.362228 ft/pi	0 ft/pi
T93	45 09 46.9200	-061 43 02.8400	191.773956268 ft/pi	727.362228 ft/pi	0 ft/pi
T94	45 09 38.4100	-061 53 58.0500	333.98459074 ft/pi	727.362228 ft/pi	0 ft/pi

T95	45 09 30.6800	-061 42 38.0700	160.16535945599998 ft/pi	727.362228 ft/pi	0 ft/pi
T96	45 09 24.2000	-061 44 09.0000	173.50066172 ft/pi	727.362228 ft/pi	0 ft/pi
T97	45 09 22.7600	-061 44 46.4900	200.659783324 ft/pi	727.362228 ft/pi	0 ft/pi
T98	45 09 21.5600	-061 46 38.5200	229.64830131199997 ft/pi	727.362228 ft/pi	0 ft/pi
T99	45 09 21.3500	-061 45 37.4700	221.29003332800002 ft/pi	727.362228 ft/pi	0 ft/pi

Supporting Information / Information à l'appui

Related Land Use file number / Numéro de dossier
d'utilisation de terrains précédent

Correspondance Language / Langue de correspondance

Attached Files / Fichiers joints

Other parties to be informed / Autres parties à informer

English
26-1390 turbines_WF3.kmz 26-1390 WF3 EMI Letter NAVCANADA.pdf 26-1390 Wind Farm 3_Project- Layout.pdf 26-1390 NAVCANADA Obstacle WF3.xlsx
norberto.hulle@wsp.com tyler.degier@everwindfuels.com

Land Use Department
AERONAUTICAL INFORMATION MANAGEMENT(AIM)
NAV CANADA

landuse@navcanada.ca

1601 Avenue Tom Roberts Avenue Ottawa, ON K1V 1E5

F.613-248-4094

www.navcanada.ca

RE: Windfarm Telecom Tower Coordination - WF2

From Moffat, Jeffrey <Jeffrey.Moffat@novascotia.ca>

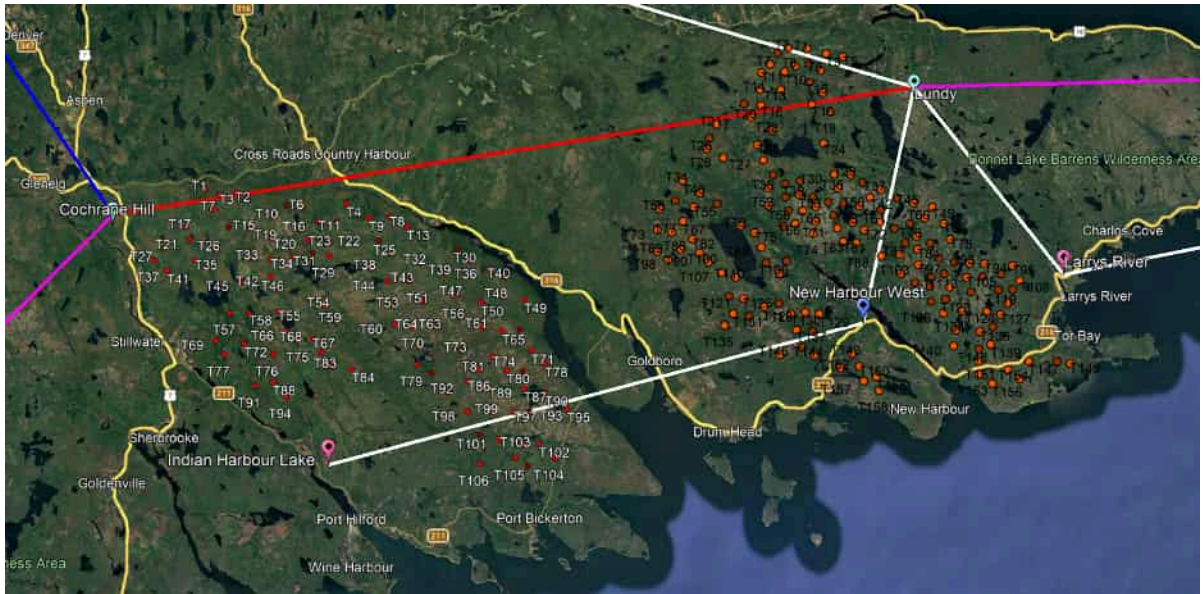
Date Wed 3/25/2026 8:52 AM

To Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>; Tyler de Gier <tyler.degier@everwindfuels.com>

Cc Brendan.Stevens@ised-isde.gc.ca <Brendan.Stevens@ised-isde.gc.ca>; PSFCTowers <PSFCTowers@novascotia.ca>; kmacneil@macneitel.ca <kmacneil@macneitel.ca>; Jeff Bonazza <jeff.bonazza@everwindfuels.com>; Rebecca Crump <rebecca.crump@everwindfuels.com>

Hi Norberto

We have completed our assessment of the possible impacts on WF3 to our microwave network and have found several concerning turbines.



Specifically, T2, T3, T93, T95, T96, T97 and T99. These are in addition to the concerns we had with some turbines in WF2. Can I propose that we have a meeting with everyone involved in this process to come up with some strategies to mitigate our concerns?

Thanks

Jeff



Jeffrey Moffat
Service Manager
Department of Emergency
Management
Phone: (902) 499-3163

Protected A

Norberto Lopes Hülle
WSP

GV 1620-7-3

17 March 2026

SUBJECT: Wind Farm 3 Wind Project

Ref. # 2026-03-17_0243

Greetings,

Reference is made to your email request dated March 17, 2026, on your plans for the wind energy project called "Wind Farm 3" in the province of Nova Scotia.

According to the Radio Advisory Board of Canada (RABC) and Canadian Wind Energy Association (CanWea), the radius of the consultation zone for fixed Land Mobile Radio (LMR) sites is 1 km. The RCMP currently have no "owned" radio towers or Point-To-Point (PTP) microwave links in this area.

However, the **surrounding area is receiving radio coverage from TMR2** operated as a leased system through Bell Canada. It is **required** that you request coordination with the province of Nova Scotia who are acting on behalf of RCMP with leased towers.

Should you require additional information, please direct any questions or concerns to the undersigned.

Sincerely,

Phil Tanguay

Wind Farm Coordinator,
National Radio Services / Digital Program
Royal Canadian Mounted Police (RCMP) / Government of Canada

windfarm_coordinator@rcmp-grc.gc.ca / Tel: **343-552-1290**

Coordonnateur parc éolien,
Services de radio nationaux / Programme Numérique
Gendarmerie royale du Canada (GRC) / Gouvernement du Canada

Wind Farm 3 Wind Project - Electromagnetic Interference

From Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>

Date Thu 4/2/2026 5:09 PM

To wireless.eng@rci.rogers.com <wireless.eng@rci.rogers.com>; spectrum.operations@rci.rogers.com <spectrum.operations@rci.rogers.com>; spectrum.requests@rci.rogers.com <spectrum.requests@rci.rogers.com>

 2 attachments (260 KB)

turbines_WF3.kmz; WF3 EMI Letter Rogers.pdf;

Good afternoon,

Please find attached a notification letter about the proposed **Wind Farm 3** Wind Project in Guysborough County, Nova Scotia. We are reaching out to request your insights regarding any potential electromagnetic interference related to this project. For your convenience, a KMZ file illustrating the turbine layout is also included.

I would appreciate it if you could confirm that you have received these materials. Should you have any questions or wish to discuss any specific details further, please don't hesitate to get in touch.

Regards,

Norberto Lopes Hülle

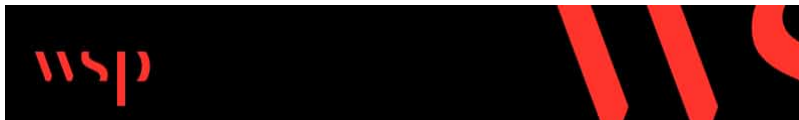
EA Practitioner
Intermediate Scientist, MSc
He/him

M +1 647-546-8208 (NEW)

WSP

50 Troop Avenue
Dartmouth, Nova Scotia
B3B 1Z1 Canada

wsp.com



Re: Upper Afton Wind Project - Electromagnetic Interference

From Network Operations Centre <noc@seaside.ns.ca>

Date Tue 4/7/2026 10:20 AM

To Lopes Hülle, Norberto <Norberto.Hulle@wsp.com>

Hi Noberto,

The helpdesk forwarded me your email the other day and I did look it over. We do have wireless towers in the area, so I sent it to the engineers. Currently awaiting their response, but I'll reach out again. I know they would be delayed a bit due to the holiday weekend, but I'll see if I can get an answer.

Thanks,

Gavin Samson
Critical NOC Analyst
Seaside Communications
noc@seaside.ns.ca
902-539-2353

On 4/7/2026 9:33 AM, Lopes Hülle, Norberto wrote:

Good morning, Gavin

I recently sent the notification of 2 other Wind Farm projects to Seaside, but the latest e-mail returned.

Did you get those e-mails?

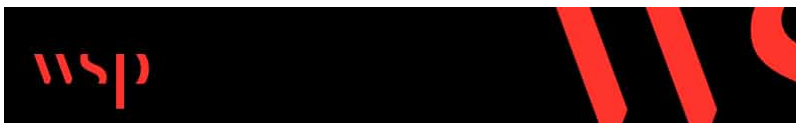
I attached them here for convenience.

Thanks!

Norberto

Norberto Lopes Hülle
EA Practitioner
Intermediate Scientist, MSc.
He/him

M +1 647-546-8208 (NEW)



wsp



wsp.com

APPENDIX D GHG CALCULATIONS

Table 1: Baseline GHG Quantification - Harbour Hills Wind Project

Project # 25-11682

Power Generation via Coal			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Coal	1,023,553,440	kWh/year	Based on 39% of electricity generated by NSPI in 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Coal Generated Electricity	1.0502	kg CO ₂ e/kWh	[Source: EIA, 2023]
<i>Conversion Factor</i>	0.001	t CO ₂ e/kWh	1 kg = 0.001 Tonnes
Emissions	1,074,926.61	t CO ₂ e/year	B5*B8*B9
Power Generation via Oil			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Oil	78,734,880	kWh/year	Based on 3% of electricity generated by NSPI in 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Oil Generated Electricity	1.1089	kg CO ₂ e/kWh	[Source: EIA, 2023]
<i>Conversion Factor</i>	0.001	t CO ₂ e/kWh	1 kg = 0.001 Tonnes
Emissions	87,305.36	t CO ₂ e/year	B14*B17*B18
Power Generation via Natural Gas			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Natural Gas	341,184,480	kWh/year	Based on 13% of electricity generated by NSPI in 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Natural Gas Generated Electricity	0.4374	kg CO ₂ e/kWh	[Source: EIA, 2023]
<i>Conversion Factor</i>	0.001	t CO ₂ e/kWh	1 kg = 0.001 Tonnes
Emissions	149,239.39	t CO ₂ e/year	B23*B26*B27
Power Generation via Wind			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generated via Wind	1,181,023,200	kWh/year	Based on 45% of electricity generated by NSPI in Q3 2025
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Wind Generated Electricity	0	t CO ₂ e/kWh	
Emissions	0.00	t CO ₂ e/year	B32*B35
Total Emissions	1,311,471.36	t CO₂e/year	B10+B19+B28

Table 2: Construction Phase GHG Quantification - Harbour Hills Wind Project

Turbine Transportation			
Parameter/Variable	Value	Unit	Comments
Transportation Vehicle			
Heavy Duty Truck (Diesel)	1	ea	
Distance Travelled	246,273	km	From manufacturing facility to the Port in Dafeng, China and the Strait of Canso Superport, Mulgrave, NS, to Wind Turbine Laydowns (includes all the wind turbine components for all wind turbines).
Freight Weight	73.85	tonne	Based on weights provided in NREL's 2015 Report [NREL, 2017]. Estimate of each component; 960 tonnes/13 components
Marine Cargo and Containers (Diesel)	1	ea	
Distance Travelled	2,482,400	km	From Port in Dafeng, China, to Strait of Canso Superport, Mulgrave, NS, (includes 107 WT).
Freight Weight	960.00	tonne	Based on weights provided in NREL's 2015 Report [NREL, 2017].
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Heavy Duty Truck	135	g CO ₂ e/tonne-km	Freight emissions for calculating GHGs from freight (materials delivery, shipment of product to market, etc.) [Source: GHGenius v5.0d].
Conversion Factor	0.000001	t CO ₂ e/tonne-km	1 g = 0.000001 Tonnes
Emissions	2,455.15	t CO ₂ e/year	B16*B18*B19*B25*B26
Marine Cargo and Containers (Diesel)	15.1	g CO ₂ e/tonne-km	Freight emissions for calculating GHGs from freight (materials delivery, shipment of product to market, etc.) [Source: GHGenius v5.0d].
Conversion Factor	0.000001	t CO ₂ e/tonne-km	1 g = 0.000001 Tonnes
Emissions	35,984.87	t CO ₂ e/year	B21*B22*B28*B29
Tower Foundation and Pedestal			
Parameter/Variable	Value	Unit	Comments
Concrete Production Quantity	2,036,250	kg	Based on a volume of 905 m ³ (per Wind Turbine Pad) - provided by the Proponent, and an estimated concrete density of 2,250 kg/m ³
Concrete Truck	20.25	tonne/truck	1 kg = 0.001 Tonnes
	101	ea	Source: Ready Mixed Concrete Association of Ontario, n.d and concrete density of 2,250 kg/m ³ (B34/B35) Required trucks per Turbine Pad
Turbine Pad Steel	81	tonnes/pad	Based on weights provided by the Proponent
Heavy Duty Truck	38	tonne/truck	No more than 49,500 Gross Vehicle Weight (Assumed unladen weight of 11.5 tonnes)
	3	ea	(B38/B39) Required trucks per Turbine Pad
Concrete Transportation Distances			
Distance Travelled (freight)	7,709	km	Based on one-way trip from Concrete Supplier to each Wind Turbine Pad
Distance Travelled (no freight)	7,709	km	Based on one-way trip from Concrete Supplier to each Wind Turbine Pad
Steel Transportation Distances			
Distance Travelled (freight)	7,709	km	Based on one-way trip from Steel Supplier to each Wind Turbine Pad
Distance Travelled (no freight)	7,709	km	Based on one-way trip from Steel Supplier to each Wind Turbine Pad
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Concrete Production	300	g CO ₂ e/kg	0.3 kg CO ₂ e/kg [Source: GHGenius v5.0d].
Concrete Truck (freight)	135	g CO ₂ e/tonne-km	Freight emissions for calculating GHGs from freight (materials delivery, shipment of product to market, etc.) [Source: GHGenius v5.0d].
Concrete Truck (no freight)	1,106	g CO ₂ e/km	Emissions for calculating GHGs where the volume of fuel consumed is unknown but the distance travelled is known [Source: GHGenius v5.0d].
General Steel Production	1.5	t CO ₂ e/tonne	Estimated from the UK's general steel type, excluding stainless steel (Inventory of Carbon & Energy (ICE), Version 2.0).
Heavy Duty Truck (freight)	135	g CO ₂ e/tonne-km	Freight emissions for calculating GHGs from freight (materials delivery, shipment of product to market, etc.) [Source: GHGenius v5.0d].
Heavy Duty Truck (no freight)	1,106	g CO ₂ e/km	Emissions for calculating GHGs where the volume of fuel consumed is unknown but the distance travelled is known [Source: GHGenius v5.0d].
Conversion Factor	0.000001	t CO ₂ e/g	1 g = 0.000001 Tonnes
Concrete Production Emissions	65,363.63	t CO ₂ e/year	B34*B51*B58*107(WT)
Concrete Truck (freight) Emissions	2,128.55	t CO ₂ e/year	B36*B37*B44*B52*B58
Concrete Truck (no freight) Emissions	861.15	t CO ₂ e/year	B53*B45*B37*B58
Steel Production Emissions	13,000.50	t CO ₂ e/year	B55*B39*107(WT)
Heavy Duty Truck (freight) Emissions	118.64	t CO ₂ e/year	B40*B41*B47*B56*B58
Heavy Duty Truck (no freight) Emissions	25.58	t CO ₂ e/year	B41*B48*B57*B58
Total Tower Foundation and Pedestal	81,498.05	t CO ₂ e/year	SUM(B60,B61,B62,B64,B65,B66)
Total Emissions (Construction Phase)	119,938.07	t CO₂e	B27+B30+B67

Table 3: Operational Phase GHG Quantification - Harbour Hills Wind Project

Project # 25-11682

Wind Energy			
Parameter/Variable	Value	Unit	Comments
Quantity of Power Generation via Wind	2,624,496,000	kWh/year	See Equation
$kWh = 107 \text{ Turbines} \times \frac{8.0 \text{ MW}}{\text{Turbine}} \times \frac{365 \text{ days}}{\text{year}} \times \frac{24 \text{ hours}}{\text{day}} \times 0.35 \times \frac{1000 \text{ kW}}{\text{MW}} = 2,624,496,000 \text{ kWh/year}$			
Emission Factors			
Parameter/Variable	Value	Unit	Comments
Wind Generated Electricity	0	t CO ₂ e/kWh	
Emissions	0	t CO ₂ e/year	B5*B8
Maintenance			
Parameter/Variable	Value	Unit	Comments
Nacelle Components Replacement	11,431	kg/Turbine	15% of Nacelle [Source: Source: Padey et al., 2012, (Number Three Wind LLC, 2018)]
Blade Replacement	18,688	kg/Turbine	One Blade [Source: Source: Padey et al., 2012, (Number Three Wind LLC, 2018)]
Emission Factors			
Parameter/Variable	Value	Unit	Comments
General Steel	1.5	kg CO ₂ e/kg	Estimated from the UK's general steel type, excluding stainless steel (Inventory of Carbon & Energy (ICE), Version 2.0).
Conversion Factor	0.001	t CO ₂ e/kg	1 kg = 0.001 Tonnes
Emissions	45.18	t CO ₂ e/turbine	(B13+B14)*B17*B18
Total Emissions	4,834.04	t CO₂e	B9+B19*107 (WT)

APPENDIX E
WSP NOISE ASSESSMENT



EverWind NS Holdings Ltd.
Harbour Hills Wind Project

Noise Assessment

2026-05-22

Project No. CA0066864.6287 / 1000



Distribution List

1 electronic copy - EverWind NS Holdings Ltd.

1 electronic copy - WSP Canada Inc.

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1 INTRODUCTION

EverWind NS Holdings Ltd. (EverWind) and Membertou Development Corporation are proposing development of the Harbour Hills Wind Project (the Project) in the Municipality of the District of Guysborough and the Municipality of the District of St. Mary's, Nova Scotia. EverWind retained WSP Canada Inc. (WSP) to prepare an assessment of potential environmental noise effects from the Project in accordance with provincial requirements. The results of the Project noise assessment are presented in this report.

The noise assessment report is structured as follows:

- Section 1 provides a brief introduction.
- Section 2 presents a description of the noise sources proposed for the Project.
- Section 3 describes the provincial regulations applicable to noise from the Project, including compliance criteria.
- Section 4 outlines the assessment approach, including a description of noise receptors, representative ambient noise levels, and methods used to predict Project noise levels.
- Section 5 presents noise emissions for the Project.
- Section 6 presents the results of the Project noise assessment, including comparison of noise level predictions to provincial compliance criteria.
- Section 7 summarizes and discusses the results of the Project noise assessment.

2 PROJECT DESCRIPTION

The Project is a proposed 856-megawatt (MW) wind energy development, involving up to 107 turbines. The noise model uses 90 Goldwind GWH182 8.0 MW wind turbines. There are 17 optional turbine locations that are not included in the noise modelling. Optional turbines will be considered for construction at a later date, pending advances in turbine sound reducing technology. Noise models will be updated if optional turbines are added to the Project.

The Project wind turbines will have a hub height of 130 m and will be outfitted with serrated trailing edge (STE) blades to reduce noise emissions. Each Project wind turbine will also be equipped with a pad-mounted electrical transformer.

Table 1 presents the locations of the Project noise sources and the operating modes used when predicting potential Project noise effects. A map showing the locations of Project noise sources is presented in Section 4 (see Figure 1). Additional details on noise emissions from Project sources are provided in Section 5 (see Table 4).

Table 1: Project Noise Sources and Operating Modes

Source Identification Code ^(a)	Source Description	Universal Transverse Mercator Coordinates (Zone 20T)		Source Operating Mode
		Easting (m)	Northing (m)	
T001	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	581291	5012205	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T002	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582927	5012119	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T003	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582065	5011946	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T004	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588971	5011739	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T005	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585773	5011499	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T006	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586612	5011423	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T007	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	581869	5011141	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T008	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591364	5011115	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T009	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	590242	5011021	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T010	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585075	5010845	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T011	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587535	5010736	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T012	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588527	5010746	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T013	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	592318	5010619	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T014	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582750	5010212	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T015	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	583890	5010188	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T016	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586601	5010224	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T017	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	580441	5010107	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T018	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	590852	5009821	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T019	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585089	5009722	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T020	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587068	5009734	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T021	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	580717	5009458	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T024	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595079	5009509	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T025	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591530	5009162	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T026	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582092	5009001	SRM4s ^(b) - turbine; KNAN ^(c) - transformer

Table 1: Project Noise Sources and Operating Modes

Source Identification Code ^(a)	Source Description	Universal Transverse Mercator Coordinates (Zone 20T)		Source Operating Mode
		Easting (m)	Northing (m)	
T027	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	579400	5008966	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T028	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587361	5009006	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T030	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595859	5008932	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T031	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586333	5008793	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T032	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	593182	5008739	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T033	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584187	5008601	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T034	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585137	5008592	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T035	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	581068	5008375	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T036	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596839	5008549	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T037	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	578875	5008265	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T039	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	594540	5008227	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T041	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	579619	5007753	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T042	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585223	5007667	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T043	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	592586	5007733	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T044	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591460	5007670	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T046	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585695	5007004	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T047	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595208	5007124	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T048	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597621	5007096	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T049	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598796	5006999	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T050	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596498	5006735	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T051	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	593456	5006663	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T052	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587451	5006496	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T053	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591863	5006373	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T054	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588199	5006224	SRM4s ^(b) - turbine; KNAN ^(c) - transformer

Table 1: Project Noise Sources and Operating Modes

Source Identification Code ^(a)	Source Description	Universal Transverse Mercator Coordinates (Zone 20T)		Source Operating Mode
		Easting (m)	Northing (m)	
T055	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585728	5005854	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T056	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595396	5005931	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T058	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584201	5005646	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T059	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588847	5005458	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T060	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591993	5005404	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T062	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598649	5005412	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T063	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	594190	5005338	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T064	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	592934	5005283	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T066	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586240	5004821	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T067	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587666	5004491	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T068	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586850	5004377	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T069	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582541	5004171	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T071	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599315	5004318	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T072	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584067	5004071	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T075	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588184	5003770	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T076	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585633	5003564	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T077	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	583056	5003448	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T079	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	593314	5003344	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T080	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598067	5003239	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T081	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596617	5003199	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T083	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588770	5003050	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T084	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	589871	5002979	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T086	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596020	5002578	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T088	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585729	5002121	SRM4s ^(b) - turbine; KNAN ^(c) - transformer

Table 1: Project Noise Sources and Operating Modes

Source Identification Code ^(a)	Source Description	Universal Transverse Mercator Coordinates (Zone 20T)		Source Operating Mode
		Easting (m)	Northing (m)	
T089	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597167	5002255	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T091	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584819	5001878	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T092	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595028	5001990	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T093	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	600797	5001862	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T094	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586497	5001388	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T095	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	601346	5001369	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T096	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599364	5001138	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T097	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598546	5001081	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T098	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596100	5001006	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T099	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597434	5001020	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T100	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596840	4999829	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T101	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597850	4999640	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T102	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599944	4999495	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T103	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599032	4999370	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T104	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	600823	4998798	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T105	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598759	4998706	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T106	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596888	4998341	SRM4s ^(b) - turbine; KNAN ^(c) - transformer
T107	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599395	4998328	SRM4s ^(b) - turbine; KNAN ^(c) - transformer

(a) Although there are 107 potential turbine locations in the Project, the noise model includes only 90 locations. The other 17 turbine locations are optional.

(b) SRM4s = Sound Reduction Mode 4 with STE blades

(c) KNAN = Natural Air Cooling and Non-Mineral Oil

3 REGULATORY FRAMEWORK

The Province of Nova Scotia provides guidance for assessing potential environmental effects from wind power facilities in the *Environmental Assessment Supplemental Checklist: Wind Energy Projects* (Nova Scotia 2024), which will hereafter be referred to as the EA Guide. The Province of Nova Scotia provides additional guidance for assessing potential environmental noise effects from industrial activities in *Guidelines for Environmental Noise Measurement and Assessment* (Nova Scotia 2023), which will hereafter be referred to as the Noise Guidelines. When preparing the Project noise assessment, WSP considered guidance and compliance criteria from both the EA Guide (Nova Scotia 2024) and the Noise Guidelines (Nova Scotia 2023).

3.1 EA Guide

The EA Guide requires that cumulative noise levels, which are calculated by summing ambient noise levels with predicted noise contributions from the Project, not exceed 40 A-weighted decibels (dBA) at receptors within 2 km of the Project (Nova Scotia 2024). The 40 dBA limit from the EA Guide represents the most stringent provincial noise criterion for total or broadband noise from the Project (i.e., noise levels expressed in dBA units, which reflect the frequency sensitivity of the human auditory system). As such, potential broadband noise effects from Project operations were assessed against the limit from the EA Guide.

3.2 Noise Guidelines

The Noise Guidelines provide a framework for assessing potential effects from low frequency noise (LFN), which may not be fully captured by the broadband dBA metric. The LFN test from the Noise Guidelines consists of two parts:

- The first part of the test compares noise levels expressed in dBA to noise levels expressed in C-weighted decibels (dBC), a unit which emphasizes low frequency content.
- The second part of the test looks for a low frequency tonal component in the one-third octave band frequency spectrum and provides a quantitative method for identifying such a tone.

If the difference between noise levels expressed in dBA and dBC is ≥ 20 **and** one or more low frequency tones is present, then a LFN issue exists. In other words, even if the difference between dBC and dBA noise levels was found to be greater than 20, the absence of a clear tone precludes the presence of a LFN issue.

4 ASSESSMENT APPROACH

4.1 Noise Study Area and Receptors

The EA Guide requires that potential noise effects be assessed at permanent and seasonal receptors located within 2 km of the Project wind turbines (Nova Scotia 2024). WSP established a study area for the noise assessment as a 2 km buffer on the Project noise sources. All potential receptors within this study area were considered in the Project noise assessment.

A total of 337 potential noise receptors were identified within the study area. Another 15 potential noise receptors were identified within approximately 100 m of the study area. These potential receptors were maintained in the assessment in consideration of potential minor changes to turbine locations.

Table 2 presents locations for each of the 352 potential receptors considered in the Project noise assessment. For each potential receptor, Table 2 identifies and provides the distance to the closest Project noise source. As noted above, some potential receptors are located slightly more than 2 km from the closest Project noise source (i.e., just beyond the 2 km study area). These potential receptors were maintained in the assessment in the interest of fully capturing all potential noise effects. Figure 1 presents a map showing the locations of the Project noise sources and potential receptors.

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
A	579774	5012890	T001	1664
AA	587019	5012977	T006	1606
AB	589256	5012985	T004	1278
AC	590017	5012963	T004	1610
AD	589836	5012956	T004	1493
AE	589098	5012945	T004	1213
AF	589692	5012948	T004	1408
AG	589863	5012950	T004	1504
AH	589379	5012936	T004	1265
AI	589139	5012932	T004	1205
AJ	589461	5012928	T004	1286
AK	590096	5012937	T004	1643
AL	590269	5012892	T004	1736
AM	590292	5012886	T004	1749
AN	590325	5012845	T004	1748
AO	590381	5012841	T004	1790
AP	590646	5012810	T009	1834
AQ	590330	5012794	T004	1720
AR	590399	5012771	T009	1757
AS	588279	5012714	T004	1196
AT	589773	5012727	T004	1273
AU	587776	5012693	T004	1529
AV	588659	5012701	T004	1011
AW	588628	5012679	T004	1001
AX	588083	5012665	T004	1283
AY	587981	5012650	T004	1345
AZ	590689	5012687	T008	1711
B	584044	5013356	T002	1667
BA	590737	5012666	T008	1673
BB	588183	5012628	T004	1188
BC	588877	5012635	T004	901
BD	588029	5012621	T004	1290
BE	590788	5012654	T008	1643
BF	590916	5012567	T008	1520
BG	590961	5012518	T008	1460
BH	590331	5012496	T009	1478

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
BI	590999	5012505	T008	1437
BJ	590470	5012485	T009	1482
BK	590424	5012469	T009	1459
BL	591082	5012438	T008	1353
BM	591116	5012427	T008	1335
BN	591254	5012428	T008	1318
BO	591155	5012404	T008	1306
BP	590594	5012392	T009	1415
BQ	591245	5012393	T008	1284
BR	590674	5012359	T009	1406
BS	591320	5012313	T008	1199
BT	591476	5012301	T008	1191
BU	590755	5012282	T008	1316
BV	591534	5012291	T008	1188
BW	591446	5012267	T008	1155
BX	591554	5012244	T008	1145
BY	590851	5012225	T008	1223
BZ	592186	5012240	T008	1393
C	584218	5013386	T002	1809
CA	592070	5012222	T008	1313
CB	591566	5012214	T008	1117
CC	591584	5012184	T008	1091
CD	591863	5012185	T008	1181
CE	591603	5012172	T008	1084
CF	591380	5012155	T008	1040
CG	591661	5012145	T008	1072
CH	590956	5012134	T008	1098
CI	591751	5012140	T008	1096
CJ	591403	5012130	T008	1016
CK	592131	5012117	T008	1262
CL	592290	5012113	T008	1361
CM	592110	5012107	T008	1241
CN	591078	5012089	T008	1015
CO	591024	5012084	T008	1027
CP	592037	5012097	T008	1190
CQ	592131	5012086	T008	1237
CR	591736	5012072	T008	1027
CS	592319	5012064	T008	1346
CT	591673	5012045	T008	980
CU	591139	5012029	T008	941
CV	592046	5012040	T008	1149
CW	592085	5012028	T008	1163
CX	591702	5012021	T008	967

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
CY	591934	5012021	T008	1070
CZ	592291	5012019	T008	1295
D	584270	5013445	T002	1887
DA	592230	5012007	T008	1243
DB	592122	5011994	T008	1161
DC	591758	5011975	T008	946
DD	592418	5011975	T008	1360
DE	592362	5011960	T008	1308
DF	591936	5011945	T008	1008
DG	592459	5011933	T013	1322
DH	592484	5011917	T013	1309
DI	592057	5011894	T008	1043
DJ	592211	5011852	T008	1123
DK	592537	5011844	T013	1244
DL	592157	5011838	T008	1073
DM	592679	5011839	T013	1272
DN	592298	5011795	T008	1155
DO	592631	5011798	T013	1220
DP	592687	5011797	T013	1234
DQ	592492	5011785	T013	1179
DR	592710	5011783	T013	1228
DS	592547	5011767	T013	1171
DT	592560	5011750	T013	1157
DU	592594	5011737	T013	1152
DV	592702	5011734	T013	1179
DW	592668	5011694	T013	1131
DX	592754	5011685	T013	1152
DY	592637	5011683	T013	1111
DZ	592730	5011632	T013	1094
E	584439	5013429	T002	2001 ^(b)
EA	592897	5011629	T013	1164
EB	592657	5011617	T013	1054
EC	592760	5011617	T013	1091
ED	592809	5011577	T013	1076
EE	593056	5011557	T013	1194
EF	593174	5011531	T013	1251
EG	593245	5011532	T013	1301
EH	593302	5011498	T013	1319
EI	593130	5011448	T013	1160
EJ	593228	5011420	T013	1212
EK	593457	5011420	T013	1392
EL	593186	5011414	T013	1177
EM	593642	5011411	T013	1543

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
EN	592763	5011392	T013	892
EO	593105	5011369	T013	1087
EP	593381	5011369	T013	1301
EQ	593267	5011364	T013	1206
ER	593412	5011364	T013	1324
ES	594191	5011367	T013	2017 ^(b)
ET	593035	5011343	T013	1019
EU	593894	5011345	T013	1735
EV	593125	5011315	T013	1066
EW	594147	5011317	T013	1958
EX	593810	5011271	T013	1628
EY	594229	5011266	T024	1952
EZ	594022	5011228	T013	1810
F	588353	5013714	T004	2069 ^(b)
FA	594115	5011224	T013	1896
FB	593832	5011217	T013	1628
FC	594288	5011223	T024	1888
FD	594331	5011190	T024	1840
FE	593237	5011135	T013	1054
FF	594763	5011109	T024	1631
FG	594607	5011008	T024	1572
FH	594688	5011001	T024	1542
FI	594649	5010983	T024	1535
FJ	594548	5010974	T024	1558
FK	594329	5010561	T024	1292
FL	596173	5010535	T024	1500
FM	596226	5010492	T024	1511
FN	595956	5010482	T024	1310
FO	596079	5010436	T024	1364
FP	596002	5010432	T024	1305
FQ	595648	5010269	T024	949
FR	596572	5010134	T030	1398
FS	596415	5010095	T030	1289
FT	596764	5009972	T030	1379
FU	596966	5009950	T036	1407
FV	596780	5009927	T030	1356
FW	597076	5009921	T036	1392
FX	597127	5009908	T036	1389
FY	597150	5009903	T036	1389
FZ	597182	5009898	T036	1392
G	588168	5013617	T004	2042 ^(b)
GA	597259	5009855	T036	1372
GB	597183	5009826	T036	1323

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
GC	597356	5009814	T036	1367
GD	597780	5009724	T036	1505
GE	598026	5009703	T036	1656
GF	597872	5009669	T036	1524
GG	597847	5009631	T036	1479
GH	597509	5009607	T036	1252
GI	597953	5009600	T036	1532
GJ	597677	5009562	T036	1315
GK	598103	5009565	T036	1622
GL	597989	5009558	T036	1530
GM	598013	5009556	T036	1547
GN	598071	5009544	T036	1584
GO	597957	5009536	T036	1491
GP	597973	5009519	T036	1492
GQ	598108	5009512	T036	1593
GR	598004	5009492	T036	1499
GS	598075	5009469	T036	1541
GT	598124	5009384	T036	1532
GU	597905	5009310	T036	1310
GV	598185	5009278	T036	1531
GW	598138	5009236	T036	1469
GX	598202	5009189	T036	1506
GY	598248	5009137	T036	1527
GZ	598121	5009133	T036	1409
H	588095	5013595	T004	2052 ^(b)
HA	598100	5009082	T036	1369
HB	598143	5009040	T036	1393
HC	598223	5009020	T036	1462
HD	598182	5009015	T036	1422
HE	598652	5009017	T036	1872
HF	598250	5008974	T036	1474
HG	598761	5008965	T049	1966
HH	598577	5008958	T036	1785
HI	598450	5008919	T036	1653
HJ	598626	5008913	T036	1824
HK	598600	5008894	T036	1794
HL	598832	5008833	T049	1834
HM	598568	5008821	T036	1750
HN	598866	5008796	T049	1798
HO	599171	5008602	T049	1646
HP	599162	5008469	T049	1515
HQ	599098	5008429	T049	1462
HR	599079	5008386	T049	1416

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
HS	599135	5008320	T049	1364
HT	599601	5008311	T049	1539
HU	599553	5008299	T049	1504
HV	599323	5008281	T049	1386
HW	599710	5008264	T049	1561
HX	599374	5008236	T049	1365
HY	599698	5008198	T049	1500
HZ	599252	5008172	T049	1259
I	588113	5013562	T004	2015 ^(b)
IA	599820	5008164	T049	1551
IB	599777	5008139	T049	1504
IC	600154	5008139	T049	1773
ID	600300	5008008	T049	1811
IE	600384	5007826	T049	1790
IF	600585	5007745	T049	1938
IH	588673	5008520	T028	1399
II	589169	5008621	T028	1849
IJ	589535	5008443	T018	1906
IK	592415	5004108	T079	1180
IL	594961	5003438	T086	1364
IM	597165	5004451	T081	1367
IN	601023	5005132	T071	1892
IO	601031	5003515	T093	1669
IP	602381	5003199	T093	2073 ^(b)
IQ	599848	5002718	T093	1278
IR	602003	5002469	T095	1281
IS	577099	5009346	T037	2079 ^(b)
IT	577225	5009313	T037	1955
IU	576867	5008833	T037	2087 ^(b)
IV	577441	5008221	T037	1435
IW	577499	5008146	T037	1381
IX	577076	5008057	T037	1811
IY	577064	5007963	T037	1836
IZ	577064	5007842	T037	1860
J	588315	5013550	T004	1926
JA	577002	5007777	T037	1936
JB	578064	5007369	T037	1209
JC	577947	5007332	T037	1316
JD	577968	5007298	T037	1326
JE	577901	5007287	T037	1380
JF	577978	5007271	T037	1339
JG	577923	5007240	T037	1399
JH	578075	5007139	T037	1381

Table 2: Receptor Locations and Distance to Project Noise Sources

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
JI	578170	5007110	T037	1353
JJ	578080	5007061	T037	1443
JK	578170	5006716	T037	1702
JL	578154	5006646	T037	1772
JM	578206	5006429	T041	1936
JN	578316	5006409	T041	1872
JO	582419	5006760	T058	2102 ^(b)
JP	582585	5006760	T058	1963
JQ	581520	5006740	T035	1696
JR	582515	5006636	T058	1955
JS	581418	5004059	T069	1129
JT	580614	5003764	T069	1970
JU	580792	5003035	T069	2086 ^(b)
JV	580995	5002856	T069	2030 ^(b)
JW	581479	5002847	T077	1688
JX	581444	5002825	T077	1728
JY	581475	5002810	T077	1705
JZ	581541	5002611	T077	1731
K	588365	5013523	T004	1884
KA	581589	5002573	T077	1708
KB	581652	5002524	T077	1681
KC	581690	5002471	T077	1679
KD	581690	5002354	T077	1750
KE	581853	5002295	T077	1666
KF	582030	5002169	T077	1640
KG	582273	5002013	T077	1635
KH	582232	5001951	T077	1709
KI	582432	5001810	T077	1753
KJ	582548	5001802	T077	1723
KK	582616	5001702	T077	1801
KL	582657	5001678	T077	1814
KM	582728	5001621	T077	1856
KN	583112	5001563	T091	1736
KO	582845	5001552	T077	1908
KP	583077	5001551	T091	1772
KQ	583746	5000988	T091	1394
KR	583985	5000789	T091	1372
KS	584380	5000647	T091	1307
KT	584439	5000540	T091	1391
KU	584465	5000517	T091	1406
KV	584625	5000445	T091	1446
KW	584678	5000386	T091	1499
KX	584752	5000329	T091	1550

Table 2: Receptor Locations and Distance to Project Noise Sources

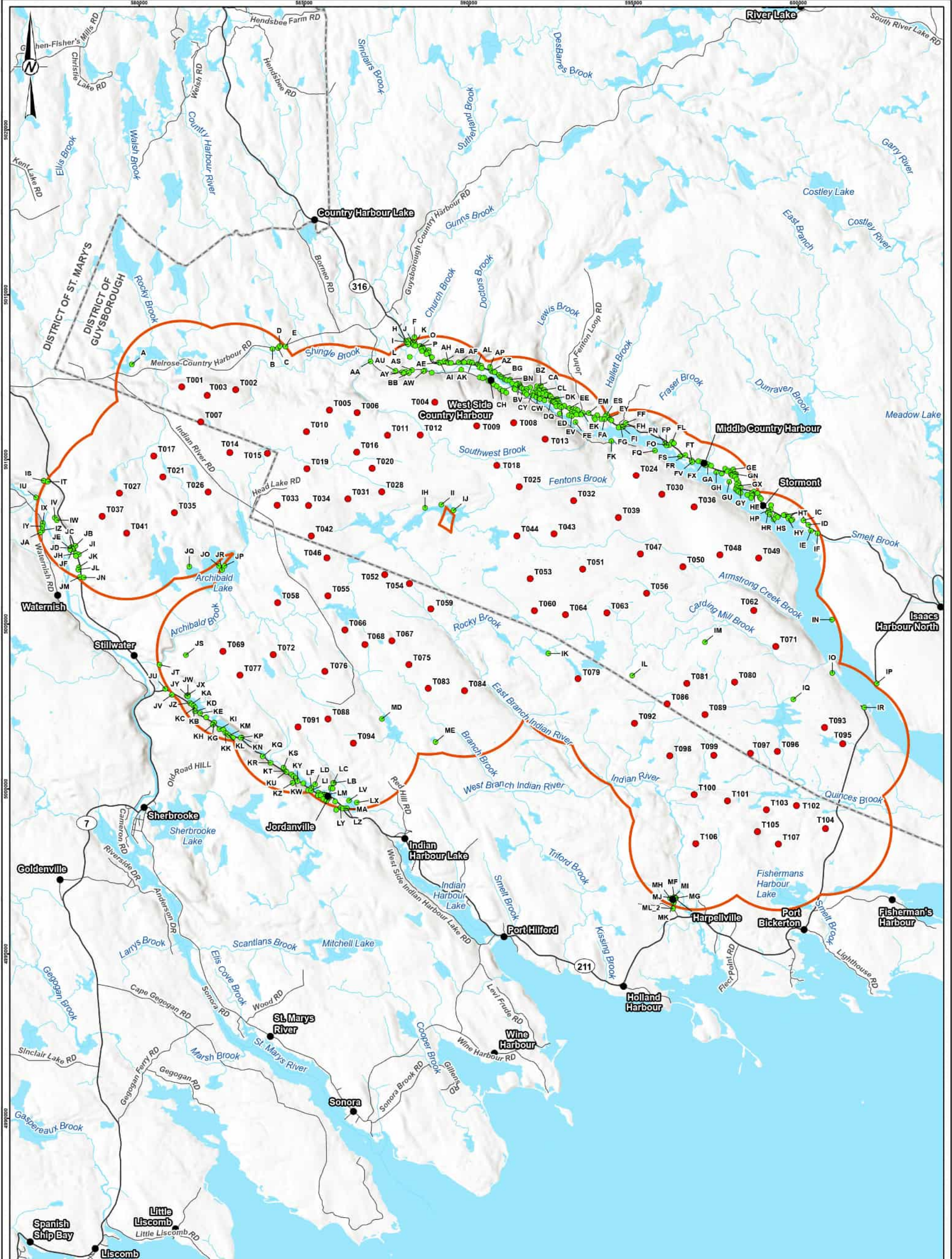
Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
KY	584800	5000240	T091	1638
KZ	584652	5000182	T091	1704
L	588158	5013500	T004	1940
LA	584981	5000171	T091	1715
LB	585913	5000183	T094	1339
LC	585886	5000180	T094	1354
LD	585338	5000139	T094	1704
LE	585811	5000035	T094	1517
LF	585223	5000027	T094	1864
LG	585869	5000014	T094	1511
LH	585120	4999962	T091	1939
LI	585214	4999949	T094	1928
LJ	585444	4999888	T094	1833
LK	585512	4999844	T094	1831
LL	585603	4999833	T094	1794
LM	585614	4999825	T094	1795
LN	585670	4999820	T094	1773
LO	585706	4999807	T094	1768
LP	585421	4999802	T094	1917
LQ	585508	4999803	T094	1868
LR	585691	4999746	T094	1829
LS	585757	4999724	T094	1821
LT	585585	4999697	T094	1921
LU	585682	4999642	T094	1927
LV	586364	4999648	T094	1745
LW	585947	4999616	T094	1855
LX	586604	4999591	T094	1800
LY	586113	4999438	T094	1987
LZ	586301	4999417	T094	1981
M	588323	5013479	T004	1857
MA	586200	4999415	T094	1995
MB	586154	4999406	T094	2011 ^(b)
MC	585976	4999367	T094	2087 ^(b)
MD	587365	5002124	T094	1138
ME	588992	5001424	T083	1641
MF	596229	4996719	T106	1751
MG	596288	4996694	T106	1753
MH	596110	4996689	T106	1826
MI	596177	4996688	T106	1799
MJ	596262	4996687	T106	1768
MJ_2	596225	4996579	T106	1883
MK	596217	4996551	T106	1912
MK_2	596173	4996637	T106	1848

Table 2: Receptor Locations and Distance to Project Noise Sources

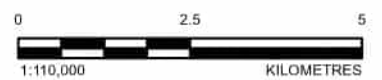
Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Noise Source	Distance to Closest Project Noise Source (m)
	Easting (m)	Northing (m)		
ML	596209	4996623	T106	1847
ML_2	596199	4996372	T106	2086 ^(b)
N	588375	5013451	T004	1813
O	588531	5013444	T004	1761
P	588515	5013442	T004	1763
Q	588598	5013415	T004	1717
R	588626	5013365	T004	1662
S	588558	5013349	T004	1662
T	588780	5013320	T004	1592
U	588579	5013285	T004	1595
V	588757	5013259	T004	1535
W	588787	5013241	T004	1513
X	588718	5013202	T004	1485
Y	588210	5013114	T004	1572
Z	588884	5013103	T004	1367

(a) The receptor identification codes are not sequential because some locations were removed during the planning process.

(b) This potential receptor is located more than 2 km from the nearest Project noise source but was maintained in the assessment in consideration of potential minor changes to turbine locations.



- LEGEND**
- COMMUNITY
 - POTENTIAL RECEPTOR
 - TURBINE LOCATION
 - HIGHWAY
 - LOCAL ROAD
 - MUNICIPAL BOUNDARY
 - WATERCOURSE
 - ▭ STUDY AREA
 - ▭ WATERBODY



REFERENCE(S)
 DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 DATUM: NAD83 PROJECTION: UTM ZONE 20

CLIENT
EVERWIND

PROJECT
HARBOUR HILLS WIND PROJECT



CONSULTANT	YYYY-MM-DD	2026-05-22
	DESIGNED	VY
	PREPARED	MV PT
	REVIEWED	VY
	APPROVED	NLH

TITLE
STUDY AREA

PROJECT NO.	CONTROL	REV.	FIGURE
CA006864.6287	1000	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN ON THE SHEET, THE SHEET SIZE HAS BEEN MODIFIED FROM A3 (841x1191mm)

4.2 Ambient Noise Levels

As discussed in Section 3 of this report, the 40 dBA threshold from the EA Guide (Nova Scotia 2024) applies to cumulative noise levels, which include the noise contribution from existing natural and anthropogenic sources (often called baseline or ambient noise levels), as well as the noise contribution from Project operations.

The Noise Guidelines indicate that measured ambient noise levels may sometimes be required in response to specific direction from Nova Scotia Environment and Climate Change (Nova Scotia 2023). However, in quiet rural environments (like the Project study area) where natural noise sources tend to dominate, environmental assessments often establish representative ambient noise levels using a desktop method from Health Canada’s *Guidance for Evaluating Human Health Effects in Impact Assessment: Noise* (Health Canada 2023), which will hereafter be referred to as the Health Canada Guidance.

The Health Canada Guidance indicates that an ambient noise level of 35 dBA is generally representative of a quiet rural environment during the nighttime period (Health Canada 2023). The Project noise assessment made use of this representative ambient noise level when assessing potential effects at all potential receptors.

4.3 Noise Prediction Methodology

A computer model for the Project noise assessment was developed using the CadnaA® software package, which implements the noise propagation algorithm described in the International Organization for Standardization (ISO) 9613-2 technical standard (ISO 2024). The computer model was used to predict noise levels from operation of the Project. Inputs to the computer noise model consisted of source emissions in the form of octave band sound power levels and environmental conditions that are known to influence noise propagation (e.g., ground cover, temperature, humidity, wind conditions). A summary of environmental inputs to the computer models is provided in Table 3.

Table 3: Noise Model Inputs

Parameter	Model Setting	Description / Notes
Standard	ISO 9613-2 (ISO 2024)	Model treated noise sources and noise propagation in accordance with this standard.
Ground Factor	0.0 – lakes and waterbodies 0.7 – elsewhere in the study area	This value represents the acoustic properties of the ground. A value of 0.0 indicates hard/reflective ground. A value of 1.0 indicates porous/absorptive ground. Values between 0.0 and 1.0 represent a mixture of hard and porous ground.
Temperature	10°C	This is the typical default value for ISO 9613-2 modelling intended to represent nighttime summer conditions.
Relative Humidity	70%	This is the typical default value for ISO 9613-2 modelling intended to represent nighttime summer conditions.
Wind Conditions	1 to 5 m/s from source to receptor	These represent default ISO 9613-2 wind conditions – moderate temperature inversion, wind from source to receptor 100% of the time.
Terrain	included	Model included terrain based on ground elevation contours at 5 m intervals.

When calculating noise levels at receptors, the ISO 9613-2 algorithm used the environmental inputs listed in Table 3 to account for four noise attenuation mechanisms:

- geometric divergence
- atmospheric absorption
- ground absorption
- screening by barriers

Geometric divergence accounts for the fact that a given noise source radiates a finite amount of acoustic energy and as this finite amount of energy propagates into the environment it is spread out over a larger and larger area (i.e., the surface of an ever-expanding sphere). This geometric spreading means that the farther away a receptor is located from a source, the less energy will be received (i.e., the lower the observed noise level).

Atmospheric absorption accounts for the fact that the acoustic energy associated with a given noise source is absorbed via interaction with molecules in the air through which it propagates. Attenuation effects associated with atmospheric absorption are most substantial at high frequencies but can be important at lower frequencies when propagation distances are large.

Ground absorption accounts for the fact that each time the acoustic energy emitted by a noise source interacts with the ground some of it is absorbed. The amount of energy absorbed depends on the type of ground surface. During interactions with hard ground very little energy is absorbed but during interactions with porous ground a substantial amount of energy is absorbed. As a result, if all other factors are held constant, observed noise levels associated with sources operating in an area of hard ground will be higher than observed noise levels associated with sources operating in an area of porous ground.

Screening by barriers accounts for the fact that a physical object (either terrain-based or anthropogenic) placed between a noise source and receptor can block acoustic energy and reduce observed noise levels at the receptor.

According to the ISO 9613-2 standard, the overall accuracy of the propagation algorithm used in the Project noise assessment computer models is ± 3 dBA for distances between source and receptor up to 1 km (ISO 2024). The accuracy for propagation distances greater than 1 km is not stated in the standard. Model accuracy also depends on the accuracy of the noise emissions inputs, which is often ± 2 dBA. Accounting for both these independent sources of uncertainty, the overall accuracy of the noise levels predictions presented in the Project noise assessment is expected to be ± 3.6 dBA. Several conservative assumptions regarding propagation conditions, Project operations, and Project noise emissions were made to account for this level of uncertainty.

Each potential receptor was assumed to be downwind from each source 100% of the time. Because downwind conditions tend to enhance noise propagation, this assumption is conservative and likely overestimates noise effects from the Project.

The Project wind turbines were modelled with maximum noise emissions 100% of the time. Because Project turbines will often operate with less than maximum noise emissions (e.g., during periods of relatively low wind), this approach is conservative and likely overestimates noise effects from the Project.

Terrain features were the only acoustical screening elements considered in the computer models. Acoustical screening from anthropogenic features (e.g., buildings) and vegetation (e.g., the dense forest that covers most of the study area) was not considered in the computer models. This is a conservative approach that will tend to overestimate noise effects from the Project.

5 NOISE EMISSIONS

As discussed in Section 2, Project noise sources consist of 90 Goldwind GWH182 8.0-MW wind turbines with STE blades and pad-mounted transformers. All Project sources were modelled with maximum planned noise emissions.

Noise emissions for the Project wind turbines were provided by Goldwind (the manufacturer) in the form of one-third octave band sound power levels. As discussed in Section 3.2 of this report, the Noise Guidelines provide a test for identifying low frequency tonal components in one-third octave band data (Nova Scotia 2023). WSP applied this test to the emissions data provided by Goldwind and found no tonal components associated with the Project wind turbines. Therefore, Project wind turbines cannot produce LFN issues as defined in Noise Guidelines (Nova Scotia 2023).

As discussed in Section 4.3, computer modelling in accordance with ISO 9613-2 requires that noise emissions be specified in the form of octave band sound power levels. To facilitate computer modelling, WSP processed the one-third octave band data provided by Goldwind to obtain octave band sound power levels for frequency bands from 31.5 to 8 kilohertz (kHz).

Table 4 presents noise emissions values used to model Project sources. All noise emissions values are presented in the form of octave band sound power levels, expressed in unweighted decibels (dBZ), and total sound power levels expressed in dBA.

Table 4: Project Noise Emissions

Source	Operating Mode	Octave Band Sound Power Level (dBZ)								Total Sound Power Level (dBA)	
		31.5 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz		8 kHz
Goldwind GWH182 8.0-MW wind turbine with STE blades	SRM4s ^(a)	111.0	113.3	113.2	109.4	104.4	99.7	94.3	88.4	81.5	106.5
wind turbine pad-mounted transformer	KNAN ^(b)	90.9	96.9	98.9	93.9	93.9	87.9	82.9	77.9	70.9	94.3

(a) SRM4s = Sound Reduction Mode 4 with STE blades.

(b) KNAN = Natural Air Cooling and Non-Mineral Oil.

6 ASSESSMENT RESULTS

6.1 Broadband Noise – Operations

For each potential receptor, Table 5 presents predicted noise levels from Project operations and cumulative noise levels calculated by summing predicted Project noise levels with representative ambient noise levels. Figure 2 presents predicted cumulative noise levels for the entire study area.

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
A	32.4	35	36.9
AA	34.3	35	37.7
AB	34.3	35	37.7
AC	33.3	35	37.2
AD	33.6	35	37.4
AE	34.7	35	37.9
AF	33.9	35	37.5
AG	33.6	35	37.4
AH	34.4	35	37.7
AI	34.7	35	37.9
AJ	34.3	35	37.7
AK	33.4	35	37.3
AL	33.3	35	37.2
AM	33.3	35	37.2
AN	33.5	35	37.3
AO	33.5	35	37.3
AP	33.3	35	37.2
AQ	33.7	35	37.4
AR	33.8	35	37.5
AS	35.5	35	38.3
AT	34.7	35	37.9

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
AU	35.3	35	38.2
AV	36.0	35	38.5
AW	36.1	35	38.6
AX	35.3	35	38.2
AY	35.1	35	38.1
AZ	33.8	35	37.5
B	33.3	35	37.2
BA	33.9	35	37.5
BB	35.5	35	38.3
BC	34.0	35	37.5
BD	35.1	35	38.1
BE	33.9	35	37.5
BF	34.2	35	37.6
BG	34.4	35	37.7
BH	35.0	35	38.0
BI	34.5	35	37.8
BJ	35.0	35	38.0
BK	35.0	35	38.0
BL	34.8	35	37.9
BM	34.9	35	38.0
BN	34.8	35	37.9
BO	35.0	35	38.0
BP	35.2	35	38.1
BQ	35.0	35	38.0
BR	35.3	35	38.2
BS	35.4	35	38.2
BT	35.3	35	38.2
BU	34.6	35	37.8
BV	35.2	35	38.1
BW	35.5	35	38.3
BX	35.5	35	38.3
BY	35.6	35	38.3
BZ	34.4	35	37.7
C	32.9	35	37.1
CA	34.7	35	37.9
CB	35.7	35	38.4
CC	35.9	35	38.5
CD	35.4	35	38.2
CE	36.0	35	38.5
CF	36.2	35	38.7
CG	36.2	35	38.7
CH	35.6	35	38.3
CI	35.9	35	38.5
CJ	36.3	35	38.7
CK	35.2	35	38.1
CL	34.8	35	37.9
CM	35.3	35	38.2
CN	36.7	35	38.9

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
CO	35.8	35	38.4
CP	35.5	35	38.3
CQ	35.3	35	38.2
CR	37.0	35	39.1
CS	35.0	35	38.0
CT	37.5	35	39.4
CU	37.0	35	39.1
CV	35.8	35	38.4
CW	35.7	35	38.4
CX	37.9	35	39.7
CY	36.5	35	38.8
CZ	35.3	35	38.2
D	32.7	35	37.0
DA	35.5	35	38.3
DB	35.8	35	38.4
DC	38.3	35	40.0
DD	35.1	35	38.1
DE	35.4	35	38.2
DF	37.5	35	39.4
DG	35.2	35	38.1
DH	35.2	35	38.1
DI	37.5	35	39.4
DJ	37.3	35	39.3
DK	35.4	35	38.2
DL	37.8	35	39.6
DM	35.0	35	38.0
DN	37.7	35	39.6
DO	35.4	35	38.2
DP	35.2	35	38.1
DQ	36.3	35	38.7
DR	35.2	35	38.1
DS	36.2	35	38.7
DT	36.3	35	38.7
DU	36.2	35	38.7
DV	35.5	35	38.3
DW	36.0	35	38.5
DX	35.5	35	38.3
DY	36.5	35	38.8
DZ	36.2	35	38.7
E	32.7	35	37.0
EA	35.3	35	38.2
EB	37.3	35	39.3
EC	36.1	35	38.6
ED	36.2	35	38.7
EE	35.1	35	38.1
EF	34.8	35	37.9
EG	34.5	35	37.8
EH	34.5	35	37.8

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
EI	35.3	35	38.2
EJ	35.0	35	38.0
EK	34.2	35	37.6
EL	35.2	35	38.1
EM	33.6	35	37.4
EN	37.2	35	39.2
EO	35.9	35	38.5
EP	34.6	35	37.8
EQ	35.1	35	38.1
ER	34.5	35	37.8
ES	32.5	35	36.9
ET	37.1	35	39.2
EU	33.1	35	37.2
EV	36.4	35	38.8
EW	32.8	35	37.0
EX	33.5	35	37.3
EY	32.8	35	37.0
EZ	33.2	35	37.2
F	30.9	35	36.4
FA	33.1	35	37.2
FB	33.6	35	37.4
FC	32.9	35	37.1
FD	33.0	35	37.1
FE	36.1	35	38.6
FF	33.2	35	37.2
FG	34.9	35	38.0
FH	34.8	35	37.9
FI	35.4	35	38.2
FJ	35.7	35	38.4
FK	35.3	35	38.2
FL	34.2	35	37.6
FM	34.3	35	37.7
FN	35.4	35	38.2
FO	34.9	35	38.0
FP	35.1	35	38.1
FQ	37.1	35	39.2
FR	35.1	35	38.1
FS	35.7	35	38.4
FT	35.4	35	38.2
FU	34.9	35	38.0
FV	35.6	35	38.3
FW	34.7	35	37.9
FX	34.6	35	37.8
FY	34.6	35	37.8
FZ	34.5	35	37.8
G	31.4	35	36.6
GA	34.5	35	37.8
GB	34.9	35	38.0

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
GC	34.3	35	37.7
GD	33.3	35	37.2
GE	32.6	35	37.0
GF	33.2	35	37.2
GG	33.4	35	37.3
GH	34.8	35	37.9
GI	33.2	35	37.2
GJ	34.3	35	37.7
GK	32.8	35	37.0
GL	33.2	35	37.2
GM	33.1	35	37.2
GN	33.0	35	37.1
GO	33.4	35	37.3
GP	33.4	35	37.3
GQ	32.9	35	37.1
GR	33.4	35	37.3
GS	33.2	35	37.2
GT	33.3	35	37.2
GU	34.4	35	37.7
GV	33.4	35	37.3
GW	33.8	35	37.5
GX	33.7	35	37.4
GY	33.7	35	37.4
GZ	34.5	35	37.8
H	31.4	35	36.6
HA	35.6	35	38.3
HB	36.1	35	38.6
HC	35.5	35	38.3
HD	36.1	35	38.6
HE	32.8	35	37.0
HF	36.0	35	38.5
HG	32.6	35	37.0
HH	33.4	35	37.3
HI	35.2	35	38.1
HJ	33.6	35	37.4
HK	34.1	35	37.6
HL	33.0	35	37.1
HM	35.5	35	38.3
HN	33.2	35	37.2
HO	33.1	35	37.2
HP	35.2	35	38.1
HQ	35.5	35	38.3
HR	35.7	35	38.4
HS	35.8	35	38.4
HT	33.1	35	37.2
HU	33.9	35	37.5
HV	35.5	35	38.3
HW	32.7	35	37.0

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
HX	35.5	35	38.3
HY	33.9	35	37.5
HZ	36.1	35	38.6
I	31.6	35	36.6
IA	33.0	35	37.1
IB	33.9	35	37.5
IC	30.7	35	36.4
ID	30.5	35	36.3
IE	31.0	35	36.5
IF	29.9	35	36.2
IH	37.0	35	39.1
II	38.0	35	39.8
IJ	38.1	35	39.8
IK	38.1	35	39.8
IL	37.4	35	39.4
IM	37.3	35	39.3
IN	31.6	35	36.6
IO	33.6	35	37.4
IP	31.2	35	36.5
IQ	37.2	35	39.2
IR	34.9	35	38.0
IS	29.9	35	36.2
IT	30.9	35	36.4
IU	29.4	35	36.1
IV	32.6	35	37.0
IW	31.4	35	36.6
IX	30.5	35	36.3
IY	30.4	35	36.3
IZ	30.5	35	36.3
J	31.6	35	36.6
JA	29.9	35	36.2
JB	34.5	35	37.8
JC	33.7	35	37.4
JD	33.7	35	37.4
JE	33.3	35	37.2
JF	33.6	35	37.4
JG	33.2	35	37.2
JH	33.5	35	37.3
JI	33.8	35	37.5
JJ	33.2	35	37.2
JK	32.1	35	36.8
JL	31.7	35	36.7
JM	31.1	35	36.5
JN	31.3	35	36.5
JO	36.8	35	39.0
JP	37.0	35	39.1
JQ	35.8	35	38.4
JR	36.9	35	39.1

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
JS	34.8	35	37.9
JT	29.8	35	36.1
JU	29.5	35	36.1
JV	30.0	35	36.2
JW	32.1	35	36.8
JX	31.9	35	36.7
JY	32.0	35	36.8
JZ	32.7	35	37.0
K	31.8	35	36.7
KA	33.0	35	37.1
KB	33.6	35	37.4
KC	33.6	35	37.4
KD	32.2	35	36.8
KE	32.5	35	36.9
KF	32.1	35	36.8
KG	33.4	35	37.3
KH	33.3	35	37.2
KI	33.5	35	37.3
KJ	34.1	35	37.6
KK	33.9	35	37.5
KL	34.0	35	37.5
KM	34.0	35	37.5
KN	30.5	35	36.3
KO	34.1	35	37.6
KP	31.8	35	36.7
KQ	34.4	35	37.7
KR	33.3	35	37.2
KS	33.7	35	37.4
KT	33.9	35	37.5
KU	34.2	35	37.6
KV	34.0	35	37.5
KW	34.7	35	37.9
KX	34.8	35	37.9
KY	33.7	35	37.4
KZ	32.0	35	36.8
L	31.8	35	36.7
LA	32.5	35	36.9
LB	33.7	35	37.4
LC	33.6	35	37.4
LD	32.8	35	37.0
LE	32.8	35	37.0
LF	32.1	35	36.8
LG	32.8	35	37.0
LH	31.7	35	36.7
LI	31.7	35	36.7
LJ	31.5	35	36.6
LK	31.4	35	36.6
LL	31.4	35	36.6

Table 5: Predicted Project and Cumulative Noise Levels

Receptor Identification Code	Project Noise Level – Operations (dBA)	Ambient Noise Level (dBA)	Cumulative Noise Level ^(a) (dBA)
LM	31.4	35	36.6
LN	31.4	35	36.6
LO	31.4	35	36.6
LP	31.1	35	36.5
LQ	31.2	35	36.5
LR	31.1	35	36.5
LS	31.0	35	36.5
LT	30.8	35	36.4
LU	30.6	35	36.3
LV	31.1	35	36.5
LW	30.6	35	36.3
LX	30.3	35	36.3
LY	29.6	35	36.1
LZ	31.4	35	36.6
M	32.0	35	36.8
MA	29.5	35	36.1
MB	29.3	35	36.0
MC	29.1	35	36.0
MD	37.3	35	39.3
ME	33.5	35	37.3
MF	30.8	35	36.4
MG	30.8	35	36.4
MH	30.2	35	36.2
MI	30.5	35	36.3
MJ	30.7	35	36.4
MJ_2	30.0	35	36.2
MK	29.9	35	36.2
MK_2	30.2	35	36.2
ML	30.2	35	36.2
ML_2	29.2	35	36.0
N	32.1	35	36.8
O	32.1	35	36.8
P	32.1	35	36.8
Q	32.2	35	36.8
R	32.5	35	36.9
S	32.5	35	36.9
T	32.8	35	37.0
U	32.9	35	37.1
V	33.0	35	37.1
W	33.1	35	37.2
X	33.3	35	37.2
Y	33.6	35	37.4
Z	33.8	35	37.5

(a) Cumulative noise level is the sum of the predicted Project noise level and the ambient noise level.



LEGEND

- COMMUNITY
- POTENTIAL RECEPTOR
- TURBINE LOCATION
- HIGHWAY
- LOCAL ROAD
- MUNICIPAL BOUNDARY
- WATERCOURSE
- CUMULATIVE NOISE LEVEL ≥ 40 dBA
- ▭ STUDY AREA
- WATERBODY



REFERENCE(S)
 DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 DATUM: NAD83 PROJECTION: UTM ZONE 20

CLIENT
EVERWIND

PROJECT
HARBOUR HILLS WIND PROJECT



CONSULTANT	YYYY-MM-DD	2026-05-22
DESIGNED		VY
PREPARED		MV PT
REVIEWED		VY
APPROVED		NLH

TITLE
CUMULATIVE NOISE LEVELS

PROJECT NO.	CONTROL	REV.	FIGURE
CA006864.6287	1000	0	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A4 (210x297mm)

Table 6 assesses Project compliance with the EA Guide (Nova Scotia 2024) by comparing cumulative noise levels during Project operations to the 40 dBA noise threshold. The results presented in Table 6 demonstrate that cumulative noise levels are predicted to comply with the EA Guide (Nova Scotia 2024) at all potential receptors.

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
A	36.9	40	3.1	compliant
AA	37.7	40	2.3	compliant
AB	37.7	40	2.3	compliant
AC	37.2	40	2.8	compliant
AD	37.4	40	2.6	compliant
AE	37.9	40	2.1	compliant
AF	37.5	40	2.5	compliant
AG	37.4	40	2.6	compliant
AH	37.7	40	2.3	compliant
AI	37.9	40	2.1	compliant
AJ	37.7	40	2.3	compliant
AK	37.3	40	2.7	compliant
AL	37.2	40	2.8	compliant
AM	37.2	40	2.8	compliant
AN	37.3	40	2.7	compliant
AO	37.3	40	2.7	compliant
AP	37.2	40	2.8	compliant
AQ	37.4	40	2.6	compliant
AR	37.5	40	2.5	compliant
AS	38.3	40	1.7	compliant
AT	37.9	40	2.1	compliant
AU	38.2	40	1.8	compliant
AV	38.5	40	1.5	compliant
AW	38.6	40	1.4	compliant
AX	38.2	40	1.8	compliant
AY	38.1	40	1.9	compliant
AZ	37.5	40	2.5	compliant
B	37.2	40	2.8	compliant
BA	37.5	40	2.5	compliant
BB	38.3	40	1.7	compliant
BC	37.5	40	2.5	compliant
BD	38.1	40	1.9	compliant
BE	37.5	40	2.5	compliant
BF	37.6	40	2.4	compliant
BG	37.7	40	2.3	compliant
BH	38.0	40	2.0	compliant
BI	37.8	40	2.2	compliant
BJ	38.0	40	2.0	compliant
BK	38.0	40	2.0	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
BL	37.9	40	2.1	compliant
BM	38.0	40	2.0	compliant
BN	37.9	40	2.1	compliant
BO	38.0	40	2.0	compliant
BP	38.1	40	1.9	compliant
BQ	38.0	40	2.0	compliant
BR	38.2	40	1.8	compliant
BS	38.2	40	1.8	compliant
BT	38.2	40	1.8	compliant
BU	37.8	40	2.2	compliant
BV	38.1	40	1.9	compliant
BW	38.3	40	1.7	compliant
BX	38.3	40	1.7	compliant
BY	38.3	40	1.7	compliant
BZ	37.7	40	2.3	compliant
C	37.1	40	2.9	compliant
CA	37.9	40	2.1	compliant
CB	38.4	40	1.6	compliant
CC	38.5	40	1.5	compliant
CD	38.2	40	1.8	compliant
CE	38.5	40	1.5	compliant
CF	38.7	40	1.3	compliant
CG	38.7	40	1.3	compliant
CH	38.3	40	1.7	compliant
CI	38.5	40	1.5	compliant
CJ	38.7	40	1.3	compliant
CK	38.1	40	1.9	compliant
CL	37.9	40	2.1	compliant
CM	38.2	40	1.8	compliant
CN	38.9	40	1.1	compliant
CO	38.4	40	1.6	compliant
CP	38.3	40	1.7	compliant
CQ	38.2	40	1.8	compliant
CR	39.1	40	0.9	compliant
CS	38.0	40	2.0	compliant
CT	39.4	40	0.6	compliant
CU	39.1	40	0.9	compliant
CV	38.4	40	1.6	compliant
CW	38.4	40	1.6	compliant
CX	39.7	40	0.3	compliant
CY	38.8	40	1.2	compliant
CZ	38.2	40	1.8	compliant
D	37.0	40	3.0	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
DA	38.3	40	1.7	compliant
DB	38.4	40	1.6	compliant
DC	40.0	40	0.0	compliant
DD	38.1	40	1.9	compliant
DE	38.2	40	1.8	compliant
DF	39.4	40	0.6	compliant
DG	38.1	40	1.9	compliant
DH	38.1	40	1.9	compliant
DI	39.4	40	0.6	compliant
DJ	39.3	40	0.7	compliant
DK	38.2	40	1.8	compliant
DL	39.6	40	0.4	compliant
DM	38.0	40	2.0	compliant
DN	39.6	40	0.4	compliant
DO	38.2	40	1.8	compliant
DP	38.1	40	1.9	compliant
DQ	38.7	40	1.3	compliant
DR	38.1	40	1.9	compliant
DS	38.7	40	1.3	compliant
DT	38.7	40	1.3	compliant
DU	38.7	40	1.3	compliant
DV	38.3	40	1.7	compliant
DW	38.5	40	1.5	compliant
DX	38.3	40	1.7	compliant
DY	38.8	40	1.2	compliant
DZ	38.7	40	1.3	compliant
E	37.0	40	3.0	compliant
EA	38.2	40	1.8	compliant
EB	39.3	40	0.7	compliant
EC	38.6	40	1.4	compliant
ED	38.7	40	1.3	compliant
EE	38.1	40	1.9	compliant
EF	37.9	40	2.1	compliant
EG	37.8	40	2.2	compliant
EH	37.8	40	2.2	compliant
EI	38.2	40	1.8	compliant
EJ	38.0	40	2.0	compliant
EK	37.6	40	2.4	compliant
EL	38.1	40	1.9	compliant
EM	37.4	40	2.6	compliant
EN	39.2	40	0.8	compliant
EO	38.5	40	1.5	compliant
EP	37.8	40	2.2	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
EQ	38.1	40	1.9	compliant
ER	37.8	40	2.2	compliant
ES	36.9	40	3.1	compliant
ET	39.2	40	0.8	compliant
EU	37.2	40	2.8	compliant
EV	38.8	40	1.2	compliant
EW	37.0	40	3.0	compliant
EX	37.3	40	2.7	compliant
EY	37.0	40	3.0	compliant
EZ	37.2	40	2.8	compliant
F	36.4	40	3.6	compliant
FA	37.2	40	2.8	compliant
FB	37.4	40	2.6	compliant
FC	37.1	40	2.9	compliant
FD	37.1	40	2.9	compliant
FE	38.6	40	1.4	compliant
FF	37.2	40	2.8	compliant
FG	38.0	40	2.0	compliant
FH	37.9	40	2.1	compliant
FI	38.2	40	1.8	compliant
FJ	38.4	40	1.6	compliant
FK	38.2	40	1.8	compliant
FL	37.6	40	2.4	compliant
FM	37.7	40	2.3	compliant
FN	38.2	40	1.8	compliant
FO	38.0	40	2.0	compliant
FP	38.1	40	1.9	compliant
FQ	39.2	40	0.8	compliant
FR	38.1	40	1.9	compliant
FS	38.4	40	1.6	compliant
FT	38.2	40	1.8	compliant
FU	38.0	40	2.0	compliant
FV	38.3	40	1.7	compliant
FW	37.9	40	2.1	compliant
FX	37.8	40	2.2	compliant
FY	37.8	40	2.2	compliant
FZ	37.8	40	2.2	compliant
G	36.6	40	3.4	compliant
GA	37.8	40	2.2	compliant
GB	38.0	40	2.0	compliant
GC	37.7	40	2.3	compliant
GD	37.2	40	2.8	compliant
GE	37.0	40	3.0	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
GF	37.2	40	2.8	compliant
GG	37.3	40	2.7	compliant
GH	37.9	40	2.1	compliant
GI	37.2	40	2.8	compliant
GJ	37.7	40	2.3	compliant
GK	37.0	40	3.0	compliant
GL	37.2	40	2.8	compliant
GM	37.2	40	2.8	compliant
GN	37.1	40	2.9	compliant
GO	37.3	40	2.7	compliant
GP	37.3	40	2.7	compliant
GQ	37.1	40	2.9	compliant
GR	37.3	40	2.7	compliant
GS	37.2	40	2.8	compliant
GT	37.2	40	2.8	compliant
GU	37.7	40	2.3	compliant
GV	37.3	40	2.7	compliant
GW	37.5	40	2.5	compliant
GX	37.4	40	2.6	compliant
GY	37.4	40	2.6	compliant
GZ	37.8	40	2.2	compliant
H	36.6	40	3.4	compliant
HA	38.3	40	1.7	compliant
HB	38.6	40	1.4	compliant
HC	38.3	40	1.7	compliant
HD	38.6	40	1.4	compliant
HE	37.0	40	3.0	compliant
HF	38.5	40	1.5	compliant
HG	37.0	40	3.0	compliant
HH	37.3	40	2.7	compliant
HI	38.1	40	1.9	compliant
HJ	37.4	40	2.6	compliant
HK	37.6	40	2.4	compliant
HL	37.1	40	2.9	compliant
HM	38.3	40	1.7	compliant
HN	37.2	40	2.8	compliant
HO	37.2	40	2.8	compliant
HP	38.1	40	1.9	compliant
HQ	38.3	40	1.7	compliant
HR	38.4	40	1.6	compliant
HS	38.4	40	1.6	compliant
HT	37.2	40	2.8	compliant
HU	37.5	40	2.5	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
HV	38.3	40	1.7	compliant
HW	37.0	40	3.0	compliant
HX	38.3	40	1.7	compliant
HY	37.5	40	2.5	compliant
HZ	38.6	40	1.4	compliant
I	36.6	40	3.4	compliant
IA	37.1	40	2.9	compliant
IB	37.5	40	2.5	compliant
IC	36.4	40	3.6	compliant
ID	36.3	40	3.7	compliant
IE	36.5	40	3.5	compliant
IF	36.2	40	3.8	compliant
IH	39.1	40	0.9	compliant
II	39.8	40	0.2	compliant
IJ	39.8	40	0.2	compliant
IK	39.8	40	0.2	compliant
IL	39.4	40	0.6	compliant
IM	39.3	40	0.7	compliant
IN	36.6	40	3.4	compliant
IO	37.4	40	2.6	compliant
IP	36.5	40	3.5	compliant
IQ	39.2	40	0.8	compliant
IR	38.0	40	2.0	compliant
IS	36.2	40	3.8	compliant
IT	36.4	40	3.6	compliant
IU	36.1	40	3.9	compliant
IV	37.0	40	3.0	compliant
IW	36.6	40	3.4	compliant
IX	36.3	40	3.7	compliant
IY	36.3	40	3.7	compliant
IZ	36.3	40	3.7	compliant
J	36.6	40	3.4	compliant
JA	36.2	40	3.8	compliant
JB	37.8	40	2.2	compliant
JC	37.4	40	2.6	compliant
JD	37.4	40	2.6	compliant
JE	37.2	40	2.8	compliant
JF	37.4	40	2.6	compliant
JG	37.2	40	2.8	compliant
JH	37.3	40	2.7	compliant
JI	37.5	40	2.5	compliant
JJ	37.2	40	2.8	compliant
JK	36.8	40	3.2	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
JL	36.7	40	3.3	compliant
JM	36.5	40	3.5	compliant
JN	36.5	40	3.5	compliant
JO	39.0	40	1.0	compliant
JP	39.1	40	0.9	compliant
JQ	38.4	40	1.6	compliant
JR	39.1	40	0.9	compliant
JS	37.9	40	2.1	compliant
JT	36.1	40	3.9	compliant
JU	36.1	40	3.9	compliant
JV	36.2	40	3.8	compliant
JW	36.8	40	3.2	compliant
JX	36.7	40	3.3	compliant
JY	36.8	40	3.2	compliant
JZ	37.0	40	3.0	compliant
K	36.7	40	3.3	compliant
KA	37.1	40	2.9	compliant
KB	37.4	40	2.6	compliant
KC	37.4	40	2.6	compliant
KD	36.8	40	3.2	compliant
KE	36.9	40	3.1	compliant
KF	36.8	40	3.2	compliant
KG	37.3	40	2.7	compliant
KH	37.2	40	2.8	compliant
KI	37.3	40	2.7	compliant
KJ	37.6	40	2.4	compliant
KK	37.5	40	2.5	compliant
KL	37.5	40	2.5	compliant
KM	37.5	40	2.5	compliant
KN	36.3	40	3.7	compliant
KO	37.6	40	2.4	compliant
KP	36.7	40	3.3	compliant
KQ	37.7	40	2.3	compliant
KR	37.2	40	2.8	compliant
KS	37.4	40	2.6	compliant
KT	37.5	40	2.5	compliant
KU	37.6	40	2.4	compliant
KV	37.5	40	2.5	compliant
KW	37.9	40	2.1	compliant
KX	37.9	40	2.1	compliant
KY	37.4	40	2.6	compliant
KZ	36.8	40	3.2	compliant
L	36.7	40	3.3	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
LA	36.9	40	3.1	compliant
LB	37.4	40	2.6	compliant
LC	37.4	40	2.6	compliant
LD	37.0	40	3.0	compliant
LE	37.0	40	3.0	compliant
LF	36.8	40	3.2	compliant
LG	37.0	40	3.0	compliant
LH	36.7	40	3.3	compliant
LI	36.7	40	3.3	compliant
LJ	36.6	40	3.4	compliant
LK	36.6	40	3.4	compliant
LL	36.6	40	3.4	compliant
LM	36.6	40	3.4	compliant
LN	36.6	40	3.4	compliant
LO	36.6	40	3.4	compliant
LP	36.5	40	3.5	compliant
LQ	36.5	40	3.5	compliant
LR	36.5	40	3.5	compliant
LS	36.5	40	3.5	compliant
LT	36.4	40	3.6	compliant
LU	36.3	40	3.7	compliant
LV	36.5	40	3.5	compliant
LW	36.3	40	3.7	compliant
LX	36.3	40	3.7	compliant
LY	36.1	40	3.9	compliant
LZ	36.6	40	3.4	compliant
M	36.8	40	3.2	compliant
MA	36.1	40	3.9	compliant
MB	36.0	40	4.0	compliant
MC	36.0	40	4.0	compliant
MD	39.3	40	0.7	compliant
ME	37.3	40	2.7	compliant
MF	36.4	40	3.6	compliant
MG	36.4	40	3.6	compliant
MH	36.2	40	3.8	compliant
MI	36.3	40	3.7	compliant
MJ	36.4	40	3.6	compliant
MJ_2	36.2	40	3.8	compliant
MK	36.2	40	3.8	compliant
MK_2	36.2	40	3.8	compliant
ML	36.2	40	3.8	compliant
ML_2	36.0	40	4.0	compliant
N	36.8	40	3.2	compliant

Table 6: Compliance Assessment

Receptor Identification Code	Cumulative Noise Level (dBA)	EA Guide Noise Threshold (dBA)	Margin of Compliance ^(a) (dBA)	Assessment
O	36.8	40	3.2	compliant
P	36.8	40	3.2	compliant
Q	36.8	40	3.2	compliant
R	36.9	40	3.1	compliant
S	36.9	40	3.1	compliant
T	37.0	40	3.0	compliant
U	37.1	40	2.9	compliant
V	37.1	40	2.9	compliant
W	37.2	40	2.8	compliant
X	37.2	40	2.8	compliant
Y	37.4	40	2.6	compliant
Z	37.5	40	2.5	compliant

(a) Margin of compliance is the difference between the noise threshold (i.e., 40 dBA) and the predicted cumulative noise level. A margin of compliance ≥ 0 dBA indicates the Project is compliant with the EA Guide (Nova Scotia 2024).

6.2 Low Frequency Noise

As discussed in Section 3.2 of this report, the Noise Guidelines provide a two-part quantitative test for identifying and accounting for LFN issues (Nova Scotia 2023). The Project noise assessment made use of the two-part test from the Noise Guidelines to assess potential LFN effects from the Project.

According to the Noise Guidelines, an LFN issue exists if the difference between dBA and dBC noise levels is ≥ 20 **and** there is a low frequency tonal component in at least one of the one-third octave bands. Both parts of the two-part test must be satisfied for a LFN issue to exist.

As discussed in Section 5 of this report, the second part of the LFN test was applied to the one-third octave band emissions spectrum from the Project wind turbines, and no tonal components were identified. As such, the Project is not expected to produce LFN issues as defined in the Noise Guidelines (Nova Scotia 2023). Nevertheless, Table 7 presents predicted Project noise levels expressed in dBA and predicted Project noise levels expressed in dBC and compares the difference between dBC and dBA levels to the threshold value from the first part of the LFN test. Table 7 indicates the difference between dBC and dBA noise levels is less than 20 at all potential receptors.

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
A	32.4	48.1	15.7	20	no	no LFN issue
AA	34.3	50.0	15.7	20	no	no LFN issue
AB	34.3	49.7	15.4	20	no	no LFN issue
AC	33.3	49.0	15.7	20	no	no LFN issue
AD	33.6	49.2	15.6	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
AE	34.7	50.0	15.3	20	no	no LFN issue
AF	33.9	49.3	15.4	20	no	no LFN issue
AG	33.6	49.2	15.6	20	no	no LFN issue
AH	34.4	49.8	15.4	20	no	no LFN issue
AI	34.7	49.9	15.2	20	no	no LFN issue
AJ	34.3	49.7	15.4	20	no	no LFN issue
AK	33.4	49.0	15.6	20	no	no LFN issue
AL	33.3	49.0	15.7	20	no	no LFN issue
AM	33.3	49.0	15.7	20	no	no LFN issue
AN	33.5	49.1	15.6	20	no	no LFN issue
AO	33.5	49.2	15.7	20	no	no LFN issue
AP	33.3	48.9	15.6	20	no	no LFN issue
AQ	33.7	49.3	15.6	20	no	no LFN issue
AR	33.8	49.4	15.6	20	no	no LFN issue
AS	35.5	50.8	15.3	20	no	no LFN issue
AT	34.7	50.0	15.3	20	no	no LFN issue
AU	35.3	50.8	15.5	20	no	no LFN issue
AV	36.0	51.1	15.1	20	no	no LFN issue
AW	36.1	51.2	15.1	20	no	no LFN issue
AX	35.3	50.8	15.5	20	no	no LFN issue
AY	35.1	50.8	15.7	20	no	no LFN issue
AZ	33.8	49.3	15.5	20	no	no LFN issue
B	33.3	49.3	16.0	20	no	no LFN issue
BA	33.9	49.4	15.5	20	no	no LFN issue
BB	35.5	50.9	15.4	20	no	no LFN issue
BC	34.0	50.3	16.3	20	no	no LFN issue
BD	35.1	50.8	15.7	20	no	no LFN issue
BE	33.9	49.3	15.4	20	no	no LFN issue
BF	34.2	49.6	15.4	20	no	no LFN issue
BG	34.4	49.7	15.3	20	no	no LFN issue
BH	35.0	50.3	15.3	20	no	no LFN issue
BI	34.5	49.8	15.3	20	no	no LFN issue
BJ	35.0	50.3	15.3	20	no	no LFN issue
BK	35.0	50.3	15.3	20	no	no LFN issue
BL	34.8	50.1	15.3	20	no	no LFN issue
BM	34.9	50.1	15.2	20	no	no LFN issue
BN	34.8	50.0	15.2	20	no	no LFN issue
BO	35.0	50.2	15.2	20	no	no LFN issue
BP	35.2	50.5	15.3	20	no	no LFN issue
BQ	35.0	50.2	15.2	20	no	no LFN issue
BR	35.3	50.6	15.3	20	no	no LFN issue
BS	35.4	50.4	15.0	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
BT	35.3	50.3	15.0	20	no	no LFN issue
BU	34.6	50.3	15.7	20	no	no LFN issue
BV	35.2	50.2	15.0	20	no	no LFN issue
BW	35.5	50.5	15.0	20	no	no LFN issue
BX	35.5	50.4	14.9	20	no	no LFN issue
BY	35.6	50.8	15.2	20	no	no LFN issue
BZ	34.4	49.7	15.3	20	no	no LFN issue
C	32.9	49.0	16.1	20	no	no LFN issue
CA	34.7	49.9	15.2	20	no	no LFN issue
CB	35.7	50.6	14.9	20	no	no LFN issue
CC	35.9	50.7	14.8	20	no	no LFN issue
CD	35.4	50.3	14.9	20	no	no LFN issue
CE	36.0	50.8	14.8	20	no	no LFN issue
CF	36.2	51.0	14.8	20	no	no LFN issue
CG	36.2	50.9	14.7	20	no	no LFN issue
CH	35.6	51.1	15.5	20	no	no LFN issue
CI	35.9	50.7	14.8	20	no	no LFN issue
CJ	36.3	51.1	14.8	20	no	no LFN issue
CK	35.2	50.2	15.0	20	no	no LFN issue
CL	34.8	50.0	15.2	20	no	no LFN issue
CM	35.3	50.3	15.0	20	no	no LFN issue
CN	36.7	51.6	14.9	20	no	no LFN issue
CO	35.8	51.2	15.4	20	no	no LFN issue
CP	35.5	50.5	15.0	20	no	no LFN issue
CQ	35.3	50.4	15.1	20	no	no LFN issue
CR	37.0	51.4	14.4	20	no	no LFN issue
CS	35.0	50.1	15.1	20	no	no LFN issue
CT	37.5	51.8	14.3	20	no	no LFN issue
CU	37.0	51.8	14.8	20	no	no LFN issue
CV	35.8	50.7	14.9	20	no	no LFN issue
CW	35.7	50.7	15.0	20	no	no LFN issue
CX	37.9	52.0	14.1	20	no	no LFN issue
CY	36.5	51.1	14.6	20	no	no LFN issue
CZ	35.3	50.3	15.0	20	no	no LFN issue
D	32.7	48.8	16.1	20	no	no LFN issue
DA	35.5	50.5	15.0	20	no	no LFN issue
DB	35.8	50.7	14.9	20	no	no LFN issue
DC	38.3	52.3	14.0	20	no	no LFN issue
DD	35.1	50.1	15.0	20	no	no LFN issue
DE	35.4	50.4	15.0	20	no	no LFN issue
DF	37.5	51.8	14.3	20	no	no LFN issue
DG	35.2	50.2	15.0	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
DH	35.2	50.2	15.0	20	no	no LFN issue
DI	37.5	51.8	14.3	20	no	no LFN issue
DJ	37.3	51.6	14.3	20	no	no LFN issue
DK	35.4	50.4	15.0	20	no	no LFN issue
DL	37.8	52.0	14.2	20	no	no LFN issue
DM	35.0	50.1	15.1	20	no	no LFN issue
DN	37.7	51.9	14.2	20	no	no LFN issue
DO	35.4	50.3	14.9	20	no	no LFN issue
DP	35.2	50.2	15.0	20	no	no LFN issue
DQ	36.3	51.0	14.7	20	no	no LFN issue
DR	35.2	50.2	15.0	20	no	no LFN issue
DS	36.2	50.8	14.6	20	no	no LFN issue
DT	36.3	50.9	14.6	20	no	no LFN issue
DU	36.2	50.8	14.6	20	no	no LFN issue
DV	35.5	50.4	14.9	20	no	no LFN issue
DW	36.0	50.7	14.7	20	no	no LFN issue
DX	35.5	50.5	15.0	20	no	no LFN issue
DY	36.5	51.0	14.5	20	no	no LFN issue
DZ	36.2	50.9	14.7	20	no	no LFN issue
E	32.7	48.9	16.2	20	no	no LFN issue
EA	35.3	50.3	15.0	20	no	no LFN issue
EB	37.3	51.6	14.3	20	no	no LFN issue
EC	36.1	50.8	14.7	20	no	no LFN issue
ED	36.2	50.9	14.7	20	no	no LFN issue
EE	35.1	50.4	15.3	20	no	no LFN issue
EF	34.8	50.1	15.3	20	no	no LFN issue
EG	34.5	50.0	15.5	20	no	no LFN issue
EH	34.5	49.9	15.4	20	no	no LFN issue
EI	35.3	50.5	15.2	20	no	no LFN issue
EJ	35.0	50.3	15.3	20	no	no LFN issue
EK	34.2	49.7	15.5	20	no	no LFN issue
EL	35.2	50.4	15.2	20	no	no LFN issue
EM	33.6	49.3	15.7	20	no	no LFN issue
EN	37.2	51.8	14.6	20	no	no LFN issue
EO	35.9	50.9	15.0	20	no	no LFN issue
EP	34.6	50.0	15.4	20	no	no LFN issue
EQ	35.1	50.3	15.2	20	no	no LFN issue
ER	34.5	50.0	15.5	20	no	no LFN issue
ES	32.5	48.5	16.0	20	no	no LFN issue
ET	37.1	51.6	14.5	20	no	no LFN issue
EU	33.1	49.0	15.9	20	no	no LFN issue
EV	36.4	51.2	14.8	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
EW	32.8	48.7	15.9	20	no	no LFN issue
EX	33.5	49.3	15.8	20	no	no LFN issue
EY	32.8	48.7	15.9	20	no	no LFN issue
EZ	33.2	49.0	15.8	20	no	no LFN issue
F	30.9	47.2	16.3	20	no	no LFN issue
FA	33.1	48.9	15.8	20	no	no LFN issue
FB	33.6	49.4	15.8	20	no	no LFN issue
FC	32.9	48.8	15.9	20	no	no LFN issue
FD	33.0	48.9	15.9	20	no	no LFN issue
FE	36.1	51.1	15.0	20	no	no LFN issue
FF	33.2	49.1	15.9	20	no	no LFN issue
FG	34.9	50.0	15.1	20	no	no LFN issue
FH	34.8	49.9	15.1	20	no	no LFN issue
FI	35.4	50.3	14.9	20	no	no LFN issue
FJ	35.7	50.6	14.9	20	no	no LFN issue
FK	35.3	50.7	15.4	20	no	no LFN issue
FL	34.2	49.6	15.4	20	no	no LFN issue
FM	34.3	49.7	15.4	20	no	no LFN issue
FN	35.4	50.4	15.0	20	no	no LFN issue
FO	34.9	50.1	15.2	20	no	no LFN issue
FP	35.1	50.3	15.2	20	no	no LFN issue
FQ	37.1	51.8	14.7	20	no	no LFN issue
FR	35.1	50.2	15.1	20	no	no LFN issue
FS	35.7	50.7	15.0	20	no	no LFN issue
FT	35.4	50.4	15.0	20	no	no LFN issue
FU	34.9	50.1	15.2	20	no	no LFN issue
FV	35.6	50.6	15.0	20	no	no LFN issue
FW	34.7	49.9	15.2	20	no	no LFN issue
FX	34.6	49.8	15.2	20	no	no LFN issue
FY	34.6	49.8	15.2	20	no	no LFN issue
FZ	34.5	49.7	15.2	20	no	no LFN issue
G	31.4	47.6	16.2	20	no	no LFN issue
GA	34.5	49.6	15.1	20	no	no LFN issue
GB	34.9	50.0	15.1	20	no	no LFN issue
GC	34.3	49.5	15.2	20	no	no LFN issue
GD	33.3	48.7	15.4	20	no	no LFN issue
GE	32.6	48.2	15.6	20	no	no LFN issue
GF	33.2	48.6	15.4	20	no	no LFN issue
GG	33.4	48.8	15.4	20	no	no LFN issue
GH	34.8	49.8	15.0	20	no	no LFN issue
GI	33.2	48.6	15.4	20	no	no LFN issue
GJ	34.3	49.5	15.2	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
GK	32.8	48.4	15.6	20	no	no LFN issue
GL	33.2	48.6	15.4	20	no	no LFN issue
GM	33.1	48.6	15.5	20	no	no LFN issue
GN	33.0	48.5	15.5	20	no	no LFN issue
GO	33.4	48.8	15.4	20	no	no LFN issue
GP	33.4	48.8	15.4	20	no	no LFN issue
GQ	32.9	48.5	15.6	20	no	no LFN issue
GR	33.4	48.8	15.4	20	no	no LFN issue
GS	33.2	48.7	15.5	20	no	no LFN issue
GT	33.3	48.7	15.4	20	no	no LFN issue
GU	34.4	49.5	15.1	20	no	no LFN issue
GV	33.4	48.7	15.3	20	no	no LFN issue
GW	33.8	49.0	15.2	20	no	no LFN issue
GX	33.7	49.0	15.3	20	no	no LFN issue
GY	33.7	49.0	15.3	20	no	no LFN issue
GZ	34.5	49.6	15.1	20	no	no LFN issue
H	31.4	47.7	16.3	20	no	no LFN issue
HA	35.6	50.3	14.7	20	no	no LFN issue
HB	36.1	50.5	14.4	20	no	no LFN issue
HC	35.5	50.1	14.6	20	no	no LFN issue
HD	36.1	50.5	14.4	20	no	no LFN issue
HE	32.8	48.3	15.5	20	no	no LFN issue
HF	36.0	50.5	14.5	20	no	no LFN issue
HG	32.6	48.2	15.6	20	no	no LFN issue
HH	33.4	48.7	15.3	20	no	no LFN issue
HI	35.2	49.8	14.6	20	no	no LFN issue
HJ	33.6	48.8	15.2	20	no	no LFN issue
HK	34.1	49.1	15.0	20	no	no LFN issue
HL	33.0	48.4	15.4	20	no	no LFN issue
HM	35.5	50.0	14.5	20	no	no LFN issue
HN	33.2	48.5	15.3	20	no	no LFN issue
HO	33.1	48.4	15.3	20	no	no LFN issue
HP	35.2	49.7	14.5	20	no	no LFN issue
HQ	35.5	50.0	14.5	20	no	no LFN issue
HR	35.7	50.1	14.4	20	no	no LFN issue
HS	35.8	50.2	14.4	20	no	no LFN issue
HT	33.1	48.2	15.1	20	no	no LFN issue
HU	33.9	48.6	14.7	20	no	no LFN issue
HV	35.5	49.9	14.4	20	no	no LFN issue
HW	32.7	47.9	15.2	20	no	no LFN issue
HX	35.5	49.9	14.4	20	no	no LFN issue
HY	33.9	48.6	14.7	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
HZ	36.1	50.4	14.3	20	no	no LFN issue
I	31.6	47.8	16.2	20	no	no LFN issue
IA	33.0	48.0	15.0	20	no	no LFN issue
IB	33.9	48.6	14.7	20	no	no LFN issue
IC	30.7	46.2	15.5	20	no	no LFN issue
ID	30.5	46.1	15.6	20	no	no LFN issue
IE	31.0	46.3	15.3	20	no	no LFN issue
IF	29.9	45.6	15.7	20	no	no LFN issue
IH	37.0	52.7	15.7	20	no	no LFN issue
II	38.0	53.2	15.2	20	no	no LFN issue
IJ	38.1	53.2	15.1	20	no	no LFN issue
IK	38.1	52.8	14.7	20	no	no LFN issue
IL	37.4	52.6	15.2	20	no	no LFN issue
IM	37.3	52.6	15.3	20	no	no LFN issue
IN	31.6	47.5	15.9	20	no	no LFN issue
IO	33.6	49.3	15.7	20	no	no LFN issue
IP	31.2	46.7	15.5	20	no	no LFN issue
IQ	37.2	52.3	15.1	20	no	no LFN issue
IR	34.9	49.9	15.0	20	no	no LFN issue
IS	29.9	45.7	15.8	20	no	no LFN issue
IT	30.9	46.8	15.9	20	no	no LFN issue
IU	29.4	45.3	15.9	20	no	no LFN issue
IV	32.6	47.8	15.2	20	no	no LFN issue
IW	31.4	47.6	16.2	20	no	no LFN issue
IX	30.5	46.1	15.6	20	no	no LFN issue
IY	30.4	46.0	15.6	20	no	no LFN issue
IZ	30.5	46.0	15.5	20	no	no LFN issue
J	31.6	47.8	16.2	20	no	no LFN issue
JA	29.9	45.6	15.7	20	no	no LFN issue
JB	34.5	49.2	14.7	20	no	no LFN issue
JC	33.7	48.6	14.9	20	no	no LFN issue
JD	33.7	48.6	14.9	20	no	no LFN issue
JE	33.3	48.3	15.0	20	no	no LFN issue
JF	33.6	48.5	14.9	20	no	no LFN issue
JG	33.2	48.2	15.0	20	no	no LFN issue
JH	33.5	48.5	15.0	20	no	no LFN issue
JI	33.8	48.7	14.9	20	no	no LFN issue
JJ	33.2	48.2	15.0	20	no	no LFN issue
JK	32.1	47.4	15.3	20	no	no LFN issue
JL	31.7	47.1	15.4	20	no	no LFN issue
JM	31.1	46.8	15.7	20	no	no LFN issue
JN	31.3	46.9	15.6	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
JO	36.8	51.9	15.1	20	no	no LFN issue
JP	37.0	52.1	15.1	20	no	no LFN issue
JQ	35.8	51.0	15.2	20	no	no LFN issue
JR	36.9	52.0	15.1	20	no	no LFN issue
JS	34.8	49.7	14.9	20	no	no LFN issue
JT	29.8	45.8	16.0	20	no	no LFN issue
JU	29.5	45.4	15.9	20	no	no LFN issue
JV	30.0	45.8	15.8	20	no	no LFN issue
JW	32.1	47.4	15.3	20	no	no LFN issue
JX	31.9	47.2	15.3	20	no	no LFN issue
JY	32.0	47.3	15.3	20	no	no LFN issue
JZ	32.7	47.6	14.9	20	no	no LFN issue
K	31.8	47.9	16.1	20	no	no LFN issue
KA	33.0	47.8	14.8	20	no	no LFN issue
KB	33.6	48.3	14.7	20	no	no LFN issue
KC	33.6	48.3	14.7	20	no	no LFN issue
KD	32.2	47.4	15.2	20	no	no LFN issue
KE	32.5	47.6	15.1	20	no	no LFN issue
KF	32.1	47.6	15.5	20	no	no LFN issue
KG	33.4	48.4	15.0	20	no	no LFN issue
KH	33.3	48.2	14.9	20	no	no LFN issue
KI	33.5	48.4	14.9	20	no	no LFN issue
KJ	34.1	48.8	14.7	20	no	no LFN issue
KK	33.9	48.7	14.8	20	no	no LFN issue
KL	34.0	48.9	14.9	20	no	no LFN issue
KM	34.0	48.9	14.9	20	no	no LFN issue
KN	30.5	47.4	16.9	20	no	no LFN issue
KO	34.1	48.9	14.8	20	no	no LFN issue
KP	31.8	47.9	16.1	20	no	no LFN issue
KQ	34.4	49.2	14.8	20	no	no LFN issue
KR	33.3	48.6	15.3	20	no	no LFN issue
KS	33.7	48.9	15.2	20	no	no LFN issue
KT	33.9	48.9	15.0	20	no	no LFN issue
KU	34.2	49.0	14.8	20	no	no LFN issue
KV	34.0	49.0	15.0	20	no	no LFN issue
KW	34.7	49.4	14.7	20	no	no LFN issue
KX	34.8	49.5	14.7	20	no	no LFN issue
KY	33.7	48.7	15.0	20	no	no LFN issue
KZ	32.0	47.5	15.5	20	no	no LFN issue
L	31.8	47.9	16.1	20	no	no LFN issue
LA	32.5	48.1	15.6	20	no	no LFN issue
LB	33.7	49.0	15.3	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test				Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level			Noise Guidelines Threshold Value	Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
LC	33.6	48.9	15.3	20	no	no LFN issue
LD	32.8	48.4	15.6	20	no	no LFN issue
LE	32.8	48.3	15.5	20	no	no LFN issue
LF	32.1	47.8	15.7	20	no	no LFN issue
LG	32.8	48.3	15.5	20	no	no LFN issue
LH	31.7	47.5	15.8	20	no	no LFN issue
LI	31.7	47.4	15.7	20	no	no LFN issue
LJ	31.5	47.2	15.7	20	no	no LFN issue
LK	31.4	47.1	15.7	20	no	no LFN issue
LL	31.4	47.1	15.7	20	no	no LFN issue
LM	31.4	47.1	15.7	20	no	no LFN issue
LN	31.4	47.1	15.7	20	no	no LFN issue
LO	31.4	47.1	15.7	20	no	no LFN issue
LP	31.1	46.9	15.8	20	no	no LFN issue
LQ	31.2	47.0	15.8	20	no	no LFN issue
LR	31.1	46.9	15.8	20	no	no LFN issue
LS	31.0	46.8	15.8	20	no	no LFN issue
LT	30.8	46.7	15.9	20	no	no LFN issue
LU	30.6	46.5	15.9	20	no	no LFN issue
LV	31.1	46.7	15.6	20	no	no LFN issue
LW	30.6	46.5	15.9	20	no	no LFN issue
LX	30.3	46.2	15.9	20	no	no LFN issue
LY	29.6	45.5	15.9	20	no	no LFN issue
LZ	31.4	46.5	15.1	20	no	no LFN issue
M	32.0	48.1	16.1	20	no	no LFN issue
MA	29.5	45.3	15.8	20	no	no LFN issue
MB	29.3	45.2	15.9	20	no	no LFN issue
MC	29.1	45.0	15.9	20	no	no LFN issue
MD	37.3	52.2	14.9	20	no	no LFN issue
ME	33.5	49.1	15.6	20	no	no LFN issue
MF	30.8	46.7	15.9	20	no	no LFN issue
MG	30.8	46.8	16.0	20	no	no LFN issue
MH	30.2	46.3	16.1	20	no	no LFN issue
MI	30.5	46.6	16.1	20	no	no LFN issue
MJ	30.7	46.7	16.0	20	no	no LFN issue
MJ_2	30.0	46.1	16.1	20	no	no LFN issue
MK	29.9	46.0	16.1	20	no	no LFN issue
MK_2	30.2	46.2	16.0	20	no	no LFN issue
ML	30.2	46.2	16.0	20	no	no LFN issue
ML_2	29.2	45.5	16.3	20	no	no LFN issue
N	32.1	48.2	16.1	20	no	no LFN issue
O	32.1	48.1	16.0	20	no	no LFN issue

Table 7: Low Frequency Noise Assessment

Receptor Identification Code	First Part of Low Frequency Noise Test			Noise Guidelines Threshold Value	Second Part of Low Frequency Noise Test	Assessment
	Predicted Project Noise Level				Presence of Tonal Component	
	(dBA)	(dBC)	Difference: dBC minus dBA			
P	32.1	48.1	16.0	20	no	no LFN issue
Q	32.2	48.2	16.0	20	no	no LFN issue
R	32.5	48.4	15.9	20	no	no LFN issue
S	32.5	48.4	15.9	20	no	no LFN issue
T	32.8	48.6	15.8	20	no	no LFN issue
U	32.9	48.7	15.8	20	no	no LFN issue
V	33.0	48.8	15.8	20	no	no LFN issue
W	33.1	48.9	15.8	20	no	no LFN issue
X	33.3	49.0	15.7	20	no	no LFN issue
Y	33.6	49.3	15.7	20	no	no LFN issue
Z	33.8	49.4	15.6	20	no	no LFN issue

6.3 Construction Noise

Neither the EA Guide (Nova Scotia 2024) nor the Noise Guidelines (Nova Scotia 2023) require an assessment of construction noise or provide thresholds/limits for evaluating potential construction noise effects. In the absence of quantitative thresholds or detailed assessment methodology, the Project noise assessment considered construction noise qualitatively.

Potential noise effects during Project construction will vary based on the type of construction activities. The primary noise sources associated with construction will include trucks and other vehicles (used to transport workers and materials to the site), backhoes and graders (for site preparation), blasting, cranes, and smaller equipment such as welding units. Due to their tonal character, back-up alarms installed on mobile equipment are also an important source when assessing potential effects from construction noise. Noise levels at receptors during construction activities will depend primarily on the number, type, and proximity of noise sources. Construction noise levels will decrease as the distance between the receptors and construction activities increases.

Where practical, EverWind will implement the following measures to mitigate potential noise effects during Project construction:

- Conduct construction activities within acceptable timeframes per municipal bylaws.
- Advise nearby residents of noisy activities (e.g., blasting).
- Install appropriate and well-maintained muffler systems on engine-driven equipment.
- Design work areas and travel paths to reduce the amount of time that equipment must operate in reverse and thereby reduce the use of back-up alarms.
- Respond expeditiously to noise complaints and take appropriate action to address such complaints as required.

Implementation of the measures listed above should be sufficient to mitigate potential noise effects from Project construction to an acceptable level.

7 SUMMARY AND DISCUSSION

A noise assessment was prepared for the Project in accordance with provincial requirements. In particular, the Project noise assessment took guidance from the EA Guide (Nova Scotia 2024) and the Noise Guidelines (Nova Scotia 2023). The noise assessment considered potential effects to potential permanent and seasonal receptors located within approximately 2.1 km of the Project. The noise assessment considered potential effects associated with Project operations and Project construction.

The Project noise assessment concluded:

- Cumulative noise levels from operation of the Project will comply with the 40 dBA noise threshold from the EA Guide (Nova Scotia 2024).
- Operation of the Project will not result in low frequency noise issues as defined in the Noise Guidelines (Nova Scotia 2023).
- Implementation of noise mitigation measures should be sufficient to reduce potential effects from Project construction to acceptable levels.

In summary, the noise assessment predicts that Project construction and operation will comply with all provincial requirements. As such, the Project is not expected to result in unacceptable noise effects.

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8 REFERENCES

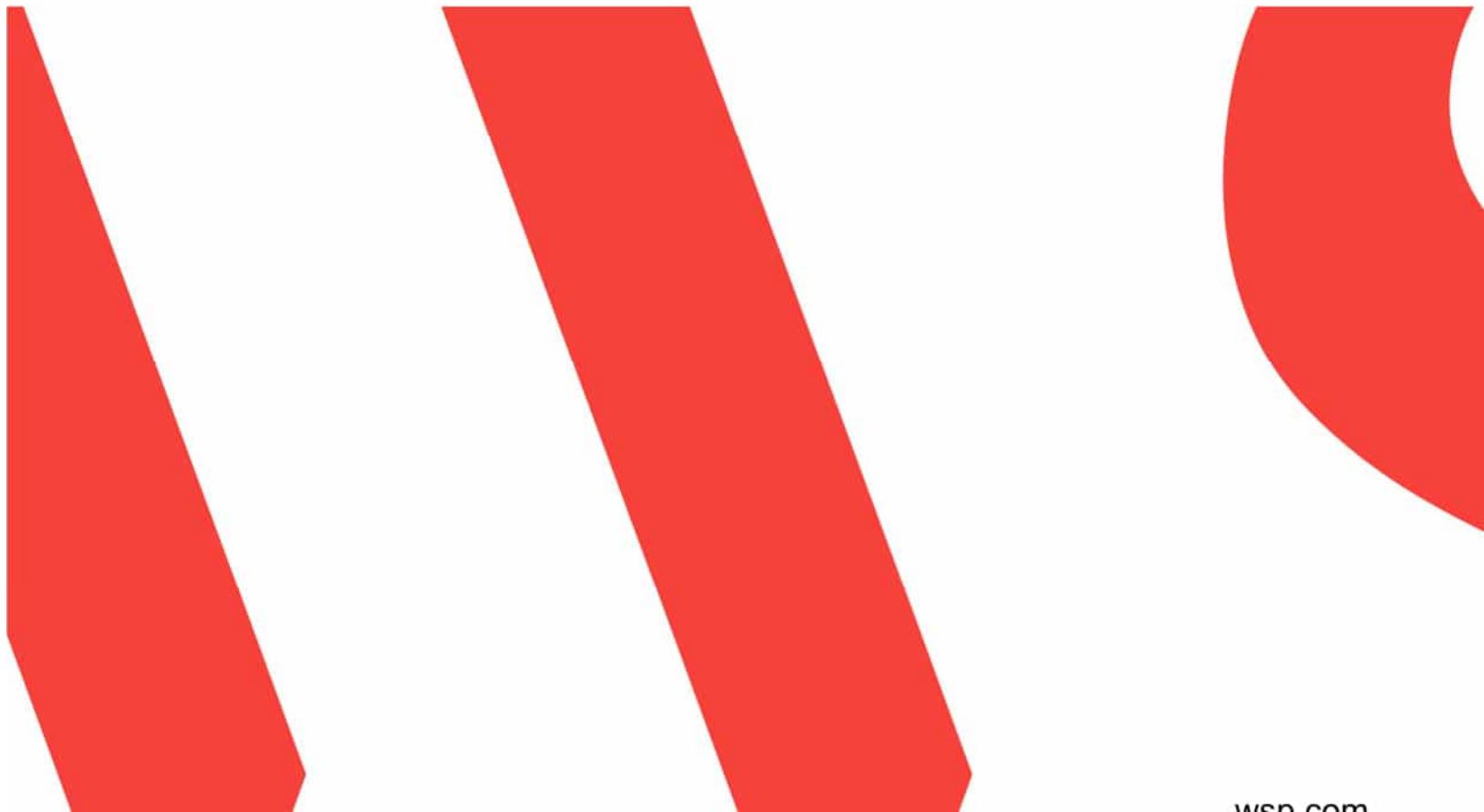
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APPENDIX F
WSP SHADOW FLICKER ASSESSMENT



EverWind NS Holdings Ltd.
Harbour Hills Wind Project

Shadow Flicker Assessment

2026-05-22

Project No. CA0066864.6287 / 2000



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APPENDICES

APPENDIX A

Curtailment Schedule

1 INTRODUCTION

EverWind NS Holdings Ltd. (EverWind) and Membertou Development Corporation are proposing development of the Harbour Hills Wind Project (the Project) in the Municipality of the District of Guysborough and the Municipality of the District of St. Mary's, Nova Scotia. Provincial guidance for assessing potential environmental effects from wind power facilities in Nova Scotia is provided in the *Environmental Assessment Supplemental Checklist: Wind Energy Projects* (Nova Scotia 2024), which will hereafter be referred to as the EA Guide.

The EA Guide requires preparation of a shadow flicker assessment, which must “...show that shadow flicker will not exceed 30 minutes per day or 30 hours per year at any permanent or seasonal receptor within 2 km of the project” (Nova Scotia 2024). EverWind retained WSP Canada Inc. (WSP) to prepare a shadow flicker assessment for the Project in accordance with the EA Guide. The results of the Project shadow flicker assessment are presented in this report. The shadow flicker assessment report is structured as follows.

- Section 1 provides a brief introduction.
- Section 2 presents a description of the wind turbines proposed for the Project.
- Section 3 outlines the assessment approach, including:
 - assessment cases
 - shadow flicker receptors
 - assessment criteria
 - shadow flicker modelling methods
- Section 4 provides results for each assessment case.
- Section 5 summarizes and discusses the results of the shadow flicker assessment.
- Appendix A presents a wind turbine curtailment schedule that could be implemented to reduce the duration of shadow flicker exposure at select receptors.

2 PROJECT DESCRIPTION

The Project is a proposed 856-megawatt (MW) wind energy development, involving up to 107 turbines. The shadow flicker model uses 90 Goldwind GWH182 8.0 MW wind turbines. There are 17 optional turbine locations that are not included in the shadow flicker modelling. Optional turbines will be considered for construction at a later date, pending advances in turbine sound reducing technology. Shadow flicker models will be updated if optional turbines are added to the Project.

The Project wind turbines will consist of three-blade rotors and tubular towers. The Project wind turbines will have a hub height of 130 m and a rotor diameter of 183.4 m for a total turbine height of approximately 221.7 m

Table 1 presents the location of the Project wind turbines. A map showing the locations of the Project wind turbines is presented in Section 3.2 of this report (see Figure 1).

Table 1: Location of Project Wind Turbines

Turbine Identification Code ^(a)	Description	Universal Transverse Mercator Coordinates (Zone 20)	
		Easting (m)	Northing (m)
T001	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	581291	5012205
T002	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582927	5012119
T003	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582065	5011946
T004	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588971	5011739
T005	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585773	5011499
T006	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586612	5011423
T007	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	581869	5011141
T008	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591364	5011115
T009	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	590242	5011021
T010	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585075	5010845
T011	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587535	5010736
T012	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588527	5010746
T013	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	592318	5010619
T014	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582750	5010212
T015	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	583890	5010188
T016	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586601	5010224
T017	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	580441	5010107
T018	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	590852	5009821
T019	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585089	5009722
T020	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587068	5009734
T021	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	580717	5009458
T024	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595079	5009509
T025	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591530	5009162
T026	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582092	5009001
T027	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	579400	5008966

Table 1: Location of Project Wind Turbines

Turbine Identification Code ^(a)	Description	Universal Transverse Mercator Coordinates (Zone 20)	
		Easting (m)	Northing (m)
T028	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587361	5009006
T030	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595859	5008932
T031	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586333	5008793
T032	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	593182	5008739
T033	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584187	5008601
T034	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585137	5008592
T035	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	581068	5008375
T036	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596839	5008549
T037	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	578875	5008265
T039	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	594540	5008227
T041	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	579619	5007753
T042	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585223	5007667
T043	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	592586	5007733
T044	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591460	5007670
T046	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585695	5007004
T047	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595208	5007124
T048	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597621	5007096
T049	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598796	5006999
T050	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596498	5006735
T051	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	593456	5006663
T052	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587451	5006496
T053	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591863	5006373
T054	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588199	5006224
T055	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585728	5005854
T056	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595396	5005931

Table 1: Location of Project Wind Turbines

Turbine Identification Code ^(a)	Description	Universal Transverse Mercator Coordinates (Zone 20)	
		Easting (m)	Northing (m)
T058	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584201	5005646
T059	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588847	5005458
T060	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	591993	5005404
T062	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598649	5005412
T063	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	594190	5005338
T064	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	592934	5005283
T066	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586240	5004821
T067	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	587666	5004491
T068	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586850	5004377
T069	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	582541	5004171
T071	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599315	5004318
T072	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584067	5004071
T075	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588184	5003770
T076	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585633	5003564
T077	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	583056	5003448
T079	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	593314	5003344
T080	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598067	5003239
T081	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596617	5003199
T083	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	588770	5003050
T084	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	589871	5002979
T086	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596020	5002578
T088	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	585729	5002121
T089	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597167	5002255
T091	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	584819	5001878
T092	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	595028	5001990

Table 1: Location of Project Wind Turbines

Turbine Identification Code ^(a)	Description	Universal Transverse Mercator Coordinates (Zone 20)	
		Easting (m)	Northing (m)
T093	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	600797	5001862
T094	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	586497	5001388
T095	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	601346	5001369
T096	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599364	5001138
T097	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598546	5001081
T098	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596100	5001006
T099	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597434	5001020
T100	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596840	4999829
T101	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	597850	4999640
T102	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599944	4999495
T103	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599032	4999370
T104	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	600823	4998798
T105	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	598759	4998706
T106	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	596888	4998341
T107	Goldwind GWH182 8.0-MW wind turbine with STE blades and pad-mounted transformer	599395	4998328

(a) Although there are 107 potential turbine locations in the Project, the shadow flicker model includes only 90 locations. The other 17 turbine locations are optional.

3 ASSESSMENT APPROACH

3.1 Assessment Cases

Shadow flicker occurs when the turning rotor of a wind turbine is located between the sun and a receptor. As the turbine blades alternately block sunlight and allow sunlight to shine through, the shadow at the receptor may be observed to flicker under certain environmental conditions. For shadow flicker to occur, the sun must be shining, the sun must be low enough in the sky that the shadow of the wind turbine falls across the receptor, the wind turbine must be active (i.e., the rotor must be turning), and the rotor must be oriented such that the blades are not parallel to the line joining the sun and receptor. The shadow flicker assessment for the Project considered two assessment cases, which represent two different sets of environmental conditions.

The Worst-Case assessment assumes the sun is always shining during daylight hours (i.e., there are no cloudy periods), all Project wind turbines are always active (i.e., rotors turning), and all Project wind turbines are always oriented with their rotors perpendicular to the line joining the sun and all receptors. The Worst-Case assessment

is highly conservative (i.e., likely to overestimate potential shadow flicker effects) because the sun is not always shining, and the Project wind turbines are not always active. In addition, the orientation of the Project wind turbines will change continuously based on wind direction, so turbine rotors are not always perpendicular to the line joining the sun and receptors.

The Adjusted-Case assessment makes use of historical weather data to reduce some of the conservatism inherent in the Worst-Case assessment. More specifically, the Adjusted-Case assessment uses weather data to estimate the probability of sunshine during each month of the year. In addition, the Adjusted-Case assessment uses weather data to estimate the probability of different wind directions, and hence turbine orientations. Even with the use of historical weather data, Adjusted-Case is still a conservative assessment of potential shadow flicker effects because it assumes the Project wind turbines are always active (i.e., turbine rotors are always turning), which is not the case.

3.2 Receptors

The EA Guide requires that potential shadow flicker effects be assessed at permanent or seasonal receptors located within 2 km of the Project wind turbines (Nova Scotia 2024). WSP established a study area for the shadow flicker assessment as a 2 km buffer on the Project wind turbines. All potential receptors within this study area were considered in the Project shadow flicker assessment.

A total of 337 potential shadow flicker receptors were identified within the study area. Another 15 potential shadow flicker receptors were identified within approximately 100 m of the study area. These potential receptors were maintained in the assessment in consideration of potential minor changes to turbine locations.

When assessing potential shadow flicker effects, each potential receptor was assumed to be sensitive to shadow flicker in any direction. In other words, each potential receptor was assumed to have windows facing in all directions. This approach is often called greenhouse mode modelling. Greenhouse mode modelling is conservative since receptors may not actually have windows facing in all directions. In addition, trees, outbuildings, and other local structures can screen shadow flicker effects. These local shadow flicker screens were not considered when modelling potential receptors, which adds further conservatism to the shadow flicker assessment.

Table 2 presents locations for the 352 potential receptors considered in the Project shadow flicker assessment. For each potential receptor, Table 2 also identifies and provides the distance to the closest Project wind turbine. As noted above, some potential receptors are located slightly more than 2 km from the closest Project wind turbine (i.e., just beyond the 2 km study area). These potential receptors were maintained in the assessment in the interest of fully capturing all potential shadow flicker effects. Figure 1 presents a map showing the locations of the Project wind turbines and potential shadow flicker receptors.

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
A	579774	5012890	T001	1664
AA	587019	5012977	T006	1606
AB	589256	5012985	T004	1278
AC	590017	5012963	T004	1610
AD	589836	5012956	T004	1493

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
AE	589098	5012945	T004	1213
AF	589692	5012948	T004	1408
AG	589863	5012950	T004	1504
AH	589379	5012936	T004	1265
AI	589139	5012932	T004	1205
AJ	589461	5012928	T004	1286
AK	590096	5012937	T004	1643
AL	590269	5012892	T004	1736
AM	590292	5012886	T004	1749
AN	590325	5012845	T004	1748
AO	590381	5012841	T004	1790
AP	590646	5012810	T009	1834
AQ	590330	5012794	T004	1720
AR	590399	5012771	T009	1757
AS	588279	5012714	T004	1196
AT	589773	5012727	T004	1273
AU	587776	5012693	T004	1529
AV	588659	5012701	T004	1011
AW	588628	5012679	T004	1001
AX	588083	5012665	T004	1283
AY	587981	5012650	T004	1345
AZ	590689	5012687	T008	1711
B	584044	5013356	T002	1667
BA	590737	5012666	T008	1673
BB	588183	5012628	T004	1188
BC	588877	5012635	T004	901
BD	588029	5012621	T004	1290
BE	590788	5012654	T008	1643
BF	590916	5012567	T008	1520
BG	590961	5012518	T008	1460
BH	590331	5012496	T009	1478
BI	590999	5012505	T008	1437
BJ	590470	5012485	T009	1482
BK	590424	5012469	T009	1459
BL	591082	5012438	T008	1353
BM	591116	5012427	T008	1335
BN	591254	5012428	T008	1318
BO	591155	5012404	T008	1306
BP	590594	5012392	T009	1415
BQ	591245	5012393	T008	1284
BR	590674	5012359	T009	1406

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
BS	591320	5012313	T008	1199
BT	591476	5012301	T008	1191
BU	590755	5012282	T008	1316
BV	591534	5012291	T008	1188
BW	591446	5012267	T008	1155
BX	591554	5012244	T008	1145
BY	590851	5012225	T008	1223
BZ	592186	5012240	T008	1393
C	584218	5013386	T002	1809
CA	592070	5012222	T008	1313
CB	591566	5012214	T008	1117
CC	591584	5012184	T008	1091
CD	591863	5012185	T008	1181
CE	591603	5012172	T008	1084
CF	591380	5012155	T008	1040
CG	591661	5012145	T008	1072
CH	590956	5012134	T008	1098
CI	591751	5012140	T008	1096
CJ	591403	5012130	T008	1016
CK	592131	5012117	T008	1262
CL	592290	5012113	T008	1361
CM	592110	5012107	T008	1241
CN	591078	5012089	T008	1015
CO	591024	5012084	T008	1027
CP	592037	5012097	T008	1190
CQ	592131	5012086	T008	1237
CR	591736	5012072	T008	1027
CS	592319	5012064	T008	1346
CT	591673	5012045	T008	980
CU	591139	5012029	T008	941
CV	592046	5012040	T008	1149
CW	592085	5012028	T008	1163
CX	591702	5012021	T008	967
CY	591934	5012021	T008	1070
CZ	592291	5012019	T008	1295
D	584270	5013445	T002	1887
DA	592230	5012007	T008	1243
DB	592122	5011994	T008	1161
DC	591758	5011975	T008	946
DD	592418	5011975	T008	1360
DE	592362	5011960	T008	1308

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
DF	591936	5011945	T008	1008
DG	592459	5011933	T013	1322
DH	592484	5011917	T013	1309
DI	592057	5011894	T008	1043
DJ	592211	5011852	T008	1123
DK	592537	5011844	T013	1244
DL	592157	5011838	T008	1073
DM	592679	5011839	T013	1272
DN	592298	5011795	T008	1155
DO	592631	5011798	T013	1220
DP	592687	5011797	T013	1234
DQ	592492	5011785	T013	1179
DR	592710	5011783	T013	1228
DS	592547	5011767	T013	1171
DT	592560	5011750	T013	1157
DU	592594	5011737	T013	1152
DV	592702	5011734	T013	1179
DW	592668	5011694	T013	1131
DX	592754	5011685	T013	1152
DY	592637	5011683	T013	1111
DZ	592730	5011632	T013	1094
E	584439	5013429	T002	2001 ^(b)
EA	592897	5011629	T013	1164
EB	592657	5011617	T013	1054
EC	592760	5011617	T013	1091
ED	592809	5011577	T013	1076
EE	593056	5011557	T013	1194
EF	593174	5011531	T013	1251
EG	593245	5011532	T013	1301
EH	593302	5011498	T013	1319
EI	593130	5011448	T013	1160
EJ	593228	5011420	T013	1212
EK	593457	5011420	T013	1392
EL	593186	5011414	T013	1177
EM	593642	5011411	T013	1543
EN	592763	5011392	T013	892
EO	593105	5011369	T013	1087
EP	593381	5011369	T013	1301
EQ	593267	5011364	T013	1206
ER	593412	5011364	T013	1324
ES	594191	5011367	T013	2017 ^(b)

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
ET	593035	5011343	T013	1019
EU	593894	5011345	T013	1735
EV	593125	5011315	T013	1066
EW	594147	5011317	T013	1958
EX	593810	5011271	T013	1628
EY	594229	5011266	T024	1952
EZ	594022	5011228	T013	1810
F	588353	5013714	T004	2069 ^(b)
FA	594115	5011224	T013	1896
FB	593832	5011217	T013	1628
FC	594288	5011223	T024	1888
FD	594331	5011190	T024	1840
FE	593237	5011135	T013	1054
FF	594763	5011109	T024	1631
FG	594607	5011008	T024	1572
FH	594688	5011001	T024	1542
FI	594649	5010983	T024	1535
FJ	594548	5010974	T024	1558
FK	594329	5010561	T024	1292
FL	596173	5010535	T024	1500
FM	596226	5010492	T024	1511
FN	595956	5010482	T024	1310
FO	596079	5010436	T024	1364
FP	596002	5010432	T024	1305
FQ	595648	5010269	T024	949
FR	596572	5010134	T030	1398
FS	596415	5010095	T030	1289
FT	596764	5009972	T030	1379
FU	596966	5009950	T036	1407
FV	596780	5009927	T030	1356
FW	597076	5009921	T036	1392
FX	597127	5009908	T036	1389
FY	597150	5009903	T036	1389
FZ	597182	5009898	T036	1392
G	588168	5013617	T004	2042 ^(b)
GA	597259	5009855	T036	1372
GB	597183	5009826	T036	1323
GC	597356	5009814	T036	1367
GD	597780	5009724	T036	1505
GE	598026	5009703	T036	1656
GF	597872	5009669	T036	1524

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
GG	597847	5009631	T036	1479
GH	597509	5009607	T036	1252
GI	597953	5009600	T036	1532
GJ	597677	5009562	T036	1315
GK	598103	5009565	T036	1622
GL	597989	5009558	T036	1530
GM	598013	5009556	T036	1547
GN	598071	5009544	T036	1584
GO	597957	5009536	T036	1491
GP	597973	5009519	T036	1492
GQ	598108	5009512	T036	1593
GR	598004	5009492	T036	1499
GS	598075	5009469	T036	1541
GT	598124	5009384	T036	1532
GU	597905	5009310	T036	1310
GV	598185	5009278	T036	1531
GW	598138	5009236	T036	1469
GX	598202	5009189	T036	1506
GY	598248	5009137	T036	1527
GZ	598121	5009133	T036	1409
H	588095	5013595	T004	2052 ^(b)
HA	598100	5009082	T036	1369
HB	598143	5009040	T036	1393
HC	598223	5009020	T036	1462
HD	598182	5009015	T036	1422
HE	598652	5009017	T036	1872
HF	598250	5008974	T036	1474
HG	598761	5008965	T049	1966
HH	598577	5008958	T036	1785
HI	598450	5008919	T036	1653
HJ	598626	5008913	T036	1824
HK	598600	5008894	T036	1794
HL	598832	5008833	T049	1834
HM	598568	5008821	T036	1750
HN	598866	5008796	T049	1798
HO	599171	5008602	T049	1646
HP	599162	5008469	T049	1515
HQ	599098	5008429	T049	1462
HR	599079	5008386	T049	1416
HS	599135	5008320	T049	1364
HT	599601	5008311	T049	1539

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
HU	599553	5008299	T049	1504
HV	599323	5008281	T049	1386
HW	599710	5008264	T049	1561
HX	599374	5008236	T049	1365
HY	599698	5008198	T049	1500
HZ	599252	5008172	T049	1259
I	588113	5013562	T004	2015 ^(b)
IA	599820	5008164	T049	1551
IB	599777	5008139	T049	1504
IC	600154	5008139	T049	1773
ID	600300	5008008	T049	1811
IE	600384	5007826	T049	1790
IF	600585	5007745	T049	1938
IH	588673	5008520	T028	1399
II	589169	5008621	T028	1849
IJ	589535	5008443	T018	1906
IK	592415	5004108	T079	1180
IL	594961	5003438	T086	1364
IM	597165	5004451	T081	1367
IN	601023	5005132	T071	1892
IO	601031	5003515	T093	1669
IP	602381	5003199	T093	2073 ^(b)
IQ	599848	5002718	T093	1278
IR	602003	5002469	T095	1281
IS	577099	5009346	T037	2079 ^(b)
IT	577225	5009313	T037	1955
IU	576867	5008833	T037	2087 ^(b)
IV	577441	5008221	T037	1435
IW	577499	5008146	T037	1381
IX	577076	5008057	T037	1811
IY	577064	5007963	T037	1836
IZ	577064	5007842	T037	1860
J	588315	5013550	T004	1926
JA	577002	5007777	T037	1936
JB	578064	5007369	T037	1209
JC	577947	5007332	T037	1316
JD	577968	5007298	T037	1326
JE	577901	5007287	T037	1380
JF	577978	5007271	T037	1339
JG	577923	5007240	T037	1399
JH	578075	5007139	T037	1381

Table 2: Receptor Locations and Distance to Turbines

Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
JI	578170	5007110	T037	1353
JJ	578080	5007061	T037	1443
JK	578170	5006716	T037	1702
JL	578154	5006646	T037	1772
JM	578206	5006429	T041	1936
JN	578316	5006409	T041	1872
JO	582419	5006760	T058	2102 ^(b)
JP	582585	5006760	T058	1963
JQ	581520	5006740	T035	1696
JR	582515	5006636	T058	1955
JS	581418	5004059	T069	1129
JT	580614	5003764	T069	1970
JU	580792	5003035	T069	2086 ^(b)
JV	580995	5002856	T069	2030 ^(b)
JW	581479	5002847	T077	1688
JX	581444	5002825	T077	1728
JY	581475	5002810	T077	1705
JZ	581541	5002611	T077	1731
K	588365	5013523	T004	1884
KA	581589	5002573	T077	1708
KB	581652	5002524	T077	1681
KC	581690	5002471	T077	1679
KD	581690	5002354	T077	1750
KE	581853	5002295	T077	1666
KF	582030	5002169	T077	1640
KG	582273	5002013	T077	1635
KH	582232	5001951	T077	1709
KI	582432	5001810	T077	1753
KJ	582548	5001802	T077	1723
KK	582616	5001702	T077	1801
KL	582657	5001678	T077	1814
KM	582728	5001621	T077	1856
KN	583112	5001563	T091	1736
KO	582845	5001552	T077	1908
KP	583077	5001551	T091	1772
KQ	583746	5000988	T091	1394
KR	583985	5000789	T091	1372
KS	584380	5000647	T091	1307
KT	584439	5000540	T091	1391
KU	584465	5000517	T091	1406
KV	584625	5000445	T091	1446

Table 2: Receptor Locations and Distance to Turbines

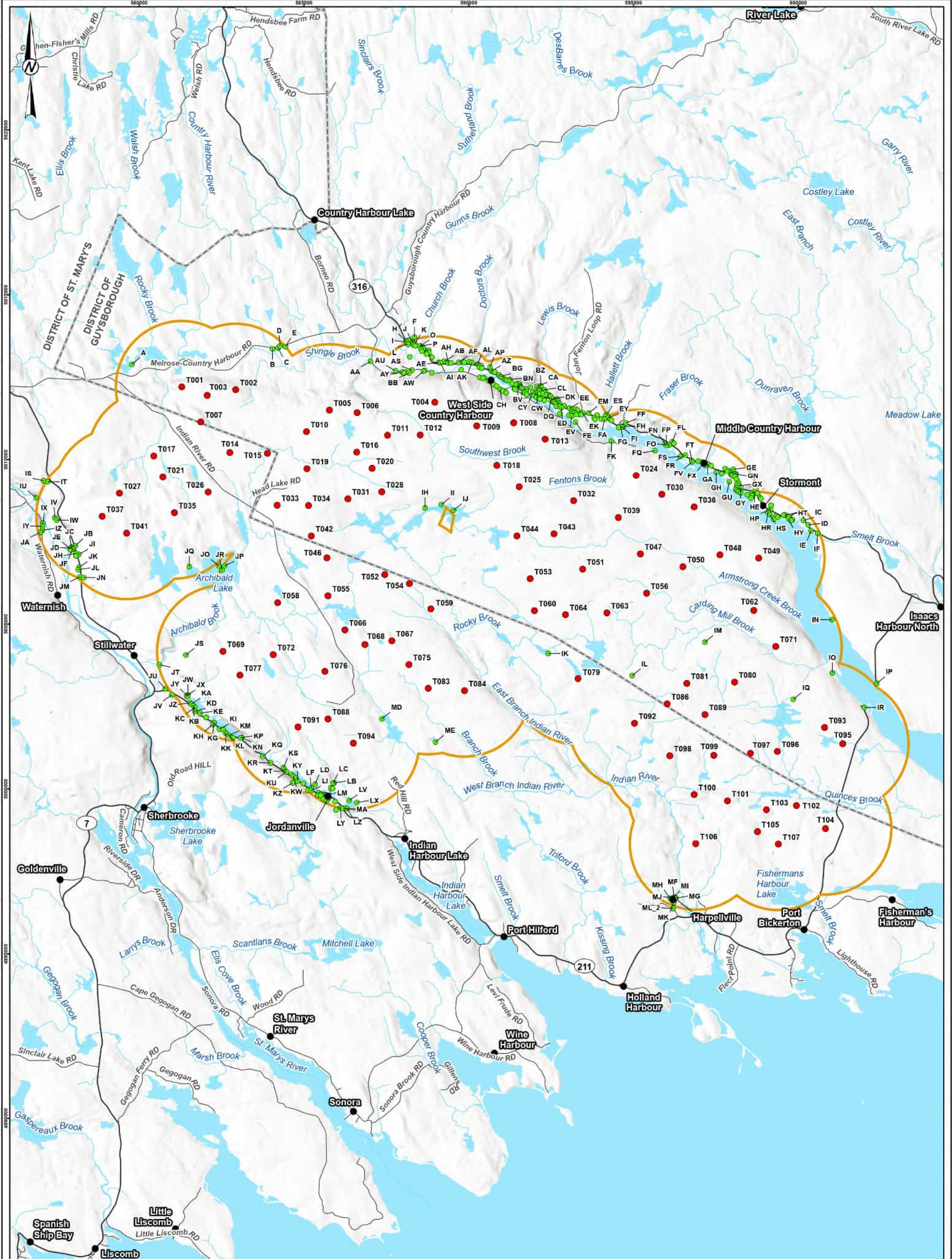
Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
KW	584678	5000386	T091	1499
KX	584752	5000329	T091	1550
KY	584800	5000240	T091	1638
KZ	584652	5000182	T091	1704
L	588158	5013500	T004	1940
LA	584981	5000171	T091	1715
LB	585913	5000183	T094	1339
LC	585886	5000180	T094	1354
LD	585338	5000139	T094	1704
LE	585811	5000035	T094	1517
LF	585223	5000027	T094	1864
LG	585869	5000014	T094	1511
LH	585120	4999962	T091	1939
LI	585214	4999949	T094	1928
LJ	585444	4999888	T094	1833
LK	585512	4999844	T094	1831
LL	585603	4999833	T094	1794
LM	585614	4999825	T094	1795
LN	585670	4999820	T094	1773
LO	585706	4999807	T094	1768
LP	585421	4999802	T094	1917
LQ	585508	4999803	T094	1868
LR	585691	4999746	T094	1829
LS	585757	4999724	T094	1821
LT	585585	4999697	T094	1921
LU	585682	4999642	T094	1927
LV	586364	4999648	T094	1745
LW	585947	4999616	T094	1855
LX	586604	4999591	T094	1800
LY	586113	4999438	T094	1987
LZ	586301	4999417	T094	1981
M	588323	5013479	T004	1857
MA	586200	4999415	T094	1995
MB	586154	4999406	T094	2011 ^(b)
MC	585976	4999367	T094	2087 ^(b)
MD	587365	5002124	T094	1138
ME	588992	5001424	T083	1641
MF	596229	4996719	T106	1751
MG	596288	4996694	T106	1753
MH	596110	4996689	T106	1826
MI	596177	4996688	T106	1799

Table 2: Receptor Locations and Distance to Turbines

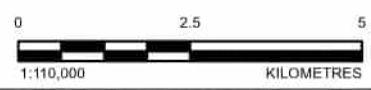
Receptor Identification Code ^(a)	Universal Transverse Mercator Coordinates (Zone 20)		Closest Project Wind Turbine	Distance to Closest Project Wind Turbine (m)
	Easting (m)	Northing (m)		
MJ	596262	4996687	T106	1768
MJ_2	596225	4996579	T106	1883
MK	596217	4996551	T106	1912
MK_2	596173	4996637	T106	1848
ML	596209	4996623	T106	1847
ML_2	596199	4996372	T106	2086 ^(b)
N	588375	5013451	T004	1813
O	588531	5013444	T004	1761
P	588515	5013442	T004	1763
Q	588598	5013415	T004	1717
R	588626	5013365	T004	1662
S	588558	5013349	T004	1662
T	588780	5013320	T004	1592
U	588579	5013285	T004	1595
V	588757	5013259	T004	1535
W	588787	5013241	T004	1513
X	588718	5013202	T004	1485
Y	588210	5013114	T004	1572
Z	588884	5013103	T004	1367

(a) The receptor identification codes are not sequential because some locations were removed during the planning process.

(b) This potential receptor is located more than 2 km from the nearest Project wind turbine but was maintained in the assessment in consideration of potential minor changes to turbine locations.



- LEGEND**
- COMMUNITY
 - POTENTIAL RECEPTOR
 - TURBINE LOCATION
 - HIGHWAY
 - LOCAL ROAD
 - MUNICIPAL BOUNDARY
 - WATERCOURSE
 - ▭ STUDY AREA
 - ▭ WATERBODY



REFERENCE(S)
 DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 DATUM: NAD83 PROJECTION: UTM ZONE 20

CLIENT
EVERWIND

PROJECT
HARBOUR HILLS WIND PROJECT



CONSULTANT	YYYY-MM-DD	2026-05-22
DESIGNED	VY	
PREPARED	MV PT	
REVIEWED	VY	
APPROVED	NLH	

TITLE	PROJECT NO.	CONTROL	REV.	FIGURE
STUDY AREA	CA006864.6287	2000	0	1

3.3 Assessment Criteria

The EA Guide indicates that shadow flicker at receptors should not exceed a total of 30 hours per year and/or a maximum of 30 minutes on a single day (Nova Scotia 2024). Compliance with the first limit is best assessed in the context of the Adjusted-Case, which incorporates historical sunshine and wind direction data when estimating annual shadow flicker at each receptor. Compliance with the second limit is best assessed in the context of the Worst-Case, which represents environmental conditions that would lead to maximum shadow flicker on a single day (i.e., full sunshine and favourable turbine orientation).

3.4 Modelling Methods

Potential shadow flicker effects from the Project were modelled using WindPro® v2.7, a commercial software tool developed and distributed by EMD International A/S. Separate WindPro® models were developed for the Worst-Case and Adjusted-Case assessments.

Inputs to the WindPro® models for both assessment cases included the location, hub height, and rotor diameter for the Project wind turbines, location of potential shadow flicker receptors, and terrain elevation data. Additional inputs to the WindPro® model for the Adjusted-Case assessment included historical data about monthly sunshine and annual wind direction.

Table 3 presents historical sunshine data used in the WindPro® model for the Adjusted-Case assessment. This historical sunshine data was obtained from a meteorological station in Shearwater, Nova Scotia; this is the closest station for which monthly sunshine data were publicly available. Table 4 presents historical wind direction data used in the WindPro® model for the Adjusted-Case assessment. This historical wind direction data was collected in the Project area and provided to WSP by EverWind.

Table 3: Historical Sunshine Data Used to Model the Adjusted-Case

Month	Average Hours of Sunshine Per Day
January	3.84
February	4.65
March	4.60
April	4.92
May	6.27
June	7.51
July	7.49
August	7.39
September	6.09
October	5.06
November	3.69
December	3.16

Table 4: Historical Wind Direction Data Used to Model the Adjusted-Case

Wind Direction	Hours Per Year
north	462
north-northeast	201
northeast	200
east-northeast	283
east	333
east-southeast	304
southeast	350
south-southeast	470
south	626
south-southwest	925
southwest	1254
west-southwest	595
west	534
west-northwest	627
northwest	748
north-northwest	848
Total	8,760

The WindPro® models predicted shadow flicker effects at each of the potential receptors listed in Table 2 based on the daily and yearly path of the sun through the sky at the Project latitude. In the Worst-Case assessment, the WindPro® model assumed the sun was always shining, the wind turbine generators were always active, and the turbine rotors were always oriented perpendicular to the line joining the sun and each potential receptor. In the Adjusted-Case assessment, the WindPro® model adjusted the predictions to account for historical monthly sunshine data (see Table 3) and to account for turbine orientation based on historical wind direction data (see Table 4). In both the Worst-Case and Adjusted-Case modelling, each potential receptor was modelled in greenhouse mode (i.e., sensitive to shadow flicker in every direction). Modelling both the Worst-Case and Adjusted-Case considered screening by terrain features (e.g., hills and valleys), but neither assessment case considered screening effects from trees, outbuildings, or other local structures.

4 RESULTS

Table 5 presents shadow flicker modelling results for the Project. Shadow flicker results are presented for each of the potential receptors identified in Table 2. For the Worst-Case assessment, modelling results are presented in the form of total hours of shadow flicker per year and maximum minutes of shadow flicker on a single day. For the Adjusted-Case assessment, modelling results are presented in the form of total hours of shadow flicker per year. Note that daily results are not available for the Adjusted-Case assessment because the modelling algorithm is based on monthly sunshine statistics and annual wind direction data. Figure 2 presents a contour map of modelling results in the form of total hours per year for the Adjusted-Case, and Figure 3 presents a contour map of modelling results in the form of maximum minutes per day for the Worst-Case.

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
A	12.40	26	3.42
AA	1.13	7	0.25
AB	0.00	0	0.00
AC	22.17	29	5.32
AD	11.48	24	2.68
AE	0.00	0	0.00
AF	0.00	0	0.00
AG	14.77	27	3.48
AH	0.00	0	0.00
AI	0.00	0	0.00
AJ	0.00	0	0.00
AK	26.88	28	6.52
AL	20.35	26	5.07
AM	19.03	26	4.75
AN	16.28	26	4.08
AO	14.52	25	3.63
AP	10.07	22	2.55
AQ	15.05	26	3.78
AR	13.28	25	3.33
AS	29.03	37	7.12
AT	38.52	35	9.42
AU	41.13	37	10.08
AV	0.00	0	0.00
AW	5.12	19	1.22
AX	57.92	58	14.42
AY	61.23	57	15.12
AZ	9.07	22	2.47
B	12.22	24	2.87
BA	8.60	22	2.37
BB	57.40	55	14.30
BC	8.35	25	2.03
BD	58.35	58	14.55
BE	0.00	0	0.00
BF	0.00	0	0.00
BG	0.00	0	0.00
BH	13.65	28	3.77
BI	0.00	0	0.00

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
BJ	11.47	25	3.20
BK	12.27	26	3.42
BL	0.00	0	0.00
BM	0.00	0	0.00
BN	0.00	0	0.00
BO	0.00	0	0.00
BP	10.00	24	2.72
BQ	0.33	4	0.07
BR	9.20	24	2.45
BS	16.60	26	3.93
BT	23.65	26	5.70
BU	0.00	0	0.00
BV	24.77	25	6.00
BW	25.45	26	6.17
BX	24.77	25	6.05
BY	7.72	22	2.00
BZ	18.63	30	4.42
C	19.05	26	4.53
CA	13.82	27	3.25
CB	20.90	25	5.18
CC	17.93	25	4.48
CD	16.58	22	4.07
CE	17.12	25	4.28
CF	29.45	27	7.20
CG	14.63	25	3.67
CH	23.00	48	5.47
CI	20.87	24	5.15
CJ	28.18	28	6.93
CK	36.33	36	8.83
CL	37.85	33	9.30
CM	37.17	36	9.05
CN	38.68	61	9.37
CO	45.58	77	11.02
CP	35.62	38	8.62
CQ	40.28	36	9.85
CR	35.20	37	8.75
CS	34.30	33	8.57

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
CT	40.02	40	10.02
CU	59.02	76	14.48
CV	44.58	39	10.92
CW	46.18	38	11.37
CX	46.67	43	11.75
CY	53.58	42	13.32
CZ	30.75	34	7.80
D	15.88	24	3.75
DA	35.92	35	9.08
DB	47.33	38	11.75
DC	59.23	47	15.05
DD	22.15	32	5.68
DE	23.97	33	6.17
DF	65.25	44	16.33
DG	19.92	32	5.20
DH	19.13	31	5.03
DI	44.57	41	11.43
DJ	29.42	38	7.78
DK	17.47	31	4.75
DL	32.17	40	8.52
DM	14.38	29	3.98
DN	24.73	36	6.68
DO	15.30	29	4.25
DP	14.17	29	3.93
DQ	18.35	32	5.07
DR	13.75	28	3.80
DS	17.00	31	4.70
DT	16.72	31	4.60
DU	16.05	31	4.40
DV	13.87	29	3.78
DW	14.60	29	3.93
DX	13.43	28	3.58
DY	15.23	30	4.10
DZ	23.22	29	5.92
E	0.00	0	0.00
EA	35.57	35	8.85
EB	22.67	30	5.82

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
EC	28.78	31	7.27
ED	40.63	38	10.20
EE	52.30	38	12.98
EF	50.85	35	12.73
EG	43.15	34	10.90
EH	34.23	33	8.77
EI	46.67	38	11.97
EJ	36.53	36	9.48
EK	18.85	31	4.93
EL	39.25	37	10.18
EM	14.47	28	3.92
EN	77.78	49	19.65
EO	43.97	40	11.50
EP	20.93	33	5.55
EQ	33.10	35	8.73
ER	19.77	32	5.25
ES	0.00	0	0.00
ET	49.68	42	13.03
EU	10.52	25	2.92
EV	41.10	40	10.92
EW	8.10	22	2.20
EX	11.52	26	3.15
EY	0.00	0	0.00
EZ	9.18	23	2.45
F	0.00	0	0.00
FA	8.40	23	2.22
FB	11.32	26	3.03
FC	0.00	0	0.00
FD	0.00	0	0.00
FE	35.05	39	9.45
FF	0.00	0	0.00
FG	0.00	0	0.00
FH	0.00	0	0.00
FI	0.00	0	0.00
FJ	0.00	0	0.00
FK	12.37	26	2.95
FL	33.32	30	8.12

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
FM	26.72	30	6.63
FN	37.38	35	9.12
FO	36.70	33	9.05
FP	40.77	34	10.02
FQ	60.67	47	14.95
FR	11.95	26	3.28
FS	14.40	29	3.93
FT	38.12	33	9.38
FU	41.03	30	10.13
FV	44.37	34	10.97
FW	21.92	28	5.47
FX	19.12	28	4.77
FY	18.17	28	4.53
FZ	17.08	27	4.25
G	0.00	0	0.00
GA	14.40	26	3.62
GB	16.12	28	4.07
GC	12.52	25	3.28
GD	9.33	22	2.17
GE	24.10	28	5.77
GF	22.52	30	5.38
GG	25.73	31	6.18
GH	14.55	24	3.82
GI	31.38	30	7.60
GJ	34.87	34	8.63
GK	23.35	28	5.77
GL	32.25	29	7.85
GM	30.77	29	7.50
GN	23.83	28	5.90
GO	33.20	30	8.08
GP	31.47	30	7.70
GQ	20.32	28	5.05
GR	24.95	30	6.20
GS	20.12	29	5.02
GT	17.07	29	4.33
GU	23.13	33	5.93
GV	14.97	28	4.05

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
GW	15.75	29	4.32
GX	14.43	29	4.03
GY	13.55	28	3.73
GZ	15.92	30	4.40
H	0.00	0	0.00
HA	16.47	31	4.48
HB	15.47	30	4.13
HC	14.00	29	3.70
HD	14.72	30	3.88
HE	8.53	23	2.20
HF	13.60	29	3.55
HG	7.68	22	1.98
HH	9.17	24	2.38
HI	10.67	25	2.78
HJ	8.82	23	2.28
HK	9.17	24	2.38
HL	0.00	0	0.00
HM	9.53	24	2.52
HN	0.00	0	0.00
HO	0.00	0	0.00
HP	0.00	0	0.00
HQ	21.22	23	5.08
HR	22.62	23	5.45
HS	16.95	23	4.18
HT	0.00	0	0.00
HU	0.00	0	0.00
HV	0.00	0	0.00
HW	0.00	0	0.00
HX	0.00	0	0.00
HY	4.85	16	1.10
HZ	11.18	23	2.77
I	0.00	0	0.00
IA	18.53	28	4.40
IB	19.52	29	4.63
IC	24.80	26	6.03
ID	13.23	24	3.27
IE	10.95	24	2.98

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
IF	8.70	22	2.43
IH	31.68	32	9.08
II	9.70	23	2.62
IJ	0.00	0	0.00
IK	43.55	39	10.55
IL	46.93	33	11.65
IM	4.08	10	1.20
IN	9.62	23	2.65
IO	24.32	24	7.12
IP	0.00	0	0.00
IQ	38.08	36	9.58
IR	18.77	32	5.15
IS	0.00	0	0.00
IT	12.50	23	3.08
IU	0.00	0	0.00
IV	0.00	0	0.00
IW	0.00	0	0.00
IX	9.95	24	2.67
IY	10.27	23	2.77
IZ	11.07	24	3.05
J	0.00	0	0.00
JA	10.45	23	2.92
JB	15.23	27	4.27
JC	13.18	25	3.68
JD	14.10	26	3.98
JE	12.87	25	3.63
JF	14.78	26	4.20
JG	13.98	25	3.98
JH	26.18	27	7.53
JI	31.80	29	9.27
JJ	29.07	27	8.47
JK	0.00	0	0.00
JL	0.00	0	0.00
JM	0.00	0	0.00
JN	0.00	0	0.00
JO	0.00	0	0.00
JP	12.90	23	3.13

Table 5: Shadow Flicker Modelling Results for the Project

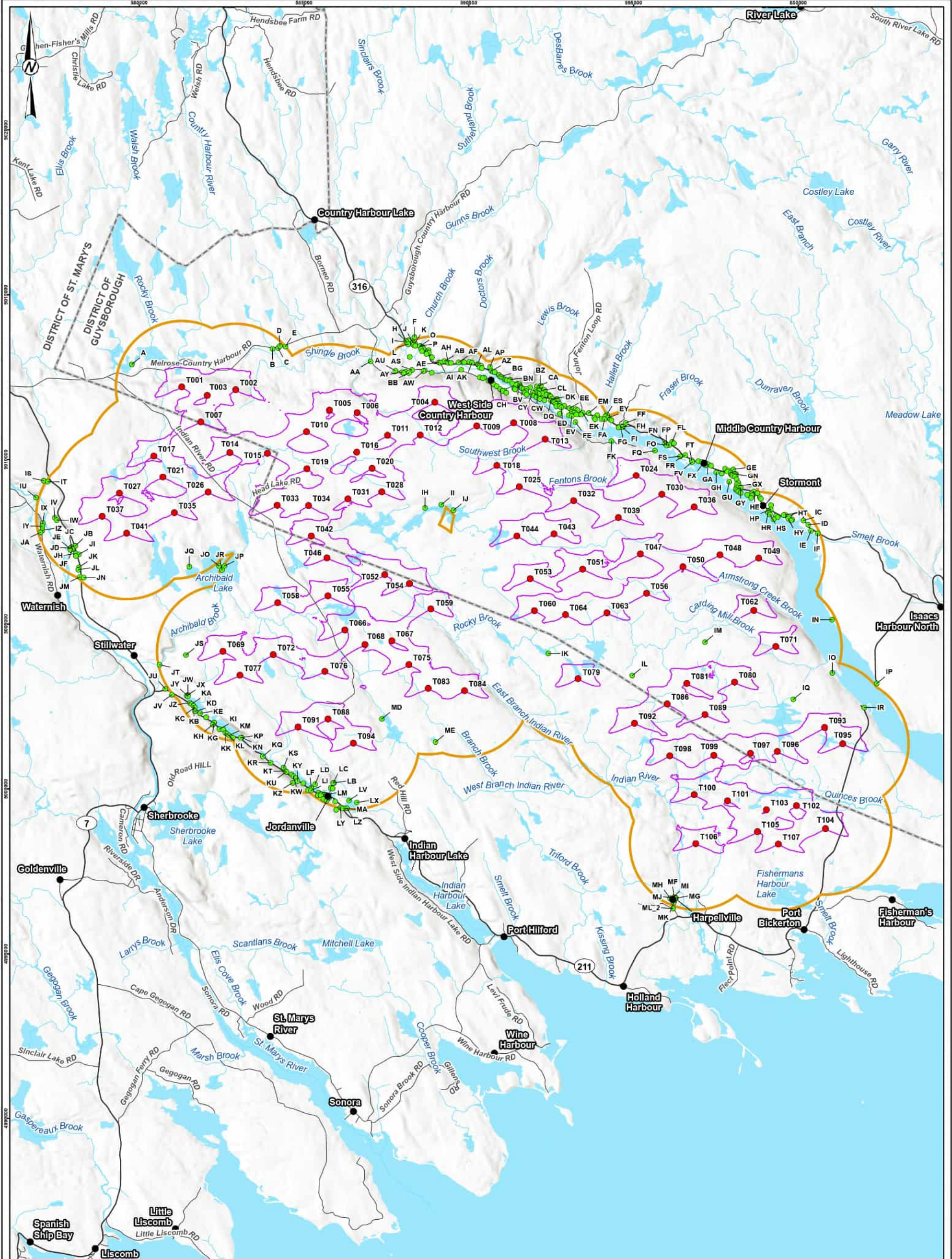
Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
JQ	0.00	0	0.00
JR	9.27	22	2.30
JS	35.17	38	9.50
JT	9.18	22	2.47
JU	0.00	0	0.00
JV	0.00	0	0.00
JW	22.07	26	6.30
JX	21.25	26	6.07
JY	27.52	27	7.95
JZ	10.20	21	3.02
K	0.00	0	0.00
KA	0.00	0	0.00
KB	0.00	0	0.00
KC	0.00	0	0.00
KD	0.00	0	0.00
KE	0.00	0	0.00
KF	0.00	0	0.00
KG	0.00	0	0.00
KH	0.00	0	0.00
KI	0.00	0	0.00
KJ	0.00	0	0.00
KK	0.00	0	0.00
KL	0.00	0	0.00
KM	0.00	0	0.00
KN	11.43	25	3.07
KO	0.00	0	0.00
KP	10.97	25	2.93
KQ	0.00	0	0.00
KR	0.00	0	0.00
KS	0.00	0	0.00
KT	0.00	0	0.00
KU	0.00	0	0.00
KV	0.00	0	0.00
KW	0.00	0	0.00
KX	0.00	0	0.00
KY	0.00	0	0.00
KZ	0.00	0	0.00

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
L	0.00	0	0.00
LA	0.00	0	0.00
LB	0.00	0	0.00
LC	0.00	0	0.00
LD	0.00	0	0.00
LE	0.00	0	0.00
LF	0.00	0	0.00
LG	0.00	0	0.00
LH	0.00	0	0.00
LI	0.00	0	0.00
LJ	0.00	0	0.00
LK	0.00	0	0.00
LL	0.00	0	0.00
LM	0.00	0	0.00
LN	0.00	0	0.00
LO	0.00	0	0.00
LP	0.00	0	0.00
LQ	0.00	0	0.00
LR	0.00	0	0.00
LS	0.00	0	0.00
LT	0.00	0	0.00
LU	0.00	0	0.00
LV	0.00	0	0.00
LW	0.00	0	0.00
LX	0.00	0	0.00
LY	0.00	0	0.00
LZ	0.00	0	0.00
M	0.00	0	0.00
MA	0.00	0	0.00
MB	0.00	0	0.00
MC	0.00	0	0.00
MD	62.07	40	15.32
ME	0.00	0	0.00
MF	0.00	0	0.00
MG	0.00	0	0.00
MH	0.00	0	0.00
MI	0.00	0	0.00

Table 5: Shadow Flicker Modelling Results for the Project

Receptor Identification Code	Worst-Case Assessment		Adjusted-Case Assessment
	Total Hours of Shadow Flicker Per Year	Maximum Minutes of Shadow Flicker on a Single Day	Total Hours of Shadow Flicker Per Year
MJ	0.00	0	0.00
MJ_2	0.00	0	0.00
MK	0.00	0	0.00
MK_2	0.00	0	0.00
ML	0.00	0	0.00
ML_2	0.00	0	0.00
N	0.00	0	0.00
O	0.00	0	0.00
P	0.00	0	0.00
Q	0.00	0	0.00
R	0.00	0	0.00
S	0.00	0	0.00
T	0.00	0	0.00
U	0.00	0	0.00
V	0.00	0	0.00
W	0.00	0	0.00
X	0.00	0	0.00
Y	0.00	0	0.00
Z	0.00	0	0.00



LEGEND

- COMMUNITY
- POTENTIAL RECEPTOR
- TURBINE LOCATION
- HIGHWAY
- LOCAL ROAD
- MUNICIPAL BOUNDARY
- WATERCOURSE
- STUDY AREA
- WATERBODY

PREDICTED SHADOW FLICKER (ADJUSTED-CASE)

- 30 HOURS PER YEAR



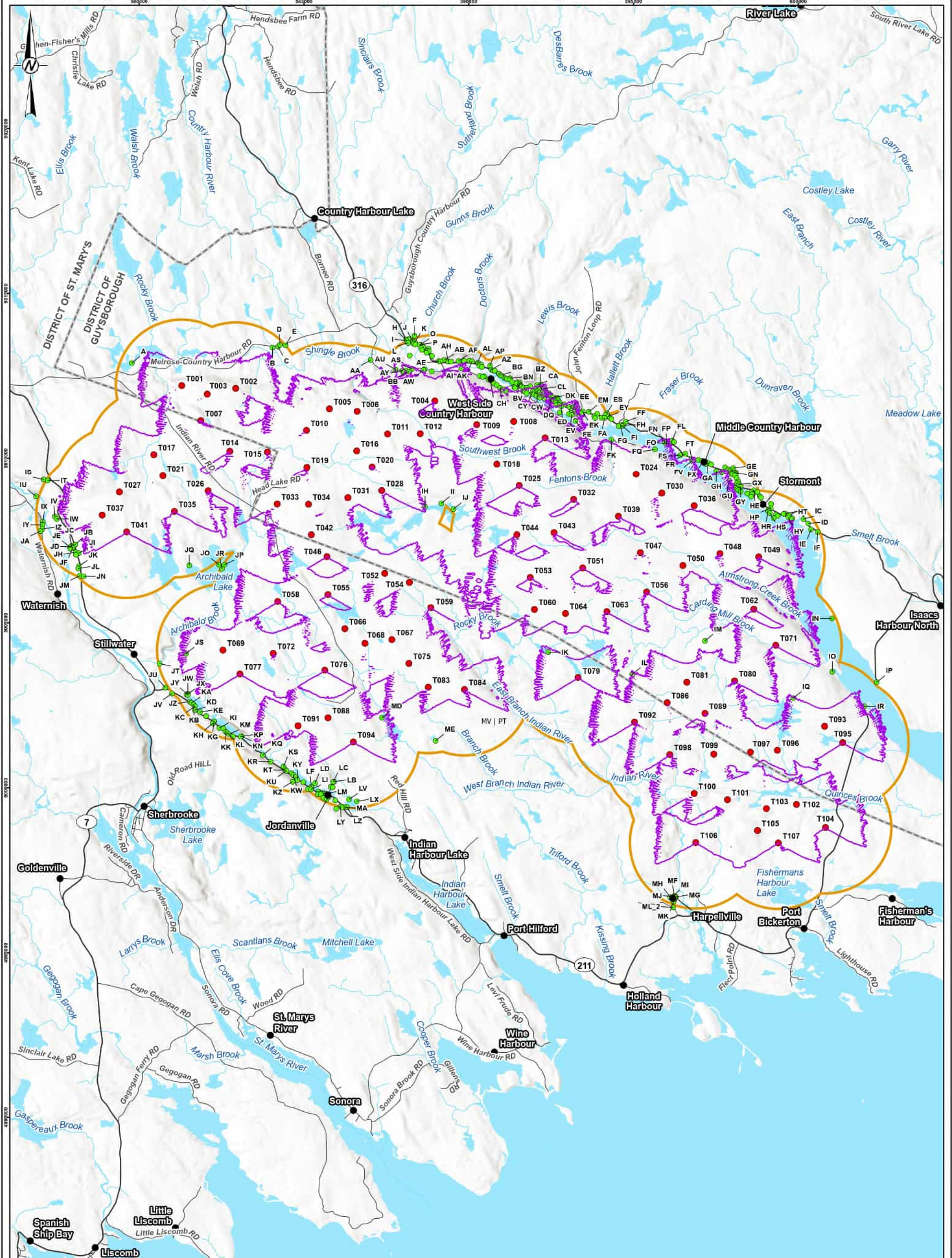
REFERENCE(S)
 DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
 DATUM: NAD83 PROJECTION: UTM ZONE 20

CLIENT
EVERWIND

PROJECT
HARBOUR HILLS WIND PROJECT

CONSULTANT	YYYY-MM-DD	2026-05-22
	DESIGNED	VY
	PREPARED	MV PT
	REVIEWED	VY
	APPROVED	NLH

TITLE	PROJECT NO.	CONTROL	REV.	FIGURE
TOTAL HOURS OF SHADOW FLICKER PER YEAR (ADJUSTED-CASE)	CA006864.6287	2000	0	2



LEGEND

- COMMUNITY
- POTENTIAL RECEPTOR
- TURBINE LOCATION
- HIGHWAY
- LOCAL ROAD
- MUNICIPAL BOUNDARY
- WATERCOURSE
- STUDY AREA
- WATERBODY

PREDICTED SHADOW FLICKER (WORST-CASE)

- 30 MINUTES PER DAY

CLIENT	EVERWIND
CONSULTANT	
YYYY-MM-DD	2026-05-22
DESIGNED	VY
PREPARED	MV
REVIEWED	VY
APPROVED	NLH

REFERENCE(S)
DIGITAL BASE DATA OBTAINED FROM GEOGRATIS, © DEPARTMENT OF NATURAL RESOURCES CANADA. ALL RIGHTS RESERVED.
DATUM: NAD83 PROJECTION: UTM ZONE 20

PROJECT
HARBOUR HILLS WIND PROJECT

TITLE
MAXIMUM MINUTES OF SHADOW FLICKER ON A SINGLE DAY (WORST-CASE)

PROJECT NO.	CONTROL	REV.	FIGURE
CA006864.6287	2000	0	3



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN ON THE SHEET, THE SIZE HAS BEEN MODIFIED FROM THE ORIGINAL DATA.

Table 6 compares total hours of shadow flicker per year predicted for the Adjusted-Case to the 30 hours per year shadow flicker limit from the EA Guide (Nova Scotia 2024). Table 6 indicates that shadow flicker from the Project is predicted to comply with the annual shadow flicker limits from the EA Guide at all potential receptors.

Table 6 also compares maximum minutes of shadow flicker on a single day predicted for the Worst-Case to the 30 minutes per day shadow flicker limit from the EA Guide (Nova Scotia 2024). Table 6 indicates there are 77 potential receptors where the maximum daily shadow flicker exceeds the 30-minute limit. The maximum predicted daily shadow flicker duration for any potential receptor is 77 minutes. Mitigation may be required to achieve compliance at the 77 potential receptors where maximum daily shadow flicker is predicted to exceed 30 minutes.

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
A	3.42	30	Project is compliant	26	30	Project is compliant
AA	0.25	30	Project is compliant	7	30	Project is compliant
AB	0.00	30	Project is compliant	0	30	Project is compliant
AC	5.32	30	Project is compliant	29	30	Project is compliant
AD	2.68	30	Project is compliant	24	30	Project is compliant
AE	0.00	30	Project is compliant	0	30	Project is compliant
AF	0.00	30	Project is compliant	0	30	Project is compliant
AG	3.48	30	Project is compliant	27	30	Project is compliant
AH	0.00	30	Project is compliant	0	30	Project is compliant
AI	0.00	30	Project is compliant	0	30	Project is compliant
AJ	0.00	30	Project is compliant	0	30	Project is compliant
AK	6.52	30	Project is compliant	28	30	Project is compliant
AL	5.07	30	Project is compliant	26	30	Project is compliant
AM	4.75	30	Project is compliant	26	30	Project is compliant
AN	4.08	30	Project is compliant	26	30	Project is compliant
AO	3.63	30	Project is compliant	25	30	Project is compliant
AP	2.55	30	Project is compliant	22	30	Project is compliant
AQ	3.78	30	Project is compliant	26	30	Project is compliant
AR	3.33	30	Project is compliant	25	30	Project is compliant
AS	7.12	30	Project is compliant	37	30	Mitigation may be required
AT	9.42	30	Project is compliant	35	30	Mitigation may be required
AU	10.08	30	Project is compliant	37	30	Mitigation may be required
AV	0.00	30	Project is compliant	0	30	Project is compliant
AW	1.22	30	Project is compliant	19	30	Project is compliant
AX	14.42	30	Project is compliant	58	30	Mitigation may be required
AY	15.12	30	Project is compliant	57	30	Mitigation may be required
AZ	2.47	30	Project is compliant	22	30	Project is compliant
B	2.87	30	Project is compliant	24	30	Project is compliant

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
BA	2.37	30	Project is compliant	22	30	Project is compliant
BB	14.30	30	Project is compliant	55	30	Mitigation may be required
BC	2.03	30	Project is compliant	25	30	Project is compliant
BD	14.55	30	Project is compliant	58	30	Mitigation may be required
BE	0.00	30	Project is compliant	0	30	Project is compliant
BF	0.00	30	Project is compliant	0	30	Project is compliant
BG	0.00	30	Project is compliant	0	30	Project is compliant
BH	3.77	30	Project is compliant	28	30	Project is compliant
BI	0.00	30	Project is compliant	0	30	Project is compliant
BJ	3.20	30	Project is compliant	25	30	Project is compliant
BK	3.42	30	Project is compliant	26	30	Project is compliant
BL	0.00	30	Project is compliant	0	30	Project is compliant
BM	0.00	30	Project is compliant	0	30	Project is compliant
BN	0.00	30	Project is compliant	0	30	Project is compliant
BO	0.00	30	Project is compliant	0	30	Project is compliant
BP	2.72	30	Project is compliant	24	30	Project is compliant
BQ	0.07	30	Project is compliant	4	30	Project is compliant
BR	2.45	30	Project is compliant	24	30	Project is compliant
BS	3.93	30	Project is compliant	26	30	Project is compliant
BT	5.70	30	Project is compliant	26	30	Project is compliant
BU	0.00	30	Project is compliant	0	30	Project is compliant
BV	6.00	30	Project is compliant	25	30	Project is compliant
BW	6.17	30	Project is compliant	26	30	Project is compliant
BX	6.05	30	Project is compliant	25	30	Project is compliant
BY	2.00	30	Project is compliant	22	30	Project is compliant
BZ	4.42	30	Project is compliant	30	30	Project is compliant
C	4.53	30	Project is compliant	26	30	Project is compliant
CA	3.25	30	Project is compliant	27	30	Project is compliant
CB	5.18	30	Project is compliant	25	30	Project is compliant
CC	4.48	30	Project is compliant	25	30	Project is compliant
CD	4.07	30	Project is compliant	22	30	Project is compliant
CE	4.28	30	Project is compliant	25	30	Project is compliant
CF	7.20	30	Project is compliant	27	30	Project is compliant
CG	3.67	30	Project is compliant	25	30	Project is compliant
CH	5.47	30	Project is compliant	48	30	Mitigation may be required
CI	5.15	30	Project is compliant	24	30	Project is compliant
CJ	6.93	30	Project is compliant	28	30	Project is compliant
CK	8.83	30	Project is compliant	36	30	Mitigation may be required
CL	9.30	30	Project is compliant	33	30	Mitigation may be required

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
CM	9.05	30	Project is compliant	36	30	Mitigation may be required
CN	9.37	30	Project is compliant	61	30	Mitigation may be required
CO	11.02	30	Project is compliant	77	30	Mitigation may be required
CP	8.62	30	Project is compliant	38	30	Mitigation may be required
CQ	9.85	30	Project is compliant	36	30	Mitigation may be required
CR	8.75	30	Project is compliant	37	30	Mitigation may be required
CS	8.57	30	Project is compliant	33	30	Mitigation may be required
CT	10.02	30	Project is compliant	40	30	Mitigation may be required
CU	14.48	30	Project is compliant	76	30	Mitigation may be required
CV	10.92	30	Project is compliant	39	30	Mitigation may be required
CW	11.37	30	Project is compliant	38	30	Mitigation may be required
CX	11.75	30	Project is compliant	43	30	Mitigation may be required
CY	13.32	30	Project is compliant	42	30	Mitigation may be required
CZ	7.80	30	Project is compliant	34	30	Mitigation may be required
D	3.75	30	Project is compliant	24	30	Project is compliant
DA	9.08	30	Project is compliant	35	30	Mitigation may be required
DB	11.75	30	Project is compliant	38	30	Mitigation may be required
DC	15.05	30	Project is compliant	47	30	Mitigation may be required
DD	5.68	30	Project is compliant	32	30	Mitigation may be required
DE	6.17	30	Project is compliant	33	30	Mitigation may be required
DF	16.33	30	Project is compliant	44	30	Mitigation may be required
DG	5.20	30	Project is compliant	32	30	Mitigation may be required
DH	5.03	30	Project is compliant	31	30	Mitigation may be required
DI	11.43	30	Project is compliant	41	30	Mitigation may be required

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
DJ	7.78	30	Project is compliant	38	30	Mitigation may be required
DK	4.75	30	Project is compliant	31	30	Mitigation may be required
DL	8.52	30	Project is compliant	40	30	Mitigation may be required
DM	3.98	30	Project is compliant	29	30	Project is compliant
DN	6.68	30	Project is compliant	36	30	Mitigation may be required
DO	4.25	30	Project is compliant	29	30	Project is compliant
DP	3.93	30	Project is compliant	29	30	Project is compliant
DQ	5.07	30	Project is compliant	32	30	Mitigation may be required
DR	3.80	30	Project is compliant	28	30	Project is compliant
DS	4.70	30	Project is compliant	31	30	Mitigation may be required
DT	4.60	30	Project is compliant	31	30	Mitigation may be required
DU	4.40	30	Project is compliant	31	30	Mitigation may be required
DV	3.78	30	Project is compliant	29	30	Project is compliant
DW	3.93	30	Project is compliant	29	30	Project is compliant
DX	3.58	30	Project is compliant	28	30	Project is compliant
DY	4.10	30	Project is compliant	30	30	Project is compliant
DZ	5.92	30	Project is compliant	29	30	Project is compliant
E	0.00	30	Project is compliant	0	30	Project is compliant
EA	8.85	30	Project is compliant	35	30	Mitigation may be required
EB	5.82	30	Project is compliant	30	30	Project is compliant
EC	7.27	30	Project is compliant	31	30	Mitigation may be required
ED	10.20	30	Project is compliant	38	30	Mitigation may be required
EE	12.98	30	Project is compliant	38	30	Mitigation may be required
EF	12.73	30	Project is compliant	35	30	Mitigation may be required
EG	10.90	30	Project is compliant	34	30	Mitigation may be required
EH	8.77	30	Project is compliant	33	30	Mitigation may be required
EI	11.97	30	Project is compliant	38	30	Mitigation may be required
EJ	9.48	30	Project is compliant	36	30	Mitigation may be required
EK	4.93	30	Project is compliant	31	30	Mitigation may be required

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
EL	10.18	30	Project is compliant	37	30	Mitigation may be required
EM	3.92	30	Project is compliant	28	30	Project is compliant
EN	19.65	30	Project is compliant	49	30	Mitigation may be required
EO	11.50	30	Project is compliant	40	30	Mitigation may be required
EP	5.55	30	Project is compliant	33	30	Mitigation may be required
EQ	8.73	30	Project is compliant	35	30	Mitigation may be required
ER	5.25	30	Project is compliant	32	30	Mitigation may be required
ES	0.00	30	Project is compliant	0	30	Project is compliant
ET	13.03	30	Project is compliant	42	30	Mitigation may be required
EU	2.92	30	Project is compliant	25	30	Project is compliant
EV	10.92	30	Project is compliant	40	30	Mitigation may be required
EW	2.20	30	Project is compliant	22	30	Project is compliant
EX	3.15	30	Project is compliant	26	30	Project is compliant
EY	0.00	30	Project is compliant	0	30	Project is compliant
EZ	2.45	30	Project is compliant	23	30	Project is compliant
F	0.00	30	Project is compliant	0	30	Project is compliant
FA	2.22	30	Project is compliant	23	30	Project is compliant
FB	3.03	30	Project is compliant	26	30	Project is compliant
FC	0.00	30	Project is compliant	0	30	Project is compliant
FD	0.00	30	Project is compliant	0	30	Project is compliant
FE	9.45	30	Project is compliant	39	30	Mitigation may be required
FF	0.00	30	Project is compliant	0	30	Project is compliant
FG	0.00	30	Project is compliant	0	30	Project is compliant
FH	0.00	30	Project is compliant	0	30	Project is compliant
FI	0.00	30	Project is compliant	0	30	Project is compliant
FJ	0.00	30	Project is compliant	0	30	Project is compliant
FK	2.95	30	Project is compliant	26	30	Project is compliant
FL	8.12	30	Project is compliant	30	30	Project is compliant
FM	6.63	30	Project is compliant	30	30	Project is compliant
FN	9.12	30	Project is compliant	35	30	Mitigation may be required
FO	9.05	30	Project is compliant	33	30	Mitigation may be required
FP	10.02	30	Project is compliant	34	30	Mitigation may be required
FQ	14.95	30	Project is compliant	47	30	Mitigation may be required

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
FR	3.28	30	Project is compliant	26	30	Project is compliant
FS	3.93	30	Project is compliant	29	30	Project is compliant
FT	9.38	30	Project is compliant	33	30	Mitigation may be required
FU	10.13	30	Project is compliant	30	30	Project is compliant
FV	10.97	30	Project is compliant	34	30	Mitigation may be required
FW	5.47	30	Project is compliant	28	30	Project is compliant
FX	4.77	30	Project is compliant	28	30	Project is compliant
FY	4.53	30	Project is compliant	28	30	Project is compliant
FZ	4.25	30	Project is compliant	27	30	Project is compliant
G	0.00	30	Project is compliant	0	30	Project is compliant
GA	3.62	30	Project is compliant	26	30	Project is compliant
GB	4.07	30	Project is compliant	28	30	Project is compliant
GC	3.28	30	Project is compliant	25	30	Project is compliant
GD	2.17	30	Project is compliant	22	30	Project is compliant
GE	5.77	30	Project is compliant	28	30	Project is compliant
GF	5.38	30	Project is compliant	30	30	Project is compliant
GG	6.18	30	Project is compliant	31	30	Mitigation may be required
GH	3.82	30	Project is compliant	24	30	Project is compliant
GI	7.60	30	Project is compliant	30	30	Project is compliant
GJ	8.63	30	Project is compliant	34	30	Mitigation may be required
GK	5.77	30	Project is compliant	28	30	Project is compliant
GL	7.85	30	Project is compliant	29	30	Project is compliant
GM	7.50	30	Project is compliant	29	30	Project is compliant
GN	5.90	30	Project is compliant	28	30	Project is compliant
GO	8.08	30	Project is compliant	30	30	Project is compliant
GP	7.70	30	Project is compliant	30	30	Project is compliant
GQ	5.05	30	Project is compliant	28	30	Project is compliant
GR	6.20	30	Project is compliant	30	30	Project is compliant
GS	5.02	30	Project is compliant	29	30	Project is compliant
GT	4.33	30	Project is compliant	29	30	Project is compliant
GU	5.93	30	Project is compliant	33	30	Mitigation may be required
GV	4.05	30	Project is compliant	28	30	Project is compliant
GW	4.32	30	Project is compliant	29	30	Project is compliant
GX	4.03	30	Project is compliant	29	30	Project is compliant
GY	3.73	30	Project is compliant	28	30	Project is compliant
GZ	4.40	30	Project is compliant	30	30	Project is compliant
H	0.00	30	Project is compliant	0	30	Project is compliant
HA	4.48	30	Project is compliant	31	30	Mitigation may be required

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
HB	4.13	30	Project is compliant	30	30	Project is compliant
HC	3.70	30	Project is compliant	29	30	Project is compliant
HD	3.88	30	Project is compliant	30	30	Project is compliant
HE	2.20	30	Project is compliant	23	30	Project is compliant
HF	3.55	30	Project is compliant	29	30	Project is compliant
HG	1.98	30	Project is compliant	22	30	Project is compliant
HH	2.38	30	Project is compliant	24	30	Project is compliant
HI	2.78	30	Project is compliant	25	30	Project is compliant
HJ	2.28	30	Project is compliant	23	30	Project is compliant
HK	2.38	30	Project is compliant	24	30	Project is compliant
HL	0.00	30	Project is compliant	0	30	Project is compliant
HM	2.52	30	Project is compliant	24	30	Project is compliant
HN	0.00	30	Project is compliant	0	30	Project is compliant
HO	0.00	30	Project is compliant	0	30	Project is compliant
HP	0.00	30	Project is compliant	0	30	Project is compliant
HQ	5.08	30	Project is compliant	23	30	Project is compliant
HR	5.45	30	Project is compliant	23	30	Project is compliant
HS	4.18	30	Project is compliant	23	30	Project is compliant
HT	0.00	30	Project is compliant	0	30	Project is compliant
HU	0.00	30	Project is compliant	0	30	Project is compliant
HV	0.00	30	Project is compliant	0	30	Project is compliant
HW	0.00	30	Project is compliant	0	30	Project is compliant
HX	0.00	30	Project is compliant	0	30	Project is compliant
HY	1.10	30	Project is compliant	16	30	Project is compliant
HZ	2.77	30	Project is compliant	23	30	Project is compliant
I	0.00	30	Project is compliant	0	30	Project is compliant
IA	4.40	30	Project is compliant	28	30	Project is compliant
IB	4.63	30	Project is compliant	29	30	Project is compliant
IC	6.03	30	Project is compliant	26	30	Project is compliant
ID	3.27	30	Project is compliant	24	30	Project is compliant
IE	2.98	30	Project is compliant	24	30	Project is compliant
IF	2.43	30	Project is compliant	22	30	Project is compliant
IH	9.08	30	Project is compliant	32	30	Mitigation may be required
II	2.62	30	Project is compliant	23	30	Project is compliant
IJ	0.00	30	Project is compliant	0	30	Project is compliant
IK	10.55	30	Project is compliant	39	30	Mitigation may be required
IL	11.65	30	Project is compliant	33	30	Mitigation may be required
IM	1.20	30	Project is compliant	10	30	Project is compliant
IN	2.65	30	Project is compliant	23	30	Project is compliant
IO	7.12	30	Project is compliant	24	30	Project is compliant
IP	0.00	30	Project is compliant	0	30	Project is compliant

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
IQ	9.58	30	Project is compliant	36	30	Mitigation may be required
IR	5.15	30	Project is compliant	32	30	Mitigation may be required
IS	0.00	30	Project is compliant	0	30	Project is compliant
IT	3.08	30	Project is compliant	23	30	Project is compliant
IU	0.00	30	Project is compliant	0	30	Project is compliant
IV	0.00	30	Project is compliant	0	30	Project is compliant
IW	0.00	30	Project is compliant	0	30	Project is compliant
IX	2.67	30	Project is compliant	24	30	Project is compliant
IY	2.77	30	Project is compliant	23	30	Project is compliant
IZ	3.05	30	Project is compliant	24	30	Project is compliant
J	0.00	30	Project is compliant	0	30	Project is compliant
JA	2.92	30	Project is compliant	23	30	Project is compliant
JB	4.27	30	Project is compliant	27	30	Project is compliant
JC	3.68	30	Project is compliant	25	30	Project is compliant
JD	3.98	30	Project is compliant	26	30	Project is compliant
JE	3.63	30	Project is compliant	25	30	Project is compliant
JF	4.20	30	Project is compliant	26	30	Project is compliant
JG	3.98	30	Project is compliant	25	30	Project is compliant
JH	7.53	30	Project is compliant	27	30	Project is compliant
JI	9.27	30	Project is compliant	29	30	Project is compliant
JJ	8.47	30	Project is compliant	27	30	Project is compliant
JK	0.00	30	Project is compliant	0	30	Project is compliant
JL	0.00	30	Project is compliant	0	30	Project is compliant
JM	0.00	30	Project is compliant	0	30	Project is compliant
JN	0.00	30	Project is compliant	0	30	Project is compliant
JO	0.00	30	Project is compliant	0	30	Project is compliant
JP	3.13	30	Project is compliant	23	30	Project is compliant
JQ	0.00	30	Project is compliant	0	30	Project is compliant
JR	2.30	30	Project is compliant	22	30	Project is compliant
JS	9.50	30	Project is compliant	38	30	Mitigation may be required
JT	2.47	30	Project is compliant	22	30	Project is compliant
JU	0.00	30	Project is compliant	0	30	Project is compliant
JV	0.00	30	Project is compliant	0	30	Project is compliant
JW	6.30	30	Project is compliant	26	30	Project is compliant
JX	6.07	30	Project is compliant	26	30	Project is compliant
JY	7.95	30	Project is compliant	27	30	Project is compliant
JZ	3.02	30	Project is compliant	21	30	Project is compliant
K	0.00	30	Project is compliant	0	30	Project is compliant
KA	0.00	30	Project is compliant	0	30	Project is compliant
KB	0.00	30	Project is compliant	0	30	Project is compliant
KC	0.00	30	Project is compliant	0	30	Project is compliant

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
KD	0.00	30	Project is compliant	0	30	Project is compliant
KE	0.00	30	Project is compliant	0	30	Project is compliant
KF	0.00	30	Project is compliant	0	30	Project is compliant
KG	0.00	30	Project is compliant	0	30	Project is compliant
KH	0.00	30	Project is compliant	0	30	Project is compliant
KI	0.00	30	Project is compliant	0	30	Project is compliant
KJ	0.00	30	Project is compliant	0	30	Project is compliant
KK	0.00	30	Project is compliant	0	30	Project is compliant
KL	0.00	30	Project is compliant	0	30	Project is compliant
KM	0.00	30	Project is compliant	0	30	Project is compliant
KN	3.07	30	Project is compliant	25	30	Project is compliant
KO	0.00	30	Project is compliant	0	30	Project is compliant
KP	2.93	30	Project is compliant	25	30	Project is compliant
KQ	0.00	30	Project is compliant	0	30	Project is compliant
KR	0.00	30	Project is compliant	0	30	Project is compliant
KS	0.00	30	Project is compliant	0	30	Project is compliant
KT	0.00	30	Project is compliant	0	30	Project is compliant
KU	0.00	30	Project is compliant	0	30	Project is compliant
KV	0.00	30	Project is compliant	0	30	Project is compliant
KW	0.00	30	Project is compliant	0	30	Project is compliant
KX	0.00	30	Project is compliant	0	30	Project is compliant
KY	0.00	30	Project is compliant	0	30	Project is compliant
KZ	0.00	30	Project is compliant	0	30	Project is compliant
L	0.00	30	Project is compliant	0	30	Project is compliant
LA	0.00	30	Project is compliant	0	30	Project is compliant
LB	0.00	30	Project is compliant	0	30	Project is compliant
LC	0.00	30	Project is compliant	0	30	Project is compliant
LD	0.00	30	Project is compliant	0	30	Project is compliant
LE	0.00	30	Project is compliant	0	30	Project is compliant
LF	0.00	30	Project is compliant	0	30	Project is compliant
LG	0.00	30	Project is compliant	0	30	Project is compliant
LH	0.00	30	Project is compliant	0	30	Project is compliant
LI	0.00	30	Project is compliant	0	30	Project is compliant
LJ	0.00	30	Project is compliant	0	30	Project is compliant
LK	0.00	30	Project is compliant	0	30	Project is compliant
LL	0.00	30	Project is compliant	0	30	Project is compliant
LM	0.00	30	Project is compliant	0	30	Project is compliant
LN	0.00	30	Project is compliant	0	30	Project is compliant
LO	0.00	30	Project is compliant	0	30	Project is compliant
LP	0.00	30	Project is compliant	0	30	Project is compliant
LQ	0.00	30	Project is compliant	0	30	Project is compliant
LR	0.00	30	Project is compliant	0	30	Project is compliant
LS	0.00	30	Project is compliant	0	30	Project is compliant

Table 6: Compliance Assessment

Receptor Identification Code	Total Hours Per Year of Shadow Flicker			Maximum Minutes of Shadow Flicker on a Single Day		
	Project Prediction (Adjusted-Case)	Limit from EA Guide	Assessment	Project Prediction (Worst-Case)	Limit from EA Guide	Assessment
LT	0.00	30	Project is compliant	0	30	Project is compliant
LU	0.00	30	Project is compliant	0	30	Project is compliant
LV	0.00	30	Project is compliant	0	30	Project is compliant
LW	0.00	30	Project is compliant	0	30	Project is compliant
LX	0.00	30	Project is compliant	0	30	Project is compliant
LY	0.00	30	Project is compliant	0	30	Project is compliant
LZ	0.00	30	Project is compliant	0	30	Project is compliant
M	0.00	30	Project is compliant	0	30	Project is compliant
MA	0.00	30	Project is compliant	0	30	Project is compliant
MB	0.00	30	Project is compliant	0	30	Project is compliant
MC	0.00	30	Project is compliant	0	30	Project is compliant
MD	15.32	30	Project is compliant	40	30	Mitigation may be required
ME	0.00	30	Project is compliant	0	30	Project is compliant
MF	0.00	30	Project is compliant	0	30	Project is compliant
MG	0.00	30	Project is compliant	0	30	Project is compliant
MH	0.00	30	Project is compliant	0	30	Project is compliant
MI	0.00	30	Project is compliant	0	30	Project is compliant
MJ	0.00	30	Project is compliant	0	30	Project is compliant
MJ_2	0.00	30	Project is compliant	0	30	Project is compliant
MK	0.00	30	Project is compliant	0	30	Project is compliant
MK_2	0.00	30	Project is compliant	0	30	Project is compliant
ML	0.00	30	Project is compliant	0	30	Project is compliant
ML_2	0.00	30	Project is compliant	0	30	Project is compliant
N	0.00	30	Project is compliant	0	30	Project is compliant
O	0.00	30	Project is compliant	0	30	Project is compliant
P	0.00	30	Project is compliant	0	30	Project is compliant
Q	0.00	30	Project is compliant	0	30	Project is compliant
R	0.00	30	Project is compliant	0	30	Project is compliant
S	0.00	30	Project is compliant	0	30	Project is compliant
T	0.00	30	Project is compliant	0	30	Project is compliant
U	0.00	30	Project is compliant	0	30	Project is compliant
V	0.00	30	Project is compliant	0	30	Project is compliant
W	0.00	30	Project is compliant	0	30	Project is compliant
X	0.00	30	Project is compliant	0	30	Project is compliant
Y	0.00	30	Project is compliant	0	30	Project is compliant
Z	0.00	30	Project is compliant	0	30	Project is compliant

It is important to note that shadow flicker modelling incorporates several conservative assumptions that tend to overestimate actual exposure durations. Most importantly for the predicted exceedances of the 30 minutes per day limit, the modelling assumes each potential receptor has windows facing in all directions (i.e., greenhouse mode) and the modelling does not account for shielding by trees, outbuildings, and other local structures. As such, it is likely that actual shadow flicker durations during Project operations will not exceed the 30 minutes per day limit. However, in the unlikely event of a shadow flicker issue during Project operations, temporary curtailment of 14 turbines (i.e., T004, T006, T008, T009, T013, T024, T028, T030, T036, T069, T079, T086, T093, and T094) during specific dates/times could be implemented to reduce the duration of shadow flicker exposure. A potential wind turbine curtailment schedule for these 14 turbines is presented in Appendix A of this report.

5 SUMMARY AND DISCUSSION

A shadow flicker assessment was completed for the Project in accordance with guidance set out in the EA Guide (Nova Scotia 2024). The shadow flicker assessment considered potential effects to 352 potential receptors located within approximately 2.1 km of the Project. Compliance with the EA Guide was assessed by comparing predicted shadow flicker levels to a limit of 30 hours per year and 30 minutes per day.

The shadow flicker assessment evaluated two conservative modelling scenarios: Worst-Case and Adjusted-Case. The Worst-Case assessment assumed the sun is always shining during daylight hours (i.e., no cloudy periods), all Project wind turbines are always active (i.e., rotors always turning), and all Project wind turbines are always oriented with their rotors perpendicular to the line joining the sun and all potential receptors. The Adjusted-Case assessment used historical weather data to estimate the probability of sunshine for each month of the year and to estimate the probability of different wind directions (and hence turbine orientations). Both assessment cases assumed that potential receptors are sensitive to shadow flicker in every direction (i.e., greenhouse mode) and neither assessment case accounted for screening of shadow flicker by vegetation, outbuildings, or other structures.

The shadow flicker assessment concluded the Project will comply with the 30 hours per year limit from the EA Guide (Nova Scotia 2024) at all potential receptors. The shadow flicker assessment also concluded that, with the implementation of an appropriate wind turbine curtailment schedule (see Appendix A), the Project could comply with the 30 minutes per day limit from the EA Guide (Nova Scotia 2024) at all potential receptors. As such, the Project will not result in unacceptable shadow flicker effects.

Signature Page

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6 REFERENCES

Nova Scotia (Nova Scotia Policy Division Environmental Assessment Branch). 2024. Environmental Assessment Supplemental Checklist: Wind Energy Project.

APPENDIX A

Curtailment Schedule

Appendix A – Shadow Flicker Curtailment Schedule

For each of the 77 potential receptors where modelling predicted potential non-compliance with daily shadow flicker limits (see Table 6 of the main report), the WindPro® software was used to identify the specific Project wind turbine(s) that contribute to the predicted shadow flicker and the specific dates and times when these wind turbine(s) may cause shadow flicker. Using this information, WSP developed a wind turbine curtailment schedule that results in predicted shadow flicker exposure less than 30 minutes per day for each potential receptor.

Curtailment may be required for up to 14 wind turbines: T004, T006, T008, T009, T013, T024, T028, T030, T036, T069, T079, T086, T093, and T094. The following tables present a curtailment schedule that will be sufficient to achieve compliance with daily shadow flicker limits at all receptors. More specifically:

- Table A-1 provides a curtailment schedule for wind turbine T004
- Table A-2 provides a curtailment schedule for wind turbine T006
- Table A-3 provides a curtailment schedule for wind turbine T008
- Table A-4 provides a curtailment schedule for wind turbine T009
- Table A-5 provides a curtailment schedule for wind turbine T013
- Table A-6 provides a curtailment schedule for wind turbine T024
- Table A-7 provides a curtailment schedule for wind turbine T028
- Table A-8 provides a curtailment schedule for wind turbine T030
- Table A-9 provides a curtailment schedule for wind turbine T036
- Table A-10 provides a curtailment schedule for wind turbine T069
- Table A-11 provides a curtailment schedule for wind turbine T079
- Table A-12 provides a curtailment schedule for wind turbine T086
- Table A-13 provides a curtailment schedule for wind turbine T093
- Table A-14 provides a curtailment schedule for wind turbine T094

Table A-1: Curtailment Schedule for Turbine T004

Date	Curtailment Period
Jan 1	any 4 minute(s) between 14:43 and 15:17
Jan 2	any 5 minute(s) between 14:43 and 15:18
Jan 3	any 4 minute(s) between 14:44 and 15:18
Jan 4	any 5 minute(s) between 14:44 and 15:19
Jan 5	any 5 minute(s) between 14:45 and 15:20
Jan 6	any 5 minute(s) between 14:45 and 15:20
Jan 7	any 5 minute(s) between 14:45 and 15:20
Jan 8	any 5 minute(s) between 14:46 and 15:21
Jan 9	any 5 minute(s) between 14:47 and 15:22
Jan 10	any 4 minute(s) between 14:47 and 15:21
Jan 11	any 5 minute(s) between 14:47 and 15:22
Jan 12	any 2 minute(s) between 08:43 and 09:15 AND any 5 minute(s) between 14:47 and 15:22
Jan 13	any 2 minute(s) between 08:44 and 09:16 AND any 4 minute(s) between 14:49 and 15:23
Jan 14	any 2 minute(s) between 08:44 and 09:16 AND any 4 minute(s) between 14:49 and 15:23
Jan 15	any 3 minute(s) between 08:44 and 09:17 AND any 3 minute(s) between 14:50 and 15:23
Jan 16	any 3 minute(s) between 08:44 and 09:17 AND any 3 minute(s) between 14:50 and 15:23
Jan 17	any 4 minute(s) between 08:44 and 09:18 AND any 2 minute(s) between 14:51 and 15:23
Jan 18	any 4 minute(s) between 08:45 and 09:19 AND any 1 minute(s) between 14:52 and 15:23
Jan 19	any 4 minute(s) between 08:45 and 09:19
Jan 20	any 4 minute(s) between 08:45 and 09:19
Jan 21	any 4 minute(s) between 08:45 and 09:19
Jan 22	any 4 minute(s) between 08:45 and 09:19
Jan 23	any 3 minute(s) between 08:46 and 09:19
Jan 24	any 3 minute(s) between 08:46 and 09:19
Jan 25	any 2 minute(s) between 08:47 and 09:19
Jan 26	any 2 minute(s) between 08:47 and 09:19
Jan 27	any 1 minute(s) between 08:48 and 09:19
Nov 15	any 1 minute(s) between 08:21 and 08:52
Nov 16	any 2 minute(s) between 08:20 and 08:52
Nov 17	any 2 minute(s) between 08:21 and 08:53
Nov 18	any 3 minute(s) between 08:20 and 08:53
Nov 19	any 3 minute(s) between 08:21 and 08:54
Nov 20	any 4 minute(s) between 08:20 and 08:54
Nov 21	any 4 minute(s) between 08:21 and 08:55
Nov 22	any 4 minute(s) between 08:21 and 08:55
Nov 23	any 4 minute(s) between 08:21 and 08:55
Nov 24	any 4 minute(s) between 08:22 and 08:56 AND any 1 minute(s) between 14:29 and 15:00
Nov 25	any 4 minute(s) between 08:22 and 08:56 AND any 2 minute(s) between 14:29 and 15:01
Nov 26	any 4 minute(s) between 08:23 and 08:57 AND any 3 minute(s) between 14:28 and 15:01
Nov 27	any 3 minute(s) between 08:23 and 08:56 AND any 3 minute(s) between 14:29 and 15:02
Nov 28	any 2 minute(s) between 08:24 and 08:56 AND any 4 minute(s) between 14:29 and 15:03
Nov 29	any 2 minute(s) between 08:24 and 08:56 AND any 4 minute(s) between 14:29 and 15:03
Nov 30	any 2 minute(s) between 08:25 and 08:57 AND any 4 minute(s) between 14:30 and 15:04
Dec 1	any 1 minute(s) between 08:26 and 08:57 AND any 4 minute(s) between 14:30 and 15:04
Dec 2	any 4 minute(s) between 14:30 and 15:04
Dec 3	any 5 minute(s) between 14:30 and 15:05
Dec 4	any 5 minute(s) between 14:30 and 15:05
Dec 5	any 5 minute(s) between 14:30 and 15:05
Dec 6	any 4 minute(s) between 14:32 and 15:06

Date	Curtailed Period
Dec 7	any 5 minute(s) between 14:32 and 15:07
Dec 8	any 5 minute(s) between 14:32 and 15:07
Dec 9	any 5 minute(s) between 14:33 and 15:08
Dec 10	any 5 minute(s) between 14:33 and 15:08
Dec 11	any 4 minute(s) between 14:34 and 15:08
Dec 12	any 5 minute(s) between 14:33 and 15:08
Dec 13	any 4 minute(s) between 14:34 and 15:08
Dec 14	any 4 minute(s) between 14:35 and 15:09
Dec 15	any 4 minute(s) between 14:36 and 15:10
Dec 16	any 4 minute(s) between 14:36 and 15:10
Dec 17	any 4 minute(s) between 14:36 and 15:10
Dec 18	any 4 minute(s) between 14:37 and 15:11
Dec 19	any 4 minute(s) between 14:38 and 15:12
Dec 20	any 3 minute(s) between 14:38 and 15:11
Dec 21	any 3 minute(s) between 14:39 and 15:12
Dec 22	any 3 minute(s) between 14:39 and 15:12
Dec 23	any 3 minute(s) between 14:39 and 15:12
Dec 24	any 3 minute(s) between 14:40 and 15:13
Dec 25	any 4 minute(s) between 14:40 and 15:14
Dec 26	any 4 minute(s) between 14:41 and 15:15
Dec 27	any 4 minute(s) between 14:41 and 15:15
Dec 28	any 4 minute(s) between 14:41 and 15:15
Dec 29	any 4 minute(s) between 14:42 and 15:16
Dec 30	any 4 minute(s) between 14:42 and 15:16
Dec 31	any 5 minute(s) between 14:42 and 15:17

Table A-2: Curtailed Schedule for Turbine T006

Date	Curtailed Period
Jan 6	any 1 minute(s) between 15:13 and 15:36
Jan 7	any 2 minute(s) between 15:14 and 15:35
Jan 8	any 5 minute(s) between 15:15 and 15:36
Jan 9	any 6 minute(s) between 15:16 and 15:36
Jan 10	any 6 minute(s) between 15:16 and 15:35
Jan 11	any 6 minute(s) between 15:18 and 15:35
Jan 12	any 6 minute(s) between 15:19 and 15:34
Jan 13	any 5 minute(s) between 15:21 and 15:34
Jan 14	any 4 minute(s) between 15:22 and 15:33
Nov 28	any 4 minute(s) between 15:02 and 15:13
Nov 29	any 5 minute(s) between 15:01 and 15:14
Nov 30	any 6 minute(s) between 15:01 and 15:16
Dec 1	any 6 minute(s) between 15:00 and 15:17
Dec 2	any 7 minute(s) between 14:59 and 15:18
Dec 3	any 6 minute(s) between 14:59 and 15:19
Dec 4	any 5 minute(s) between 14:59 and 15:20
Dec 5	any 2 minute(s) between 15:00 and 15:21

Table A-3: Curtailment Schedule for Turbine T008

Date	Curtailment Period
Jan 1	any 2 minute(s) between 10:58 and 11:28 AND any 16 minute(s) between 13:33 and 14:19
Jan 2	any 16 minute(s) between 13:34 and 14:20
Jan 3	any 16 minute(s) between 13:34 and 14:20
Jan 4	any 16 minute(s) between 13:35 and 14:21
Jan 5	any 15 minute(s) between 13:36 and 14:21
Jan 6	any 15 minute(s) between 13:36 and 14:21
Jan 7	any 14 minute(s) between 13:37 and 14:21
Jan 8	any 15 minute(s) between 13:37 and 14:22
Jan 9	any 14 minute(s) between 13:38 and 14:22
Jan 10	any 14 minute(s) between 13:38 and 14:22
Jan 11	any 13 minute(s) between 13:40 and 14:23
Jan 12	any 12 minute(s) between 13:40 and 14:22
Jan 13	any 12 minute(s) between 13:41 and 14:23
Jan 14	any 10 minute(s) between 13:42 and 14:22
Jan 15	any 10 minute(s) between 13:42 and 14:22
Jan 16	any 9 minute(s) between 13:44 and 14:23
Jan 17	any 8 minute(s) between 13:44 and 14:22
Jan 18	any 6 minute(s) between 13:45 and 14:21
Jan 19	any 5 minute(s) between 13:47 and 14:22
Jan 20	any 3 minute(s) between 13:48 and 14:21
Nov 22	any 3 minute(s) between 13:24 and 13:57
Nov 23	any 5 minute(s) between 13:23 and 13:58
Nov 24	any 6 minute(s) between 13:23 and 13:59
Nov 25	any 8 minute(s) between 13:22 and 14:00
Nov 26	any 9 minute(s) between 13:22 and 14:01
Nov 27	any 10 minute(s) between 13:22 and 14:02
Nov 28	any 10 minute(s) between 13:22 and 14:02
Nov 29	any 12 minute(s) between 13:21 and 14:03
Nov 30	any 12 minute(s) between 13:21 and 14:03
Dec 1	any 13 minute(s) between 13:22 and 14:05
Dec 2	any 13 minute(s) between 13:22 and 14:05
Dec 3	any 14 minute(s) between 13:22 and 14:06
Dec 4	any 14 minute(s) between 13:22 and 14:06
Dec 5	any 14 minute(s) between 13:22 and 14:06
Dec 6	any 15 minute(s) between 13:22 and 14:07
Dec 7	any 15 minute(s) between 13:22 and 14:07
Dec 8	any 16 minute(s) between 13:23 and 14:09
Dec 9	any 16 minute(s) between 13:23 and 14:09
Dec 10	any 16 minute(s) between 13:23 and 14:09
Dec 11	any 1 minute(s) between 10:48 and 11:18 AND any 16 minute(s) between 13:23 and 14:09
Dec 12	any 3 minute(s) between 10:48 and 11:19 AND any 16 minute(s) between 13:24 and 14:10
Dec 13	any 7 minute(s) between 10:49 and 11:19 AND any 17 minute(s) between 13:24 and 14:11
Dec 14	any 9 minute(s) between 10:49 and 11:21 AND any 16 minute(s) between 13:25 and 14:11
Dec 15	any 14 minute(s) between 10:49 and 11:22 AND any 16 minute(s) between 13:26 and 14:12
Dec 16	any 14 minute(s) between 10:49 and 11:22 AND any 17 minute(s) between 13:25 and 14:12
Dec 17	any 16 minute(s) between 10:49 and 11:23 AND any 16 minute(s) between 13:26 and 14:12
Dec 18	any 15 minute(s) between 10:50 and 11:24 AND any 16 minute(s) between 13:27 and 14:13
Dec 19	any 16 minute(s) between 10:50 and 11:24 AND any 16 minute(s) between 13:27 and 14:13
Dec 20	any 18 minute(s) between 10:51 and 11:25 AND any 16 minute(s) between 13:28 and 14:14

Date	Curtailement Period
Dec 21	any 18 minute(s) between 10:51 and 11:25 AND any 17 minute(s) between 13:27 and 14:14
Dec 22	any 18 minute(s) between 10:52 and 11:26 AND any 17 minute(s) between 13:28 and 14:15
Dec 23	any 18 minute(s) between 10:52 and 11:26 AND any 16 minute(s) between 13:29 and 14:15
Dec 24	any 18 minute(s) between 10:53 and 11:27 AND any 16 minute(s) between 13:30 and 14:16
Dec 25	any 16 minute(s) between 10:53 and 11:27 AND any 16 minute(s) between 13:30 and 14:16
Dec 26	any 16 minute(s) between 10:53 and 11:27 AND any 16 minute(s) between 13:30 and 14:16
Dec 27	any 15 minute(s) between 10:55 and 11:28 AND any 17 minute(s) between 13:31 and 14:18
Dec 28	any 14 minute(s) between 10:55 and 11:28 AND any 17 minute(s) between 13:31 and 14:18
Dec 29	any 10 minute(s) between 10:56 and 11:28 AND any 16 minute(s) between 13:32 and 14:18
Dec 30	any 9 minute(s) between 10:56 and 11:28 AND any 16 minute(s) between 13:32 and 14:18
Dec 31	any 6 minute(s) between 10:57 and 11:28 AND any 16 minute(s) between 13:33 and 14:19

Table A-4: Curtailment Schedule for Turbine T009

Date	Curtailment Period
Jan 1	any 30 minute(s) between 14:56 and 15:26
Jan 2	any 28 minute(s) between 14:56 and 15:27
Jan 3	any 21 minute(s) between 14:56 and 15:27
Jan 4	any 19 minute(s) between 14:57 and 15:28
Jan 5	any 15 minute(s) between 14:57 and 15:29
Jan 6	any 10 minute(s) between 14:58 and 15:30
Jan 7	any 1 minute(s) between 14:57 and 15:30
Jan 8	any 1 minute(s) between 14:58 and 15:30
Dec 4	any 1 minute(s) between 14:42 and 15:14
Dec 5	any 1 minute(s) between 14:42 and 15:15
Dec 6	any 10 minute(s) between 14:43 and 15:15
Dec 7	any 15 minute(s) between 14:44 and 15:16
Dec 8	any 19 minute(s) between 14:45 and 15:16
Dec 9	any 21 minute(s) between 14:45 and 15:17
Dec 10	any 27 minute(s) between 14:46 and 15:17
Dec 11	any 30 minute(s) between 14:46 and 15:16
Dec 12	any 31 minute(s) between 14:46 and 15:17
Dec 13	any 30 minute(s) between 14:47 and 15:17
Dec 14	any 30 minute(s) between 14:48 and 15:18
Dec 15	any 29 minute(s) between 14:49 and 15:18
Dec 16	any 29 minute(s) between 14:49 and 15:18
Dec 17	any 29 minute(s) between 14:49 and 15:18
Dec 18	any 29 minute(s) between 14:50 and 15:19
Dec 19	any 29 minute(s) between 14:50 and 15:19
Dec 20	any 29 minute(s) between 14:51 and 15:20
Dec 21	any 29 minute(s) between 14:51 and 15:20
Dec 22	any 29 minute(s) between 14:52 and 15:21
Dec 23	any 29 minute(s) between 14:52 and 15:21
Dec 24	any 29 minute(s) between 14:53 and 15:22
Dec 25	any 29 minute(s) between 14:53 and 15:22
Dec 26	any 29 minute(s) between 14:53 and 15:22
Dec 27	any 30 minute(s) between 14:54 and 15:24
Dec 28	any 29 minute(s) between 14:55 and 15:24
Dec 29	any 29 minute(s) between 14:55 and 15:24
Dec 30	any 30 minute(s) between 14:55 and 15:25
Dec 31	any 30 minute(s) between 14:55 and 15:25

Table A-5: Curtailment Schedule for Turbine T013

Date	Curtailment Period
Jan 1	any 17 minute(s) between 13:53 and 14:40
Jan 2	any 18 minute(s) between 13:53 and 14:41
Jan 3	any 17 minute(s) between 13:54 and 14:41
Jan 4	any 18 minute(s) between 13:54 and 14:42
Jan 5	any 18 minute(s) between 13:55 and 14:43
Jan 6	any 18 minute(s) between 13:54 and 14:42
Jan 7	any 18 minute(s) between 13:55 and 14:43
Jan 8	any 19 minute(s) between 13:55 and 14:44
Jan 9	any 19 minute(s) between 13:55 and 14:44
Jan 10	any 19 minute(s) between 13:56 and 14:45
Jan 11	any 18 minute(s) between 13:57 and 14:45
Jan 12	any 18 minute(s) between 13:57 and 14:45
Jan 13	any 18 minute(s) between 13:58 and 14:46
Jan 14	any 18 minute(s) between 13:58 and 14:46
Jan 15	any 18 minute(s) between 13:58 and 14:46
Jan 16	any 18 minute(s) between 13:59 and 14:47
Jan 17	any 18 minute(s) between 13:59 and 14:47
Jan 18	any 18 minute(s) between 13:59 and 14:47
Jan 19	any 17 minute(s) between 14:01 and 14:48
Jan 20	any 17 minute(s) between 14:01 and 14:48
Jan 21	any 15 minute(s) between 14:02 and 14:47
Jan 22	any 15 minute(s) between 14:02 and 14:47
Jan 23	any 14 minute(s) between 14:03 and 14:47
Jan 24	any 13 minute(s) between 14:04 and 14:47
Jan 25	any 12 minute(s) between 14:05 and 14:47
Jan 26	any 10 minute(s) between 14:06 and 14:46
Jan 27	any 9 minute(s) between 14:07 and 14:46
Jan 28	any 7 minute(s) between 14:08 and 14:45
Jan 29	any 5 minute(s) between 14:10 and 14:45
Jan 30	any 2 minute(s) between 14:12 and 14:44
Nov 12	any 3 minute(s) between 13:42 and 14:15
Nov 13	any 5 minute(s) between 13:42 and 14:17
Nov 14	any 7 minute(s) between 13:40 and 14:17
Nov 15	any 9 minute(s) between 13:40 and 14:19
Nov 16	any 10 minute(s) between 13:39 and 14:19
Nov 17	any 12 minute(s) between 13:39 and 14:21
Nov 18	any 13 minute(s) between 13:38 and 14:21
Nov 19	any 14 minute(s) between 13:38 and 14:22
Nov 20	any 15 minute(s) between 13:37 and 14:22
Nov 21	any 15 minute(s) between 13:37 and 14:22
Nov 22	any 17 minute(s) between 13:37 and 14:24
Nov 23	any 17 minute(s) between 13:37 and 14:24
Nov 24	any 17 minute(s) between 13:38 and 14:25
Nov 25	any 18 minute(s) between 13:37 and 14:25
Nov 26	any 18 minute(s) between 13:37 and 14:25
Nov 27	any 18 minute(s) between 13:38 and 14:26
Nov 28	any 18 minute(s) between 13:38 and 14:26
Nov 29	any 18 minute(s) between 13:38 and 14:26
Nov 30	any 18 minute(s) between 13:38 and 14:26

Date	Curtailment Period
Dec 1	any 18 minute(s) between 13:39 and 14:27
Dec 2	any 19 minute(s) between 13:39 and 14:28
Dec 3	any 19 minute(s) between 13:39 and 14:28
Dec 4	any 18 minute(s) between 13:40 and 14:28
Dec 5	any 18 minute(s) between 13:40 and 14:28
Dec 6	any 18 minute(s) between 13:40 and 14:28
Dec 7	any 18 minute(s) between 13:41 and 14:29
Dec 8	any 18 minute(s) between 13:41 and 14:29
Dec 9	any 17 minute(s) between 13:42 and 14:29
Dec 10	any 18 minute(s) between 13:42 and 14:30
Dec 11	any 17 minute(s) between 13:43 and 14:30
Dec 12	any 17 minute(s) between 13:43 and 14:30
Dec 13	any 17 minute(s) between 13:44 and 14:31
Dec 14	any 17 minute(s) between 13:45 and 14:32
Dec 15	any 17 minute(s) between 13:45 and 14:32
Dec 16	any 17 minute(s) between 13:45 and 14:32
Dec 17	any 17 minute(s) between 13:46 and 14:33
Dec 18	any 16 minute(s) between 13:47 and 14:33
Dec 19	any 16 minute(s) between 13:47 and 14:33
Dec 20	any 16 minute(s) between 13:48 and 14:34
Dec 21	any 16 minute(s) between 13:48 and 14:34
Dec 22	any 16 minute(s) between 13:49 and 14:35
Dec 23	any 16 minute(s) between 13:49 and 14:35
Dec 24	any 16 minute(s) between 13:50 and 14:36
Dec 25	any 16 minute(s) between 13:50 and 14:36
Dec 26	any 16 minute(s) between 13:50 and 14:36
Dec 27	any 17 minute(s) between 13:51 and 14:38
Dec 28	any 17 minute(s) between 13:51 and 14:38
Dec 29	any 16 minute(s) between 13:52 and 14:38
Dec 30	any 17 minute(s) between 13:52 and 14:39
Dec 31	any 17 minute(s) between 13:52 and 14:39

Table A-6: Curtailment Schedule for Turbine T024

Date	Curtailment Period
Jan 1	any 15 minute(s) between 14:55 and 15:10
Jan 2	any 15 minute(s) between 14:56 and 15:11
Jan 3	any 15 minute(s) between 14:56 and 15:11
Jan 4	any 15 minute(s) between 14:57 and 15:12
Jan 5	any 16 minute(s) between 14:56 and 15:12
Jan 6	any 16 minute(s) between 14:57 and 15:13
Jan 7	any 15 minute(s) between 14:58 and 15:13
Jan 8	any 16 minute(s) between 14:58 and 15:14
Jan 9	any 16 minute(s) between 14:58 and 15:14
Jan 10	any 16 minute(s) between 14:59 and 15:15
Jan 11	any 17 minute(s) between 14:58 and 15:15
Jan 12	any 17 minute(s) between 14:59 and 15:16
Jan 13	any 17 minute(s) between 14:59 and 15:16
Jan 14	any 16 minute(s) between 15:00 and 15:16
Jan 15	any 16 minute(s) between 15:00 and 15:16

Date	Curtailed Period
Jan 16	any 16 minute(s) between 15:01 and 15:17
Jan 17	any 15 minute(s) between 15:02 and 15:17
Jan 18	any 15 minute(s) between 15:02 and 15:17
Jan 19	any 15 minute(s) between 14:32 and 15:17
Jan 20	any 14 minute(s) between 14:34 and 15:18
Jan 21	any 14 minute(s) between 14:34 and 15:18
Jan 22	any 13 minute(s) between 14:35 and 15:18
Jan 23	any 13 minute(s) between 14:35 and 15:18
Jan 24	any 11 minute(s) between 14:36 and 15:17
Jan 25	any 10 minute(s) between 14:37 and 15:17
Jan 26	any 9 minute(s) between 14:38 and 15:17
Jan 27	any 7 minute(s) between 14:39 and 15:16
Jan 28	any 5 minute(s) between 14:41 and 15:16
Jan 29	any 3 minute(s) between 14:42 and 15:15
Nov 12	any 1 minute(s) between 14:14 and 14:45
Nov 13	any 3 minute(s) between 14:14 and 14:47
Nov 14	any 6 minute(s) between 14:12 and 14:48
Nov 15	any 7 minute(s) between 14:12 and 14:49
Nov 16	any 9 minute(s) between 14:11 and 14:50
Nov 17	any 10 minute(s) between 14:10 and 14:50
Nov 18	any 11 minute(s) between 14:10 and 14:51
Nov 19	any 13 minute(s) between 14:09 and 14:52
Nov 20	any 13 minute(s) between 14:10 and 14:53
Nov 21	any 14 minute(s) between 14:09 and 14:53
Nov 22	any 14 minute(s) between 14:10 and 14:54
Nov 23	any 15 minute(s) between 14:09 and 14:54
Nov 24	any 15 minute(s) between 14:09 and 14:54
Nov 25	any 15 minute(s) between 14:40 and 14:55
Nov 26	any 15 minute(s) between 14:40 and 14:55
Nov 27	any 16 minute(s) between 14:39 and 14:55
Nov 28	any 17 minute(s) between 14:40 and 14:57
Nov 29	any 17 minute(s) between 14:40 and 14:57
Nov 30	any 17 minute(s) between 14:40 and 14:57
Dec 1	any 16 minute(s) between 14:41 and 14:57
Dec 2	any 16 minute(s) between 14:42 and 14:58
Dec 3	any 16 minute(s) between 14:42 and 14:58
Dec 4	any 16 minute(s) between 14:42 and 14:58
Dec 5	any 15 minute(s) between 14:43 and 14:58
Dec 6	any 16 minute(s) between 14:43 and 14:59
Dec 7	any 16 minute(s) between 14:43 and 14:59
Dec 8	any 15 minute(s) between 14:44 and 14:59
Dec 9	any 15 minute(s) between 14:44 and 14:59
Dec 10	any 15 minute(s) between 14:44 and 15:00
Dec 11	any 14 minute(s) between 14:46 and 15:00
Dec 12	any 15 minute(s) between 14:46 and 15:01
Dec 13	any 14 minute(s) between 14:47 and 15:01
Dec 14	any 14 minute(s) between 14:48 and 15:02
Dec 15	any 14 minute(s) between 14:47 and 15:01
Dec 16	any 14 minute(s) between 14:48 and 15:02
Dec 17	any 14 minute(s) between 14:49 and 15:03

Date	Curtailment Period
Dec 18	any 13 minute(s) between 14:50 and 15:03
Dec 19	any 13 minute(s) between 14:50 and 15:03
Dec 20	any 13 minute(s) between 14:51 and 15:04
Dec 21	any 13 minute(s) between 14:51 and 15:04
Dec 22	any 13 minute(s) between 14:52 and 15:05
Dec 23	any 13 minute(s) between 14:52 and 15:05
Dec 24	any 13 minute(s) between 14:52 and 15:05
Dec 25	any 13 minute(s) between 14:53 and 15:06
Dec 26	any 14 minute(s) between 14:53 and 15:07
Dec 27	any 14 minute(s) between 14:53 and 15:07
Dec 28	any 14 minute(s) between 14:54 and 15:08
Dec 29	any 15 minute(s) between 14:54 and 15:09
Dec 30	any 14 minute(s) between 14:55 and 15:09
Dec 31	any 14 minute(s) between 14:55 and 15:09

Table A-7: Curtailment Schedule for Turbine T028

Date	Curtailment Period
May 14	any 1 minute(s) between 19:30 and 20:01
May 15	any 2 minute(s) between 19:29 and 20:01
May 16	any 2 minute(s) between 19:29 and 20:01
May 17	any 2 minute(s) between 19:29 and 20:01
May 18	any 2 minute(s) between 19:29 and 20:01
May 19	any 2 minute(s) between 19:29 and 20:01
May 20	any 1 minute(s) between 19:30 and 20:01
May 21	any 1 minute(s) between 19:31 and 20:02
May 22	any 1 minute(s) between 19:31 and 20:02
Jul 21	any 1 minute(s) between 19:40 and 20:11
Jul 22	any 1 minute(s) between 19:40 and 20:11
Jul 23	any 2 minute(s) between 19:40 and 20:12
Jul 24	any 2 minute(s) between 19:40 and 20:12
Jul 25	any 2 minute(s) between 19:40 and 20:12
Jul 26	any 2 minute(s) between 19:40 and 20:12
Jul 27	any 2 minute(s) between 19:40 and 20:12
Jul 28	any 2 minute(s) between 19:40 and 20:12
Jul 29	any 1 minute(s) between 19:40 and 20:11
Jul 30	any 1 minute(s) between 19:40 and 20:11
Jul 31	any 1 minute(s) between 19:41 and 20:12

Table A-8: Curtailment Schedule for Turbine T030

Date	Curtailment Period
Jan 1	any 3 minute(s) between 15:03 and 15:36
Jan 2	any 3 minute(s) between 15:04 and 15:37
Jan 3	any 3 minute(s) between 15:04 and 15:37
Jan 4	any 3 minute(s) between 15:05 and 15:38
Jan 5	any 3 minute(s) between 15:06 and 15:39
Jan 6	any 3 minute(s) between 15:05 and 15:38
Jan 7	any 3 minute(s) between 15:06 and 15:39
Jan 8	any 3 minute(s) between 15:06 and 15:39
Jan 9	any 3 minute(s) between 15:06 and 15:39
Jan 10	any 3 minute(s) between 15:07 and 15:40
Jan 11	any 3 minute(s) between 15:07 and 15:40
Jan 12	any 2 minute(s) between 15:08 and 15:40
Jan 13	any 2 minute(s) between 15:08 and 15:40
Jan 14	any 1 minute(s) between 15:10 and 15:41
Nov 28	any 1 minute(s) between 14:50 and 15:21
Nov 29	any 2 minute(s) between 14:49 and 15:21
Nov 30	any 2 minute(s) between 14:49 and 15:21
Dec 1	any 3 minute(s) between 14:49 and 15:22
Dec 2	any 3 minute(s) between 14:50 and 15:23
Dec 3	any 3 minute(s) between 14:50 and 15:23
Dec 4	any 4 minute(s) between 14:50 and 15:24
Dec 5	any 3 minute(s) between 14:51 and 15:24
Dec 6	any 3 minute(s) between 14:51 and 15:24
Dec 7	any 4 minute(s) between 14:51 and 15:25
Dec 8	any 3 minute(s) between 14:52 and 15:25
Dec 9	any 3 minute(s) between 14:52 and 15:25
Dec 10	any 3 minute(s) between 14:53 and 15:26
Dec 11	any 3 minute(s) between 14:53 and 15:26
Dec 12	any 3 minute(s) between 14:54 and 15:27
Dec 13	any 3 minute(s) between 14:54 and 15:27
Dec 14	any 3 minute(s) between 14:55 and 15:28
Dec 15	any 3 minute(s) between 14:55 and 15:28
Dec 16	any 3 minute(s) between 14:55 and 15:28
Dec 17	any 3 minute(s) between 14:56 and 15:29
Dec 18	any 3 minute(s) between 14:56 and 15:29
Dec 19	any 3 minute(s) between 14:57 and 15:30
Dec 20	any 2 minute(s) between 14:58 and 15:30
Dec 21	any 2 minute(s) between 14:58 and 15:30
Dec 22	any 2 minute(s) between 14:59 and 15:31
Dec 23	any 2 minute(s) between 14:59 and 15:31
Dec 24	any 3 minute(s) between 14:59 and 15:32
Dec 25	any 3 minute(s) between 15:00 and 15:33
Dec 26	any 3 minute(s) between 15:00 and 15:33
Dec 27	any 3 minute(s) between 15:00 and 15:33
Dec 28	any 2 minute(s) between 15:01 and 15:33
Dec 29	any 3 minute(s) between 15:02 and 15:35
Dec 30	any 3 minute(s) between 15:02 and 15:35
Dec 31	any 3 minute(s) between 15:03 and 15:36

Table A-9: Curtailment Schedule for Turbine T036

Date	Curtailment Period
Jan 1	any 3 minute(s) between 15:08 and 15:25
Jan 2	any 2 minute(s) between 14:53 and 15:25
Jan 3	any 1 minute(s) between 14:54 and 15:25
Jan 4	any 2 minute(s) between 14:53 and 15:25
Jan 5	any 1 minute(s) between 14:54 and 15:25
Jan 31	any 1 minute(s) between 15:54 and 16:25
Feb 1	any 2 minute(s) between 15:54 and 16:26
Feb 2	any 2 minute(s) between 15:54 and 16:26
Feb 3	any 3 minute(s) between 15:54 and 16:27
Feb 4	any 3 minute(s) between 15:53 and 16:26
Feb 5	any 3 minute(s) between 15:54 and 16:27
Feb 6	any 3 minute(s) between 15:54 and 16:27
Feb 7	any 3 minute(s) between 15:54 and 16:27
Feb 8	any 2 minute(s) between 15:55 and 16:27
Feb 9	any 1 minute(s) between 15:55 and 16:26
Feb 25	any 1 minute(s) between 16:35 and 17:06
Feb 27	any 1 minute(s) between 16:34 and 17:05
Feb 28	any 1 minute(s) between 16:35 and 17:06
Oct 14	any 1 minute(s) between 17:07 and 17:38
Oct 16	any 1 minute(s) between 17:07 and 17:38
Nov 2	any 1 minute(s) between 15:25 and 15:56
Nov 3	any 2 minute(s) between 15:25 and 15:57
Nov 4	any 2 minute(s) between 15:24 and 15:56
Nov 5	any 3 minute(s) between 15:24 and 15:57
Nov 6	any 3 minute(s) between 15:24 and 15:57
Nov 7	any 3 minute(s) between 15:24 and 15:57
Nov 8	any 3 minute(s) between 15:24 and 15:57
Nov 9	any 2 minute(s) between 15:25 and 15:57
Nov 10	any 1 minute(s) between 15:25 and 15:56
Nov 11	any 1 minute(s) between 15:26 and 15:57
Dec 6	any 1 minute(s) between 14:41 and 15:12
Dec 7	any 1 minute(s) between 14:41 and 15:12
Dec 8	any 2 minute(s) between 14:41 and 15:13
Dec 9	any 1 minute(s) between 14:42 and 15:13
Dec 10	any 2 minute(s) between 14:42 and 15:14
Dec 11	any 3 minute(s) between 14:42 and 15:15
Dec 12	any 2 minute(s) between 14:43 and 15:15
Dec 13	any 3 minute(s) between 14:43 and 15:16
Dec 14	any 3 minute(s) between 15:00 and 15:17
Dec 15	any 4 minute(s) between 14:43 and 15:17
Dec 16	any 3 minute(s) between 15:00 and 15:17
Dec 17	any 3 minute(s) between 15:01 and 15:18
Dec 18	any 4 minute(s) between 15:01 and 15:18
Dec 19	any 4 minute(s) between 15:02 and 15:19
Dec 20	any 4 minute(s) between 15:03 and 15:20
Dec 21	any 4 minute(s) between 14:46 and 15:20
Dec 22	any 4 minute(s) between 14:47 and 15:21
Dec 23	any 4 minute(s) between 14:47 and 15:21
Dec 24	any 4 minute(s) between 15:04 and 15:21

Date	Curtailed Period
Dec 25	any 4 minute(s) between 15:05 and 15:22
Dec 26	any 3 minute(s) between 15:05 and 15:22
Dec 27	any 3 minute(s) between 15:05 and 15:22
Dec 28	any 3 minute(s) between 14:49 and 15:22
Dec 29	any 4 minute(s) between 15:07 and 15:24
Dec 30	any 3 minute(s) between 15:07 and 15:24
Dec 31	any 3 minute(s) between 14:51 and 15:24

Table A-10: Curtailed Schedule for Turbine T069

Date	Curtailed Period
Apr 6	any 2 minute(s) between 07:01 and 07:33
Apr 7	any 4 minute(s) between 07:00 and 07:34
Apr 8	any 6 minute(s) between 06:59 and 07:35
Apr 9	any 6 minute(s) between 06:59 and 07:35
Apr 10	any 7 minute(s) between 06:58 and 07:35
Apr 11	any 7 minute(s) between 06:57 and 07:34
Apr 12	any 8 minute(s) between 06:56 and 07:34
Apr 13	any 7 minute(s) between 06:57 and 07:34
Apr 14	any 8 minute(s) between 06:56 and 07:34
Apr 15	any 7 minute(s) between 06:56 and 07:33
Apr 16	any 6 minute(s) between 06:56 and 07:32
Apr 17	any 5 minute(s) between 06:57 and 07:32
Apr 18	any 4 minute(s) between 06:57 and 07:31
Apr 19	any 2 minute(s) between 06:57 and 07:29
Aug 23	any 1 minute(s) between 07:02 and 07:33
Aug 24	any 2 minute(s) between 07:01 and 07:33
Aug 25	any 3 minute(s) between 07:00 and 07:33
Aug 26	any 5 minute(s) between 06:59 and 07:34
Aug 27	any 6 minute(s) between 06:59 and 07:35
Aug 28	any 7 minute(s) between 06:58 and 07:35
Aug 29	any 7 minute(s) between 06:57 and 07:34
Aug 30	any 7 minute(s) between 06:57 and 07:34
Aug 31	any 8 minute(s) between 06:56 and 07:34
Sep 1	any 7 minute(s) between 06:56 and 07:33
Sep 2	any 7 minute(s) between 06:56 and 07:33
Sep 3	any 6 minute(s) between 06:57 and 07:33
Sep 4	any 6 minute(s) between 06:56 and 07:32
Sep 5	any 4 minute(s) between 06:57 and 07:31
Sep 6	any 2 minute(s) between 06:57 and 07:29

Table A-11: Curtailment Schedule for Turbine T079

Date	Curtailment Period
Jan 1	any 8 minute(s) between 08:15 and 08:53
Jan 2	any 9 minute(s) between 08:15 and 08:54
Jan 3	any 8 minute(s) between 08:16 and 08:54
Jan 4	any 9 minute(s) between 08:16 and 08:55
Jan 5	any 8 minute(s) between 08:16 and 08:54
Jan 6	any 9 minute(s) between 08:16 and 08:55
Jan 7	any 9 minute(s) between 08:17 and 08:56
Jan 8	any 8 minute(s) between 08:18 and 08:56
Jan 9	any 8 minute(s) between 08:18 and 08:56
Jan 10	any 8 minute(s) between 08:19 and 08:57
Jan 11	any 8 minute(s) between 08:19 and 08:57
Jan 12	any 7 minute(s) between 08:20 and 08:57
Jan 13	any 7 minute(s) between 08:20 and 08:57
Jan 14	any 7 minute(s) between 08:21 and 08:58
Jan 15	any 6 minute(s) between 08:21 and 08:57
Jan 16	any 6 minute(s) between 08:22 and 08:58
Jan 17	any 5 minute(s) between 08:23 and 08:58
Jan 18	any 5 minute(s) between 08:23 and 08:58
Jan 19	any 3 minute(s) between 08:24 and 08:57
Jan 20	any 3 minute(s) between 08:25 and 08:58
Jan 21	any 1 minute(s) between 08:26 and 08:57
Nov 21	any 1 minute(s) between 08:01 and 08:32
Nov 22	any 3 minute(s) between 08:01 and 08:34
Nov 23	any 3 minute(s) between 08:01 and 08:34
Nov 24	any 5 minute(s) between 08:00 and 08:35
Nov 25	any 5 minute(s) between 08:01 and 08:36
Nov 26	any 6 minute(s) between 08:00 and 08:36
Nov 27	any 7 minute(s) between 08:00 and 08:37
Nov 28	any 7 minute(s) between 08:01 and 08:38
Nov 29	any 7 minute(s) between 08:01 and 08:38
Nov 30	any 7 minute(s) between 08:01 and 08:38
Dec 1	any 8 minute(s) between 08:01 and 08:39
Dec 2	any 8 minute(s) between 08:02 and 08:40
Dec 3	any 8 minute(s) between 08:02 and 08:40
Dec 4	any 8 minute(s) between 08:02 and 08:40
Dec 5	any 9 minute(s) between 08:02 and 08:41
Dec 6	any 8 minute(s) between 08:03 and 08:41
Dec 7	any 8 minute(s) between 08:03 and 08:41
Dec 8	any 9 minute(s) between 08:03 and 08:42
Dec 9	any 8 minute(s) between 08:04 and 08:42
Dec 10	any 9 minute(s) between 08:04 and 08:43
Dec 11	any 8 minute(s) between 08:05 and 08:43
Dec 12	any 9 minute(s) between 08:05 and 08:44
Dec 13	any 8 minute(s) between 08:06 and 08:44
Dec 14	any 8 minute(s) between 08:07 and 08:45
Dec 15	any 8 minute(s) between 08:06 and 08:44
Dec 16	any 8 minute(s) between 08:07 and 08:45
Dec 17	any 8 minute(s) between 08:08 and 08:46
Dec 18	any 8 minute(s) between 08:08 and 08:46

Date	Curtailed Period
Dec 19	any 7 minute(s) between 08:09 and 08:46
Dec 20	any 7 minute(s) between 08:10 and 08:47
Dec 21	any 7 minute(s) between 08:10 and 08:47
Dec 22	any 7 minute(s) between 08:11 and 08:48
Dec 23	any 7 minute(s) between 08:11 and 08:48
Dec 24	any 7 minute(s) between 08:11 and 08:48
Dec 25	any 8 minute(s) between 08:12 and 08:50
Dec 26	any 8 minute(s) between 08:12 and 08:50
Dec 27	any 8 minute(s) between 08:12 and 08:50
Dec 28	any 8 minute(s) between 08:12 and 08:50
Dec 29	any 8 minute(s) between 08:14 and 08:52
Dec 30	any 8 minute(s) between 08:14 and 08:52
Dec 31	any 8 minute(s) between 08:14 and 08:52

Table A-12: Curtailed Schedule for Turbine T086

Date	Curtailed Period
Jan 2	any 1 minute(s) between 08:12 and 08:43
Jan 3	any 1 minute(s) between 08:12 and 08:43
Jan 4	any 2 minute(s) between 08:11 and 08:43
Jan 5	any 2 minute(s) between 08:11 and 08:43
Jan 6	any 3 minute(s) between 08:11 and 08:44
Jan 7	any 3 minute(s) between 08:11 and 08:44
Jan 8	any 3 minute(s) between 08:11 and 08:44
Jan 9	any 3 minute(s) between 08:12 and 08:45
Jan 10	any 2 minute(s) between 08:13 and 08:45
Jan 11	any 2 minute(s) between 08:13 and 08:45
Jan 12	any 1 minute(s) between 08:14 and 08:45
Nov 30	any 1 minute(s) between 07:55 and 08:26
Dec 1	any 2 minute(s) between 07:55 and 08:27
Dec 2	any 2 minute(s) between 07:55 and 08:27
Dec 3	any 3 minute(s) between 07:56 and 08:29
Dec 4	any 3 minute(s) between 07:56 and 08:29
Dec 5	any 3 minute(s) between 07:56 and 08:29
Dec 6	any 3 minute(s) between 07:57 and 08:30
Dec 7	any 2 minute(s) between 07:58 and 08:30
Dec 8	any 2 minute(s) between 07:59 and 08:31
Dec 9	any 1 minute(s) between 08:00 and 08:31
Dec 10	any 1 minute(s) between 08:01 and 08:32

Table A-13: Curtailment Schedule for Turbine T093

Date	Curtailment Period
Jan 1	any 4 minute(s) between 08:19 and 08:53
Jan 2	any 4 minute(s) between 08:20 and 08:54
Jan 3	any 3 minute(s) between 08:21 and 08:54
Jan 4	any 2 minute(s) between 08:22 and 08:54
Jan 5	any 3 minute(s) between 08:22 and 08:55
Jan 6	any 2 minute(s) between 08:23 and 08:55
Jan 7	any 2 minute(s) between 08:23 and 08:55
Jan 8	any 1 minute(s) between 08:24 and 08:55
Feb 14	any 1 minute(s) between 16:29 and 17:00
Feb 15	any 1 minute(s) between 16:29 and 17:00
Feb 16	any 2 minute(s) between 16:28 and 17:00
Feb 17	any 1 minute(s) between 16:29 and 17:00
Feb 18	any 2 minute(s) between 16:28 and 17:00
Feb 19	any 1 minute(s) between 16:29 and 17:00
Oct 23	any 1 minute(s) between 16:59 and 17:30
Oct 24	any 1 minute(s) between 15:59 and 17:30
Oct 25	any 2 minute(s) between 16:58 and 17:30
Oct 26	any 1 minute(s) between 16:58 and 17:29
Oct 27	any 2 minute(s) between 16:58 and 17:30
Oct 28	any 1 minute(s) between 16:58 and 17:29
Dec 4	any 1 minute(s) between 08:08 and 08:39
Dec 5	any 2 minute(s) between 08:09 and 08:41
Dec 6	any 2 minute(s) between 08:09 and 08:41
Dec 7	any 3 minute(s) between 08:09 and 08:42
Dec 8	any 2 minute(s) between 08:10 and 08:42
Dec 9	any 3 minute(s) between 08:10 and 08:43
Dec 10	any 4 minute(s) between 08:10 and 08:44
Dec 11	any 4 minute(s) between 08:10 and 08:44
Dec 12	any 4 minute(s) between 08:11 and 08:45
Dec 13	any 5 minute(s) between 08:10 and 08:45
Dec 14	any 5 minute(s) between 08:11 and 08:46
Dec 15	any 4 minute(s) between 08:12 and 08:46
Dec 16	any 5 minute(s) between 08:12 and 08:47
Dec 17	any 5 minute(s) between 08:12 and 08:47
Dec 18	any 5 minute(s) between 08:13 and 08:48
Dec 19	any 5 minute(s) between 08:14 and 08:49
Dec 20	any 6 minute(s) between 08:13 and 08:49
Dec 21	any 6 minute(s) between 08:14 and 08:50
Dec 22	any 6 minute(s) between 08:14 and 08:50
Dec 23	any 6 minute(s) between 08:15 and 08:51
Dec 24	any 5 minute(s) between 08:16 and 08:51
Dec 25	any 5 minute(s) between 08:16 and 08:51
Dec 26	any 5 minute(s) between 08:17 and 08:52
Dec 27	any 5 minute(s) between 08:17 and 08:52
Dec 28	any 5 minute(s) between 08:17 and 08:52
Dec 29	any 4 minute(s) between 08:18 and 08:52
Dec 30	any 5 minute(s) between 08:18 and 08:53
Dec 31	any 4 minute(s) between 08:19 and 08:53

Table A-14: Curtailment Schedule for Turbine T094

Date	Curtailment Period
Jan 1	any 5 minute(s) between 15:32 and 16:07
Jan 2	any 4 minute(s) between 15:33 and 16:07
Jan 3	any 5 minute(s) between 15:33 and 16:08
Jan 4	any 6 minute(s) between 15:33 and 16:09
Jan 5	any 6 minute(s) between 15:34 and 16:10
Jan 6	any 6 minute(s) between 15:33 and 16:09
Jan 7	any 7 minute(s) between 15:33 and 16:10
Jan 8	any 7 minute(s) between 15:34 and 16:11
Jan 9	any 7 minute(s) between 15:34 and 16:11
Jan 10	any 8 minute(s) between 15:34 and 16:12
Jan 11	any 8 minute(s) between 15:35 and 16:13
Jan 12	any 8 minute(s) between 15:35 and 16:13
Jan 13	any 9 minute(s) between 15:35 and 16:14
Jan 14	any 9 minute(s) between 15:35 and 16:14
Jan 15	any 9 minute(s) between 15:35 and 16:14
Jan 16	any 9 minute(s) between 15:36 and 16:15
Jan 17	any 9 minute(s) between 15:36 and 16:15
Jan 18	any 10 minute(s) between 15:36 and 16:16
Jan 19	any 10 minute(s) between 15:37 and 16:17
Jan 20	any 9 minute(s) between 15:38 and 16:17
Jan 21	any 9 minute(s) between 15:38 and 16:17
Jan 22	any 9 minute(s) between 15:38 and 16:17
Jan 23	any 7 minute(s) between 15:39 and 16:16
Jan 24	any 7 minute(s) between 15:39 and 16:16
Jan 25	any 6 minute(s) between 15:40 and 16:16
Jan 26	any 5 minute(s) between 15:41 and 16:16
Jan 27	any 4 minute(s) between 15:42 and 16:16
Jan 28	any 2 minute(s) between 15:43 and 16:15
Jan 29	any 1 minute(s) between 15:44 and 16:15
Nov 13	any 1 minute(s) between 15:16 and 15:47
Nov 14	any 2 minute(s) between 15:15 and 15:47
Nov 15	any 4 minute(s) between 15:15 and 15:49
Nov 16	any 5 minute(s) between 15:14 and 15:49
Nov 17	any 6 minute(s) between 15:14 and 15:50
Nov 18	any 7 minute(s) between 15:13 and 15:50
Nov 19	any 7 minute(s) between 15:14 and 15:51
Nov 20	any 9 minute(s) between 15:13 and 15:52
Nov 21	any 9 minute(s) between 15:13 and 15:52
Nov 22	any 9 minute(s) between 15:14 and 15:53
Nov 23	any 10 minute(s) between 15:13 and 15:53
Nov 24	any 10 minute(s) between 15:14 and 15:54
Nov 25	any 10 minute(s) between 15:14 and 15:54
Nov 26	any 9 minute(s) between 15:14 and 15:53
Nov 27	any 9 minute(s) between 15:15 and 15:54
Nov 28	any 9 minute(s) between 15:15 and 15:54
Nov 29	any 9 minute(s) between 15:15 and 15:54
Nov 30	any 8 minute(s) between 15:16 and 15:54
Dec 1	any 8 minute(s) between 15:17 and 15:55
Dec 2	any 8 minute(s) between 15:17 and 15:55

Date	Curtailment Period
Dec 3	any 7 minute(s) between 15:18 and 15:55
Dec 4	any 7 minute(s) between 15:18 and 15:55
Dec 5	any 6 minute(s) between 15:19 and 15:55
Dec 6	any 7 minute(s) between 15:19 and 15:56
Dec 7	any 6 minute(s) between 15:20 and 15:56
Dec 8	any 6 minute(s) between 15:20 and 15:56
Dec 9	any 5 minute(s) between 15:21 and 15:56
Dec 10	any 4 minute(s) between 15:22 and 15:56
Dec 11	any 5 minute(s) between 15:22 and 15:57
Dec 12	any 4 minute(s) between 15:23 and 15:57
Dec 13	any 3 minute(s) between 15:24 and 15:57
Dec 14	any 3 minute(s) between 15:25 and 15:58
Dec 15	any 3 minute(s) between 15:25 and 15:58
Dec 16	any 3 minute(s) between 15:25 and 15:58
Dec 17	any 2 minute(s) between 15:26 and 15:58
Dec 18	any 2 minute(s) between 15:27 and 15:59
Dec 19	any 2 minute(s) between 15:27 and 15:59
Dec 20	any 2 minute(s) between 15:28 and 16:00
Dec 21	any 1 minute(s) between 15:28 and 15:59
Dec 22	any 1 minute(s) between 15:29 and 16:00
Dec 23	any 2 minute(s) between 15:29 and 16:01
Dec 24	any 2 minute(s) between 15:30 and 16:02
Dec 25	any 2 minute(s) between 15:30 and 16:02
Dec 26	any 2 minute(s) between 15:30 and 16:02
Dec 27	any 3 minute(s) between 15:30 and 16:03
Dec 28	any 3 minute(s) between 15:31 and 16:04
Dec 29	any 3 minute(s) between 15:32 and 16:05
Dec 30	any 3 minute(s) between 15:32 and 16:05

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