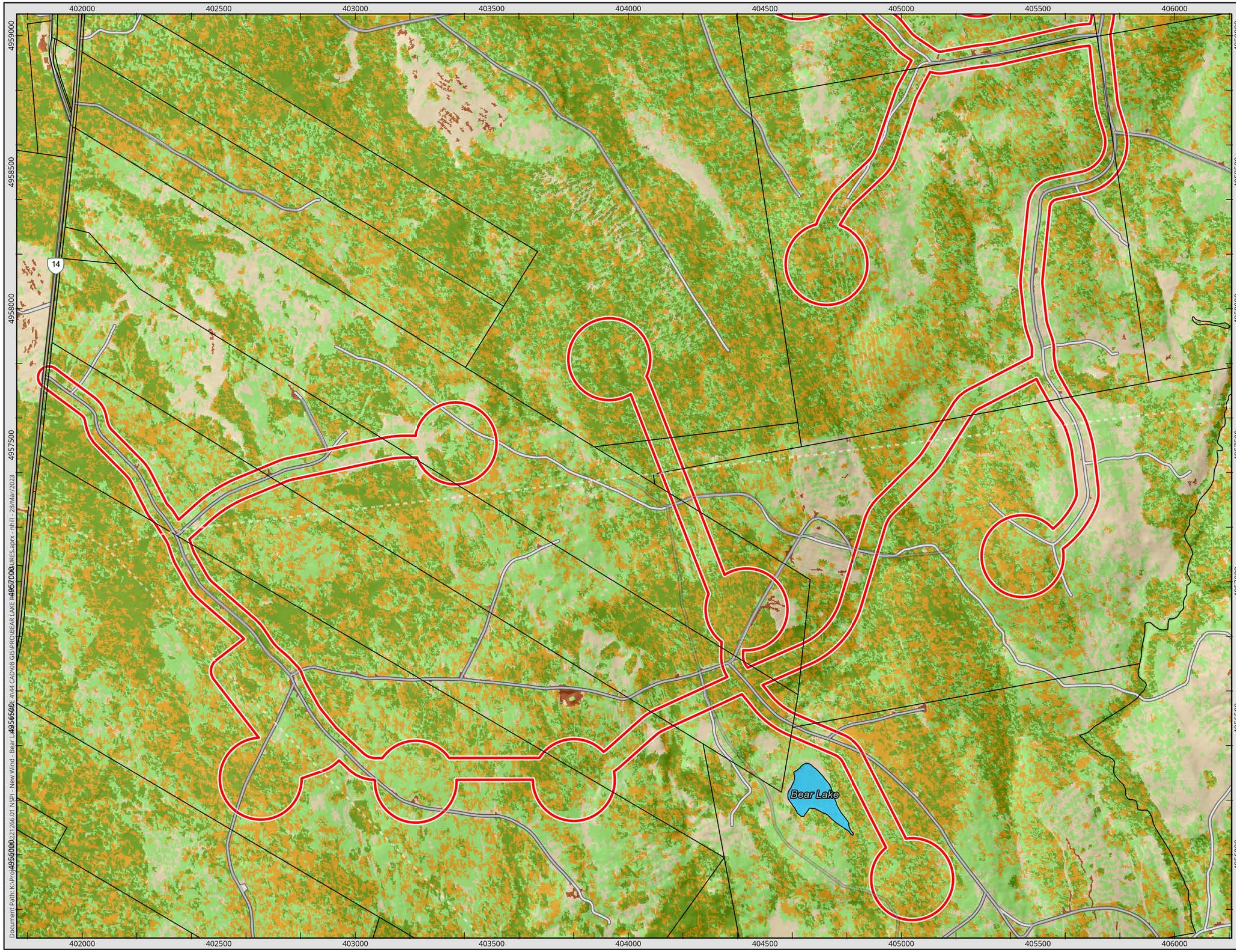

- Property Boundaries
- Study Area (Phase 4)
- Roads

Major Landcover

- Bare Ground/ Moss/ Gramminoid
- Broadleaf/ Gramminoid
- Broadleaf
- Mixed
- Coniferous
- Water

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BEAR LAKE WIND
Vegetation & Wetlands

P-ELC Component Overview
Major Landcover (Page 4 of 4)

DATE: 2023-03-28	PROJ N°: 221266.01	FIGURE: 6-12
DRAWN BY: NH	CHECKED BY: BC	APPROVED: IB

NOTES:

0 135 270 540 m

SCALE: 1:13,000

Coordinate System: NAD 1983 CSRS UTM Zone 20N
Units: Meter

- P-ELC 2 km x 2 km Grids (for Polygon Outputs)
- P-ELC Analysis Domain
- Study Area (Phase 4)

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BEAR LAKE WIND
Vegetation & Wetlands

P-ELC Analysis Domain & Polygon Output Grid

DATE: 2023-03-28	PROJ N°: 221266.01	FIGURE: 6-13
DRAWN BY: NH	CHECKED BY: BC	APPROVED: IB

NOTES:

0 500 1,000 2,000 m

SCALE: 1:65,000 @ 11 X 17

Coordinate System: NAD 1983 CSRS UTM Zone 20N
Units: Meter

Document Path: K:\Projects\2022\221266.01 NSPI - New Wind - Bear Lake - PHASE 4\44 CAD\08 GIS\PRO\BEAR LAKE REPORT FIGURES.aprx - nhill - 28/Mar/2023

7 Mitigation Measures

Summaries of recommended mitigation measures for terrestrial vegetation (included SAR) and wetlands within the Study Area are provided in the following subsections.

7.1 Flora

Mitigation measures recommended to reduce potential environmental effects to vascular plant and lichen species and communities occurring within the Bear Lake Project Area include, but are not limited to, the following:

- Natural vegetation, top-soil and useable grubbings will be preserved, retained and reused to the greatest extent possible, to facilitate re-establishment of native vegetation via their contained seedbanks.
- Site clearing activities will be kept to a minimum.
- Herbicides, if used, shall not be used within 30 m of watercourses and 60 m to sensitive areas, such as wetlands.
- Cleared areas will be re-seeded and re-vegetated as soon as feasible.
- All Wetland and Watercourse Alteration permit approval conditions shall be adhered to.
- To avoid unintentional introduction or spread of invasive or exotic plant vascular species (such as Japanese Knotweed and Purple Loosestrife), all equipment used on site must be cleaned thoroughly prior to arriving at the Project Area.
- Seed mixes used in revegetation activities ideally should consist of native species unless otherwise approved.

7.1.1 General Flora SAR

Mitigation measures will be implemented throughout the Project lifecycle to reduce the potential environmental effects to flora SAR identified in Section 5. The mitigation measures that have been selected include, but are not limited to the following:

- The use of herbicides shall be avoided near SAR and SoCC - hand cutting, mowing or spot spraying near these species is preferred if vegetation removal is required for any reason.
- A vegetated buffer surrounding SAR species observations should be maintained wherever possible. The minimum buffer distances should be determined in consultation with NSDNR.

- Post-construction monitoring of SAR observations should be conducted to evaluate the efficacy of the vegetated buffer.

7.1.2 SAR Lichens – (Frosted Glass-whiskers, Blue Felt & Wrinkled Shingle Lichen)

Three of the lichen SAR known to occur within the Study Area are subject to Special Management Practices as prescribed by NS DNRR (NS DNRR, 2018). Frosted Glass-whiskers, Blue Felt Lichen, and Wrinkled Shingle Lichen are all listed as 'Table 2' species in this document and are subject to special management practices. The area included within a 100-metre radius of an occurrence of a Table 2 species is managed for minimal disturbance as follows:

i.) Forest harvest (including silvicultural treatments): There is to be no active clearing, removal or disturbance of trees, soil or wetlands.

ii.) Mineral Exploration: Mineral exploration drill sites may not be situated within the 100-metre zone. The removal of soil, rock or mineral samples for the purposes of mineral exploration is not subject to this procedure provided sample collection does not require or involve the removal of trees, alter the vegetated canopy, microclimate or hydrology within the 100-metre zone. Individual soil, rock or mineral samples collected for the purposes of mineral exploration within this zone should not be greater than 2 kilograms (per sample) and may only be collected using non-mechanical methods.

iii.) Road construction: No construction of new roads or trails. New road construction within the 100-metre zone may be permitted in exceptional situations and will require an approval under NS DNRR's Variance process.

iv.) Existing roads: Upgrades and maintenance may be permitted, subject to NS DNRR Integrated Resource Management review, and with conditions to minimize disturbance.

7.2 Wetlands

Additional mitigation measures should be employed during the Site Preparation and Construction, and Operations phases to reduce potential impacts to wetlands and their associated functions. The mitigation measures that have been selected include, but are not limited to, the following:

- All wetland removals or alterations will be mitigated via wetland compensation activities, determined in consultation with NS ECC and NS DNRR.
- Where possible, clearing operations will be conducted during winter months on frozen ground to protect the underlying vegetative mat and to reduce erosion and sedimentation of wetlands.
- Manual clearing will be conducted where ground conditions are not suitable for heavy equipment access.

- Sediment fencing will be erected around construction areas prior to commencement of site preparation and construction.
- To minimize erosion and prevent sedimentation of wetlands to be preserved, a 5 m buffer will be maintained adjacent to wetlands wherever practical.
- Erosion control measures (i.e., erosion control blankets, hydraulic mulches, turf reinforced mats and rip-rap) will be used to line ditches, swales, drainage channels, and steep banks to avoid erosion and siltation of down-gradient wetlands. These control measures will be installed prior to ground disturbance.
- Material will be stockpiled in such a way as to prevent erosion and sedimentation to any adjacent wetlands.
- Surface runoff and runoff from stockpiled material will be managed using standard sediment and erosion control practices.
- The area used for temporary ancillary project elements will avoid wetlands.
- Cleared areas within and immediately adjacent to wetlands should be re-seeded or otherwise re-vegetated to reduce erosion.
- Whenever possible, work should be stopped during periods of inclement weather (e.g., high winds, high rainfall).
- Where possible, quarried, crushed material will be used for road building in and near wetlands with portions to be preserved, to minimize the risk of introducing or spreading non-native or invasive plant species.

8 References

8.1 Personal Communications

John Gallop, NS ECC, Pers. Comm. September 2022.

8.2 Literature Cited

Adamus, P.R. 2018. Manual for Wetland Ecosystem Services Protocol for Atlantic Canada (WESP-AC): Non-tidal Wetlands (April 2018).

Adamus, P.R., T.J. Danielson, and A. Gonyaw. 2001. Indicators for Monitoring Biological Integrity of Inland Freshwater Wetlands: A Survey of North American Technical Literature (1990-2000). Office of Water, U.S. Environmental Protection Agency, Washington, DC. EPA843-R-01. http://www.epa.gov/owow/wetlands/bawwg/monindicators.pdf.

Anderson, F., 2014. Macrolichens of Nova Scotia: a provisional checklist. Curatorial Report Number 101, Nova Scotia Museum, Halifax.

Arsenault, M., Mittelhauser, G. H., Cameron, D., Dibble, A. C., Haines, A., Rooney, S. C., & Weber, J. E. (2013). *Sedges of Maine: a field guide to Cyperaceae*. University of Maine Press.

Atlantic Canada Conservation Data Centre (AC CDC). 2023. Rare Taxa Data Report #7546: Bear Lake, NS.

Brodo, I. M., Sharnoff, S. D., & Sharnoff, S. (2001). *Lichens of North America*. Yale University Press.

Clayden, S.R. 2010. *Lichens and allied fungi of the Atlantic Maritime Ecozone*. *In Assessment of Species Diversity in the Atlantic Maritime Ecozone*. Edited by D.F. McAlpine and I.M. Smith. NRC Research Press, Ottawa, Canada. Pages 153–178.

Committee on the Status of Endangered Wildlife in Canada (COSEWIC). 2005a. COSEWIC assessment and status report on the frosted glass-whiskers *Sclerophora peronella*

in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. vi + 28 pp. (www.sararegistry.gc.ca/status/status_e.cfm).

Committee on the Status of Endangered Wildlife in Canada (COSEWIC). 2010. *COSEWIC assessment and status report on the Blue Felt Lichen Degelia plumbea in Canada*. Committee on the Status of Endangered Wildlife in Canada. Ottawa. x + 42 pp. (www.sararegistry.gc.ca/status/status_e.cfm).

Davis, Derek and Sue Browne. 1996. *Natural History of Nova Scotia, Volume II: Theme Regions*. Halifax: Nimbus Publishing and Nova Scotia Museum.

Earth Sciences Research Institute (ESRI). 2023a. How Create Signatures Works https://pro.arcgis.com/en/pro-app/latest/tool-reference/spatial-analyst/how-create-signatures-works.htm [Accessed 15 March 2023].

Earth Sciences Research Institute (ESRI). 2023b. How Maximum Likelihood Classification Works. https://pro.arcgis.com/en/pro-app/latest/tool-reference/spatial-analyst/how-maximum-likelihood-classification-works.htm [Accessed 15 March 2023].

Earth Sciences Research Institute (ESRI). 2023c. How Focal Statistics Works. https://pro.arcgis.com/en/pro-app/latest/tool-reference/spatial-analyst/how-focal-statistics-works.htm [Accessed 15 March 2023].

Earth Sciences Research Institute (ESRI). 2023d. Raster to Polygon. https://pro.arcgis.com/en/pro-app/latest/tool-reference/conversion/raster-to-polygon.htm [Accessed 15 March 2023].

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS 39180-6199.

Esslinger, T. L. (2007). A Synopsis of the North American Species of *Anaptychia* (Physciaceae). The Bryologist, 110(4), 788–797. http://www.jstor.org/stable/20110907

Flenniken, D.G., 1999. The Microlichens in West Virginia. Carlisle Printing.

Flora of North America (FNA). Undated. *Platanthera macrophylla*. Vol. 26: 555 in eFloras.org, Missouri Botanical Garden. Accessed Feb 13, 2023.

Flora of North America (FNA). Undated. *Fissidens taxifolius*. FNA Vol. 27 Page 333, 334, 340, 341, 342, 343.

Flora of North America (FNA). *Platanthera grandiflora*. FNA Vol. 26 Page 565. [Accessed 22 Feb 2023].

Galloway, D.J. 2008. Lichen biogeography. In *Lichen Biology*, 2nd Edit. (T.H. Nash ed), pp.314-336. Cambridge University Press, Cambridge.

Haines, A., 2011. Flora Novae Angliae, *A Manual of the Identification of Native and Naturalized Higher Vascular Plants of New England*. Yale University Press, New York. 973 pp.

Hinds, H. R., C. M. Young, and S. R. Clayden. 2000. *Flora of New Brunswick: A manual for the identification of the vascular plants of New Brunswick*. Dept. of Biology, University of New Brunswick, 2000.

Hinds, J. W., and P. L. Hinds. 2007. *The Macrolichens of New England*. The New York Botanical Garden Press, Bronx, NY. 584 pp. ISBN 0-89327-477-1.

Illinois Wildflowers, undated. Yew-leaved Pocket Moss (F*issidens taxifolius*) (illinoiswildflowers.info). Accessed Feb 7, 2023.

Jenkins, J. 2018. Woody Plants of the Northern Forest: A Photographic Guide.

Jenkins, J. 2019. Sedges of the Northern Forest: A Photographic Guide.

Jenkins, J. 2020. Mosses of the Northern Forest: A Photographic Guide.

Jenkins, J. 2022. Grasses of the Northern Forest: A Photographic Guide.

Keys, K., Neily, P.D.; Quigley, E.; and Stewart, B. 2010. Forest Ecosystem Classification for Nova Scotia. Part 3: Ecosites. NS DNRR Report FOR 2011-2. Online resource. http://www.gov.ns.ca/natr/library/forestry/reports/Ecosi.

Lendemer, J.C., Harris, R.C. & Tripp, E.A. (2007) *Heterodermia neglecta* (Physciaceae), a new lichen species from eastern North America. The Bryologist 110(3): 490–493.

Lewis, C.J. and Brinker, S.R., 2017. Notes on new and interesting lichens from Ontario, Canada–III. Opuscula Philolichenum, 16, pp.153-187.

Maass, W.S.G & Yetman, D. 2002. COSEWIC Assessment and Status Report on the Boreal Felt Lichen, *Erioderma pedicellatum,* in Canada. Committee on the Status of Endangered Wildlife in Canada, Ottawa. 50 pp.

Magee, D. W. and H. E. Ahles. 1999. Flora of the Northeast, *A Manual of the Vascular Flora of New England and Adjacent New York*. University of Massachusetts Press, Amherst, MA. 1213 pp.

Maine Department of Agriculture, Conservation & Forestry, 2021. Maine Natural Areas Program (MNAP) - Natural Community Fact Sheets. https://www.maine.gov/dacf/mnap/features/commsheets.htm. Accessed January, 2023

McKnight, K.B., Rohrer, J.R., Ward, K.M. and Perdrizet, W.J., 2013. Common mosses of the Northeast and Appalachians. Princeton University Press.

McMullin, T. and Anderson, F., 2014. Common Lichens of Northeastern North America: A Field Guide. New York Botanical Press.

Mittlehauser, Gl. H., M. Arsenault, D. Cameron, E. Doucette. 2019. Grasses and Rushes of Maine: A Field Guide. University of Maine Press. Orono, Maine.

Munden, C. 2001. *Native orchids of Nova Scotia. A field guide*. University College of Cape Breton Press. 96 pp.

Munro, M. C., Newell, R. E. and Hill, N. M. 2014. Nova Scotia Plants. Province of Nova Scotia. 584, 1190,1229, 1274, 1553 pp. Available at: https://ojs.library.dal.ca/NSM/pages/view/Plants.

Nash, T.H., Ryan, B.D., Gries, C., Bungartz, F., (eds.) 2002. Lichen Flora of the Greater Sonoran Desert Region. Vol 1.

National Wetlands Working Group. 1997. The Canadian Wetland Classification System, 2nd Edition. Warner, B.G. and C.D.A. Rubec (eds.), Wetlands Research Centre, University of Waterloo, Waterloo, ON, Canada. 68 p.

Native Plant Trust, 2023. GoBotany. https://gobotany.nativeplanttrust.org/

NatureServe Explorer, 2023). *Heterodermia neglecta* - Neglected Fringe Lichen. https://explorer.natureserve.org/Taxon/ELEMENT_GLOBAL.2.836168/Heterodermia_neglecta.

Neily, P., S. Basquill, E. Quigley, and K. Keys. 2017. Ecological Land Classification for Nova Scotia. Nova Scotia Department of Natural Resources, Renewable Resources Branch. 298 pp. Available at Ecological-Land-Classification-guide.pdf (novascotia.ca)

Neily, P.D.; Basquill, S.; Quigley, E.; Stewart, B.; and Keys, K. 2010. Forest Ecosystem Classification for Nova Scotia. Part 1: Vegetation Types. NS DNRR Report FOR 2011-1. Online resource. http://www.gov.ns.ca/natr/forestry/veg-types/pdf/vegtypes.pdf.

Neily, P.D.;Quigley, E.; Benjamin, L.; Stewart, B.J.; and Duke, T. 2003. Ecological Land Classification for Nova Scotia: Volume 1 - Mapping Nova Scotia's Terrestrial Ecosystems. NS DNRR Report DNR 2003-2. Online resource. http://www.gov.ns.ca/natr/forestry/ecological/pdf/ELCrevised2.pdf.

Nelson, M.P., S. Will-Wolf and A. Gargas. 2007. One-hundred years of change in corticolous macrolichens of Madison, Wisconsin. Evansia 24: 108–112.

New Hampshire Natural Heritage Bureau, 2012. Natural Communities of New Hampshire (NCNH)-Second Edition. NH Natural Heritage Bureau, Concord, NH. Pub. UNH

Cooperative Extension, Durham, NH. Available: http://www.nhdfl.org/library/pdf/Natural%20Heritage/Natural%20Community%20Manual_2nd%20Ed.pdf. Accessed November, 2022.

Newcomb, L. 1989. *Newcomb's Wildflower Guide*. Boston. Little, Brown and Co.

North American Orchid Conservation Center, 2023b. *Platanthera orbiculata* (Round Leaved Orchid): Go Orchids (northamericanorchidcenter.org).

North American Orchid Conservation Center. 2023a. *Platanthera hookeri,* Hooker's Bog Orchid. Available at https://www.goorchids.northamericanorchidcenter.org/species/platanthera/hookeri / Accessed January 21, 2023.

Nova Scotia Department of Natural Resources and Renewables (NS DNRR). Nova Scotia Department of Natural Resources. *Significant Species and Habitats Database*. Available at: http://www.gov.ns.ca/natr/wildlife/Thp/disclaim.htm.

Nova Scotia Department of Natural Resources and Renewables (NS DNRR). 2020. Provincial Landscape Viewer – Help: Forestry. Available Online: https://nsgi.novascotia.ca/plv/help/help.htm#_Toc448499409. Accessed February 2023.

Nova Scotia Department of Natural Resources, 2018. At-Risk Lichens–Special Management Practices. Available at: https://novascotia.ca/natr/wildlife/habitats/terrestrial/pdf/SMP_BFL_At-Risk-Lichens.pdf

Nova Scotia Environment (NSE). 2012. *Nova Scotia Wetland Plant Indicator Plant List*. Retrieved Online: https://novascotia.ca/nse/wetland/indicator.plant.list.asp

Nova Scotia Geomatics Centre (NSGC). 2022. Data Locator – Elevation Explorer. https://nsgi.novascotia.ca/datalocator/elevation/ [Accessed 15 March 2023].

Pope, R., 2016. Mosses, liverworts, and hornworts: a field guide to common bryophytes of the northeast. Comstock Publishing Associates, a division of Cornell University Press.

Porter, C.J.M., Basquill, S.P. and Lundholm, J.T. 2020. Barrens Ecosystems in Nova Scotia: Classification of Heathlands and Related Plant Communities. Joint publication of Nova Scotia government and Saint Mary's University. Nova Scotia Department of Lands and Forestry, Biodiversity Reference Guide 2020-001.

Rydin, H. and Jeglum, J.K., 2006. Peatlands around the world. In *The biology of peatlands*.

Species at Risk Public Registry. *Schedule 1: List of Wildlife Species at Risk*. www.sararegistry.gc.ca/species/schedules_e.cfm?id=1 [Accessed November 2016].

Sperduto, D.D. and W. F. Nichols. 2011. Natural Communities of New Hampshire. 2nd Ed. NH Natural Heritage Bureau, Concord, NH. Pub. UNH Cooperative Extension, Durham, NH. Available: http://www.nhdfl.org/library/pdf/Natural%20Heritage/Natural%20Community%20Manual_2nd%20Ed.pdf. Accessed November, 2022.

Stone, D. F., Hinds, J. W., Anderson, F. L., & Lendemer, J,C. 2016. A revision of the *Leptogium saturninum* group in North America. Cambridge University Press, Sept 27, 2016.

Strum Consulting, 2022. Lichen Assessment Nuttby II, Bear Lake and Loganville Wind Energy Sites. Submitted to Nova Scotia Power Inc. November 14, 2022.

Sweeney, J.D., Hughes, C., Zhang, H., Hillier, N.K., Morrison, A. and Johns, R., 2020. Impact of the invasive beech leaf-mining weevil, Orchestes fagi, on American beech in Nova Scotia, Canada. *Frontiers in Forests and Global Change*, *3*, p.46.

United States Department of Agriculture (USDA), Natural Resources Conservation Service. 2010. Field Indicators of Hydric Soils in the United States, Version 7.0. L.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

United States Department of Agriculture (USDA). 2023. The PLANTS Database (http://plants.usda.gov, 08 February 2023). National Plant Data Team, Greensboro, NC 27401-4901 USA.

University of New Hampshire, 2019. Invasive in the Spotlight: Glossy Buckthorn. Available at: https://extension.unh.edu/blog/2019/07/invasive-spotlight-glossy-buckthorn

Walewski, J. 2007. Lichens of the North Woods, A Field Guide To 111 Northern Species. North Woods Naturalist Series, Kollath & Stensaas Publishing, Duluth, Minnesota. 152 pp.

Warne, A. 2018. Multiflora rose (*Rosa multiflora*) Best Management Practices in Ontario. Ontario Invasive Plant Council, Peterborough, ON. Available at:https://www.ontarioinvasiveplants.ca/wp-content/uploads/2020/10/MultifloraRose_BMP.pdf

Wetmore, C.M. 1989. Lichens and air quality in Cuyahoga Valley National Recreation area Ohio. The Bryologist 92: 273–281.

White, B., Ogilvie, J., Campbell, D.M., Hiltz, D., Gauthier, B., Chisholm, H.K.H., Wen, H.K., Murphy, P.N. and Arp, P.A., 2012. Using the cartographic depth-to-water index to

locate small streams and associated wet areas across landscapes. Canadian Water Resources Journal/Revue canadienne des ressources hydriques, 37(4), pp.333-347.

Wong, P.Y. and I.M. Brodo. 1990. Significant records from the lichen flora of southern Ontario, Canada. The Bryologist 93: 357–367.

Zinck, M. 1998. *Roland's flora of Nova Scotia*. Nimbus Publishing and Nova Scotia Museum, Halifax.

9 Conclusion

9.1 Limitations of the Assessment

Completeness of Species and Community Inventory: As the vegetation surveys were conducted over late summer and fall due to the required Project schedule, it cannot be guaranteed that all vascular plant species or communities were encountered and identified. Woodland spring ephemeral species in particular would not be identifiable during this season and so did not contribute to the total vascular plant inventory.

Classification of Immature and Disturbed Sites: Many of the vegetative communities encountered throughout the Study Area were immature growth arising from disturbed conditions such as forestry or agriculture; as such, some of the locations surveyed proved inconclusive in terms of vegetation classification given the classification schemes used in this study. The NS DNRR FEC guides are intended for stands which are a minimum of 40 years old (Neily et al., 2010), and many of the forested locations encountered did not comply with this criterion. Areas such as plantations, recent clearcuts, roadsides, waste places and other vegetated anthropogenic sites were not classified at the community level.

Certainty of Community Classification: In some instances, the characteristics of some plant communities as noted in the field were considered to be intermediate (based on species presence/abundance) to a number of classes, based on the classification schemes being used for the study. Where this was found to be the case, professional best-judgement was used to assign the most fitting classification based on the observed characteristics.

P-ELC: The results of the current P-ELC analysis are intended as a mapping platform that may serve as a predictive and quantitative tool for:

- Assessing and quantifying Project effects on specific habitats, and by association their contained species (including SoCC and SAR); and
- Assessing availability of alternate habitat for SoCC and SAR beyond the footprint of the Project.

The actual execution of any such specific habitat studies using the P-ELC are excluded from the present study.

9.2 Closure

This report has been prepared for the sole benefit of NSPI. The report may not be relied upon by any other person or entity without the express written consent of CBCL Limited and NSPI.

Any use which a third party makes of this report and any reliance on decisions made based on it, are the responsibility of such third parties. CBCL Limited accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions made based on this report.

The conclusions presented represent the best judgement of the assessors based on the observed site conditions. Due to the nature of the investigation, the assessors cannot warrant against undiscovered environmental conditions or liabilities.

Should additional information become available, CBCL Limited requests that this information be brought to our attention so that we may re-assess the conclusions presented herein. Any changes to the Project alignment may result in a requirement to replicate the field program to capture any new information.

Respectfully submitted,

CBCL Limited

Prepared by:
Beth Cameron, M.Sc.
Senior Ecologist, Ecology

Prepared by:
Liz Robinson, B.Sc.
Intermediate Ecologist

Reviewed by:
Ian Bryson, M.Sc., EP
Senior Scientist, Ecology & Wetlands

APPENDIX A

AC CDC Rare Taxa Data Report

Atlantic Canada Conservation Data Centre
Centre de données sur la conservation du Canada atlantique

DATA REPORT 7546: Bear Lake, NS

Prepared 16 January 2023
by J. Pender, Conservation Data Analyst

CONTENTS OF REPORT

Map 1. A 100 km buffer around the study area

1.0 PREFACE

The Atlantic Canada Conservation Data Centre (AC CDC; www.accdc.com) is part of a network of NatureServe data centres and heritage programs serving 50 states in the U.S.A, 10 provinces and 1 territory in Canada, plus several Central and South American countries. The NatureServe network is more than 30 years old and shares a common conservation data methodology. The AC CDC was founded in 1997, and maintains data for the jurisdictions of New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland and Labrador. Although a non-governmental agency, the AC CDC is supported by 6 federal agencies and 4 provincial governments, as well as through outside grants and data processing fees.

Upon request and for a fee, the AC CDC queries its database and produces customized reports of the rare and endangered flora and fauna known to occur in or near a specified study area. As a supplement to that data, the AC CDC includes locations of managed areas with some level of protection, and known sites of ecological interest or sensitivity.

1.1 DATA LIST

Included datasets:

Filename	Contents
BearLkNS_7546ob.xls	Rare or legally-protected Flora and Fauna in your study area
BearLkNS_7546ob100km.xls	A list of Rare and legally protected Flora and Fauna within 100 km of your study area
BearLkNS_7546msa.xls	Managed and Biologically Significant Areas in your study area

1.2 RESTRICTIONS

The AC CDC makes a strong effort to verify the accuracy of all the data that it manages, but it shall not be held responsible for any inaccuracies in data that it provides. By accepting AC CDC data, recipients assent to the following limits of use:

a) Data is restricted to use by trained personnel who are sensitive to landowner interests and to potential threats to rare and/or endangered flora and fauna posed by the information provided.
b) Data is restricted to use by the specified Data User; any third party requiring data must make its own data request.
c) The AC CDC requires Data Users to cease using and delete data 12 months after receipt, and to make a new request for updated data if necessary at that time.
d) AC CDC data responses are restricted to the data in our Data System at the time of the data request.
e) Each record has an estimate of locational uncertainty, which must be referenced in order to understand the record's relevance to a particular location. Please see attached Data Dictionary for details.
f) AC CDC data responses are not to be construed as exhaustive inventories of taxa in an area.
g) The absence of a taxon cannot be inferred by its absence in an AC CDC data response.

1.3 ADDITIONAL INFORMATION

The accompanying Data Dictionary provides metadata for the data provided.

Please direct any additional questions about AC CDC data to the following individuals:

Plants, Lichens, Ranking Methods, All other Inquiries	Sean Blaney	Senior Scientist / Executive Director	(506) 364-2658	sean.blaney@accdc.ca
Animals (Fauna)	John Klymko	Zoologist	(506) 364-2660	john.klymko@accdc.ca
Data Management, GIS	James Churchill	Conservation Data Analyst / Field Biologist		james.churchill@accdc.ca
Billing	Jean Breau	Financial Manager / Executive Assistant	(506) 364-2657	jean.breau@accdc.ca

Questions on the biology of Federal Species at Risk can be directed to AC CDC: (506) 364-2658, with questions on Species at Risk regulations to: Samara Eaton, Canadian Wildlife Service (NB and PE): (506) 364-5060 or Julie McKnight, Canadian Wildlife Service (NS): (902) 426-4196.

New Brunswick. For information about rare taxa, protected areas, game animals, deer yards, old growth forests, archeological sites, fish habitat etc., or to determine if location-sensitive species (section 4.3) occur near your study site, please contact Hubert Askanas, Energy and Resource Development: (506) 453-5873.

Nova Scotia. For information about Species at Risk or general questions about Nova Scotia location-sensitive species please contact the Biodiversity Program at biodiversity@novascotia.ca. For questions about protected areas, game animals, deer yards, old growth forests, archeological sites, fish habitat etc., or to determine if location-sensitive species (section 4.3) occur near your study site please contact a Regional Biologist:

DIGB, ANNA, KING	Emma Vost	(902) 670-8187	Emma.Vost@novascotia.ca
SHEL, YARM	Sian Wilson	(902) 930-2978	Sian.Wilson@novascotia.ca
QUEE, LUNE	Peter Kydd	(902) 523-0969	Peter.Kydd@novascotia.ca
HALI, HANT	Shavonne Meyer	(902) 893-0816	Shavonne.Meyer@novascotia.ca
Central Region	Jolene Laverty	(902) 324-8953	Jolene.Laverty@novascotia.ca
COLC, CUMB	Kimberly George	(902) 890-1046	Kimberly.George@novascotia.ca
ANTI, GUYS	Harrison Moore	(902) 497-4119	Harrison.Moore@novascotia.ca
INVE, VICT	Maureen Cameron-MacMillan	(902) 295-2554	Maureen.Cameron-MacMillan@novascotia.ca
CAPE, RICH, PICT	Elizabeth Walsh	(902) 563-3370	Elizabeth.Walsh@novascotia.ca

Prince Edward Island. For information about rare taxa, protected areas, game animals, fish habitat etc., please contact Garry Gregory, PEI Department of Environment, Energy and Climate Action: (902) 569-7595.

2.0 RARE AND ENDANGERED SPECIES

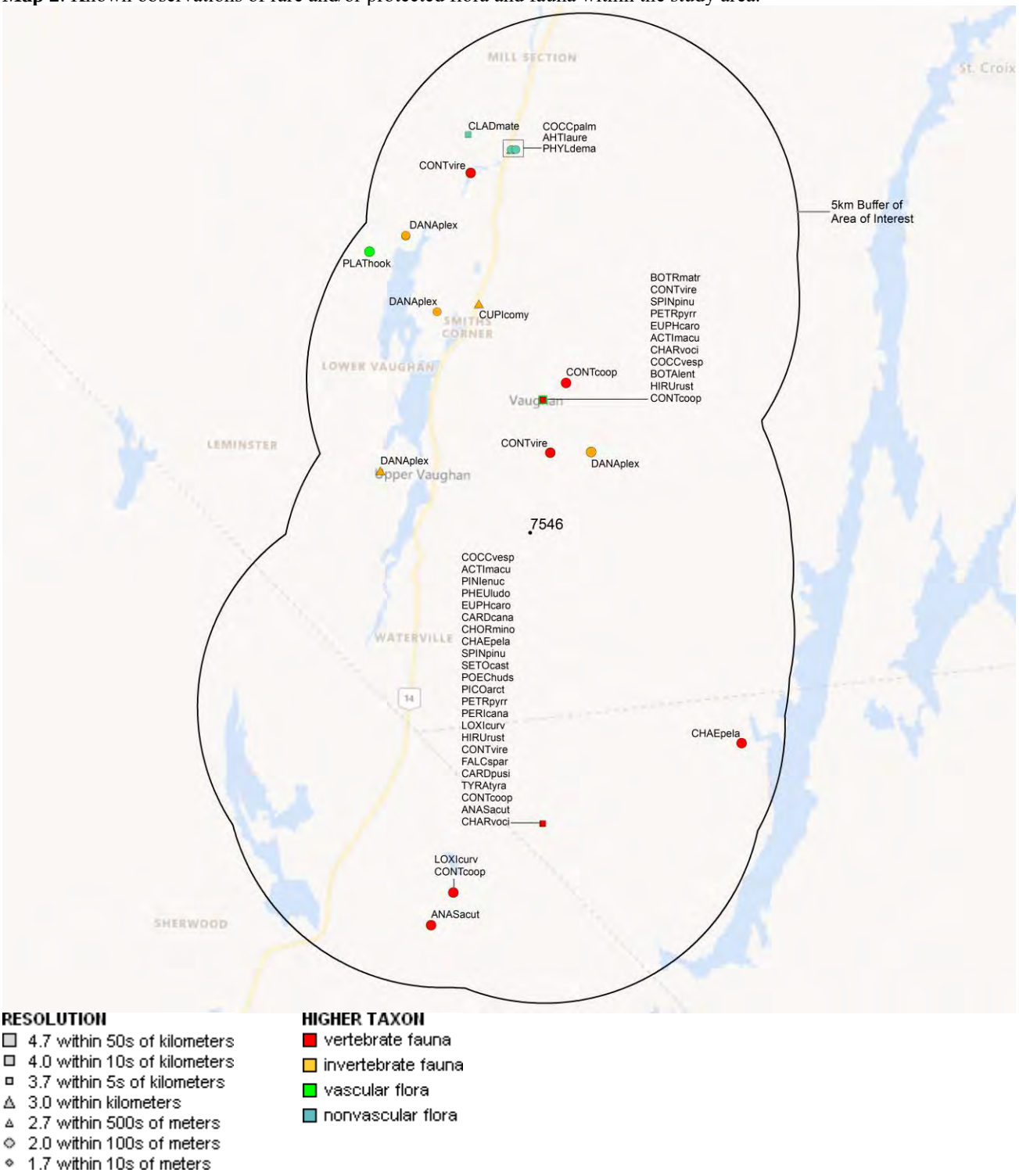
2.1 FLORA

The study area contains 2 records of 2 vascular and 4 records of 4 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 59 records of 24 vertebrate and 6 records of 2 invertebrate fauna (Map 2 and attached data files - see 1.1 Data List), excluding 'location-sensitive' species. Please see section 4.3 to determine if 'location-sensitive' species occur near your study site.

Map 2: Known observations of rare and/or protected flora and fauna within the study area.



RESOLUTION

- 4.7 within 50s of kilometers
- 4.0 within 10s of kilometers
- 3.7 within 5s of kilometers
- 3.0 within kilometers
- 2.7 within 500s of meters
- 2.0 within 100s of meters
- 1.7 within 10s of meters

HIGHER TAXON

- vertebrate fauna
- invertebrate fauna
- vascular flora
- nonvascular flora

3.0 SPECIAL AREAS

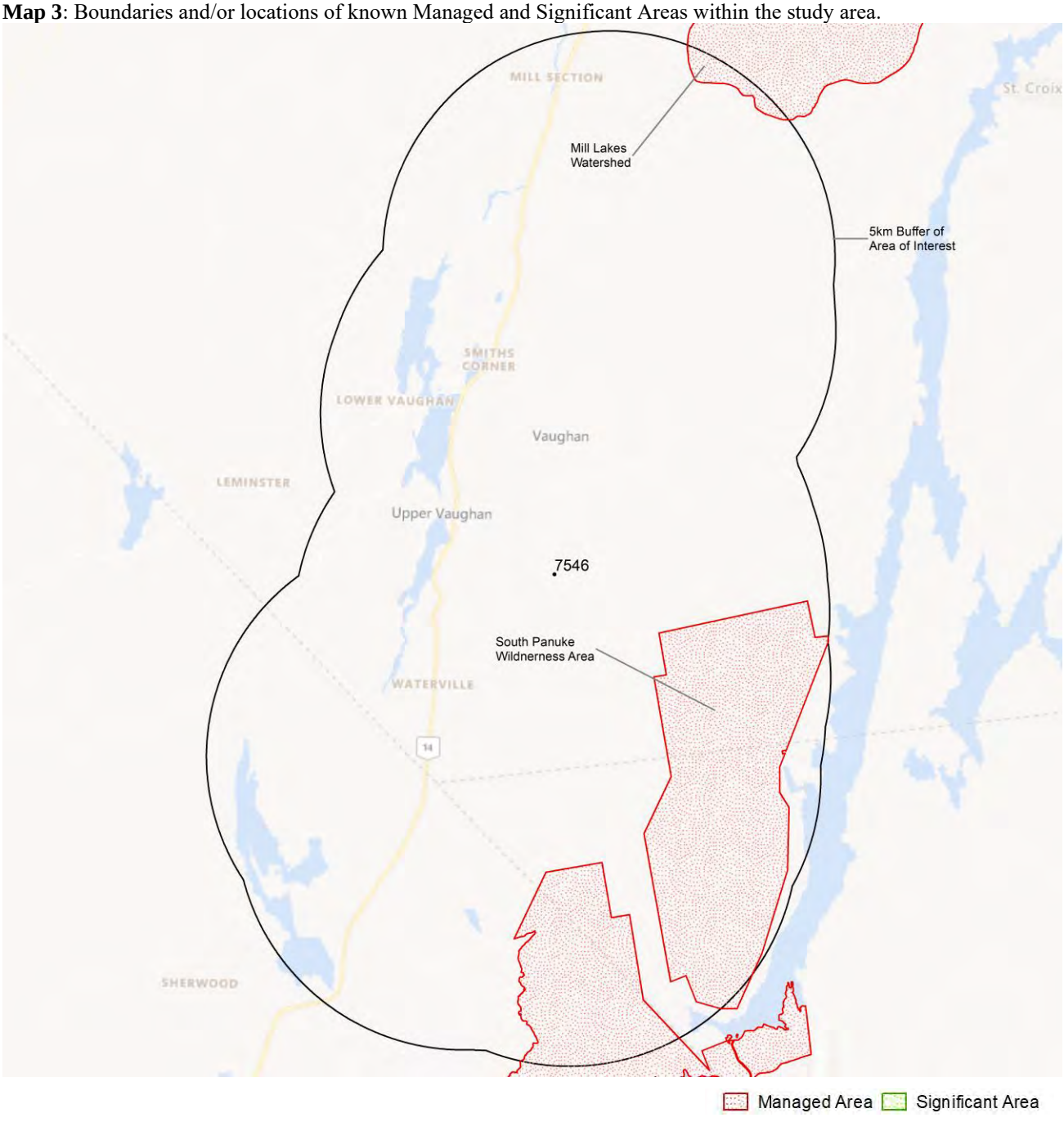
3.1 MANAGED AREAS

The GIS scan identified 2 managed areas in the vicinity of the study area (Map 3 and attached file: *msa.xls).

3.2 SIGNIFICANT AREAS

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3).

Map 3: Boundaries and/or locations of known Managed and Significant Areas within the study area.



4.0 RARE SPECIES LISTS

Rare and/or endangered taxa (excluding “location-sensitive” species, section 4.3) within the study area listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation (± the precision, in km, of the record). [P] = vascular plant, [N] = nonvascular plant, [A] = vertebrate animal, [I] = invertebrate animal, [C] = community. Note: records are from attached files *ob.xls/*ob.shp only.

4.1 FLORA

	Scientific *Name*	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
N	*Phylliscum demangeonii*	Black Rock-wafer Lichen				S2?	1	9.0 ± 0.0
N	*Ahtiana aurescens*	Eastern Candlewax Lichen				S2S3	1	9.1 ± 2.0
N	*Cladonia mateocyatha*	Mixed-up Pixie-cup				S2S3	1	9.5 ± 6.0
N	*Coccocarpia palmicola*	Salted Shell Lichen				S3S4	1	9.1 ± 0.0
P	*Platanthera hookeri*	Hooker's Orchid				S3	1	7.6 ± 0.0
P	*Botrychium matricariifolium*	Daisy-leaved Moonwort				S3S4	1	3.1 ± 10.0

4.2 FAUNA

	Scientific *Name*	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	*Chaetura pelagica*	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	2	6.9 ± 7.0
A	*Euphagus carolinus*	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	3	3.1 ± 7.0
A	*Hirundo rustica*	Barn Swallow	Special Concern	Threatened	Endangered	S3B	4	3.1 ± 7.0
A	*Cardellina canadensis*	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1	6.9 ± 7.0
A	*Chordeiles minor*	Common Nighthawk	Special Concern	Threatened	Threatened	S3B	1	6.9 ± 7.0
A	*Contopus cooperi*	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S3B	8	3.1 ± 7.0
A	*Coccothraustes vespertinus*	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	4	3.1 ± 7.0
A	*Contopus virens*	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	7	1.9 ± 0.0
A	*Anas acuta*	Northern Pintail				S1B,SUM	2	6.9 ± 7.0
A	*Petrochelidon pyrrhonota*	Cliff Swallow				S2S3B	2	3.1 ± 7.0
A	*Perisoreus canadensis*	Canada Jay				S3	3	6.9 ± 7.0
A	*Poecile hudsonicus*	Boreal Chickadee				S3	2	6.9 ± 7.0
A	*Spinus pinus*	Pine Siskin				S3	4	3.1 ± 7.0
A	*Charadrius vociferus*	Killdeer				S3B	2	3.1 ± 7.0
A	*Tyrannus tyrannus*	Eastern Kingbird				S3B	1	6.9 ± 7.0
A	*Pheucticus ludovicianus*	Rose-breasted Grosbeak				S3B	1	6.9 ± 7.0
A	*Falco sparverius*	American Kestrel				S3B,S4S5M	1	6.9 ± 7.0
A	*Cardellina pusilla*	Wilson's Warbler				S3B,S5M	1	6.9 ± 7.0
A	*Pinicola enucleator*	Pine Grosbeak				S3B,S5N,S5M	1	6.9 ± 7.0
A	*Picoides arcticus*	Black-backed Woodpecker				S3S4	1	6.9 ± 7.0
A	*Loxia curvirostra*	Red Crossbill				S3S4	2	6.9 ± 7.0
A	*Botaurus lentiginosus*	American Bittern				S3S4B,S4S5M	1	3.1 ± 7.0
A	*Setophaga castanea*	Bay-breasted Warbler				S3S4B,S4S5M	2	6.9 ± 7.0
A	*Actitis macularius*	Spotted Sandpiper				S3S4B,S5M	3	3.1 ± 7.0
I	*Danaus plexippus*	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	5	2.4 ± 0.0
I	*Cupido comyntas*	Eastern Tailed Blue				S3S4	1	5.5 ± 3.0

4.3 LOCATION SENSITIVE SPECIES

The Department of Natural Resources in each Maritimes province considers a number of species "location sensitive". Concern about exploitation of location-sensitive species precludes inclusion of precise coordinates in this report. Those intersecting your study area are indicated below with "YES".

Nova Scotia

Scientific *Name*	Common Name	SARA	Prov Legal Prot	Known within the Study Site?
Fraxinus nigra	Black Ash		Threatened	No
Emydoidea blandingii	*Blanding's Turtle - Nova Scotia pop.*	Endangered	Endangered	No
Glyptemys insculpta	Wood Turtle	Threatened	Threatened	No
Falco peregrinus pop. 1	Peregrine Falcon - anatum/tundrius pop.	Special Concern	Vulnerable	No
Bat hibernaculum or bat species occurrence		**[Endangered][1]**	**[Endangered][1]**	**YES**

1 *Myotis lucifugus* (Little Brown Myotis), *Myotis septentrionalis* (Long-eared Myotis), and *Perimyotis subflavus* (Tri-colored Bat or Eastern Pipistrelle) are all Endangered under the Federal Species at Risk Act and the NS Endangered Species Act.

4.4 SOURCE BIBLIOGRAPHY

The recipient of these data shall acknowledge the AC CDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

# recs	CITATION
34	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
25	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
4	Munro, Marian K. Tracked lichen specimens, Nova Scotia Provincial Museum of Natural History Herbarium. Atlantic Canada Conservation Data Centre. 2019.
2	Feltham, Carter. 2022. Monarch (Danaus plexippus) and Milkweed MTRI records from the 2022 Field Season. Mersey Tobeatic Research Institute.
2	Mersey Tobetic Research Institute. 2021. 2020 Monarch records from the MTRI monitoring program. Mersey Tobetic Research Institute, 72 records.
1	Amirault, D.L. 1995. Atlantic Canada Conservation Area Database (ARCAD). Canadian Wildlife Service, Sackville.
1	Cameron, R.P. 2012. Additional rare plant records, 2009. , 7 recs.
1	Canadian Wildlife Service. 2019. Canadian Protected and Conserved Areas Database (CPCAD). December 2019. ECCC.https://www.canada.ca/en/environment-climate-change/services/national-wildlife-areas/protected-conserved-areas-database.html.
1	Hubley, Nicole. 2022. Monarch (Danaus plexippus) records submitted to MTRI from the 2021 field season. Mersey Tobeatic Research Institute.
1	Klymko, J. 2018. Maritimes Butterfly Atlas database. Atlantic Canada Conservation Data Centre.
1	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 56429 records of 148 vertebrate and 1894 records of 67 invertebrate fauna; 15449 records of 304 vascular and 3165 records of 219 nonvascular flora (attached: *ob100km.xls).

Taxa within 100 km of the study site that are rare and/or endangered in the province in which the study site occurs (including “location-sensitive” species). All ranks correspond to the province in which the study site falls, even for out-of-province records. Taxa are listed in order of concern, beginning with legally listed taxa, with the number of observations per taxon and the distance in kilometers from study area centroid to the closest observation (± the precision, in km, of the record).

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Coregonus huntsmani*	Atlantic Whitefish	Endangered	Endangered	Endangered	S1	147	49.4 ± 1.0	NS
A	*Myotis lucifugus*	Little Brown Myotis	Endangered	Endangered	Endangered	S1	674	2.8 ± 0.0	NS
A	*Myotis septentrionalis*	Northern Myotis	Endangered	Endangered	Endangered	S1	80	23.1 ± 0.0	NS
A	*Perimyotis subflavus*	Tricolored Bat	Endangered	Endangered	Endangered	S1	189	23.1 ± 0.0	NS
A	*Emydoidea blandingii*	Blanding's Turtle	Endangered	Endangered	Endangered	S1	10097	52.6 ± 0.0	NS
A	*Salmo salar pop. 1*	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered		S1	40	15.7 ± 0.0	NS
A	*Salmo salar pop. 6*	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	25	15.0 ± 0.0	NS
A	*Charadrius melodus melodus*	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	1056	35.4 ± 0.0	NS
A	*Sterna dougallii*	Roseate Tern	Endangered	Endangered	Endangered	S1B	62	29.3 ± 0.0	NS
A	*Dermochelys coriacea pop. 2*	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	3	22.9 ± 5.0	NS
A	*Morone saxatilis pop. 2*	Striped Bass - Bay of Fundy population	Endangered			S2S3B,S2S3N	5	31.5 ± 1.0	NS
A	*Catharus bicknelli*	Bicknell's Thrush	Threatened	Threatened	Endangered	S1B	1	80.4 ± 7.0	NS
A	*Asio flammeus*	Short-eared Owl	Threatened	Special Concern		S1B	12	34.3 ± 0.0	NS
A	*Glyptemys insculpta*	Wood Turtle	Threatened	Threatened	Threatened	S2	1683	18.2 ± 5.0	NS
A	*Riparia riparia*	Bank Swallow	Threatened	Threatened	Endangered	S2B	1779	10.2 ± 7.0	NS
A	*Thamnophis saurita*	Eastern Ribbonsnake	Threatened	Threatened	Threatened	S2S3	2241	52.9 ± 0.0	NS
A	*Chaetura pelagica*	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	1485	6.9 ± 7.0	NS
A	*Limosa haemastica*	Hudsonian Godwit	Threatened			S2S3M	97	22.2 ± 0.0	NS
A	*Acipenser oxyrinchus*	Atlantic Sturgeon	Threatened			S2S3N	7	24.7 ± 0.0	NS
A	*Hydrobates leucorhous*	Leach's Storm-Petrel	Threatened			S3B	23	30.9 ± 0.0	NS
A	*Tringa flavipes*	Lesser Yellowlegs	Threatened			S3M	892	22.2 ± 0.0	NS
A	*Anguilla rostrata*	American Eel	Threatened			S3N	256	23.6 ± 0.0	NS
A	*Sturnella magna*	Eastern Meadowlark	Threatened	Threatened		SHB	4	33.1 ± 7.0	NS
A	*Hylocichla mustelina*	Wood Thrush	Threatened	Threatened		SUB	35	25.1 ± 7.0	NS
A	*Salmo salar pop. 12*	Atlantic Salmon - Gaspe - Southern Gulf of St. Lawrence population	Special Concern			S1	2	96.4 ± 0.0	NS
A	*Antrostomus vociferus*	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	15	19.9 ± 7.0	NS
A	*Passerculus sandwichensis princeps*	Ipswich Sparrow	Special Concern	Special Concern		S1B	4	60.7 ± 0.0	NS
A	*Bucephala islandica*	Barrow's Goldeneye	Special Concern	Special Concern		S1N,SUM	2	34.2 ± 2.0	NS
A	*Euphagus carolinus*	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	302	3.1 ± 7.0	NS
A	*Balaenoptera physalus*	Fin Whale	Special Concern	Special Concern		S2S3	1	48.3 ± 0.0	NS
A	*Phalaropus lobatus*	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	9	60.6 ± 0.0	NS
A	*Histrionicus histrionicus pop. 1*	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2S3N,SUM	38	40.8 ± 6.0	NS
A	*Chelydra serpentina*	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	533	14.2 ± 0.0	NS
A	*Hirundo rustica*	Barn Swallow	Special Concern	Threatened	Endangered	S3B	1336	3.1 ± 7.0	NS
A	*Cardellina canadensis*	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1111	6.9 ± 7.0	NS
A	*Chordeiles minor*	Common Nighthawk	Special Concern	Threatened	Threatened	S3B	570	6.9 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Contopus cooperi*	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S3B	1050	3.1 ± 7.0	NS
A	*Dolichonyx oryzivorus*	Bobolink	Special Concern	Threatened	Vulnerable	S3B	1477	10.2 ± 7.0	NS
A	*Coccothraustes vespertinus*	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	866	3.1 ± 7.0	NS
A	*Podiceps auritus*	Horned Grebe	Special Concern	Special Concern		S3N,SUM	9	23.5 ± 0.0	NS
A	*Contopus virens*	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1429	1.9 ± 0.0	NS
A	*Phocoena phocoena*	Harbour Porpoise	Special Concern			S4	6	15.7 ± 1.0	NS
A	*Chrysemys picta*	Painted Turtle	Special Concern	Special Concern		S4	2	59.5 ± 0.0	NS
A	*Chrysemys picta picta*	Eastern Painted Turtle	Special Concern	Special Concern		S4	732	10.8 ± 0.0	NS
A	*Anarhichas lupus*	Atlantic Wolffish	Special Concern	Special Concern	Special Concern	SNR	1	55.6 ± 0.0	NS
A	*Accipiter cooperii*	Cooper's Hawk	Not At Risk			S1?B,SUN,SUM	4	39.9 ± 0.0	NS
A	*Fulica americana*	American Coot	Not At Risk			S1B	13	42.7 ± 0.0	NS
A	*Falco peregrinus pop. 1*	Peregrine Falcon - anatum/tundrius	Not At Risk	Special Concern	Vulnerable	S1B,SUM	166	23.1 ± 7.0	NS
A	*Sorex dispar*	Long-tailed Shrew	Not At Risk			S2	2	49.4 ± 0.0	NS
A	*Aegolius funereus*	Boreal Owl	Not At Risk			S2?B,SUM	4	66.3 ± 7.0	NS
A	*Lynx canadensis*	Canada Lynx	Not At Risk		Endangered	S2S3	2	61.0 ± 1.0	NS
A	*Globicephala melas*	Long-finned Pilot Whale	Not At Risk			S2S3	2	64.8 ± 0.0	NS
A	*Hemidactylium scutatum*	Four-toed Salamander	Not At Risk			S3	45	20.5 ± 0.0	NS
A	*Megaptera novaeangliae*	Humpback Whale	Not At Risk			S3	3	45.6 ± 0.0	NS
A	*Sterna hirundo*	Common Tern	Not At Risk			S3B	235	19.8 ± 7.0	NS
A	*Sialia sialis*	Eastern Bluebird	Not At Risk			S3B	100	27.0 ± 0.0	NS
A	*Buteo lagopus*	Rough-legged Hawk	Not At Risk			S3N	4	63.8 ± 0.0	NS
A	*Accipiter gentilis*	Northern Goshawk	Not At Risk			S3S4	138	13.1 ± 7.0	NS
A	*Glaucomys volans*	Southern Flying Squirrel	Not At Risk			S3S4	10	22.8 ± 0.0	NS
A	*Lagenorhynchus acutus*	Atlantic White-sided Dolphin	Not At Risk			S3S4	5	25.5 ± 0.0	NS
A	*Ammospiza nelsoni*	Nelson's Sparrow	Not At Risk			S3S4B	148	13.1 ± 7.0	NS
A	*Calidris canutus rufa*	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2M	644	22.2 ± 0.0	NS
A	*Morone saxatilis*	Striped Bass	E,SC			S2S3B,S2S3N	9	23.2 ± 0.0	NS
A	*Gadus morhua*	Atlantic Cod	E,SC,DD			SNR	2	41.4 ± 0.0	NS
A	*Alces alces americana*	Moose			Endangered	S1	26	10.1 ± 0.0	NS
A	*Uria aalge*	Common Murre				S1?B	1	68.3 ± 0.0	NS
A	*Passerina cyanea*	Indigo Bunting				S1?B,SUM	40	10.2 ± 7.0	NS
A	*Oxyura jamaicensis*	Ruddy Duck				S1B	3	60.1 ± 0.0	NS
A	*Gallinula galeata*	Common Gallinule				S1B	7	20.8 ± 7.0	NS
A	*Myiarchus crinitus*	Great Crested Flycatcher				S1B	43	25.1 ± 7.0	NS
A	*Cistothorus palustris*	Marsh Wren				S1B	5	57.7 ± 7.0	NS
A	*Mimus polyglottos*	Northern Mockingbird				S1B	54	21.1 ± 0.0	NS
A	*Toxostoma rufum*	Brown Thrasher				S1B	20	38.5 ± 7.0	NS
A	*Charadrius semipalmatus*	Semipalmated Plover				S1B,S4M	1785	22.2 ± 0.0	NS
A	*Calidris minutilla*	Least Sandpiper				S1B,S4M	1308	22.2 ± 0.0	NS
A	*Anas acuta*	Northern Pintail				S1B,SUM	31	6.9 ± 7.0	NS
A	*Vireo gilvus*	Warbling Vireo				S1B,SUM	20	33.2 ± 0.0	NS
A	*Vespertilionidae sp.*	bat species				S1S2	409	2.8 ± 0.0	NS
A	*Pooecetes gramineus*	Vesper Sparrow				S1S2B,SUM	55	30.5 ± 7.0	NS
A	*Vireo philadelphicus*	Philadelphia Vireo				S2?B,SUM	49	59.4 ± 0.0	NS
A	*Alca torda*	Razorbill				S2B	17	48.0 ± 7.0	NS
A	*Fratercula arctica*	Atlantic Puffin				S2B	20	40.1 ± 0.0	NS
A	*Empidonax traillii*	Willow Flycatcher				S2B	64	31.3 ± 0.0	NS
A	*Molothrus ater*	Brown-headed Cowbird				S2B	226	13.1 ± 7.0	NS
A	*Spatula clypeata*	Northern Shoveler				S2B,SUM	57	22.1 ± 0.0	NS
A	*Mareca strepera*	Gadwall				S2B,SUM	80	23.7 ± 7.0	NS
A	*Piranga olivacea*	Scarlet Tanager				S2B,SUM	57	13.1 ± 7.0	NS
A	*Calidris alba*	Sanderling				S2N,S3M	1389	22.2 ± 0.0	NS
A	*Martes americana*	American Marten			Endangered	S2S3	13	77.6 ± 0.0	NS
A	*Asio otus*	Long-eared Owl				S2S3	26	21.4 ± 7.0	NS
A	*Rallus limicola*	Virginia Rail				S2S3B	28	29.9 ± 7.0	NS
A	*Rissa tridactyla*	Black-legged Kittiwake				S2S3B	9	48.0 ± 7.0	NS
A	*Petrochelidon pyrrhonota*	Cliff Swallow				S2S3B	288	3.1 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Phalacrocorax carbo*	Great Cormorant				S2S3B,S2S3N	33	15.3 ± 0.0	NS
A	*Cathartes aura*	Turkey Vulture				S2S3B,S4S5M	72	21.6 ± 0.0	NS
A	*Setophaga pinus*	Pine Warbler				S2S3B,S4S5M	25	32.5 ± 7.0	NS
A	*Bucephala clangula*	Common Goldeneye				S2S3B,S5N,S5M	129	24.6 ± 8.0	NS
A	*Icterus galbula*	Baltimore Oriole				S2S3B,SUM	100	13.1 ± 7.0	NS
A	*Pluvialis dominica*	American Golden-Plover				S2S3M	258	22.2 ± 0.0	NS
A	*Numenius phaeopus hudsonicus*	Whimbrel				S2S3M	256	34.7 ± 0.0	NS
A	*Phalaropus fulicarius*	Red Phalarope				S2S3M	4	64.2 ± 0.0	NS
A	*Perisoreus canadensis*	Canada Jay				S3	522	6.9 ± 7.0	NS
A	*Poecile hudsonicus*	Boreal Chickadee				S3	464	6.9 ± 7.0	NS
A	*Spinus pinus*	Pine Siskin				S3	543	3.1 ± 7.0	NS
A	*Salvelinus fontinalis*	Brook Trout				S3	60	16.7 ± 0.0	NS
A	*Salvelinus namaycush*	Lake Trout				S3	1	70.8 ± 0.0	NS
A	*Sorex maritimensis*	Maritime Shrew				S3	1	94.4 ± 0.0	NS
A	*Synaptomys cooperi*	Southern Bog Lemming				S3	1	49.4 ± 0.0	NS
A	*Pekania pennanti*	Fisher				S3	12	24.5 ± 0.0	NS
A	*Calcarius lapponicus*	Lapland Longspur				S3?N,SUM	2	47.2 ± 0.0	NS
A	*Spatula discors*	Blue-winged Teal				S3B	126	23.1 ± 7.0	NS
A	*Charadrius vociferus*	Killdeer				S3B	631	3.1 ± 7.0	NS
A	*Tringa semipalmata*	Willet				S3B	1644	22.0 ± 0.0	NS
A	*Sterna paradisaea*	Arctic Tern				S3B	53	26.4 ± 7.0	NS
A	*Coccyzus erythropthalmus*	Black-billed Cuckoo				S3B	69	25.3 ± 0.0	NS
A	*Tyrannus tyrannus*	Eastern Kingbird				S3B	277	6.9 ± 7.0	NS
A	*Pheucticus ludovicianus*	Rose-breasted Grosbeak				S3B	525	6.9 ± 7.0	NS
A	*Alosa pseudoharengus*	Alewife				S3B	19	15.0 ± 1.0	NS
A	*Somateria mollissima*	Common Eider				S3B,S3M,S3N	486	26.4 ± 7.0	NS
A	*Tringa melanoleuca*	Greater Yellowlegs				S3B,S4M	1867	22.0 ± 0.0	NS
A	*Falco sparverius*	American Kestrel				S3B,S4S5M	294	6.9 ± 7.0	NS
A	*Gallinago delicata*	Wilson's Snipe				S3B,S5M	672	10.2 ± 7.0	NS
A	*Setophaga striata*	Blackpoll Warbler				S3B,S5M	90	12.6 ± 0.0	NS
A	*Cardellina pusilla*	Wilson's Warbler				S3B,S5M	105	6.9 ± 7.0	NS
A	*Pinicola enucleator*	Pine Grosbeak				S3B,S5N,S5M	135	6.9 ± 7.0	NS
A	*Setophaga tigrina*	Cape May Warbler				S3B,SUM	129	11.9 ± 7.0	NS
A	*Branta bernicla*	Brant				S3M	7	34.7 ± 0.0	NS
A	*Pluvialis squatarola*	Black-bellied Plover				S3M	1971	22.2 ± 0.0	NS
A	*Arenaria interpres*	Ruddy Turnstone				S3M	773	22.2 ± 0.0	NS
A	*Calidris pusilla*	Semipalmated Sandpiper				S3M	1627	22.2 ± 0.0	NS
A	*Calidris melanotos*	Pectoral Sandpiper				S3M	339	22.2 ± 0.0	NS
A	*Limnodromus griseus*	Short-billed Dowitcher				S3M	1266	22.2 ± 0.0	NS
A	*Chroicocephalus ridibundus*	Black-headed Gull				S3N	7	60.5 ± 0.0	NS
A	*Picoides arcticus*	Black-backed Woodpecker				S3S4	119	6.9 ± 7.0	NS
A	*Loxia curvirostra*	Red Crossbill				S3S4	261	6.9 ± 7.0	NS
A	*Botaurus lentiginosus*	American Bittern				S3S4B,S4S5M	301	3.1 ± 7.0	NS
A	*Setophaga castanea*	Bay-breasted Warbler				S3S4B,S4S5M	385	6.9 ± 7.0	NS
A	*Actitis macularius*	Spotted Sandpiper				S3S4B,S5M	828	3.1 ± 7.0	NS
A	*Leiothlypis peregrina*	Tennessee Warbler				S3S4B,S5M	373	10.8 ± 7.0	NS
A	*Passerella iliaca*	Fox Sparrow				S3S4B,S5M	80	19.8 ± 7.0	NS
A	*Mergus serrator*	Red-breasted Merganser				S3S4B,S5M,S5N	140	19.8 ± 7.0	NS
A	*Calidris maritima*	Purple Sandpiper				S3S4N	206	30.7 ± 10.0	NS
A	*Lanius borealis*	Northern Shrike				S3S4N	29	55.5 ± 0.0	NS
A	*Morus bassanus*	Northern Gannet				SHB	26	36.4 ± 0.0	NS
A	*Aythya americana*	Redhead				SHB	2	53.3 ± 0.0	NS
A	*Leucophaeus atricilla*	Laughing Gull				SHB	9	23.5 ± 0.0	NS
A	*Progne subis*	Purple Martin				SHB	6	60.1 ± 7.0	NS
A	*Eremophila alpestris*	Horned Lark				SHB,S4S5N,S5M	15	36.2 ± 0.0	NS
I	*Bombus bohemicus*	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	32	31.5 ± 5.0	NS
I	*Epeoloides pilosulus*	Macropis Cuckoo Bee	Endangered	Endangered	Endangered	S1	2	70.0 ± 5.0	NS

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I	*Danaus plexippus*	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	751	2.4 ± 0.0	NS
I	*Danaus plexippus plexippus*	Monarch	Endangered	Special Concern		S2?B,S3M	2	23.3 ± 0.0	NS
I	*Barnea truncata*	Atlantic Mud-piddock	Threatened	Threatened		S1	1	74.1 ± 1.0	NS
I	*Bombus suckleyi*	Suckley's Cuckoo Bumble Bee	Threatened			SH	2	61.0 ± 5.0	NS
I	*Alasmidonta varicosa*	Brook Floater	Special Concern	Special Concern	Threatened	S3	5	50.1 ± 0.0	NS
I	*Bombus terricola*	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	120	16.8 ± 5.0	NS
I	*Coccinella transversoguttata richardsoni*	Transverse Lady Beetle	Special Concern		Endangered	SH	4	24.4 ± 2.0	NS
I	*Gomphurus ventricosus*	Skillet Clubtail	Special Concern	Endangered		SH	2	28.8 ± 1.0	NS
I	*Cicindela formosa*	Big Sand Tiger Beetle				S1	1	36.1 ± 1.0	NS
I	*Erora laeta*	Early Hairstreak				S1	1	48.3 ± 1.0	NS
I	*Ophiogomphus anomalus*	Extra-Striped Snaketail				S1	8	78.6 ± 0.0	NS
I	*Pachydiplax longipennis*	Blue Dasher				S1	4	50.7 ± 0.0	NS
I	*Atlanticoncha ochracea*	Tidewater Mucket				S1	10	79.6 ± 1.0	NS
I	*Polygonia comma*	Eastern Comma				S1?	19	29.6 ± 0.0	NS
I	*Polygonia satyrus*	Satyr Comma				S1?	6	20.7 ± 2.0	NS
I	*Boloria chariclea*	Arctic Fritillary				S1S2	2	65.5 ± 2.0	NS
I	*Somatochlora brevicincta*	Quebec Emerald				S1S2	2	71.0 ± 0.0	NS
I	*Satyrium acadica*	Acadian Hairstreak				S2	5	86.7 ± 2.0	NS
I	*Coenagrion resolutum*	Taiga Bluet				S2	2	47.9 ± 1.0	NS
I	*Margaritifera margaritifera*	Eastern Pearlshell				S2	77	50.1 ± 0.0	NS
I	*Pantala hymenaea*	Spot-Winged Glider				S2?B	7	52.2 ± 1.0	NS
I	*Nymphalis l-album*	Compton Tortoiseshell				S2S3	19	23.9 ± 2.0	NS
I	*Aglais milberti*	Milbert's Tortoiseshell				S2S3	20	43.6 ± 1.0	NS
I	*Somatochlora kennedyi*	Kennedy's Emerald				S2S3	8	28.8 ± 1.0	NS
I	*Williamsonia fletcheri*	Ebony Boghaunter				S2S3	4	81.7 ± 0.0	NS
I	*Enallagma geminatum*	Skimming Bluet				S2S3	4	49.1 ± 0.0	NS
I	*Stylurus scudderi*	Zebra Clubtail				S2S3	28	42.5 ± 0.0	NS
I	*Alasmidonta undulata*	Triangle Floater				S2S3	31	42.9 ± 1.0	NS
I	*Strophiona nitens*	Chestnut Bark Long-horned Beetle				S3	2	39.8 ± 0.0	NS
I	*Hippodamia parenthesis*	Parenthesis Lady Beetle				S3	2	46.8 ± 0.0	NS
I	*Naemia seriata*	Seaside Lady Beetle				S3	16	32.8 ± 0.0	NS
I	*Chilocorus stigma*	Twice-stabbed Lady Beetle				S3	5	27.7 ± 0.0	NS
I	*Trachysida aspera*	Rough Flower Longhorn Beetle				S3	1	52.5 ± 0.0	NS
I	*Dicerca tenebrosa*	Dark Jewel Beetle				S3	2	86.5 ± 0.0	NS
I	*Astylopsis sexguttata*	Six-speckled Long-horned Beetle				S3	1	46.2 ± 0.0	NS
I	*Satyrium calanus*	Banded Hairstreak				S3	66	34.3 ± 0.0	NS
I	*Callophrys lanoraieensis*	Bog Elfin				S3	19	21.3 ± 2.0	NS
I	*Strymon melinus*	Gray Hairstreak				S3	16	23.0 ± 2.0	NS
I	*Ophiogomphus aspersus*	Brook Snaketail				S3	5	23.0 ± 0.0	NS
I	*Ophiogomphus mainensis*	Maine Snaketail				S3	11	52.4 ± 0.0	NS
I	*Ophiogomphus rupinsulensis*	Rusty Snaketail				S3	32	24.1 ± 0.0	NS
I	*Epitheca princeps*	Prince Baskettail				S3	17	40.5 ± 1.0	NS
I	*Somatochlora forcipata*	Forcipate Emerald				S3	7	28.7 ± 1.0	NS
I	*Enallagma vernale*	Vernal Bluet				S3	5	22.7 ± 1.0	NS
I	*Polygonia interrogationis*	Question Mark				S3B	198	24.6 ± 0.0	NS
I	*Cecropterus pylades*	Northern Cloudywing				S3S4	5	83.1 ± 2.0	NS
I	*Amblyscirtes hegon*	Pepper and Salt Skipper				S3S4	26	12.4 ± 5.0	NS
I	*Cupido comyntas*	Eastern Tailed Blue				S3S4	28	5.5 ± 3.0	NS
I	*Argynnis aphrodite*	Aphrodite Fritillary				S3S4	49	28.8 ± 2.0	NS
I	*Polygonia faunus*	Green Comma				S3S4	15	32.0 ± 2.0	NS
I	*Oeneis jutta*	Jutta Arctic				S3S4	23	28.8 ± 2.0	NS
I	*Aeshna clepsydra*	Mottled Darner				S3S4	30	38.9 ± 1.0	NS
I	*Aeshna constricta*	Lance-Tipped Darner				S3S4	22	23.4 ± 1.0	NS

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I	*Boyeria grafiana*	Ocellated Darner				S3S4	14	28.8 ± 1.0	NS
I	*Gomphaeschna furcillata*	Harlequin Darner				S3S4	35	25.7 ± 0.0	NS
I	*Somatochlora franklini*	Delicate Emerald				S3S4	5	28.8 ± 1.0	NS
I	*Erythrodiplax berenice*	Seaside Dragonlet				S3S4	3	39.4 ± 0.0	NS
I	*Nannothemis bella*	Elfin Skimmer				S3S4	30	24.2 ± 0.0	NS
I	*Sympetrum danae*	Black Meadowhawk				S3S4	1	91.5 ± 0.0	NS
I	*Enallagma vesperum*	Vesper Bluet				S3S4	16	40.5 ± 1.0	NS
I	*Amphiagrion saucium*	Eastern Red Damsel				S3S4	1	95.0 ± 1.0	NS
I	*Sphaerophoria pyrrhina*	Violaceous Globetail				SH	1	95.6 ± 5.0	NS
I	*Icaricia saepiolus*	Greenish Blue				SH	1	48.5 ± 2.0	NS
I	*Chlosyne nycteis*	Silvery Checkerspot				SH	4	98.3 ± 2.0	NS
I	*Polygonia gracilis*	Hoary Comma				SH	1	96.8 ± 2.0	NS
N	*Erioderma mollissimum*	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1	16	31.0 ± 0.0	NS
N	*Erioderma pedicellatum (Atlantic pop.)*	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	96	20.0 ± 0.0	NS
N	*Peltigera hydrothyria*	Eastern Waterfan	Threatened	Threatened	Threatened	S1	91	13.9 ± 0.0	NS
N	*Pannaria lurida*	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3	255	11.0 ± 0.0	NS
N	*Pannaria lurida ssp. russellii*	Wrinkled Shingle Lichen	Threatened	Threatened		S2S3	1	92.4 ± 0.0	NS
N	*Anzia colpodes*	Black-foam Lichen	Threatened	Threatened	Threatened	S3	126	13.9 ± 0.0	NS
N	*Fuscopannaria leucosticta*	White-rimmed Shingle Lichen	Threatened			S3	54	15.0 ± 6.0	NS
N	*Heterodermia squamulosa*	Scaly Fringe Lichen	Threatened			S3	102	41.8 ± 0.0	NS
N	*Pectenia plumbea*	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	175	13.1 ± 0.0	NS
N	*Sclerophora peronella (Atlantic pop.)*	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4	24	11.9 ± 0.0	NS
N	*Pseudevernia cladonia*	Ghost Antler Lichen	Not At Risk			S2S3	27	29.0 ± 0.0	NS
N	*Fissidens exilis*	Pygmy Pocket Moss	Not At Risk			S3	16	21.1 ± 0.0	NS
N	*Aloina brevirostris*	Short-Beaked Rigid Screw Moss				S1	1	22.2 ± 2.0	NS
N	*Orthotrichum pallens*	Pale Bristle Moss				S1	1	92.0 ± 0.0	NS
N	*Sematophyllum demissum*	a Moss				S1	2	47.0 ± 2.0	NS
N	*Cyrto-hypnum minutulum*	Tiny Cedar Moss				S1	1	92.3 ± 0.0	NS
N	*Blennothallia crispa*	Crinkled Jelly Lichen				S1	1	46.5 ± 0.0	NS
N	*Umbilicaria vellea*	Grizzled Rocktripe Lichen				S1	1	29.4 ± 5.0	NS
N	*Usnea perplexans*	Powdered Beard Lichen				S1	1	39.1 ± 0.0	NS
N	*Heterodermia leucomela*	Elegant Fringe Lichen				S1	1	98.6 ± 0.0	NS
N	*Scytinium dactylinum*	Brown-buttoned Jellyskin Lichen				S1	2	52.2 ± 0.0	NS
N	*Flavoparmelia baltimorensis*	Rock Greenshield Lichen				S1	1	96.2 ± 0.0	NS
N	*Lathagrium cristatum*	Fingered Jelly Lichen				S1	3	26.1 ± 0.0	NS
N	*Ephebe hispidula*	Dryside Rockshag Lichen				S1	1	79.5 ± 0.0	NS
N	*Ephebe perspinulosa*	Thread Lichen				S1	2	52.0 ± 1.0	NS
N	*Fuscopannaria praetermissa*	Moss Shingles Lichen				S1	1	20.4 ± 0.0	NS
N	*Scytinium schraderi*	Wrinkled Jellyskin Lichen				S1	1	72.3 ± 0.0	NS
N	*Lichina confinis*	Marine Seaweed Lichen				S1	2	63.1 ± 1.0	NS
N	*Parmotrema perforatum*	Perforated Ruffle Lichen				S1	42	78.3 ± 0.0	NS
N	*Polychidium muscicola*	Eyed Mossthorns Woollybear Lichen				S1	2	62.8 ± 0.0	NS
N	*Pseudevernia consocians*	Common Antler Lichen				S1	1	55.0 ± 0.0	NS
N	*Spilonema revertens*	Rock Hairball Lichen				S1	4	85.4 ± 0.0	NS
N	*Sticta limbata*	Powdered Moon Lichen				S1	12	25.3 ± 0.0	NS
N	*Lathagrium fuscovirens*	Crumpled Rock Tarpaper Lichen				S1	1	87.4 ± 0.0	NS
N	*Dermatocarpon miniatum*	Common Stippleback Lichen				S1	1	69.0 ± 0.0	NS
N	*Peltigera lepidophora*	Scaly Pelt Lichen				S1	6	20.7 ± 0.0	NS
N	*Bryoria nitidula*	Tundra Horsehair Lichen				S1	2	63.3 ± 0.0	NS
N	*Hypogymnia hultenii*	Powdered Honeycomb Lichen				S1	7	37.9 ± 0.0	NS

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N	*Calypogeia neogaea*	Common Pouchwort				S1?	1	51.8 ± 0.0	NS
N	*Aloina rigida*	Aloe-Like Rigid Screw Moss				S1?	3	21.8 ± 0.0	NS
N	*Imbribryum muehlenbeckii*	Muehlenbeck's Bryum Moss				S1?	2	14.1 ± 0.0	NS
N	*Conardia compacta*	Coast Creeping Moss				S1?	1	41.1 ± 2.0	NS
N	*Tortula obtusifolia*	a Moss				S1?	2	96.0 ± 1.0	NS
N	*Didymodon tophaceus*	Olive Beard Moss				S1?	2	46.2 ± 4.0	NS
N	*Grimmia anodon*	Toothless Grimmia Moss				S1?	2	94.8 ± 3.0	NS
N	*Homomallium adnatum*	Adnate Hairy-gray Moss				S1?	1	95.1 ± 5.0	NS
N	*Paludella squarrosa*	Tufted Fen Moss				S1?	3	29.8 ± 0.0	NS
N	*Physcomitrium immersum*	a Moss				S1?	1	41.8 ± 0.0	NS
N	*Schistostega pennata*	Luminous Moss				S1?	1	36.5 ± 0.0	NS
N	*Trichodon cylindricus*	Cylindric Hairy-teeth Moss				S1?	1	59.9 ± 3.0	NS
N	*Plagiomnium ellipticum*	Marsh Leafy Moss				S1?	1	62.7 ± 0.0	NS
N	*Syntrichia ruralis*	a Moss				S1?	1	49.7 ± 0.0	NS
N	*Enchylium limosum*	Lime-loving Tarpaper Lichen				S1?	1	46.2 ± 4.0	NS
N	*Euopsis granatina*	Lesser Rockbud Lichen				S1?	1	82.5 ± 1.0	NS
N	*Scytinium intermedium*	Forty-five Jellyskin Lichen				S1?	1	46.2 ± 4.0	NS
N	*Melanelia culbersonii*	Appalachain Camouflage Lichen				S1?	1	29.4 ± 0.0	NS
N	*Porella pinnata*	Pinnate Scalewort				S1S2	1	75.3 ± 0.0	NS
N	*Arrhenopterum heterostichum*	One-sided Groove Moss				S1S2	3	22.2 ± 2.0	NS
N	*Brachythecium turgidum*	Thick Ragged Moss				S1S2	3	59.9 ± 3.0	NS
N	*Didymodon rigidulus*	Rigid Screw Moss				S1S2	2	89.8 ± 0.0	NS
N	*Hypnum pratense*	Meadow Plait Moss				S1S2	1	44.4 ± 3.0	NS
N	*Mnium thomsonii*	Thomson's Leafy Moss				S1S2	1	22.4 ± 2.0	NS
N	*Tortula acaulon*	Cuspidate Earth Moss				S1S2	1	46.4 ± 2.0	NS
N	*Plagiothecium latebricola*	Alder Silk Moss				S1S2	2	26.6 ± 5.0	NS
N	*Platydictya confervoides*	a Moss				S1S2	1	20.7 ± 0.0	NS
N	*Sematophyllum marylandicum*	a Moss				S1S2	3	46.9 ± 3.0	NS
N	*Timmia megapolitana*	Metropolitan Timmia Moss				S1S2	3	66.0 ± 1.0	NS
N	*Tortula mucronifolia*	Mucronate Screw Moss				S1S2	2	53.6 ± 3.0	NS
N	*Pseudotaxiphyllum distichaceum*	a Moss				S1S2	2	81.9 ± 4.0	NS
N	*Haplocladium microphyllum*	Tiny-leaved Haplocladium Moss				S1S2	2	79.7 ± 5.0	NS
N	*Enchylium bachmanianum*	Bachman's Jelly Lichen				S1S2	1	26.1 ± 0.0	NS
N	*Peltigera ponojensis*	Pale-bellied Pelt Lichen				S1S2	3	94.0 ± 0.0	NS
N	*Pilophorus cereolus*	Powdered Matchstick Lichen				S1S2	1	72.9 ± 3.0	NS
N	*Rhizoplaca subdiscrepans*	Scattered Rock-posy Lichen				S1S2	1	30.5 ± 1.0	NS
N	*Parmotrema reticulatum*	Netted Ruffle Lichen				S1S2	9	52.2 ± 0.0	NS
N	*Parmeliella parvula*	Poor-man's Shingles Lichen				S1S2	4	38.0 ± 0.0	NS
N	*Chaenotheca hygrophila*	a lichen				S1S3	9	77.9 ± 0.0	NS
N	*Umbilicaria polyrhiza*	Ballpoint Rocktripe Lichen				S1S3	1	69.5 ± 0.0	NS
N	*Lecanora polytropa*	a lichen				S1S3	2	63.2 ± 1.0	NS
N	*Heterodermia galactophylla*	Branching Fringe Lichen				S1S3	1	31.0 ± 0.0	NS
N	*Xylopsora friesii*	a Lichen				S1S3	2	51.7 ± 0.0	NS
N	*Peltigera neckeri*	Black-saddle Pelt Lichen				S1S3	1	89.7 ± 0.0	NS
N	*Usnea fragilescens*	Inflationary Beard Lichen				S1S3	1	78.6 ± 0.0	NS
N	*Usnea chaetophora*	Articulated Beard Lichen				S1S3	2	81.2 ± 0.0	NS
N	*Stereocaulon grande*	Grand Foam Lichen				S1S3	1	94.2 ± 0.0	NS
N	*Stereocaulon intermedium*	Pacific Brain Foam Lichen				S1S3	6	43.6 ± 0.0	NS
N	*Anacamptodon splachnoides*	a Moss				S2	3	50.1 ± 30.0	NS
N	*Sphagnum platyphyllum*	Flat-leaved Peat Moss				S2	3	50.4 ± 3.0	NS
N	*Sphagnum subnitens*	Lustrous Peat Moss				S2	4	97.4 ± 0.0	NS
N	*Usnea flavocardia*	Blood-splattered Beard Lichen				S2	1	38.1 ± 4.0	NS

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N	*Cystocoleus ebeneus*	Rockgossamer Lichen				S2	5	41.8 ± 0.0	NS
N	*Hypotrachyna catawbiensis*	Powder-tipped Antler Lichen				S2	19	29.5 ± 0.0	NS
N	*Scytinium imbricatum*	Scaly Jellyskin Lichen				S2	2	53.7 ± 4.0	NS
N	*Nephroma arcticum*	Arctic Kidney Lichen				S2	2	58.4 ± 1.0	NS
N	*Nephroma resupinatum*	a lichen				S2	12	11.6 ± 0.0	NS
N	*Placynthium flabellosum*	Scaly Ink Lichen				S2	2	62.8 ± 0.0	NS
N	*Riccardia multifida*	Delicate Germanderwort				S2?	1	95.3 ± 0.0	NS
N	*Weissia muhlenbergiana*	a Moss				S2?	5	21.4 ± 5.0	NS
N	*Atrichum angustatum*	Lesser Smoothcap Moss				S2?	7	79.5 ± 5.0	NS
N	*Ptychostomum pendulum*	Drooping Bryum				S2?	1	22.2 ± 2.0	NS
N	*Drepanocladus polygamus*	Polygamous Hook Moss				S2?	5	41.4 ± 2.0	NS
N	*Pseudocampylium radicale*	Long-stalked Fine Wet Moss				S2?	3	44.4 ± 3.0	NS
N	*Climacium americanum*	American Tree Moss				S2?	9	89.8 ± 0.0	NS
N	*Dicranum condensatum*	Condensed Broom Moss				S2?	4	33.5 ± 0.0	NS
N	*Ditrichum rhynchostegium*	a Moss				S2?	6	42.1 ± 1.0	NS
N	*Fissidens bushii*	Bush's Pocket Moss				S2?	5	72.2 ± 0.0	NS
N	*Fontinalis hypnoides*	a moss				S2?	1	92.7 ± 0.0	NS
N	*Fontinalis sullivantii*	Sullivant's Water Moss				S2?	3	84.6 ± 0.0	NS
N	*Grimmia olneyi*	a Moss				S2?	10	89.8 ± 0.0	NS
N	*Grimmia anomala*	Mountain Forest Grimmia				S2?	1	28.9 ± 1.0	NS
N	*Hygrohypnum bestii*	Best's Brook Moss				S2?	1	73.7 ± 0.0	NS
N	*Kiaeria starkei*	Starke's Fork Moss				S2?	1	89.8 ± 10.0	NS
N	*Orthotrichum anomalum*	Anomalous Bristle Moss				S2?	2	17.3 ± 2.0	NS
N	*Philonotis marchica*	a Moss				S2?	1	89.8 ± 0.0	NS
N	*Physcomitrium collenchymatum*	a Moss				S2?	1	59.9 ± 0.0	NS
N	*Platydictya jungermannioides*	False Willow Moss				S2?	1	71.2 ± 0.0	NS
N	*Rauiella scita*	Smaller Fern Moss				S2?	16	89.9 ± 0.0	NS
N	*Cyrtomnium hymenophylloides*	Short-pointed Lantern Moss				S2?	1	51.8 ± 5.0	NS
N	*Platylomella lescurii*	a Moss				S2?	9	18.5 ± 1.0	NS
N	*Phylliscum demangeonii*	Black Rock-wafer Lichen				S2?	5	9.0 ± 0.0	NS
N	*Oxyrrhynchium hians*	Light Beaked Moss				S2S3	6	24.1 ± 0.0	NS
N	*Platydictya subtilis*	Bark Willow Moss				S2S3	4	56.9 ± 0.0	NS
N	*Plagiomnium rostratum*	Long-beaked Leafy Moss				S2S3	5	59.0 ± 2.0	NS
N	*Scorpidium revolvens*	Limprichtia Moss				S2S3	2	29.8 ± 0.0	NS
N	*Moelleropsis nebulosa*	Blue-gray Moss Shingle Lichen				S2S3	32	18.7 ± 0.0	NS
N	*Moelleropsis nebulosa ssp. frullaniae*	Blue-gray Moss Shingle Lichen				S2S3	3	68.2 ± 0.0	NS
N	*Ramalina thrausta*	Angelhair Ramalina Lichen				S2S3	5	65.1 ± 5.0	NS
N	*Collema leptaleum*	Crumpled Bat's Wing Lichen				S2S3	68	11.1 ± 0.0	NS
N	*Usnea ceratina*	Warty Beard Lichen				S2S3	4	54.9 ± 0.0	NS
N	*Usnea hirta*	Bristly Beard Lichen				S2S3	2	51.9 ± 0.0	NS
N	*Usnea rubicunda*	Red Beard Lichen				S2S3	9	24.5 ± 0.0	NS
N	*Ahtiana aurescens*	Eastern Candlewax Lichen				S2S3	23	9.1 ± 2.0	NS
N	*Usnocetraria oakesiana*	Yellow Band Lichen				S2S3	17	8.8 ± 0.0	NS
N	*Cladonia incrassata*	Powder-foot British Soldiers Lichen				S2S3	2	93.6 ± 3.0	NS
N	*Cladonia mateocyatha*	Mixed-up Pixie-cup				S2S3	4	9.5 ± 6.0	NS
N	*Cladonia parasitica*	Fence-rail Lichen				S2S3	4	35.9 ± 0.0	NS
N	*Chaenotheca gracilenta*	a lichen				S2S3	1	53.2 ± 0.0	NS
N	*Scytinium tenuissimum*	Birdnest Jellyskin Lichen				S2S3	8	20.7 ± 0.0	NS
N	*Melanohalea septentrionalis*	Northern Camouflage Lichen				S2S3	1	39.4 ± 0.0	NS
N	*Myelochroa aurulenta*	Powdery Axil-bristle Lichen				S2S3	7	32.0 ± 2.0	NS
N	*Parmelia fertilis*	Fertile Shield Lichen				S2S3	4	16.5 ± 0.0	NS
N	*Hypotrachyna minarum*	Hairless-spined Shield				S2S3	6	52.7 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Parmeliopsis ambigua*	Green Starburst Lichen				S2S3	2	32.2 ± 2.0	NS
N	*Racodium rupestre*	Rockhair Lichen				S2S3	4	37.9 ± 0.0	NS
N	*Umbilicaria polyphylla*	Petalled Rocktripe Lichen				S2S3	1	32.2 ± 2.0	NS
N	*Usnea cavernosa*	Pitted Beard Lichen				S2S3	2	38.9 ± 2.0	NS
N	*Usnea mutabilis*	Bloody Beard Lichen				S2S3	1	39.0 ± 0.0	NS
N	*Fuscopannaria sorediata*	a Lichen				S2S3	8	31.4 ± 0.0	NS
N	*Stereocaulon condensatum*	Granular Soil Foam Lichen				S2S3	2	50.8 ± 0.0	NS
N	*Physcia subtilis*	Slender Rosette Lichen				S2S3	1	83.9 ± 0.0	NS
N	*Dimelaena oreina*	Golden Moonglow Lichen				S2S3	2	57.8 ± 0.0	NS
N	*Hypotrachyna revoluta*	Granulating Loop Lichen				S2S3	1	81.8 ± 2.0	NS
N	*Cetraria arenaria*	Sand-loving Icelandmoss Lichen				S2S3	20	47.9 ± 0.0	NS
N	*Cladonia coccifera*	Eastern Boreal Pixie-cup Lichen				S2S3	3	56.2 ± 0.0	NS
N	*Cladonia deformis*	Lesser Sulphur-cup Lichen				S2S3	3	6.2 ± 4.0	NS
N	*Cladonia phyllophora*	Felt Lichen				S2S3	2	41.3 ± 4.0	NS
N	*Hypotrachyna afrorevoluta*	Pustulate Revolute Loop Lichen				S2S3	3	81.2 ± 1.0	NS
N	*Usnea flammea*	Coastal Bushy Beard Lichen				S2S3	2	63.2 ± 1.0	NS
N	*Ephemerum serratum*	a Moss				S3	5	21.4 ± 5.0	NS
N	*Fissidens taxifolius*	Yew-leaved Pocket Moss				S3	8	20.8 ± 0.0	NS
N	*Anomodon tristis*	a Moss				S3	13	51.9 ± 0.0	NS
N	*Sphagnum contortum*	Twisted Peat Moss				S3	5	51.3 ± 0.0	NS
N	*Tetraplodon angustatus*	Toothed-leaved Nitrogen Moss				S3	3	62.4 ± 0.0	NS
N	*Rostania occultata*	Crusted Tarpaper Lichen				S3	7	49.6 ± 0.0	NS
N	*Collema nigrescens*	Blistered Tarpaper Lichen				S3	45	8.8 ± 0.0	NS
N	*Solorina saccata*	Woodland Owl Lichen				S3	11	26.0 ± 0.0	NS
N	*Fuscopannaria ahlneri*	Corrugated Shingles Lichen				S3	69	15.6 ± 0.0	NS
N	*Scytinium lichenoides*	Tattered Jellyskin Lichen				S3	32	20.7 ± 0.0	NS
N	*Leptogium milligranum*	Stretched Jellyskin Lichen				S3	23	26.7 ± 0.0	NS
N	*Nephroma bellum*	Naked Kidney Lichen				S3	9	35.1 ± 0.0	NS
N	*Placynthium nigrum*	Common Ink Lichen				S3	1	94.3 ± 3.0	NS
N	*Punctelia appalachensis*	Appalachian Speckleback Lichen				S3	143	50.9 ± 0.0	NS
N	*Viridothelium virens*					S3	3	31.9 ± 2.0	NS
N	*Ephebe lanata*	Waterside Rockshag Lichen				S3	4	14.1 ± 0.0	NS
N	*Phaeophyscia adiastola*	Powder-tipped Shadow Lichen				S3	19	52.2 ± 0.0	NS
N	*Phaeophyscia pusilloides*	Pompom-tipped Shadow Lichen				S3	11	28.1 ± 1.0	NS
N	*Peltigera collina*	Tree Pelt Lichen				S3	8	24.7 ± 2.0	NS
N	*Metzgeria conjugata*	Rock Veilwort				S3?	2	76.5 ± 0.0	NS
N	*Barbula convoluta*	Lesser Bird's-claw Beard Moss				S3?	3	20.7 ± 0.0	NS
N	*Calliergon giganteum*	Giant Spear Moss				S3?	3	25.5 ± 3.0	NS
N	*Drummondia prorepens*	a Moss				S3?	5	12.7 ± 5.0	NS
N	*Elodium blandowii*	Blandow's Bog Moss				S3?	6	21.2 ± 3.0	NS
N	*Mnium stellare*	Star Leafy Moss				S3?	3	23.8 ± 0.0	NS
N	*Sphagnum riparium*	Streamside Peat Moss				S3?	2	75.1 ± 1.0	NS
N	*Cladonia stygia*	Black-footed Reindeer Lichen				S3?	7	43.2 ± 0.0	NS
N	*Anomodon rugelii*	Rugel's Anomodon Moss				S3S4	9	51.9 ± 0.0	NS
N	*Dichelyma capillaceum*	Hairlike Dichelyma Moss				S3S4	9	21.5 ± 3.0	NS
N	*Dicranum leioneuron*	a Dicranum Moss				S3S4	1	42.8 ± 0.0	NS
N	*Encalypta ciliata*	Fringed Extinguisher Moss				S3S4	2	53.7 ± 3.0	NS
N	*Myurella julacea*	Small Mouse-tail Moss				S3S4	1	85.4 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Splachnum ampullaceum*	Cruet Dung Moss				S3S4	3	81.3 ± 0.0	NS
N	*Thamnobryum alleghaniense*	a Moss				S3S4	11	34.2 ± 4.0	NS
N	*Tomentypnum nitens*	Golden Fuzzy Fen Moss				S3S4	1	29.8 ± 0.0	NS
N	*Schistidium agassizii*	Elf Bloom Moss				S3S4	3	28.9 ± 1.0	NS
N	*Hylocomiastrum pyrenaicum*	a Feather Moss				S3S4	4	51.9 ± 0.0	NS
N	*Bryoria pseudofuscescens*	Mountain Horsehair Lichen				S3S4	2	93.7 ± 0.0	NS
N	*Enchylium tenax*	Soil Tarpaper Lichen				S3S4	10	26.1 ± 0.0	NS
N	*Sticta fuliginosa*	Peppered Moon Lichen				S3S4	67	21.5 ± 0.0	NS
N	*Arctoparmelia incurva*	Finger Ring Lichen				S3S4	72	33.5 ± 0.0	NS
N	*Scytinium teretiusculum*	Curly Jellyskin Lichen				S3S4	19	21.7 ± 0.0	NS
N	*Leptogium acadiense*	Acadian Jellyskin Lichen				S3S4	33	8.6 ± 0.0	NS
N	*Scytinium subtile*	Appressed Jellyskin Lichen				S3S4	25	11.1 ± 0.0	NS
N	*Felipes leucopellaeus*					S3S4	4	68.6 ± 0.0	NS
N	*Cladonia floerkeana*	Gritty British Soldiers Lichen				S3S4	3	8.6 ± 0.0	NS
N	*Vahliella leucophaea*	Shelter Shingle Lichen				S3S4	11	62.7 ± 0.0	NS
N	*Heterodermia speciosa*	Powdered Fringe Lichen				S3S4	66	13.4 ± 0.0	NS
N	*Leptogium corticola*	Blistered Jellyskin Lichen				S3S4	155	10.2 ± 0.0	NS
N	*Melanohalea olivacea*	Spotted Camouflage Lichen				S3S4	6	39.1 ± 0.0	NS
N	*Parmeliopsis hyperopta*	Gray Starburst Lichen				S3S4	3	80.4 ± 0.0	NS
N	*Parmotrema perlatum*	Powdered Ruffle Lichen				S3S4	35	52.2 ± 1.0	NS
N	*Peltigera hymenina*	Cloudy Pelt Lichen				S3S4	2	63.6 ± 2.0	NS
N	*Sphaerophorus fragilis*	Fragile Coral Lichen				S3S4	7	41.5 ± 3.0	NS
N	*Sclerophora peronella*	Frosted Glass-whiskers Lichen				S3S4	4	38.7 ± 0.0	NS
N	*Coccocarpia palmicola*	Salted Shell Lichen				S3S4	202	8.6 ± 0.0	NS
N	*Physcia caesia*	Blue-gray Rosette Lichen				S3S4	2	53.2 ± 0.0	NS
N	*Physcia tenella*	Fringed Rosette Lichen				S3S4	5	48.9 ± 0.0	NS
N	*Anaptychia palmulata*	Shaggy Fringed Lichen				S3S4	175	7.9 ± 0.0	NS
N	*Evernia prunastri*	Valley Oakmoss Lichen				S3S4	36	11.5 ± 2.0	NS
N	*Heterodermia neglecta*	Fringe Lichen				S3S4	120	8.7 ± 0.0	NS
P	*Rhynchospora macrostachya*	Tall Beakrush	Endangered	Endangered	Endangered	S1	57	67.7 ± 0.0	NS
P	*Clethra alnifolia*	Coast Pepper-Bush	Endangered	Threatened	Vulnerable	S2	174	57.5 ± 0.0	NS
P	*Fraxinus nigra*	Black Ash	Threatened		Threatened	S1S2	504	14.4 ± 0.0	NS
P	*Hydrocotyle umbellata*	Water Pennywort	Special Concern	Special Concern	Endangered	S2	71	92.4 ± 0.0	NS
P	*Eleocharis tuberculosa*	Tubercled Spike-rush	Special Concern	Special Concern	Vulnerable	S2	1	89.5 ± 0.0	NS
P	*Lachnanthes caroliniana*	Redroot	Special Concern	Special Concern	Vulnerable	S2	1472	67.0 ± 0.0	NS
P	*Lophiola aurea*	Goldencrest	Special Concern	Special Concern	Vulnerable	S2	788	58.6 ± 0.0	NS
P	*Lilaeopsis chinensis*	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S3	150	52.3 ± 1.0	NS
P	*Scirpus longii*	Long's Bulrush	Special Concern		Vulnerable	S3	499	58.4 ± 0.0	NS
P	*Isoetes prototypus*	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3	18	79.6 ± 0.0	NS
P	*Floerkea proserpinacoides*	False Mermaidweed	Not At Risk			S2S3	37	42.1 ± 1.0	NS
P	*Acer saccharinum*	Silver Maple				S1	11	40.1 ± 0.0	NS
P	*Toxicodendron vernix*	Poison Sumac				S1	41	86.4 ± 0.0	NS
P	*Osmorhiza depauperata*	Blunt Sweet Cicely				S1	1	34.1 ± 5.0	NS
P	*Antennaria rosea ssp. arida*	Rosy Pussytoes				S1	1	70.4 ± 0.0	NS
P	*Andersonglossum boreale*	Northern Wild Comfrey				S1	5	24.3 ± 1.0	NS
P	*Turritis glabra*	Tower Mustard				S1	1	32.2 ± 0.0	NS
P	*Lobelia spicata*	Pale-Spiked Lobelia				S1	8	44.2 ± 7.0	NS
P	*Silene antirrhina*	Sleepy Catchfly				S1	5	58.5 ± 0.0	NS
P	*Stellaria crassifolia*	Fleshy Stitchwort				S1	1	95.2 ± 2.0	NS
P	*Astragalus robbinsii var. minor*	Robbins' Milkvetch				S1	31	70.3 ± 0.0	NS
P	*Ribes americanum*	Wild Black Currant				S1	4	21.7 ± 1.0	NS
P	*Trichostema dichotomum*	Forked Bluecurls				S1	5	64.1 ± 0.0	NS
P	*Fraxinus pennsylvanica*	Red Ash				S1	12	28.2 ± 2.0	NS
P	*Polygonum achoreum*	Leathery Knotweed				S1	1	89.8 ± 10.0	NS
P	*Persicaria careyi*	Carey's Smartweed				S1	1	88.0 ± 3.0	NS

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P	*Phytolacca americana*	Common Pokeweed				S1	1	49.0 ± 0.0	NS
P	*Podostemum ceratophyllum*	Horn-leaved Riverweed				S1	4	49.2 ± 0.0	NS
P	*Montia fontana*	Water Blinks				S1	3	51.8 ± 1.0	NS
P	*Lysimachia minima*	Chaffweed				S1	1	91.9 ± 0.0	NS
P	*Lysimachia quadrifolia*	Whorled Yellow Loosestrife				S1	1	25.9 ± 0.0	NS
P	*Amelanchier nantucketensis*	Nantucket Serviceberry				S1	1	69.9 ± 1.0	NS
P	*Salix myrtillifolia*	Blueberry Willow				S1	1	83.7 ± 0.0	NS
P	*Salix serissima*	Autumn Willow				S1	2	83.8 ± 0.0	NS
P	*Scrophularia lanceolata*	Lance-leaved Figwort				S1	2	55.2 ± 1.0	NS
P	*Carex digitalis*	Slender Wood Sedge				S1	4	73.9 ± 0.0	NS
P	*Carex laxiflora*	Loose-Flowered Sedge				S1	5	46.0 ± 7.0	NS
P	*Carex ormostachya*	Necklace Spike Sedge				S1	5	45.4 ± 5.0	NS
P	*Carex plantaginea*	Plantain-Leaved Sedge				S1	1	99.8 ± 0.0	NS
P	*Carex prairea*	Prairie Sedge				S1	2	44.8 ± 1.0	NS
P	*Carex viridula var. saxilittoralis*	Greenish Sedge				S1	1	53.2 ± 0.0	NS
P	*Fimbristylis autumnalis*	Slender Fimbry				S1	3	94.7 ± 0.0	NS
P	*Scirpus atrovirens*	Dark-green Bulrush				S1	4	25.6 ± 0.0	NS
P	*Schoenoplectus torreyi*	Torrey's Bulrush				S1	8	61.0 ± 0.0	NS
P	*Iris prismatica*	Slender Blue Flag				S1	1	37.9 ± 100.0	NS
P	*Sisyrinchium fuscatum*	Coastal Plain Blue-eyed-grass				S1	3	49.0 ± 0.0	NS
P	*Juncus secundus*	Secund Rush				S1	3	43.9 ± 0.0	NS
P	*Juncus vaseyi*	Vasey Rush				S1	1	91.5 ± 0.0	NS
P	*Trillium grandiflorum*	White Trillium				S1	3	44.7 ± 1.0	NS
P	*Malaxis monophyllos var. brachypoda*	North American White Adder's-mouth				S1	6	44.2 ± 10.0	NS
P	*Spiranthes casei var. casei*	Case's Ladies'-Tresses				S1	2	19.9 ± 0.0	NS
P	*Dichanthelium xanthophysum*	Slender Panic Grass				S1	9	50.2 ± 0.0	NS
P	*Elymus hystrix*	Spreading Wild Rye				S1	11	26.0 ± 0.0	NS
P	*Torreyochloa pallida var. pallida*	Pale False Manna Grass				S1	2	58.6 ± 1.0	NS
P	*Adiantum pedatum*	Northern Maidenhair Fern				S1	14	9.6 ± 1.0	NS
P	*Dryopteris goldieana*	Goldie's Woodfern				S1	1	41.9 ± 1.0	NS
P	*Equisetum palustre*	Marsh Horsetail				S1	1	38.1 ± 5.0	NS
P	*Botrychium lunaria*	Common Moonwort				S1	8	68.2 ± 0.0	NS
P	*Selaginella rupestris*	Rock Spikemoss				S1	1	24.3 ± 0.0	NS
P	*Solidago hispida*	Hairy Goldenrod				S1?	1	53.1 ± 7.0	NS
P	*Suaeda rolandii*	Roland's Sea-Blite				S1?	5	22.1 ± 0.0	NS
P	*Carex pensylvanica*	Pennsylvania Sedge				S1?	3	53.9 ± 10.0	NS
P	*Carex rostrata*	Narrow-leaved Beaked Sedge				S1?	1	35.3 ± 0.0	NS
P	*Bolboschoenus robustus*	Sturdy Bulrush				S1?	1	99.7 ± 5.0	NS
P	*Juncus anthelatus*	Greater Poverty Rush				S1?	1	67.7 ± 0.0	NS
P	*Allium schoenoprasum*	Wild Chives				S1?	4	33.8 ± 0.0	NS
P	*Allium schoenoprasum var. sibiricum*	Wild Chives				S1?	1	94.5 ± 7.0	NS
P	*Panicum dichotomiflorum ssp. puritanorum*	Spreading Panicgrass				S1?	5	81.0 ± 0.0	NS
P	*Huperzia selago*	Northern Firmoss				S1?	1	80.1 ± 1.0	NS
P	*Crocanthemum canadense*	Long-branched Frostweed			Endangered	S1S2	135	34.9 ± 1.0	NS
P	*Cypripedium arietinum*	Ram's-Head Lady's-Slipper			Endangered	S1S2	287	20.6 ± 0.0	NS
P	*Sanicula odorata*	Clustered Sanicle				S1S2	10	26.0 ± 0.0	NS
P	*Ageratina altissima*	White Snakeroot				S1S2	22	71.3 ± 0.0	NS
P	*Draba glabella*	Rock Whitlow-Grass				S1S2	6	54.5 ± 0.0	NS
P	*Proserpinaca intermedia*	Intermediate Mermaidweed				S1S2	5	34.5 ± 2.0	NS
P	*Anemone virginiana var.*	Virginia Anemone				S1S2	1	94.5 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
	alba								
P	*Carex haydenii*	Hayden's Sedge				S1S2	4	39.9 ± 1.0	NS
P	*Platanthera huronensis*	Fragrant Green Orchid				S1S2	2	30.8 ± 10.0	NS
P	*Calamagrostis stricta ssp. stricta*	Slim-stemmed Reed Grass				S1S2	3	83.1 ± 7.0	NS
P	*Euphrasia farlowii*	Farlow's Eyebright				S1S3	2	68.9 ± 0.0	NS
P	*Zizia aurea*	Golden Alexanders				S2	4	50.0 ± 0.0	NS
P	*Antennaria parlinii ssp. fallax*	Parlin's Pussytoes				S2	25	20.8 ± 0.0	NS
P	*Rudbeckia laciniata*	Cut-Leaved Coneflower				S2	16	20.5 ± 7.0	NS
P	*Rudbeckia laciniata var. laciniata*	Cut-Leaved Coneflower				S2	9	28.2 ± 3.0	NS
P	*Arabis pycnocarpa*	Cream-flowered Rockcress				S2	2	65.2 ± 0.0	NS
P	*Cardamine maxima*	Large Toothwort				S2	19	60.9 ± 0.0	NS
P	*Hudsonia ericoides*	Pinebarren Golden Heather				S2	220	21.8 ± 0.0	NS
P	*Desmodium canadense*	Canada Tick-trefoil				S2	9	30.4 ± 7.0	NS
P	*Hylodesmum glutinosum*	Large Tick-trefoil				S2	39	28.1 ± 0.0	NS
P	*Oxytropis campestris var. johannensis*	Field Locoweed				S2	26	70.4 ± 0.0	NS
P	*Conopholis americana*	American Cancer-root				S2	59	37.6 ± 1.0	NS
P	*Anemonastrum canadense*	Canada Anemone				S2	14	24.2 ± 7.0	NS
P	*Hepatica americana*	Round-lobed Hepatica				S2	71	17.1 ± 13.0	NS
P	*Ranunculus sceleratus*	Cursed Buttercup				S2	24	45.1 ± 0.0	NS
P	*Galium boreale*	Northern Bedstraw				S2	10	44.2 ± 7.0	NS
P	*Gratiola neglecta*	Clammy Hedge-Hyssop				S2	4	88.4 ± 2.0	NS
P	*Dirca palustris*	Eastern Leatherwood				S2	66	23.4 ± 1.0	NS
P	*Carex gynocrates*	Northern Bog Sedge				S2	2	83.8 ± 0.0	NS
P	*Carex livida*	Livid Sedge				S2	2	20.9 ± 10.0	NS
P	*Juncus greenei*	Greene's Rush				S2	5	22.7 ± 0.0	NS
P	*Allium tricoccum*	Wild Leek				S2	75	42.9 ± 0.0	NS
P	*Lilium canadense*	Canada Lily				S2	57	16.7 ± 7.0	NS
P	*Cypripedium parviflorum var. pubescens*	Yellow Lady's-slipper				S2	22	20.6 ± 0.0	NS
P	*Cypripedium parviflorum var. makasin*	Small Yellow Lady's-Slipper				S2	13	19.5 ± 1.0	NS
P	*Cypripedium reginae*	Showy Lady's-Slipper				S2	45	26.3 ± 0.0	NS
P	*Platanthera flava var. flava*	Southern Rein Orchid				S2	19	34.5 ± 7.0	NS
P	*Platanthera flava var. herbiola*	Pale Green Orchid				S2	25	31.6 ± 1.0	NS
P	*Platanthera macrophylla*	Large Round-Leaved Orchid				S2	6	14.9 ± 1.0	NS
P	*Bromus latiglumis*	Broad-Glumed Brome				S2	3	96.9 ± 0.0	NS
P	*Cinna arundinacea*	Sweet Wood Reed Grass				S2	37	41.5 ± 0.0	NS
P	*Elymus wiegandii*	Wiegand's Wild Rye				S2	1	53.1 ± 7.0	NS
P	*Festuca subverticillata*	Nodding Fescue				S2	15	34.5 ± 7.0	NS
P	*Piptatheropsis pungens*	Slender Ricegrass				S2	11	50.2 ± 10.0	NS
P	*Cryptogramma stelleri*	Steller's Rockbrake				S2	3	20.9 ± 0.0	NS
P	*Cuscuta cephalanthi*	Buttonbush Dodder				S2?	2	23.4 ± 0.0	NS
P	*Rumex persicarioides*	Peach-leaved Dock				S2?	1	25.4 ± 0.0	NS
P	*Crataegus submollis*	Quebec Hawthorn				S2?	5	23.6 ± 1.0	NS
P	*Carex peckii*	White-Tinged Sedge				S2?	3	27.1 ± 5.0	NS
P	*Thuja occidentalis*	Eastern White Cedar			Vulnerable	S2S3	160	20.6 ± 0.0	NS
P	*Osmorhiza longistylis*	Smooth Sweet Cicely				S2S3	20	28.5 ± 0.0	NS
P	*Erigeron philadelphicus*	Philadelphia Fleabane				S2S3	1	80.2 ± 0.0	NS
P	*Eutrochium dubium*	Coastal Plain Joe Pye Weed				S2S3	2	76.4 ± 0.0	NS
P	*Lactuca hirsuta*	Hairy Lettuce				S2S3	6	28.9 ± 1.0	NS
P	*Impatiens pallida*	Pale Jewelweed				S2S3	11	44.5 ± 7.0	NS
P	*Caulophyllum thalictroides*	Blue Cohosh				S2S3	58	10.8 ± 7.0	NS
P	*Draba arabisans*	Rock Whitlow-Grass				S2S3	30	49.6 ± 1.0	NS
P	*Boechera stricta*	Drummond's Rockcress				S2S3	11	49.6 ± 1.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Stellaria humifusa*	Saltmarsh Starwort				S2S3	9	65.2 ± 1.0	NS
P	*Hypericum majus*	Large St John's-wort				S2S3	6	24.1 ± 10.0	NS
P	*Hypericum x dissimulatum*	Disguised St. John's-wort				S2S3	6	44.8 ± 0.0	NS
P	*Empetrum atropurpureum*	Purple Crowberry				S2S3	5	33.6 ± 7.0	NS
P	*Euphorbia polygonifolia*	Seaside Spurge				S2S3	11	39.2 ± 3.0	NS
P	*Myriophyllum farwellii*	Farwell's Water Milfoil				S2S3	8	17.4 ± 0.0	NS
P	*Hedeoma pulegioides*	American False Pennyroyal				S2S3	19	32.8 ± 1.0	NS
P	*Oenothera fruticosa ssp. tetragona*	Narrow-leaved Evening Primrose				S2S3	7	16.7 ± 7.0	NS
P	*Polygala polygama*	Racemed Milkwort				S2S3	12	51.5 ± 1.0	NS
P	*Polygonum aviculare ssp. buxiforme*	Box Knotweed				S2S3	9	22.3 ± 0.0	NS
P	*Polygonum oxyspermum ssp. raii*	Ray's Knotweed				S2S3	5	25.8 ± 1.0	NS
P	*Polygonum oxyspermum*	Sharp-fruit Knotweed				S2S3	1	39.4 ± 0.0	NS
P	*Rumex triangulivalvis*	Triangular-valve Dock				S2S3	10	21.7 ± 5.0	NS
P	*Primula mistassinica*	Mistassini Primrose				S2S3	1	94.5 ± 7.0	NS
P	*Anemone quinquefolia*	Wood Anemone				S2S3	35	64.8 ± 0.0	NS
P	*Caltha palustris*	Yellow Marsh Marigold				S2S3	8	33.3 ± 5.0	NS
P	*Amelanchier fernaldii*	Fernald's Serviceberry				S2S3	1	47.3 ± 7.0	NS
P	*Potentilla canadensis*	Canada Cinquefoil				S2S3	11	35.8 ± 0.0	NS
P	*Galium obtusum*	Blunt-leaved Bedstraw				S2S3	8	61.6 ± 0.0	NS
P	*Salix pellita*	Satiny Willow				S2S3	8	72.0 ± 7.0	NS
P	*Tiarella cordifolia*	Heart-leaved Foamflower				S2S3	15	52.9 ± 0.0	NS
P	*Boehmeria cylindrica*	Small-spike False-nettle				S2S3	50	48.9 ± 0.0	NS
P	*Carex adusta*	Lesser Brown Sedge				S2S3	8	49.3 ± 5.0	NS
P	*Carex capillaris*	Hairlike Sedge				S2S3	8	70.4 ± 0.0	NS
P	*Carex comosa*	Bearded Sedge				S2S3	9	17.1 ± 5.0	NS
P	*Carex houghtoniana*	Houghton's Sedge				S2S3	7	75.9 ± 0.0	NS
P	*Carex hystericina*	Porcupine Sedge				S2S3	8	43.9 ± 0.0	NS
P	*Carex longii*	Long's Sedge				S2S3	1	97.1 ± 10.0	NS
P	*Eleocharis ovata*	Ovate Spikerush				S2S3	5	23.2 ± 0.0	NS
P	*Scirpus pedicellatus*	Stalked Bulrush				S2S3	4	64.5 ± 0.0	NS
P	*Vallisneria americana*	Wild Celery				S2S3	14	49.1 ± 0.0	NS
P	*Najas gracillima*	Thread-Like Naiad				S2S3	22	26.7 ± 0.0	NS
P	*Goodyera pubescens*	Downy Rattlesnake-Plantain				S2S3	78	24.5 ± 0.0	NS
P	*Spiranthes casei*	Case's Ladies'-Tresses				S2S3	1	71.6 ± 0.0	NS
P	*Spiranthes casei var. novaescotiae*	Case's Ladies'-Tresses				S2S3	1	66.1 ± 0.0	NS
P	*Spiranthes lucida*	Shining Ladies'-Tresses				S2S3	11	21.0 ± 1.0	NS
P	*Potamogeton friesii*	Fries' Pondweed				S2S3	10	39.9 ± 1.0	NS
P	*Woodsia glabella*	Smooth Cliff Fern				S2S3	2	74.9 ± 1.0	NS
P	*Botrychium lanceolatum ssp. angustisegmentum*	Narrow Triangle Moonwort				S2S3	7	36.0 ± 0.0	NS
P	*Botrychium simplex*	Least Moonwort				S2S3	7	21.0 ± 1.0	NS
P	*Ophioglossum pusillum*	Northern Adder's-tongue				S2S3	6	19.9 ± 7.0	NS
P	*Potamogeton pulcher*	Spotted Pondweed			Vulnerable	S3	26	50.7 ± 0.0	NS
P	*Conioselinum chinense*	Chinese Hemlock-parsley				S3	9	54.3 ± 0.0	NS
P	*Hieracium robinsonii*	Robinson's Hawkweed				S3	2	95.7 ± 1.0	NS
P	*Iva frutescens*	Big-leaved Marsh-elder				S3	35	22.0 ± 1.0	NS
P	*Senecio pseudoarnica*	Seabeach Ragwort				S3	11	47.4 ± 0.0	NS
P	*Symphyotrichum boreale*	Boreal Aster				S3	8	49.2 ± 5.0	NS
P	*Symphyotrichum undulatum*	Wavy-leaved Aster				S3	140	23.9 ± 0.0	NS
P	*Symphyotrichum ciliolatum*	Fringed Blue Aster				S3	21	31.9 ± 0.0	NS
P	*Alnus serrulata*	Smooth Alder				S3	697	49.4 ± 0.0	NS
P	*Betula pumila var. pumila*	Bog Birch				S3	1	95.7 ± 1.0	NS
P	*Betula michauxii*	Michaux's Dwarf Birch				S3	70	37.9 ± 0.0	NS
P	*Betula pumila*	Bog Birch				S3	3	81.7 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Cardamine parviflora*	Small-flowered Bittercress				S3	17	25.1 ± 7.0	NS
P	*Palustricodon aparinoides*	Marsh Bellflower				S3	13	35.7 ± 1.0	NS
P	*Mononeuria groenlandica*	Greenland Stitchwort				S3	147	30.0 ± 0.0	NS
P	*Sagina nodosa*	Knotted Pearlwort				S3	48	40.7 ± 0.0	NS
P	*Sagina nodosa ssp. borealis*	Knotted Pearlwort				S3	3	55.1 ± 0.0	NS
P	*Stellaria longifolia*	Long-leaved Starwort				S3	6	72.5 ± 0.0	NS
P	*Ceratophyllum echinatum*	Prickly Hornwort				S3	9	39.9 ± 3.0	NS
P	*Triosteum aurantiacum*	Orange-fruited Tinker's Weed				S3	30	24.1 ± 0.0	NS
P	*Crassula aquatica*	Water Pygmyweed				S3	1	41.4 ± 0.0	NS
P	*Empetrum eamesii*	Pink Crowberry				S3	93	22.7 ± 0.0	NS
P	*Vaccinium uliginosum*	Alpine Bilberry				S3	3	62.1 ± 1.0	NS
P	*Halenia deflexa*	Spurred Gentian				S3	3	47.0 ± 0.0	NS
P	*Geranium bicknellii*	Bicknell's Crane's-bill				S3	22	20.8 ± 3.0	NS
P	*Myriophyllum verticillatum*	Whorled Water Milfoil				S3	2	35.9 ± 3.0	NS
P	*Utricularia resupinata*	Inverted Bladderwort				S3	13	59.0 ± 0.0	NS
P	*Epilobium strictum*	Downy Willowherb				S3	9	26.7 ± 0.0	NS
P	*Polygala sanguinea*	Blood Milkwort				S3	19	22.7 ± 0.0	NS
P	*Persicaria arifolia*	Halberd-leaved Tearthumb				S3	18	39.5 ± 1.0	NS
P	*Plantago rugelii*	Rugel's Plantain				S3	12	33.4 ± 3.0	NS
P	*Primula laurentiana*	Laurentian Primrose				S3	52	38.5 ± 7.0	NS
P	*Samolus parviflorus*	Seaside Brookweed				S3	58	47.0 ± 1.0	NS
P	*Pyrola minor*	Lesser Pyrola				S3	2	44.5 ± 7.0	NS
P	*Anemone virginiana*	Virginia Anemone				S3	13	25.4 ± 1.0	NS
P	*Cephalanthus occidentalis*	Common Buttonbush				S3	1948	51.5 ± 0.0	NS
P	*Galium labradoricum*	Labrador Bedstraw				S3	60	80.7 ± 0.0	NS
P	*Salix pedicellaris*	Bog Willow				S3	104	44.1 ± 0.0	NS
P	*Salix sericea*	Silky Willow				S3	130	49.0 ± 0.0	NS
P	*Saxifraga paniculata ssp. laestadii*	Laestadius' Saxifrage				S3	13	44.2 ± 7.0	NS
P	*Lindernia dubia*	Yellow-seeded False Pimperel				S3	15	28.7 ± 0.0	NS
P	*Laportea canadensis*	Canada Wood Nettle				S3	41	23.9 ± 2.0	NS
P	*Pilea pumila*	Dwarf Clearweed				S3	6	25.5 ± 0.0	NS
P	*Viola nephrophylla*	Northern Bog Violet				S3	4	29.4 ± 1.0	NS
P	*Carex bebbii*	Bebb's Sedge				S3	20	20.8 ± 0.0	NS
P	*Carex castanea*	Chestnut Sedge				S3	26	44.2 ± 0.0	NS
P	*Carex cryptolepis*	Hidden-scaled Sedge				S3	13	20.7 ± 0.0	NS
P	*Carex eburnea*	Bristle-leaved Sedge				S3	10	72.1 ± 0.0	NS
P	*Carex hirtifolia*	Pubescent Sedge				S3	20	26.0 ± 0.0	NS
P	*Carex lupulina*	Hop Sedge				S3	61	17.1 ± 1.0	NS
P	*Carex rosea*	Rosy Sedge				S3	38	22.2 ± 2.0	NS
P	*Carex swanii*	Swan's Sedge				S3	18	41.6 ± 0.0	NS
P	*Carex tenera*	Tender Sedge				S3	8	33.2 ± 0.0	NS
P	*Carex tribuloides*	Blunt Broom Sedge				S3	15	22.5 ± 0.0	NS
P	*Carex tuckermanii*	Tuckerman's Sedge				S3	37	21.2 ± 0.0	NS
P	*Carex atratiformis*	Scabrous Black Sedge				S3	3	69.9 ± 0.0	NS
P	*Eleocharis nitida*	Quill Spikerush				S3	20	34.5 ± 1.0	NS
P	*Eleocharis flavescens var. olivacea*	Bright-green Spikerush				S3	14	51.6 ± 0.0	NS
P	*Eriophorum gracile*	Slender Cottongrass				S3	8	29.3 ± 1.0	NS
P	*Coeloglossum viride*	Long-bracted Frog Orchid				S3	13	25.0 ± 1.0	NS
P	*Cypripedium parviflorum*	Yellow Lady's-slipper				S3	547	20.2 ± 0.0	NS
P	*Neottia bifolia*	Southern Twayblade				S3	127	9.6 ± 0.0	NS
P	*Platanthera flava*	Southern Rein-Orchid				S3	37	49.0 ± 0.0	NS
P	*Platanthera grandiflora*	Large Purple Fringed Orchid				S3	45	26.4 ± 1.0	NS
P	*Platanthera hookeri*	Hooker's Orchid				S3	23	7.6 ± 0.0	NS
P	*Dichanthelium linearifolium*	Narrow-leaved Panic Grass				S3	15	25.3 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Piptatheropsis canadensis*	Canada Ricegrass				S3	20	44.2 ± 0.0	NS
P	*Poa glauca*	Glaucous Blue Grass				S3	16	33.3 ± 1.0	NS
P	*Potamogeton praelongus*	White-stemmed Pondweed				S3	3	37.7 ± 1.0	NS
P	*Potamogeton richardsonii*	Richardson's Pondweed				S3	7	40.0 ± 1.0	NS
P	*Potamogeton zosteriformis*	Flat-stemmed Pondweed				S3	11	40.0 ± 1.0	NS
P	*Asplenium viride*	Green Spleenwort				S3	12	64.0 ± 7.0	NS
P	*Dryopteris fragrans*	Fragrant Wood Fern				S3	12	59.4 ± 0.0	NS
P	*Sceptridium dissectum*	Dissected Moonwort				S3	7	44.3 ± 0.0	NS
P	*Polypodium appalachianum*	Appalachian Polypody				S3	20	31.3 ± 0.0	NS
P	*Persicaria amphibia var. emersa*	Long-root Smartweed				S3?	29	21.0 ± 0.0	NS
P	*Spiranthes ochroleuca*	Yellow Ladies'-tresses				S3?	38	22.2 ± 0.0	NS
P	*Diphasiastrum x sabinifolium*	Savin-leaved Ground-cedar				S3?	6	69.8 ± 0.0	NS
P	*Bidens vulgata*	Tall Beggarticks				S3S4	6	31.7 ± 0.0	NS
P	*Erigeron hyssopifolius*	Hyssop-leaved Fleabane				S3S4	24	16.7 ± 7.0	NS
P	*Hieracium paniculatum*	Panicled Hawkweed				S3S4	34	11.0 ± 11.0	NS
P	*Bidens beckii*	Water Beggarticks				S3S4	26	49.2 ± 0.0	NS
P	*Packera paupercula*	Balsam Groundsel				S3S4	87	20.6 ± 0.0	NS
P	*Packera paupercula var. paupercula*	Balsam Groundsel				S3S4	1	23.3 ± 0.0	NS
P	*Atriplex glabriuscula var. franktonii*	Frankton's Saltbush				S3S4	14	22.1 ± 0.0	NS
P	*Shepherdia canadensis*	Soapberry				S3S4	101	20.5 ± 0.0	NS
P	*Vaccinium boreale*	Northern Blueberry				S3S4	4	60.0 ± 0.0	NS
P	*Vaccinium cespitosum*	Dwarf Bilberry				S3S4	43	15.5 ± 0.0	NS
P	*Vaccinium corymbosum*	Highbush Blueberry				S3S4	6	45.0 ± 0.0	NS
P	*Fagus grandifolia*	American Beech				S3S4	438	8.3 ± 0.0	NS
P	*Bartonia virginica*	Yellow Bartonia				S3S4	47	41.3 ± 0.0	NS
P	*Proserpinaca pectinata*	Comb-leaved Mermaidweed				S3S4	66	38.1 ± 3.0	NS
P	*Decodon verticillatus*	Swamp Loosestrife				S3S4	136	69.2 ± 0.0	NS
P	*Nuphar microphylla*	Small Yellow Pond-lily				S3S4	4	10.1 ± 0.0	NS
P	*Persicaria pensylvanica*	Pennsylvania Smartweed				S3S4	29	20.3 ± 1.0	NS
P	*Fallopia scandens*	Climbing False Buckwheat				S3S4	13	23.8 ± 2.0	NS
P	*Rumex pallidus*	Seabeach Dock				S3S4	2	85.6 ± 0.0	NS
P	*Pyrola asarifolia*	Pink Pyrola				S3S4	8	46.6 ± 1.0	NS
P	*Endotropis alnifolia*	alder-leaved buckthorn				S3S4	157	26.0 ± 1.0	NS
P	*Amelanchier spicata*	Running Serviceberry				S3S4	62	22.1 ± 3.0	NS
P	*Crataegus succulenta*	Fleshy Hawthorn				S3S4	1	45.7 ± 0.0	NS
P	*Fragaria vesca ssp. americana*	Woodland Strawberry				S3S4	59	24.9 ± 0.0	NS
P	*Galium aparine*	Common Bedstraw				S3S4	23	25.6 ± 0.0	NS
P	*Geocaulon lividum*	Northern Comandra				S3S4	4	43.2 ± 0.0	NS
P	*Limosella australis*	Southern Mudwort				S3S4	15	52.3 ± 0.0	NS
P	*Ulmus americana*	White Elm				S3S4	64	21.2 ± 0.0	NS
P	*Verbena hastata*	Blue Vervain				S3S4	126	13.1 ± 7.0	NS
P	*Viola sagittata var. ovata*	Arrow-Leaved Violet				S3S4	55	24.5 ± 0.0	NS
P	*Viola selkirkii*	Great-Spurred Violet				S3S4	6	32.3 ± 4.0	NS
P	*Symplocarpus foetidus*	Eastern Skunk Cabbage				S3S4	3	51.5 ± 0.0	NS
P	*Carex argyrantha*	Silvery-flowered Sedge				S3S4	27	15.3 ± 1.0	NS
P	*Sisyrinchium atlanticum*	Eastern Blue-Eyed-Grass				S3S4	113	40.0 ± 0.0	NS
P	*Triglochin gaspensis*	Gasp ├⌐ Arrowgrass				S3S4	11	47.1 ± 0.0	NS
P	*Juncus acuminatus*	Sharp-Fruit Rush				S3S4	15	22.9 ± 0.0	NS
P	*Juncus subcaudatus*	Woods-Rush				S3S4	25	21.1 ± 0.0	NS
P	*Luzula parviflora ssp. melanocarpa*	Black-fruited Woodrush				S3S4	7	68.3 ± 7.0	NS
P	*Goodyera repens*	Lesser Rattlesnake-plantain				S3S4	17	29.5 ± 1.0	NS
P	*Liparis loeselii*	Loesel's Twayblade				S3S4	10	26.2 ± 0.0	NS
P	*Platanthera obtusata*	Blunt-leaved Orchid				S3S4	9	30.4 ± 10.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Platanthera orbiculata*	Small Round-leaved Orchid				S3S4	52	32.3 ± 4.0	NS
P	*Alopecurus aequalis*	Short-awned Foxtail				S3S4	11	54.9 ± 1.0	NS
P	*Dichanthelium clandestinum*	Deer-tongue Panic Grass				S3S4	291	26.1 ± 0.0	NS
P	*Coleataenia longifolia*	Long-leaved Panicgrass				S3S4	1605	58.7 ± 0.0	NS
P	*Panicum philadelphicum*	Philadelphia Panicgrass				S3S4	23	33.2 ± 0.0	NS
P	*Koeleria spicata*	Narrow False Oats				S3S4	13	23.2 ± 0.0	NS
P	*Asplenium trichomanes*	Maidenhair Spleenwort				S3S4	17	30.2 ± 0.0	NS
P	*Lorinseria areolata*	Netted Chain Fern				S3S4	1	90.0 ± 7.0	NS
P	*Equisetum pratense*	Meadow Horsetail				S3S4	10	27.2 ± 0.0	NS
P	*Diphasiastrum complanatum*	Northern Ground-cedar				S3S4	15	28.7 ± 0.0	NS
P	*Diphasiastrum sitchense*	Sitka Ground-cedar				S3S4	1	34.3 ± 1.0	NS
P	*Huperzia appressa*	Mountain Firmoss				S3S4	18	52.7 ± 1.0	NS
P	*Sceptridium multifidum*	Leathery Moonwort				S3S4	14	16.3 ± 10.0	NS
P	*Botrychium matricariifolium*	Daisy-leaved Moonwort				S3S4	5	3.1 ± 10.0	NS
P	*Bidens discoidea*	Swamp Beggarticks				SH	1	99.9 ± 0.0	NS
P	*Viola canadensis*	Canada Violet				SH	1	26.7 ± 0.0	NS
P	*Greeneochloa coarctata*	Small Reedgrass				SH	1	48.4 ± 6.0	NS

5.1 SOURCE BIBLIOGRAPHY (100 km)

The recipient of these data shall acknowledge the AC CDC and the data sources listed below in any documents, reports, publications or presentations, in which this dataset makes a significant contribution.

# recs	CITATION
13216	Morrison, Guy. 2011. Maritime Shorebird Survey (MSS) database. Canadian Wildlife Service, Ottawa, 15939 surveys. 86171 recs.
7550	McNeil, J.A. 2010. Blandings Turtle (Emydoidea blandingii) sightings, 1946-2009. Parks Canada, 12,871 recs of 597+ individuals.
7509	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
3492	Pardieck, K.L., Ziolkowski Jr., D.J., Lutmerding, M., Aponte, V.I., and Hudson, M-A.R. 2020. North American Breeding Bird Survey Dataset 1966 - 2019: U.S. Geological Survey data release, https://doi.org/10.5066/P9J6QUF6
3460	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
2742	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
2472	Paquet, Julie. 2018. Atlantic Canada Shorebird Survey (ACSS) database 2012-2018. Environment Canada, Canadian Wildlife Service.
1689	McNeil, J.A. 2010. Ribbonsnake (Thamophis sauritus) sightings, 1900-2009. Parks Canada, 2521 recs of 716+ individuals.
1297	Blaney, C.S.; Mazerolle, D.M. 2010. Fieldwork 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 15508 recs.
1271	eBird. 2020. eBird Basic Dataset. Version: EBD_relNov-2019. Ithaca, New York. Nov 2019, Cape Breton Bras d'Or Lakes Watershed subset. Cornell Lab of Ornithology.
1161	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2013. Atlantic Canada Conservation Data Centre Fieldwork 2013. Atlantic Canada Conservation Data Centre, 9000+ recs.
1097	Blaney, C.S.; Mazerolle, D.M. 2012. Fieldwork 2012. Atlantic Canada Conservation Data Centre, 13,278 recs.
1009	Belliveau, A. 2012. 2012 Atlantic Coastal Plain Flora observations. Mersey Tobeatic Research Institute, 1543.
971	Phinney, Lori. 2020. Pre- and post White-nose Syndrome bat acoustic monitoring, NS. Mersey Tobeatic Research Institute, 1279 recs.
943	Eaton, S. 2014. Nova Scotia Wood Turtle Database. Environment and Climate Change Canada, 4843 recs.
931	Paquet, Julie. 2019. Atlantic Canada Shorebird Survey ACSS database for 2019. Environment Canada, Canadian Wildlife Service.
899	SwiftWatch. 2022. Total Chimney Swift counts from roost watches for the duration of the SwiftWatch program (2011-2021). Birds Canada.
840	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2014. Atlantic Canada Conservation Data Centre Fieldwork 2014. Atlantic Canada Conservation Data Centre, # recs.
789	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
759	McNeil, J.A. 2016. Blandings Turtle (Emydoidea blandingii), Eastern Ribbonsnake (Thamnophis sauritus), Wood Turtle (Glyptemys insculpta), and Snapping Turtle (Chelydra serpentina) sightings, 2016. Mersey Tobeatic Research Institute, 774 records.
734	Toms, Brad. 2012. Atlantic Coastal Plain Flora records, 2011. Mersey-Tobiatic Research Institute, 1109 recs.
622	Cameron, E. 2008. Canadian Gypsum Co. survey 2007-08. Conestoga-Rovers & Assoc., 623 recs.
583	Churchill, J.L. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre, 907 recs.
569	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2015. Atlantic Canada Conservation Data Centre Fieldwork 2015. Atlantic Canada Conservation Data Centre, # recs.
555	Belliveau, A.G. 2020. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2019, 2020. E.C. Smith Herbarium.
529	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
498	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.
443	Clayden, S. Digitization of Wolfgang Maass Nova Scotia forest lichen collections, 1964-2004. New Brunswick Museum. 2018.
442	McNeil, J.A. 2019. Blanding's Turtle records, 2017. Mersey Tobeatic Research Institute, 372 recs.
438	Newell, R.E. 2005. E.C. Smith Digital Herbarium. E.C. Smith Herbarium, Irving Biodiversity Collection, Acadia University, Web site: http://luxor.acadiau.ca/library/Herbarium/project/. 582 recs.

# recs	CITATION
392	Benjamin, L.K. (compiler). 2012. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 4965 recs.
372	McNeil, J.A. 2018. Blanding's Turtle records, 2018. Mersey Tobeatic Research Institute, 372 recs.
366	Churchill, J.L. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre, 2318 recs.
365	Churchill, J.L. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
363	Belliveau, A.G. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 10695 recs.
331	Belliveau, A.G. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
329	Hicks, Andrew. 2009. Coastal Waterfowl Surveys Database, 2000-08. Canadian Wildlife Service, Sackville, 46488 recs (11149 non-zero).
316	Toms, Brad. 2011. Atlantic Coastal Plain Flora records 2010. Mersey-Tobiatic Research Institute, 1074 recs.
314	Staicer, C. 2021. Additional compiled Nova Scotia Species at Risk bird records, 2005-2020. Dalhousie University.
306	McNeil, J.A. 2015. Blandings Turtle (Emydoidea blandingii), Eastern Ribbonsnake (Thamnophis sauritus), and Snapping Turtle (Chelydra serpentina) sightings, 2015. Mersey Tobeatic Research Institute.
302	Pronych, G. & Wilson, A. 1993. Atlas of Rare Vascular Plants in Nova Scotia. Nova Scotia Museum, Halifax NS, I:1-168, II:169-331. 1446 recs.
301	Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
300	McNeil, Jeffie. 2022. Wood Turtle GPS Tracking data, 2021. Mersey Tobeatic Research Institute.
288	Amirault, D.L. & Stewart, J. 2007. Piping Plover Database 1894-2006. Canadian Wildlife Service, Sackville, 3344 recs, 1228 new.
264	Hill, N.M. 1994. Status report on the Long's bulrush Scirpus longii in Canada. Committee on the Status of Endangered Wildlife in Canada, 7 recs.
256	Klymko, J. 2018. Maritimes Butterfly Atlas database. Atlantic Canada Conservation Data Centre.
256	Toms, B. 2018. Bat Species data from www.batconservation.ca for Nova Scotia. Mersey Tobeatic Research Institute, 547 Records.
245	Belliveau, A.G. 2021. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2021. E.C. Smith Herbarium.
244	McNeil, Jeffie. 2022. 2021 Turtle Records. Mersey Tobeatic Research Institute.
228	Blaney, C.S.; Mazerolle, D.M. 2008. Fieldwork 2008. Atlantic Canada Conservation Data Centre. Sackville NB, 13343 recs.
216	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database [as of 2018-03]. Mersey Tobeatic Research Institute.
209	Blaney, C.S.; Mazerolle, D.M. 2009. Fieldwork 2009. Atlantic Canada Conservation Data Centre. Sackville NB, 13395 recs.
209	Brazner, J. 2016. Nova Scotia Forested Wetland Bird Surveys. Nova Scotia Department of Lands and Forestry.
204	Brunelle, P.-M. (compiler). 2009. ADIP/MDDS Odonata Database: data to 2006 inclusive. Atlantic Dragonfly Inventory Program (ADIP), 24200 recs.
203	Mazerolle, D.M. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
202	Blaney, C.S. & Mazerolle, D.M. 2011. 2011 botanical surveys in Kejimkujik National Park. Atlantic Canada Conservation Data Centre, 820 recs.
202	Smith, D. 2013. Personal communication concerning Anguilla rostrata trapping results in Kejimkujik NP, NS. Winter 2013. Pers. comm.
199	Munro, Marian K. Tracked lichen specimens, Nova Scotia Provincial Museum of Natural History Herbarium. Atlantic Canada Conservation Data Centre. 2019.
190	McNeil, J.A. 2019. Blanding's Turtle records, 2019. Mersey Tobeatic Research Institute.
189	McNeil, J.A. 2019. Eastern Painted Turtle trapping records, 2019. Mersey Tobeatic Research Institute.
185	Westwood, A., Staicer, C. 2016. Nova Scotia landbird Species at Risk observations. Dalhousie University.
179	Toms, Brad & Pepper, Chris; Neily, Tom. 2022. Nova Scotia lichen database [as of 2022-04]. Mersey Tobeatic Research Institute.
177	Belland, R.J. Maritimes moss records from various herbarium databases. 2014.
171	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2013.
160	Manthorne, A. 2014. MaritimesSwiftwatch Project database 2013-2014. Bird Studies Canada, Sackville NB, 326 recs.
158	Belliveau, A.G. 2018. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2018. E.C. Smith Herbarium, 6226 recs.
158	iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
157	Cameron, R.P. 2009. Cyanolichen database. Nova Scotia Environment & Labour, 1724 recs.
157	Staicer, Cindy. 2022. 2021 Landbird Species at Risk observations. Dalhousie University.
154	Blaney, C.S.; Mazerolle, D.M.; Hill, N.M. 2011. Nova Scotia Crown Share Land Legacy Trust Fieldwork. Atlantic Canada Conservation Data Centre, 5022 recs.
152	McNeil, J.A. 2014. Blandings Turtle (Emydoidea blandingii) and Snapping Turtle (Chelydra serpentina) sightings, 2014. Mersey Tobeatic Research Institute.
146	e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
145	McNeil, J.A. 2011. Ribbonsnake (Thamophis sauritus) sightings, 2010. Parks Canada, 148 recs of 70+ individuals.
144	Bryson, I.C. 2020. Nova Scotia flora and lichen observations 2020. Nova Scotia Environment, 139 recs.
130	Keddy, C.J. 1989. Habitat securement for redroot, golden crest and Long's bulrush in Ponhook Lake, NS. World Wildlife Fund (Canada), 131 recs.
127	Belliveau, A.G. 2014. Plant Records from Southern and Central Nova Scotia. Atlantic Canada Conservation Data Centre, 919 recs.
124	Blaney, C.S.; Mazerolle, D.M. 2011. Fieldwork 2011. Atlantic Canada Conservation Data Centre. Sackville NB.
124	Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia. , 181 records.
122	McNeil, Jeffie. 2022. Ribbonsnake records, 2021. Mersey Tobeatic Research Institute.
120	McNeil, J.A. 2018. Wood Turtle records, 2018. Mersey Tobeatic Research Institute, 68 recs.
119	Chapman-Lam, C.J. 2021. Atlantic Canada Conservation Data Centre 2020 botanical fieldwork. Atlantic Canada Conservation Data Centre, 17309 recs.
116	Hubley, Nicole. 2022. Monarch (Danaus plexippus) records submitted to MTRI from the 2021 field season. Mersey Tobeatic Research Institute.
114	e-Butterfly. 2019. Export of Maritimes records and photos. McFarland, K. (ed.) e-butterfly.org.
110	NatureServe Canada. 2019. iNaturalist Maritimes Butterfly Records. iNaturalist.org and iNaturalist.ca.
108	McNeil, J.A. 2020. Blanding's Turtle records, 2020. Mersey Tobeatic Research Institute.
102	Richardson, Leif. 2018. Maritimes Bombus records from various sources. Richardson, Leif.
100	Blaney, C.S. 2000. Fieldwork 2000. Atlantic Canada Conservation Data Centre. Sackville NB, 1265 recs.
99	Blaney, C.S. 2020. Sean Blaney 2020 field data. Atlantic Canada Conservation Data Centre, 4407 records.
99	Layberry, R.A. & Hall, P.W., LaFontaine, J.D. 1998. The Butterflies of Canada. University of Toronto Press. 280 pp+plates.

# recs	CITATION
99	Mazerolle, D.M. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
97	Wilhelm, S.I. et al. 2011. Colonial Waterbird Database. Canadian Wildlife Service, Sackville, 2698 sites, 9718 recs (8192 obs).
95	Breen, A. 2019. 2019 Atlantic Whitefish observations. Coastal Action, 95 recs.
95	Churchill, J.L. 2021. Atlantic Canada Conservation Data Centre Fieldwork 2021. Atlantic Canada Conservation Data Centre.
95	McNeil, J.A. 2019. Eastern Painted Turtle trapping records, 2017. Mersey Tobeatic Research Institute.
90	Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.
89	Staicer, C. & Bliss, S.; Achenbach, L. 2017. Occurrences of tracked breeding birds in forested wetlands. , 303 records.
88	LaPaix, R.W.; Crowell, M.J.; MacDonald, M. 2011. Stantec rare plant records, 2010-11. Stantec Consulting, 334 recs.
88	McNeil, J.A. 2020. Snapping Turtle and Eastern Painted Turtle records, 2020. Mersey Tobeatic Research Institute.
87	Roland, A.E. & Smith, E.C. 1969. The Flora of Nova Scotia, 1st Ed. Nova Scotia Museum, Halifax, 743pp.
83	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
78	Hagerman, Christianne. 2022. Wisqoq and Eastern White Cedar field work. E.C. Smith Herbarium, Acadia University.
76	Herman, T.B. & Power, T.D., Eaton, B. 1995. Population status of Blanding's Turtle (Emydoidea blandingii) in Nova Scotia. Can. Field-Nat., 109: 182-191. 79 recs.
76	Parks Canada. 2021. Species at Risk observations from 2019-2020 in Kejimkujik National Park and Historic Site. Parks Canada, 76 records.
74	Belliveau, A. 2013. Rare species records from Nova Scotia. Mersey Tobeatic Research Institute, 296 records. 296 recs.
74	Stewart, J.I. 2010. Peregrine Falcon Surveys in New Brunswick, 2002-09. Canadian Wildlife Service, Sackville, 58 recs.
73	Bryson, I. 2020. Nova Scotia and Newfoundland rare species observations, 2018-2020. Nova Scotia Environment.
71	iNaturalist. 2020. iNaturalist butterfly records selected for the Maritimes Butterfly Atlas. iNaturalist.
68	McNeil, J.A. 2017. Updates to Blanding's Turtle database, 1984-2014. Mersey Tobeatic Research Institute.
66	McNeil, J.A. 2019. Snapping Turtle records, 2019. Mersey Tobeatic Research Institute.
64	Klymko, John. 2022. Atlantic Canada Conservation Data Centre zoological fieldwork 2021. Atlantic Canada Conservation Data Centre.
62	McMullin, R.T. 2022. Maritimes lichen records. Canadian Museum of Nature.
62	McNeil, J.A. 2013. Ribbonsnake (Thamnophis sauritus) sightings, 2012 . Parks Canada, 63 records of 26+ individuals.
61	Feltham, Carter. 2022. Monarch (Danaus plexippus) and Milkweed MTRI records from the 2022 Field Season. Mersey Tobeatic Research Institute.
60	Mersey Tobetic Research Institute. 2021. 2020 Monarch records from the MTRI monitoring program. Mersey Tobetic Research Institute, 72 records.
59	Amirault, D.L. & McKnight, J. 2003. Piping Plover Database 1991-2003. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
59	Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobeatic Research Institute.
59	Nussey, Pat & NCC staff. 2019. AEI tracked species records, 2016-2019. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 333.
55	LaPaix, R.W.; Crowell, M.J.; MacDonald, M.; Neily, T.D.; Quinn, G. 2017. Stantec Nova Scotia rare plant records, 2012-2016. Stantec Consulting.
53	Churchill, J.L. 2020. Atlantic Canada Conservation Data Centre Fieldwork 2020. Atlantic Canada Conservation Data Centre, 1083 recs.
52	Belliveau, A.G., Churchill, J.L. 2019. Compilation of flora and fauna observation records from Isle Haute, Nova Scotia. Acadia University; Atlantic Canada Conservation Data Centre, 522 recs.
52	Roland, A.E. 1976. The Coastal Plain Flora of Kejimkujik National Park. Parks Canada Report, 238 pp.
49	LaPaix, Rich. 2022. Rare species observations, 2018-2022. Nova Scotia Nature Trust.
49	Neily, T.H. 2019. Tom Neily NS Bryophyte records (2009-2013). T.H. Neily, Atlantic Canada Conservation Data Centre, 1029 specimen records.
47	MacDonald, E.C. 2018. Piping Plover nest records from 2010-2017. Canadian Wildlife Service.
46	Richardson, D., Anderson, F., Cameron, R, McMullin, T., Clayden, S. 2014. Field Work Report on Black Foam Lichen (Anzia colpodes). COSEWIC.
45	Bayne, D.M. 2007. Atlantic Coastal Plain Flora record, 2004-06. Nova Scotia Nature Trust. Pers. comm. to C.S. Blaney, 57 recs.
44	McLean, K. 2019. Wood Turtle observations . Clean Annapolis River Project.
44	Neily, T.H. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
43	Blaney, C.S. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre.
40	Cameron, E. 2007. Canadian Gypsum Co. survey 2005-07. Dillon Consulting Ltd, 40 recs.
39	Blaney, C.S. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
39	Chapman, C.J. 2019. Atlantic Canada Conservation Data Centre 2019 botanical fieldwork. Atlantic Canada Conservation Data Centre, 11729 recs.
38	Mazerolle, D.M. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 13515 recs.
37	Newell, R.E. 2019. Crocanthemum canadense records compiled for provincial status report. pers. comm. from Ruth Newell to AC CDC.
37	Tsehtik, M.; Leblanc, M.; Creaser, T. 2020. Coastal Action: 2020 Species at Risk Data. Coastal Action, 40 records.
36	McNeil, J.A. 2017. Eastern Ribbonsnake (Thamnophis sauritus) sightings, 2017. Mersey Tobeatic Research Institute, 36 recs.
35	East Coast Aquatics Inc. 2021. Species at Risk records from Spicer North Mountain Quarry Expansion Environmental Assessment. East Coast Aquatics, 44 records.
34	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobeatic Research Institute.
33	Blaney, C.S. 2019. Sean Blaney 2019 field data. Atlantic Canada Conservation Data Centre, 4407 records.
33	Blaney, C.S.; Spicer, C.D.; Rothfels, C. 2004. Fieldwork 2004. Atlantic Canada Conservation Data Centre. Sackville NB, 1343 recs.
33	Klymko, J.J.D.; Robinson, S.L. 2012. 2012 field data. Atlantic Canada Conservation Data Centre, 447 recs.
33	Ogden, J. NS DNR Butterfly Collection Dataset. Nova Scotia Department of Natural Resources. 2014.
32	Atlantic Canada Conservation Data Centre. 2020. Cape LaHave Island observations from August 2020. Atlantic Canada Conservation Data Centre, 605 records.
32	Ferguson, D.C. 1954. The Lepidoptera of Nova Scotia. Part I, macrolepidoptera. Proceedings of the Nova Scotian Institute of Science, 23(3), 161-375.
32	Frittaion, C. 2012. NSNT 2012 Field Observations. Nova Scotia Nature Trust, Pers comm. to S. Blaney Feb. 7, 34 recs.
32	Hall, R.A. 2001. S.. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
32	Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
32	McLean, K. 2020. Species occurrence records from Clean Annapolis River Project fieldwork in 2020. Clean Annapolis River Project, 206 records.

# recs	CITATION
32	Patrick, A.; Horne, D.; Noseworthy, J. et. al. 2017. Field data for Nova Scotia and New Brunswick, 2015 and 2017. Nature Conservancy of Canada.
31	Klymko, J.J.D. 2018. 2017 field data. Atlantic Canada Conservation Data Centre.
31	MacDonald, E.C. 2018. CWS Piping Plover Census, 2010-2017. Canadian Wildlife Service, 672 recs.
31	Roland, A.E. 1980. Checklist of Vascular Plants of Kejimkujik National Park in Lichens, Liverworts, Mosses and Flowering Plants of Kejimkujik National Park. Roland, A.E. (ed.) Parks Canada Report, pp. 52-140, 160 pp.
29	Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
29	Canadian Wildlife Service, Dartmouth. 2010. Piping Plover censuses 2007-09, 304 recs.
28	Blaney, C.S.; Spicer, C.D. 2001. Fieldwork 2001. Atlantic Canada Conservation Data Centre. Sackville NB, 981 recs.
28	Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
27	Pepper, Chris. 2012. Observations of breeding Canada Warbler's along the Eastern Shore, NS. Pers. comm. to S. Blaney, Jan. 20, 28 recs.
26	eBird. 2014. eBird Basic Dataset. Version: EBD_relNov-2014. Ithaca, New York. Nov 2014. Cornell Lab of Ornithology, 25036 recs.
26	McLean, K. 2020. Wood Turtle observations . Clean Annapolis River Project.
26	Neily, T.H. 2013. Email communication to Sean Blaney regarding Listera australis observations made from 2007 to 2011 in Nova Scotia. , 50.
26	Porter, Caitlin. 2021. Field data for 2020 in various locations across the Maritimes. Atlantic Canada Conservation Data Centre, 3977 records.
25	Burnie, B. 2013. 2013 Scirpus longii field data. Mount Saint Vincent University, 51 recs.
25	McNeil, J.A. 2019. Snapping Turtle records, 2017. Mersey Tobeatic Research Institute.
25	Richardson, D., Anderson, F., Cameron, R, Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (Pannaria lurida). COSEWIC.
24	Bayne, D.M., Cameron, R.C. 2014. 2014 Lichen records near Little Bon Mature Lake, Queens NS. NS Department of Natural Resources.
24	Belliveau, A.G. 2021. New Black ash site records near Kentville, NS. Acadia University, 47 records.
24	Broders, H.G. 2006. Unpublished data. , 24 recs.
24	Manthorne, A. 2019. Incidental aerial insectivore observations. Birds Canada.
22	Breen, A. 2018. 2018 Atlantic Whitefish observations. Coastal Action.
22	Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
22	Nelly, T.H. 2006. Cypripedium arietinum in Hants Co. Pers. comm. to C.S. Blaney. 22 recs, 22 recs.
22	NS DNR. 2017. Black Ash records from NS DNR Permanent Sample Plots (PSPs), 1965-2016. NS Dept of Natural Resources.
22	Porter, C.J.M. 2014. Field work data 2007-2014. Nova Scotia Nature Trust, 96 recs.
21	MacKinnon, D.S. & O'Brien, M.K.H.; Cameron, R.P. 2002. Fieldwork 2000. Dept of Environment & Labour, Protected Areas Branch, 252 recs.
21	Ogden, K. Nova Scotia Museum butterfly specimen database. Nova Scotia Museum. 2017.
20	Benjamin, L.K. 2011. NSDNR fieldwork & consultant reports 1997, 2009-10. Nova Scotia Dept Natural Resources, 85 recs.
20	Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
20	O'Grady, Sally. 2010. Water Pennywort in Kejimkujik National Park, 2010. Parks Canada, 20 shapefiles.
20	Wilhelm, S.I. et al. 2019. Colonial Waterbird Database. Canadian Wildlife Service.
19	Robinson, S.L. 2014. 2013 Field Data. Atlantic Canada Conservation Data Centre.
18	Basquill, S.; Sam, D. 2019. Crocanthemum canadense observations near Greenwood, NS, 2015-2019. pers. commun. from Nova Scotia Department of Lands and Forestry to AC CDC, 18 recs.
18	Chapman, C.J. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 11171 recs.
18	Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J; ONHIC, 487 recs.
17	Anderson, Frances; Neily, Tom. 2010. A Reconnaissance Level Survey of Calciphilous Lichens in Selected Karst Topography in Nova Scotia with Notes on Incidental Bryophytes. Mersey Tobeatic Research Institute.
17	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
17	McLean, K. 2019. Species At Risk observations. Clean Annapolis River Project.
16	Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of C. insculpta sightings. Acadia University, Wolfville NS, 88 recs.
16	Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
16	Blaney, C.S. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 1042 recs.
16	Holder, M. 2003. Assessment and update status report on the Eastern Lilaeopsis (Lilaeopsis chinensis) in Canada. Committee on the Status of Endangered Wildlife in Canada, 16 recs.
16	Hunsinger, J. 2021. Species at Risk records from Medway Community Forest Cooperative monitoring plots and baited game cameras, 2019-2020. Medway Community Forest Cooperative, 16 records.
16	Nature Conservancy of Canada. 2022. NCC Field data for Nova Scotia. Nature Conservancy of Canada.
16	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobeatic Research Institute, 668 recs.
15	Basquill, S.P. 2011 vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
15	Klymko, J.J.D. 2012. Odonata specimens & observations, 2010. Atlantic Canada Conservation Data Centre, 425 recs.
15	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
14	Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources, 143 recs.
14	Blaney, C.S.; Spicer, C.D.; Popma, T.M.; Hanel, C. 2002. Fieldwork 2002. Atlantic Canada Conservation Data Centre. Sackville NB, 2252 recs.
14	Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
14	e-Butterfly. 2018. Selected Maritimes butterfly records from 2016 and 2017. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
14	Haughian, S.R. 2018. Description of Fuscopannaria leucosticta field work in 2017. New Brunswick Museum, 314 recs.
14	McNeil, J.A. 2018. Snapping Turtle records, 2018. Mersey Tobeatic Research Institute.
14	Powell, B.C. 1967. Female sexual cycles of Chrysemy spicta & Clemmys insculpta in Nova Scotia. Can. Field-Nat., 81:134-139. 26 recs.
13	Basquill, S.P. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre, Sackville NB, 69 recs.
13	Goltz, J.P. & Bishop, G. 2005. Confidential supplement to Status Report on Prototype Quillwort (Isoetes prototypus). Committee on the Status of Endangered Wildlife in Canada, 111 recs.

# recs	CITATION
13	Klymko, J.J.D.; Robinson, S.L. 2014. 2013 field data. Atlantic Canada Conservation Data Centre.
13	MacKinnon, D.S. 1998. Ponhook Lake survey map & notes. Dept of Environment and Labour, Protected Areas Branch, 13 recs.
13	Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust, 95 recs.
13	Nova Scotia Nature Trust. 2014. Ladyslipper records from Saint Croix Nova Scotia, JLC Ed. Nova Scotia Nature Trust.
12	Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
12	Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
12	Cameron, R.P. 2013. 2013 rare species field data. Nova Scotia Department of Environment, 71 recs.
12	Hill, N.M. 2021. Observation of Carex haydenii and black ash near Marshy Hope and Ponhook Lake. pers. comm.
11	Blaney, C.S & Spicer, C.D.; Popma, T.M.; Basquill, S.P. 2003. Vascular Plant Surveys of Northumberland Strait Rivers & Amherst Area Peatlands. Nova Scotia Museum Research Grant, 501 recs.
11	Neily, T.H. 2010. Erioderma Pedicellatum records 2005-09. Mersey Tobiatic Research Institute, 67 recs.
11	Phinney, Lori; Toms, Brad; et. al. 2016. Bank Swallows (Riparia riparia) in Nova Scotia: inventory and assessment of colonies. Merset Tobeiatc Research Institute, 25 recs.
10	Belliveau, A.G. & Vail, Cole; King, Katie. 2020. New Allium tricoccum locations, Cornwallis River. Chapman, C.J. (ed.) Acadia University.
10	Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centere, 30 recs.
10	Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
10	Churchill, J.L.; Walker, J. 2017. Species at Risk Surveys at Correctional Services Canada Properties in Nova Scotia and New Brunswick. Atlantic Canada Conservation Data Centre.
10	Clayden, S.R. 2005. Confidential supplement to Status Report on Ghost Antler Lichen (Pseudevernia cladonia). Committee on the Status of Endangered Wildlife in Canada, 27 recs.
10	Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
10	Edsall, J. 2007. Personal Butterfly Collection: specimens collected in the Canadian Maritimes, 1961-2007. J. Edsall, unpubl. report, 137 recs.
10	Neily, T. H. 2018. Lichen and Bryophyte records, AEI 2017-2018. Tom Neily; Atlantic Canada Conservation Data Centre.
10	Parker, M.S.R. 2011. Hampton Wind Farm 2010: significant floral/faunal observations. , 13 recs.
10	Phinney, L. 2019. Little Brown Myotis maternal colony counts and birdSAR, 2019. Mersey Tobeatic Research Institute.
9	Archibald, D.R. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
9	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 recs.
9	Toms, Brad. 2011. Species at Risk data from 2011 field surveys. Mersey Tobeatic Research Institute, 17 recs.
8	Gilhen, J. 1984. Amphibians & Reptiles of Nova Scotia, 1st Ed. Nova Scotia Museum, 164pp.
8	Holder, M.L.; Kingsley, A.L. 2000. Kinglsey and Holder observations from 2000 field work.
8	King, Katie; Jean, Samuel. 2021. Black ash observations near Booklyn, NS. E.C. Smith Herbarium.
8	Klymko, J. 2019. Atlantic Canada Conservation Data Centre zoological fieldwork 2018. Atlantic Canada Conservation Data Centre.
8	Klymko, J. Butterfly records at the Nova Scotia Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2017.
8	Neily, T.H. & Anderson, F. 2011. Lichen observations from NRC site at Sandy Cove. , 97.
8	Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro. 2003.
8	Parks Canada. 2010. Specimens in or near National Parks in Atlantic Canada. Canadian National Museum, 3925 recs.
8	Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
8	Sollows, M.C,. 2008. NBM Science Collections databases: mammals. New Brunswick Museum, Saint John NB, download Jan. 2008, 4983 recs.
8	Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
8	White, S. 2019. Notable species sightings, 2018. East Coast Aquatics.
7	Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.
7	Boyne, A.W. & Grecian, V.D. 1999. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 23 recs.
7	Cameron, B. 2006. Hepatica americana Survey at Scotia Mine Site in Gays River, and Discovery of Three Yellow-listed Species. Conestoga-Rovers and Associates, (a consulting firm), october 25. 7 recs.
7	Cameron, R.P. 2006. Erioderma pedicellatum 2006 field data. NS Dept of Environment, 9 recs.
7	Kennedy, B.; Cron, C. 2019. observations of Poison Sumac andButtonbush, Nova Scotia. pers. commun to AC CDC.
7	Pepper, C. 2021. Rare bird, plant and mammal observations in Nova Scotia, 2017-2021.
6	Benjamin, L.K. 2006. Cypripedium arietinum. Pers. comm. to D. Mazerolle. 9 recs, 9 recs.
6	Brazner, J.; Hill, N. 2018. Plant observations along the Cornwallis River, Nova Scotia. Nova Scotia Department of Lands and Forestry.
6	Catling, P.M. 1981. Taxonomy of autumn-flowering Spiranthes species of southern Nova Scotia in Can. J. Bot. , 59:1250-1273. 30 recs.
6	Chapman, C.N. (Cody). 2020. Nova Scotia Black Ash (Fraxinus nigra) field observations by Confederacy of Mainland Mi'kmaq. Forestry Program, Confederacy of Mainland Mi'kmaq.
6	Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
6	Matthew Smith. 2010. Field trip report from Avon Caving Club outlining the discovery of Cyrpipedium arietinum and Hepatica nobilis populations. Public Works and Government Services Canada.
6	McKendry, Karen. 2016. Rare species observations, 2016. Nova Scotia Nature Trust, 19 recs.
6	Neily, T.H. Tom Neily NS Sphagnum records (2009-2014). T.H. Neily, Atlantic Canada Conservation Data Centre. 2019.
6	Nova Scotia Nature Trust. 2022. Ram's Head Lady Slipper observations from 2015 and 2019. , 6 records.
5	Carter, Jeff; Churchill, J.; Churchill, I.; Churchill, L. 2020. Bank Swallow colony Scots Bay, NS. Atlantic Canada Conservation Data Centre.
5	Clayden, S.R. 1998. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, 19759 recs.
5	McMullin, Troy. 2021. Anzia colpodes observations near Kejimkujik National Park. Canadian Museum of Nature.
5	Plissner, J.H. & Haig, S.M. 1997. 1996 International piping plover census. US Geological Survey, Corvallis OR, 231 pp.
5	Porter, K. 2013. 2013 rare and non-rare vascular plant field data. St. Mary's University, 57 recs.
5	Towell, C. 2014. 2014 Northern Goshawk and Common Nighthawk email reports, NS. NS Department of Natural Resources.
5	Wallace, S. 2020. Stewardship Department species occurrence data on NTNB preserves. Nature Trust of New Brunswick.
5	Whittam, R.M. 1999. Status Report on the Roseate Tern (update) in Canada. Committee on the Status of Endangered Wildlife in Canada, 36 recs.

# recs	CITATION
4	Benedict, B. Connell Herbarium Specimens (Data) . University New Brunswick, Fredericton. 2003.
4	Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 recs.
4	Cameron, R.P. 2012. Additional rare plant records, 2009. , 7 recs.
4	Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
4	Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 recs.
4	Cody, W.J. 2003. Nova Scotia specimens of Equisetum pratense at the DAO herbarium in Ottawa. , Pers. comm. to C.S. Blaney. 4 recs.
4	Forsythe, B. 2006. Cypripedium arietinum at Meadow Pond, Hants Co. Pers. comm. to C.S. Blaney. 4 recs, 4 recs.
4	Hughes, Cory. 2020. Atlantic Forestry Centre Coccinella transversoguttata collections. Canadian Forest Service, Atlantic Forestry Centre.
4	Klymko, J. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
4	Klymko, J.J.D. 2011. Insect fieldwork & submissions, 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 742 recs.
4	Mills, Pamela. 2007. Iva frutescens records. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to S. Basquil, 4 recs.
4	Newell, R. & Neily, T.; Toms, B.; Proulx, G. et al. 2011. NCC Properties Fieldwork in NS: August-September 2010. Nature Conservancy Canada, 106 recs.
4	Toms, B. 2015. Lophiola aurea (Goldencrest) records from Molega Lake. Mersey Tobeatic Research Institute, 4 records.
4	Toms, B. 2016. Email list of four GPS locations of Golden Crest (Lophiola aurea) from the previously documented site on Molega Lake, NS. Mersey Tobeatic Research Institute, 4 records.
3	Bradford, R. 2004. Coregonus huntsmani locations. Dept of Fisheries & Oceans, Atlantic Region, Pers. comm. to K. Bredin. 4 recs.
3	Doubt, J. 2013. Email to Sean Blaney with Nova Scotia records of Fissidens exilis at Canadian Museum of Nature. pers. comm., 3 records.
3	Hill, N. and D. Patriquin. 2013. 2013 rare plant observations in Williams Lake Backlands area. Fern Hill Institute of Plant Conservation, Berwick, Nova Scotia, 3 records.
3	Hill, N.M., Myra, M. 2017. Email to Sean Blaney regarding rich intervale flora on Nictaux River. Fern Hill Institute, 3 records.
3	Klymko, J. 2021. Atlantic Canada Conservation Data Centre zoological fieldwork 2020. Atlantic Canada Conservation Data Centre.
3	Mersey Tobeatic Research Institute. 2022. Nova Scotia Bobolink observations. pers. comm. to J. Churchill.
3	Mills, Pamela. 2008. Clethra alnifolia at Mudflat Lake. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to D.M. Mazerolle, 4 recs.
3	Neily, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobeatic Research Institute, 1691 records.
3	Nova Scotia Department of Lands and Forestry. 2018. Wood Turtle observations in, or near, the cornwallis River watershed. NS DLF, pers. comm. to AC CDC.
3	Sabine, M. 2016. NB DNR staff incidental Black Ash observations. New Brunswick Department of Natural Resources.
3	Staicer, C. 2013. Personal communication concerning Hirundo rustica nesting in and around Kejimkujik NP, NS. Pers. comm
3	Thompson, R. 2018. Williamsdale Quarry Expansion Project, NS, Environmental Assessment rare plants. Dexter Construction Company Limited.
3	White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
2	Amiro, Peter G. 1998. Atlantic Salmon: Inner Bay of Fundy SFA 22 & part of SFA 23. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-12. 4 recs.
2	Anon. 2017. Export of Maritimes Butterfly records. Global Biodiversity Information Facility (GBIF).
2	Bagnell, B.A. 2001. New Brunswick Bryophyte Occurrences. B&B Botanical, Sussex, 478 recs.
2	Basquill, S.P. 2011. Field observations & specimen collections, 2010. Nova Scotia Department of Natural Resources, Pers. comm. , 8 Recs.
2	Basquill, S.P. 2018. Various specimens, NS DNR field work. NS Department of Natural Resources, 10.
2	Bateman, M.C. 2001. Coastal Waterfowl Surveys Database, 1965-2001. Canadian Wildlife Service, Sackville, 667 recs.
2	Belliveau, A. 2013. email to Sean Blaney regarding Listera australis observations in SW Nova Scotia. Mersey Tobeatic Research Institute, 8.
2	Belliveau, A.G. E.C. Smith Herbarium Specimen Database 2019. E.C. Smith Herbarium, Acadia University. 2019.
2	Benedict, B. Connell Herbarium Specimen Database Download 2004. Connell Memorial Herbarium, University of New Brunswick. 2004.
2	Blaney, C.S. 1999. Fieldwork 1999. Atlantic Canada Conservation Data Centre. Sackville NB, 292 recs.
2	Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
2	Chapman, Cody. Unreported Species at Risk Records across Nova Scotia. Chapman, Cody, 5 records.
2	COSEWIC (Committee on the Status of Wildlife in Canada). 2013. COSEWIC Assessment and Status Report on the Eastern Waterfan Peltigera hydrothyria in Canada. COSEWIC, 46 pp.
2	Emma Vost. 2022. Bank swallow colony and broad-winged hawk sightings in Bridgetown, NS. Personal communication, 4.
2	Gilhen, J., Jones, A., McNeil, J., Tanner, A.W. 2012. A Significant Range Extension for the Eastern Ribbonsnake, Thamnophis sauritus, in Nova Scotia, Canada. The Canadian Field-Naturalist, 126(3): 231-233.
2	Hill, N.M. 2013. email communications to Sean Blaney and David Mazerolle regarding the discovery of Listera australis populations at Black River Lake and Middlewood. , 2.
2	Hill, N.M. 2019. Observation of Crocanthemum canadense near Auburn, Annapolis Co. NS on May 29, 2019. Fern Hill Institute, 2 recs.
2	Hope, P. 2002. Field survey of Goodyera pubescens population at Kejimkujik National Park. Kejimkujik National Park, 3 recs.
2	iNaturalist.ca. 2022. iNaturalist records 2022. iNaturalist.ca (ed.) iNaturalist.org; iNaturalist.ca.
2	Kennedy, B. & Cron, C.; Patriquin, D. 2018. Email to Sean Blaney on observations of Trichostema dichotomum at Shingle Lake, Nova Scotia. , 2 records.
2	Klymko, J.J.D. 2016. 2015 field data. Atlantic Canada Conservation Data Centre.
2	LaPaix, R.; Parker, M. 2013. email to Sean Blaney regarding Listera australis observations near Kearney Lake. East Coast Aquatics, 2.
2	Lock, A.R., Brown, R.G.B. & Gerriets, S.H. 1994. Gazetteer of Marine Birds in Atlantic Canada. Canadian Wildlife Service, Atlantic Region, 137 pp.
2	Manning, I. 2020. Peregrine Falcon nest site observations. pers. comm. to J. Churchill.
2	Mazerolle, David. 2021. Botanical fieldwork 2019-20200. Parks Canada.
2	McAlpine, D.F. 1998. NBM Science Collections databases to 1998. New Brunswick Museum, Saint John NB, 241 recs.
2	Mills, P. 2016. Email communication to S. Blaney, re: Scirpus longii at Upper Great Brook, Queens Co. NS. NS DNR, 2 recs.
2	Munro, M. 2003. Caulophyllum thalictroides & Carex hirtifolia at Herbert River, Brooklyn, NS. , Pers. comm. to C.S. Blaney. 2 recs.
2	Munro, M. 2003. Dirca palustris & Hepatica nobilis var. obtusa at Cogmagun River, NS. , Pers. comm. to C.S. Blaney . 2 recs.
2	NatureServe Canada. 2018. iNaturalist Butterfly Data Export . iNaturalist.org and iNaturalist.ca.
2	Neily, T.H. & Pepper, C. 2020. Nova Scotia SMP lichen surveys 2020. Mersey Tobeatic Research Institute.
2	Neily, T.H.; Smith, C.; Whitman, E. 2011. NCC Logging Lake (Halifax Co. NS) properties baseline survey data. Nature Conservancy of Canada, 2 recs.

# recs	CITATION
2	Newell, R. E., MacKinnon, C. M. & Kennedy, A. C. 2006. Botanical Survey of Boot Island National Wildlife Area, Nova Scotia, 2004. Canadian Wildlife Service, Atlantic Region, Technical Report Series Number 450. 3 recs.
2	Newell, R.E. 2006. Rare plant observations in Digby Neck. Pers. comm. to S. Blaney, 6 recs.
2	Parker, M. 2018. East Coast Aquatics ACCDC 2018 Report. East Coast Aquatics, 12 records.
2	Shafer, A.B.A., D.T. Stewart. 2006. A Disjunct Population of Sorex dispar (Long-Tailed Shrew) in Nova Scotia. Northeastern Naturalist, 13(4): 603-608.
2	Sheffield, C.S. 2004. The Rare Cleptoparasitic Bee Epeoloides pilosula (Hymenoptera: Apoidea: Apidae) Discovered in Nova Scotia, Canada, with Distributional Notes
2	Sollows, M.C. 2008. NBM Science Collections databases: herpetiles. New Brunswick Museum, Saint John NB, download Jan. 2008, 8636 recs.
2	Standley, L.A. 2002. Carex haydenii in Nova Scotia. , Pers. comm. to C.S. Blaney. 4 recs.
2	Toms, Brad. 2022. Non-Lichen Observations from Lichen SMP and NCC Property Searches. Mersey Tobeatic Research Institute.
1	Allan Smith. 2011. Cedar stand location at South Williamston. Abitibi Bowater, 1 Rec.
1	Amirault, D.L. 2003. 2003 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
1	Amirault, D.L. 2005. 2005 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 27 recs.
1	Amiro, Peter G. 1998. Atlantic Salmon: Southern Nova Scotia SFA 21. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-11. 1 rec.
1	Anderson, Frances. 2022. Heterodermia squamulosa record near Lunenburg, NS. pers. comm.
1	Anon. Dataset of butterfly records for the Maritime provinces. Museum of Comparative Zoology, Harvard University. 2017.
1	Austin-Smith, P. 2014. 2014 Common Nighthawk personal communication report, NS. NS Department of Natural Resources.
1	Basquill, S. P. 2008. Nova Scotia Dept of Natural Resources.
1	Basquill, S.P. 2004. C. americana and Sedum sp records, 2002. Pers. comm. to C.S. Blaney. 2 recs, 2 recs.
1	Basquill, S.P. 2012. 2012 Bryophyte specimen data. Nova Scotia Department of Natural Resources, 37 recs.
1	Basquill, S.P.; Quigley, E. 2006. New Minuartia groenlandica record for NS. Pers. comm. to C.S. Blaney, Oct 6, 1 rec.
1	Basset, I.J. & Crompton, C.W. 1978. The Genus Suaeda (Chenopodiaceae) in Canada. Canadian Journal of Botany, 56: 581-591.
1	Bayne, D.Z. 2014. 2014 rare species observations from southwest Nova Scotia. Nova Scotia Department of Natural Resources, 46 recs.
1	Belliveau, A. & Toms, B. 2012. Email regarding Lophiola aurea (Goldencrest) location on Molega Lake, NS. Mersey Tobeatic Research Institute, 3 records.
1	Belliveau, A.G. 2020. Email to Colin Chapman on new NS locations for Allium tricoccum. Chapman, C.J. (ed.) Acadia University.
1	Benjamin, L.K. 2003. Cypripedium arietinum in Cogmagun River NS. Pers. comm. to S. Blaney, 1 rec.
1	Berg, L. 2020. Canada Warbler observations, Birch Lake, NS. pers. comm. to J. Churchill.
1	Bernard, Laurel. 2013. Email to Sean Blaney regarding Listera australis at Lake Rossignol. Nature Conservancy of Canada, 1.
1	Blaney, C.S. Miscellaneous specimens received by ACCDC (botany). Various persons. 2001-08.
1	Brach, A.R. 2019. Correspondence to Sean Blaney regarding Calamagrostis cinnoides specimen from Halifax NS. pers. comm., Harvard University Herbaria, 1 record.
1	Breen, A. 2017. 2017 Atlantic Whitefish observation. Coastal Action.
1	Bruce, J. 2014. 2014 Wood Turtle email report, Nine Mile River, NS. NS Department of Natural Resources.
1	Brunton, Dan. 2022. Record of Isoetes prototypus near Sand Lake, NS. pers. comm.
1	Cameron, R.P. 2005. Erioderma pedicellatum unpublished data. NS Dept of Environment, 9 recs.
1	Clayden, S.R. 2006. Pseudevernia cladonia records. NB Museum. Pers. comm. to S. Blaney, Dec, 4 recs.
1	Clayden, S.R. 2020. Email to Sean Blaney regarding Pilophorus cereus and P. fibula at Fidele Lake area, Charlotte County, NB. pers. comm., 2 records.
1	Cook, K. 2016. Wood Turtle record. Pers comm. to Nova Scotia Department of Lands and Forestry.
1	Crowell, A. 2004. Cypripedium arietinum in Weir Brook, Hants Co. Pers. comm. to S. Blaney, 1 rec.
1	Crowell, M. 2013. email to Sean Blaney regarding Listera australis at Bear Head and Mill Cove Canadian Forces Station. Jacques Whitford Environmental Ltd., 2.
1	Crowell, M.J. Plant specimens from Nictaux, NS sent to Sean Blaney for identification. Jacques Whitford Limited. 2005.
1	deGooyer, K. 2018. Chelydra serpentina observation record. Nova Scotia Environment.
1	deGooyer, K. 2019. Snapping Turtle and Eastern White Cedar observations. Nova Scotia Environment.
1	Eastman, A. 2019. Snapping Turtle observation at Brookfield, Colchester Co. NS. Halifax Field Naturalists Nova Scotia Nature Archive Facebook Page, 1 record.
1	Edge, Thomas A. 1984. Status report on the Atlantic Whitefish (Coregonus huntsmani). Committee on the Status of Endangered Wildlife in Canada.
1	Golder Associates Ltd. 2021. Black Ash location from Goff's Quarry Expansion Environment Assessment, 2017. Golder Associates Ltd., 1 record.
1	Hill, N. 2014. 2014 Monarch email report, Bridgetown, NS. Fern Hill Institute for Plant Conservation.
1	Hill, N.; Manning, I. 2020. Wild Leek observation, Cornwallis River, NS, floodplain. pers. comm. to J. Churchill.
1	Hill, N.M. 2016. Email communications to Sean Blaney and Alain Belliveau regarding the discovery of Fimbristylis autumnalis on the shores of Loon Lake, Kejimkujik National Park. Pers. comm., 1 rec.
1	Hope, P. 2007. Water-pennywort (Hydrocotyle umbellata) on Ell Island. Parks Canada, Kejimkujik NP, 1 record.
1	Horace Mouland. 2022. Monarch observation in Wilmot, Nova Scotia. Personal communication, 1 record.
1	Jacques Whitford Ltd. 2003. Cananda Lily location. Pers. Comm. to S. Blaney. 2pp, 1 rec, 1 rec.
1	Johnstone, D.; Churchill J. 2014. 2014 Chimney Swift observation, Kejimkujik NP, NS. Atlantic Canada Conservation Data Centre.
1	Kennedy, B. 2019. observations of Crocanthemum canadense at Bangs Falls, Nova Scotia. iNaturalist.ca.
1	Klymko, J.J.D. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 3 recs.
1	Klymko, J.J.D. 2012. Insect field work & submissions. Atlantic Canada Conservation Data Centre, 852 recs.
1	Klymko, J.J.D. 2012. Insect fieldwork & submissions, 2011. Atlantic Canada Conservation Data Centre. Sackville NB, 760 recs.
1	Lautenschlager, R.A. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 2 recs.
1	MacKinnon, D.; Wright, P.; Smith, D. 2014. 2014 Common Tern email report, Eastern Passage, NS. NS Department of Environment.
1	MacKinnon, D.S. 2002. Fieldwork 2002. Dept of Environment & Labour, Protected Areas Branch, 1 rec.
1	MacKinnon, D.S. 2012. Goodyera pubescens observation, photo. Pers. comm. to S. Blaney, Sep 18, 1 rec.

# recs	CITATION
1	Majka, C.G. & McCorquodale, D.B. 2006. The Coccinellidae (Coleoptera) of the Maritime Provinces of Canada: new records, biogeographic notes, and conservation concerns. Zootaxa. Zootaxa, 1154: 49–68. 7 recs.
1	Manning, I. 2020. Peregrine Falcon observation. Pers. comm. to J.L. Churchill.
1	Neily, P.D. Plant Specimens. Nova Scotia Dept Natural Resources, Truro. 2006.
1	Neily, T.H. 2004. Hepatica nobilis var. obtusa record for Falmouth NS. Pers. comm. to C.S. Blaney, 1 rec.
1	Newell, R.E. 2004. Hepatica nobilis var. obtusa record. Pers. comm. to S. Blaney, 1 rec.
1	Niel, K. & Majka, C. 2008. New Records of Tiger Beetles (Coleoptera: Carabidae: Cicindelinae) in Nova Scotia. Journal of the Acadian Entomological Society, 4: 3-6.
1	O'Neil, S. 1998. Atlantic Salmon: Eastern Shore Nova Scotia SFA 20. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-10. 4 recs.
1	Proulx, Lisa. 2022. Email to Sean Blaney regarding Sclerophora peronella (Frosted Glass Whiskers, a lichen) occurrence at Goldsmith Lake, Annapolis Co., NS. pers. comm., 1 record.
1	Riley, J. 2019. Digby County lichen observations. Pers. comm. to J.L. Churchill, 50 recs.
1	Robicheau, C. 2019. Atlantic Canada Conservation Data Centre Fieldwork 2019. Atlantic Canada Conservation Data Centre.
1	Scott, F.W. 1988. Status Report on the Southern Flying Squirrel (Glaucomys volans) in Canada. Committee on the Status of Endangered Wildlife in Canada, 2 recs.
1	Skevington, Jeffrey H. 2020. Syrphid records used for the Field Guide to the Flower Flies of Northeastern North America. Canadian National Collection of Insects.
1	Smith, M. 2016. Email regarding additional location of Fimbristylis autumnalis on shores of Loon Lake, Kejimkujik National Park. pers. comm., 1 record.
1	Sollows, M.C,. 2009. NBM Science Collections databases: Coccinellid & Cerambycid Beetles. New Brunswick Museum, Saint John NB, download Feb. 2009, 569 recs.
1	Sollows, M.C,. 2009. NBM Science Collections databases: molluscs. New Brunswick Museum, Saint John NB, download Jan. 2009, 6951 recs (2957 in Atlantic Canada).
1	Stewart, P. 2013. email to Sean Blaney regarding the discovery of a Listera australis population at Blockhouse. Envirosphere Consultants Limited, 1.
1	Timmons, M. 2019. Telephone report of Polygala polygama at Aylesford Mountain, Kings Co., NS by Megan Timmons to C.S. Blaney. , 1 record.
1	Toms, Brad. 2009. New Scirpus longii record on Lake Rossignol. Mersey Tobeatic Research Institute.
1	Weatherby, C.A. 1942. Two weeks in southwestern Nova Scotia. Rhodora, 44: 229-236.
1	WIlliams, M. Cape Breton University Digital Herbarium. Cape Breton University Digital Herbarium. 2013.
1	Wong, Sarah. 2020. Eastern Ribbonsnake (Thamnophis sauritus) sighting at Mersey River inflow to Lake Rossignol, August 24, 2020. pers, comm., 1 record.

APPENDIX B

List of Possible P-ELC Codes

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
111	100	<10 cm	Very Poorly Drained	10	< 1cm	Groundcover	1	Bare Ground/Moss	Very Poorly Drained, Bare Ground/Moss Groundcover
112	100	<10 cm	Very Poorly Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Very Poorly Drained, Broadleaf/Graminoid Groundcover
112	100	<10 cm	Very Poorly Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Very Poorly Drained, Broadleaf/Graminoid Groundcover
114	100	<10 cm	Very Poorly Drained	10	< 1cm	Groundcover	4	Mixed	Very Poorly Drained, Mixed Groundcover
115	100	<10 cm	Very Poorly Drained	10	< 1cm	Groundcover	5	Coniferous Dominant	Very Poorly Drained, Coniferous Dominant Groundcover
122	100	<10 cm	Very Poorly Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Very Poorly Drained, Broadleaf/Graminoid Low Growth
122	100	<10 cm	Very Poorly Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Very Poorly Drained, Broadleaf/Graminoid Low Growth
123	100	<10 cm	Very Poorly Drained	20	1-10 cm	Low Growth	3	Broadleaf Dominant	Very Poorly Drained, Broadleaf Dominant Low Growth
124	100	<10 cm	Very Poorly Drained	20	1-10 cm	Low Growth	4	Mixed	Very Poorly Drained, Mixed Low Growth
125	100	<10 cm	Very Poorly Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Very Poorly Drained, Coniferous Dominant Low Growth
125	100	<10 cm	Very Poorly Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Very Poorly Drained, Coniferous Dominant Low Growth
132	100	<10 cm	Very Poorly Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Very Poorly Drained, Broadleaf/Graminoid Low Growth
132	100	<10 cm	Very Poorly Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Very Poorly Drained, Broadleaf/Graminoid Low Growth
133	100	<10 cm	Very Poorly Drained	30	10-25 cm	Low Growth	3	Broadleaf Dominant	Very Poorly Drained, Broadleaf Dominant Low Growth
134	100	<10 cm	Very Poorly Drained	30	10-25 cm	Low Growth	4	Mixed	Very Poorly Drained, Mixed Low Growth
135	100	<10 cm	Very Poorly Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Very Poorly Drained, Coniferous Dominant Low Growth
135	100	<10 cm	Very Poorly Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Very Poorly Drained, Coniferous Dominant Low Growth
142	100	<10 cm	Very Poorly Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Very Poorly Drained, Broadleaf Low Shrub
142	100	<10 cm	Very Poorly Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Very Poorly Drained, Broadleaf Low Shrub
143	100	<10 cm	Very Poorly Drained	40	25-50 cm	Low Shrub	3	Broadleaf	Very Poorly Drained, Broadleaf Low Shrub
144	100	<10 cm	Very Poorly Drained	40	25-50 cm	Low Shrub	4	Mixed	Very Poorly Drained, Mixed Low Shrub
145	100	<10 cm	Very Poorly Drained	40	25-50 cm	Low Shrub	5	Coniferous	Very Poorly Drained, Coniferous Low Shrub
145	100	<10 cm	Very Poorly Drained	40	25-50 cm	Low Shrub	5	Coniferous	Very Poorly Drained, Coniferous Low Shrub
152	100	<10 cm	Very Poorly Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Very Poorly Drained, Broadleaf Low Shrub
152	100	<10 cm	Very Poorly Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Very Poorly Drained, Broadleaf Low Shrub
153	100	<10 cm	Very Poorly Drained	50	50 cm - 2 m	Low Shrub	3	Broadleaf	Very Poorly Drained, Broadleaf Low Shrub
154	100	<10 cm	Very Poorly Drained	50	50 cm - 2 m	Low Shrub	4	Mixed	Very Poorly Drained, Mixed Low Shrub
155	100	<10 cm	Very Poorly Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Very Poorly Drained, Coniferous Low Shrub
155	100	<10 cm	Very Poorly Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Very Poorly Drained, Coniferous Low Shrub
163	100	<10 cm	Very Poorly Drained	60	2-7 m	High Shrub	3	Broadleaf	Very Poorly Drained, Broadleaf High Shrub
163	100	<10 cm	Very Poorly Drained	60	2-7 m	High Shrub	3	Broadleaf	Very Poorly Drained, Broadleaf High Shrub
163	100	<10 cm	Very Poorly Drained	60	2-7 m	High Shrub	3	Broadleaf	Very Poorly Drained, Broadleaf High Shrub
164	100	<10 cm	Very Poorly Drained	60	2-7 m	High Shrub	4	Mixed	Very Poorly Drained, Mixed High Shrub
165	100	<10 cm	Very Poorly Drained	60	2-7 m	High Shrub	5	Coniferous	Very Poorly Drained, Coniferous High Shrub
165	100	<10 cm	Very Poorly Drained	60	2-7 m	High Shrub	5	Coniferous	Very Poorly Drained, Coniferous High Shrub
172	100	<10 cm	Very Poorly Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Very Poorly Drained, Young to Immature Broadleaf Forest
172	100	<10 cm	Very Poorly Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Very Poorly Drained, Young to Immature Broadleaf Forest
173	100	<10 cm	Very Poorly Drained	70	7-15 m	Young to Immature Forest	3	Broadleaf	Very Poorly Drained, Young to Immature Broadleaf Forest
174	100	<10 cm	Very Poorly Drained	70	7-15 m	Young to Immature Forest	4	Mixed	Very Poorly Drained, Young to Immature Mixed Forest
175	100	<10 cm	Very Poorly Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Very Poorly Drained, Young to Immature Coniferous Forest
175	100	<10 cm	Very Poorly Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Very Poorly Drained, Young to Immature Coniferous Forest
183	100	<10 cm	Very Poorly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Very Poorly Drained, Immature to Mature Broadleaf Forest
183	100	<10 cm	Very Poorly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Very Poorly Drained, Immature to Mature Broadleaf Forest
184	100	<10 cm	Very Poorly Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Very Poorly Drained, Immature to Mature Mixed Forest
184	100	<10 cm	Very Poorly Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Very Poorly Drained, Immature to Mature Mixed Forest

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
185	100	<10 cm	Very Poorly Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Very Poorly Drained, Immature to Mature Coniferous Forest
185	100	<10 cm	Very Poorly Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Very Poorly Drained, Immature to Mature Coniferous Forest
193	100	<10 cm	Very Poorly Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Very Poorly Drained, Mature to Very Mature Broadleaf Forest
211	200	10-50 cm	Poorly Drained	10	< 1cm	Groundcover	1	Bare Ground/Moss	Poorly Drained, Bare Ground/Moss Groundcover
212	200	10-50 cm	Poorly Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Poorly Drained, Broadleaf/Graminoid Groundcover
212	200	10-50 cm	Poorly Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Poorly Drained, Broadleaf/Graminoid Groundcover
214	200	10-50 cm	Poorly Drained	10	< 1cm	Groundcover	4	Mixed	Poorly Drained, Mixed Groundcover
215	200	10-50 cm	Poorly Drained	10	< 1cm	Groundcover	5	Coniferous Dominant	Poorly Drained, Coniferous Dominant Groundcover
222	200	10-50 cm	Poorly Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Poorly Drained, Broadleaf/Graminoid Low Growth
222	200	10-50 cm	Poorly Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Poorly Drained, Broadleaf/Graminoid Low Growth
223	200	10-50 cm	Poorly Drained	20	1-10 cm	Low Growth	3	Broadleaf Dominant	Poorly Drained, Broadleaf Dominant Low Growth
224	200	10-50 cm	Poorly Drained	20	1-10 cm	Low Growth	4	Mixed	Poorly Drained, Mixed Low Growth
225	200	10-50 cm	Poorly Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Poorly Drained, Coniferous Dominant Low Growth
225	200	10-50 cm	Poorly Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Poorly Drained, Coniferous Dominant Low Growth
232	200	10-50 cm	Poorly Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Poorly Drained, Broadleaf/Graminoid Low Growth
232	200	10-50 cm	Poorly Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Poorly Drained, Broadleaf/Graminoid Low Growth
233	200	10-50 cm	Poorly Drained	30	10-25 cm	Low Growth	3	Broadleaf Dominant	Poorly Drained, Broadleaf Dominant Low Growth
234	200	10-50 cm	Poorly Drained	30	10-25 cm	Low Growth	4	Mixed	Poorly Drained, Mixed Low Growth
235	200	10-50 cm	Poorly Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Poorly Drained, Coniferous Dominant Low Growth
235	200	10-50 cm	Poorly Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Poorly Drained, Coniferous Dominant Low Growth
242	200	10-50 cm	Poorly Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Poorly Drained, Broadleaf Low Shrub
243	200	10-50 cm	Poorly Drained	40	25-50 cm	Low Shrub	3	Broadleaf	Poorly Drained, Broadleaf Low Shrub
244	200	10-50 cm	Poorly Drained	40	25-50 cm	Low Shrub	4	Mixed	Poorly Drained, Mixed Low Shrub
245	200	10-50 cm	Poorly Drained	40	25-50 cm	Low Shrub	5	Coniferous	Poorly Drained, Coniferous Low Shrub
245	200	10-50 cm	Poorly Drained	40	25-50 cm	Low Shrub	5	Coniferous	Poorly Drained, Coniferous Low Shrub
252	200	10-50 cm	Poorly Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Poorly Drained, Broadleaf Low Shrub
252	200	10-50 cm	Poorly Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Poorly Drained, Broadleaf Low Shrub
253	200	10-50 cm	Poorly Drained	50	50 cm - 2 m	Low Shrub	3	Broadleaf	Poorly Drained, Broadleaf Low Shrub
254	200	10-50 cm	Poorly Drained	50	50 cm - 2 m	Low Shrub	4	Mixed	Poorly Drained, Mixed Low Shrub
255	200	10-50 cm	Poorly Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Poorly Drained, Coniferous Low Shrub
255	200	10-50 cm	Poorly Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Poorly Drained, Coniferous Low Shrub
263	200	10-50 cm	Poorly Drained	60	2-7 m	High Shrub	3	Broadleaf	Poorly Drained, Broadleaf High Shrub
263	200	10-50 cm	Poorly Drained	60	2-7 m	High Shrub	3	Broadleaf	Poorly Drained, Broadleaf High Shrub
263	200	10-50 cm	Poorly Drained	60	2-7 m	High Shrub	3	Broadleaf	Poorly Drained, Broadleaf High Shrub
264	200	10-50 cm	Poorly Drained	60	2-7 m	High Shrub	4	Mixed	Poorly Drained, Mixed High Shrub
265	200	10-50 cm	Poorly Drained	60	2-7 m	High Shrub	5	Coniferous	Poorly Drained, Coniferous High Shrub
265	200	10-50 cm	Poorly Drained	60	2-7 m	High Shrub	5	Coniferous	Poorly Drained, Coniferous High Shrub
272	200	10-50 cm	Poorly Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Poorly Drained, Young to Immature Broadleaf Forest
272	200	10-50 cm	Poorly Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Poorly Drained, Young to Immature Broadleaf Forest
273	200	10-50 cm	Poorly Drained	70	7-15 m	Young to Immature Forest	3	Broadleaf	Poorly Drained, Young to Immature Broadleaf Forest
274	200	10-50 cm	Poorly Drained	70	7-15 m	Young to Immature Forest	4	Mixed	Poorly Drained, Young to Immature Mixed Forest
275	200	10-50 cm	Poorly Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Poorly Drained, Young to Immature Coniferous Forest
275	200	10-50 cm	Poorly Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Poorly Drained, Young to Immature Coniferous Forest
283	200	10-50 cm	Poorly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Poorly Drained, Immature to Mature Broadleaf Forest

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
283	200	10-50 cm	Poorly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Poorly Drained, Immature to Mature Broadleaf Forest
283	200	10-50 cm	Poorly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Poorly Drained, Immature to Mature Broadleaf Forest
284	200	10-50 cm	Poorly Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Poorly Drained, Immature to Mature Mixed Forest
285	200	10-50 cm	Poorly Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Poorly Drained, Immature to Mature Coniferous Forest
285	200	10-50 cm	Poorly Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Poorly Drained, Immature to Mature Coniferous Forest
293	200	10-50 cm	Poorly Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Poorly Drained, Mature to Very Mature Broadleaf Forest
311	300	50 cm - 2 m	Imperfectly Drained	10	< 1cm	Groundcover	1	Bare Ground/Moss	Imperfectly Drained, Bare Ground/Moss Groundcover
312	300	50 cm - 2 m	Imperfectly Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Imperfectly Drained, Broadleaf/Graminoid Groundcover
312	300	50 cm - 2 m	Imperfectly Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Imperfectly Drained, Broadleaf/Graminoid Groundcover
314	300	50 cm - 2 m	Imperfectly Drained	10	< 1cm	Groundcover	4	Mixed	Imperfectly Drained, Mixed Groundcover
315	300	50 cm - 2 m	Imperfectly Drained	10	< 1cm	Groundcover	5	Coniferous Dominant	Imperfectly Drained, Coniferous Dominant Groundcover
322	300	50 cm - 2 m	Imperfectly Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Imperfectly Drained, Broadleaf/Graminoid Low Growth
322	300	50 cm - 2 m	Imperfectly Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Imperfectly Drained, Broadleaf/Graminoid Low Growth
323	300	50 cm - 2 m	Imperfectly Drained	20	1-10 cm	Low Growth	3	Broadleaf Dominant	Imperfectly Drained, Broadleaf Dominant Low Growth
324	300	50 cm - 2 m	Imperfectly Drained	20	1-10 cm	Low Growth	4	Mixed	Imperfectly Drained, Mixed Low Growth
325	300	50 cm - 2 m	Imperfectly Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Imperfectly Drained, Coniferous Dominant Low Growth
325	300	50 cm - 2 m	Imperfectly Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Imperfectly Drained, Coniferous Dominant Low Growth
332	300	50 cm - 2 m	Imperfectly Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Imperfectly Drained, Broadleaf/Graminoid Low Growth
332	300	50 cm - 2 m	Imperfectly Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Imperfectly Drained, Broadleaf/Graminoid Low Growth
333	300	50 cm - 2 m	Imperfectly Drained	30	10-25 cm	Low Growth	3	Broadleaf Dominant	Imperfectly Drained, Broadleaf Dominant Low Growth
334	300	50 cm - 2 m	Imperfectly Drained	30	10-25 cm	Low Growth	4	Mixed	Imperfectly Drained, Mixed Low Growth
335	300	50 cm - 2 m	Imperfectly Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Imperfectly Drained, Coniferous Dominant Low Growth
335	300	50 cm - 2 m	Imperfectly Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Imperfectly Drained, Coniferous Dominant Low Growth
342	300	50 cm - 2 m	Imperfectly Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Imperfectly Drained, Broadleaf Low Shrub
342	300	50 cm - 2 m	Imperfectly Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Imperfectly Drained, Broadleaf Low Shrub
343	300	50 cm - 2 m	Imperfectly Drained	40	25-50 cm	Low Shrub	3	Broadleaf	Imperfectly Drained, Broadleaf Low Shrub
344	300	50 cm - 2 m	Imperfectly Drained	40	25-50 cm	Low Shrub	4	Mixed	Imperfectly Drained, Mixed Low Shrub
345	300	50 cm - 2 m	Imperfectly Drained	40	25-50 cm	Low Shrub	5	Coniferous	Imperfectly Drained, Coniferous Low Shrub
345	300	50 cm - 2 m	Imperfectly Drained	40	25-50 cm	Low Shrub	5	Coniferous	Imperfectly Drained, Coniferous Low Shrub
352	300	50 cm - 2 m	Imperfectly Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Imperfectly Drained, Broadleaf Low Shrub
352	300	50 cm - 2 m	Imperfectly Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Imperfectly Drained, Broadleaf Low Shrub
353	300	50 cm - 2 m	Imperfectly Drained	50	50 cm - 2 m	Low Shrub	3	Broadleaf	Imperfectly Drained, Broadleaf Low Shrub
354	300	50 cm - 2 m	Imperfectly Drained	50	50 cm - 2 m	Low Shrub	4	Mixed	Imperfectly Drained, Mixed Low Shrub
355	300	50 cm - 2 m	Imperfectly Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Imperfectly Drained, Coniferous Low Shrub
355	300	50 cm - 2 m	Imperfectly Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Imperfectly Drained, Coniferous Low Shrub
363	300	50 cm - 2 m	Imperfectly Drained	60	2-7 m	High Shrub	3	Broadleaf	Imperfectly Drained, Broadleaf High Shrub
363	300	50 cm - 2 m	Imperfectly Drained	60	2-7 m	High Shrub	3	Broadleaf	Imperfectly Drained, Broadleaf High Shrub
363	300	50 cm - 2 m	Imperfectly Drained	60	2-7 m	High Shrub	3	Broadleaf	Imperfectly Drained, Broadleaf High Shrub
364	300	50 cm - 2 m	Imperfectly Drained	60	2-7 m	High Shrub	4	Mixed	Imperfectly Drained, Mixed High Shrub
365	300	50 cm - 2 m	Imperfectly Drained	60	2-7 m	High Shrub	5	Coniferous	Imperfectly Drained, Coniferous High Shrub
365	300	50 cm - 2 m	Imperfectly Drained	60	2-7 m	High Shrub	5	Coniferous	Imperfectly Drained, Coniferous High Shrub
372	300	50 cm - 2 m	Imperfectly Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Imperfectly Drained, Young to Immature Broadleaf Forest
372	300	50 cm - 2 m	Imperfectly Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Imperfectly Drained, Young to Immature Broadleaf Forest
373	300	50 cm - 2 m	Imperfectly Drained	70	7-15 m	Young to Immature Forest	3	Broadleaf	Imperfectly Drained, Young to Immature Broadleaf Forest
374	300	50 cm - 2 m	Imperfectly Drained	70	7-15 m	Young to Immature Forest	4	Mixed	Imperfectly Drained, Young to Immature Mixed Forest

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
375	300	50 cm - 2 m	Imperfectly Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Imperfectly Drained, Young to Immature Coniferous Forest
375	300	50 cm - 2 m	Imperfectly Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Imperfectly Drained, Young to Immature Coniferous Forest
383	300	50 cm - 2 m	Imperfectly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Imperfectly Drained, Immature to Mature Broadleaf Forest
383	300	50 cm - 2 m	Imperfectly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Imperfectly Drained, Immature to Mature Broadleaf Forest
383	300	50 cm - 2 m	Imperfectly Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Imperfectly Drained, Immature to Mature Broadleaf Forest
384	300	50 cm - 2 m	Imperfectly Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Imperfectly Drained, Immature to Mature Mixed Forest
385	300	50 cm - 2 m	Imperfectly Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Imperfectly Drained, Immature to Mature Coniferous Forest
385	300	50 cm - 2 m	Imperfectly Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Imperfectly Drained, Immature to Mature Coniferous Forest
393	300	50 cm - 2 m	Imperfectly Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Imperfectly Drained, Mature to Very Mature Broadleaf Forest
393	300	50 cm - 2 m	Imperfectly Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Imperfectly Drained, Mature to Very Mature Broadleaf Forest
411	400	2-5 m	Well Drained	10	< 1cm	Groundcover	1	Bare Ground/Moss	Well Drained, Bare Ground/Moss Groundcover
412	400	2-5 m	Well Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Well Drained, Broadleaf/Graminoid Groundcover
412	400	2-5 m	Well Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Well Drained, Broadleaf/Graminoid Groundcover
414	400	2-5 m	Well Drained	10	< 1cm	Groundcover	4	Mixed	Well Drained, Mixed Groundcover
415	400	2-5 m	Well Drained	10	< 1cm	Groundcover	5	Coniferous Dominant	Well Drained, Coniferous Dominant Groundcover
422	400	2-5 m	Well Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Well Drained, Broadleaf/Graminoid Low Growth
422	400	2-5 m	Well Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Well Drained, Broadleaf/Graminoid Low Growth
423	400	2-5 m	Well Drained	20	1-10 cm	Low Growth	3	Broadleaf Dominant	Well Drained, Broadleaf Dominant Low Growth
424	400	2-5 m	Well Drained	20	1-10 cm	Low Growth	4	Mixed	Well Drained, Mixed Low Growth
425	400	2-5 m	Well Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Well Drained, Coniferous Dominant Low Growth
425	400	2-5 m	Well Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Well Drained, Coniferous Dominant Low Growth
432	400	2-5 m	Well Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Well Drained, Broadleaf/Graminoid Low Growth
432	400	2-5 m	Well Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Well Drained, Broadleaf/Graminoid Low Growth
433	400	2-5 m	Well Drained	30	10-25 cm	Low Growth	3	Broadleaf Dominant	Well Drained, Broadleaf Dominant Low Growth
434	400	2-5 m	Well Drained	30	10-25 cm	Low Growth	4	Mixed	Well Drained, Mixed Low Growth
435	400	2-5 m	Well Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Well Drained, Coniferous Dominant Low Growth
435	400	2-5 m	Well Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Well Drained, Coniferous Dominant Low Growth
442	400	2-5 m	Well Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Well Drained, Broadleaf Low Shrub
442	400	2-5 m	Well Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Well Drained, Broadleaf Low Shrub
443	400	2-5 m	Well Drained	40	25-50 cm	Low Shrub	3	Broadleaf	Well Drained, Broadleaf Low Shrub
444	400	2-5 m	Well Drained	40	25-50 cm	Low Shrub	4	Mixed	Well Drained, Mixed Low Shrub
445	400	2-5 m	Well Drained	40	25-50 cm	Low Shrub	5	Coniferous	Well Drained, Coniferous Low Shrub
445	400	2-5 m	Well Drained	40	25-50 cm	Low Shrub	5	Coniferous	Well Drained, Coniferous Low Shrub
452	400	2-5 m	Well Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Well Drained, Broadleaf Low Shrub
452	400	2-5 m	Well Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Well Drained, Broadleaf Low Shrub
453	400	2-5 m	Well Drained	50	50 cm - 2 m	Low Shrub	3	Broadleaf	Well Drained, Broadleaf Low Shrub
454	400	2-5 m	Well Drained	50	50 cm - 2 m	Low Shrub	4	Mixed	Well Drained, Mixed Low Shrub
455	400	2-5 m	Well Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Well Drained, Coniferous Low Shrub
455	400	2-5 m	Well Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Well Drained, Coniferous Low Shrub
463	400	2-5 m	Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Well Drained, Broadleaf High Shrub
463	400	2-5 m	Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Well Drained, Broadleaf High Shrub
463	400	2-5 m	Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Well Drained, Broadleaf High Shrub
464	400	2-5 m	Well Drained	60	2-7 m	High Shrub	4	Mixed	Well Drained, Mixed High Shrub
465	400	2-5 m	Well Drained	60	2-7 m	High Shrub	5	Coniferous	Well Drained, Coniferous High Shrub
465	400	2-5 m	Well Drained	60	2-7 m	High Shrub	5	Coniferous	Well Drained, Coniferous High Shrub

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
472	400	2-5 m	Well Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Well Drained, Young to Immature Broadleaf Forest
472	400	2-5 m	Well Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Well Drained, Young to Immature Broadleaf Forest
473	400	2-5 m	Well Drained	70	7-15 m	Young to Immature Forest	3	Broadleaf	Well Drained, Young to Immature Broadleaf Forest
474	400	2-5 m	Well Drained	70	7-15 m	Young to Immature Forest	4	Mixed	Well Drained, Young to Immature Mixed Forest
475	400	2-5 m	Well Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Well Drained, Young to Immature Coniferous Forest
475	400	2-5 m	Well Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Well Drained, Young to Immature Coniferous Forest
483	400	2-5 m	Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Well Drained, Immature to Mature Broadleaf Forest
483	400	2-5 m	Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Well Drained, Immature to Mature Broadleaf Forest
483	400	2-5 m	Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Well Drained, Immature to Mature Broadleaf Forest
484	400	2-5 m	Well Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Well Drained, Immature to Mature Mixed Forest
485	400	2-5 m	Well Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Well Drained, Immature to Mature Coniferous Forest
485	400	2-5 m	Well Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Well Drained, Immature to Mature Coniferous Forest
493	400	2-5 m	Well Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Well Drained, Mature to Very Mature Broadleaf Forest
493	400	2-5 m	Well Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Well Drained, Mature to Very Mature Broadleaf Forest
493	400	2-5 m	Well Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Well Drained, Mature to Very Mature Broadleaf Forest
511	500	5-15 m	Very Well Drained	10	< 1cm	Groundcover	1	Bare Ground/Moss	Very Well Drained, Bare Ground/Moss Groundcover
512	500	5-15 m	Very Well Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Very Well Drained, Broadleaf/Graminoid Groundcover
512	500	5-15 m	Very Well Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Very Well Drained, Broadleaf/Graminoid Groundcover
514	500	5-15 m	Very Well Drained	10	< 1cm	Groundcover	4	Mixed	Very Well Drained, Mixed Groundcover
515	500	5-15 m	Very Well Drained	10	< 1cm	Groundcover	5	Coniferous Dominant	Very Well Drained, Coniferous Dominant Groundcover
522	500	5-15 m	Very Well Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Very Well Drained, Broadleaf/Graminoid Low Growth
522	500	5-15 m	Very Well Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Very Well Drained, Broadleaf/Graminoid Low Growth
523	500	5-15 m	Very Well Drained	20	1-10 cm	Low Growth	3	Broadleaf Dominant	Very Well Drained, Broadleaf Dominant Low Growth
524	500	5-15 m	Very Well Drained	20	1-10 cm	Low Growth	4	Mixed	Very Well Drained, Mixed Low Growth
525	500	5-15 m	Very Well Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Very Well Drained, Coniferous Dominant Low Growth
525	500	5-15 m	Very Well Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Very Well Drained, Coniferous Dominant Low Growth
532	500	5-15 m	Very Well Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Very Well Drained, Broadleaf/Graminoid Low Growth
532	500	5-15 m	Very Well Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Very Well Drained, Broadleaf/Graminoid Low Growth
533	500	5-15 m	Very Well Drained	30	10-25 cm	Low Growth	3	Broadleaf Dominant	Very Well Drained, Broadleaf Dominant Low Growth
534	500	5-15 m	Very Well Drained	30	10-25 cm	Low Growth	4	Mixed	Very Well Drained, Mixed Low Growth
535	500	5-15 m	Very Well Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Very Well Drained, Coniferous Dominant Low Growth
535	500	5-15 m	Very Well Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Very Well Drained, Coniferous Dominant Low Growth
542	500	5-15 m	Very Well Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Very Well Drained, Broadleaf Low Shrub
542	500	5-15 m	Very Well Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Very Well Drained, Broadleaf Low Shrub
543	500	5-15 m	Very Well Drained	40	25-50 cm	Low Shrub	3	Broadleaf	Very Well Drained, Broadleaf Low Shrub
544	500	5-15 m	Very Well Drained	40	25-50 cm	Low Shrub	4	Mixed	Very Well Drained, Mixed Low Shrub
545	500	5-15 m	Very Well Drained	40	25-50 cm	Low Shrub	5	Coniferous	Very Well Drained, Coniferous Low Shrub
545	500	5-15 m	Very Well Drained	40	25-50 cm	Low Shrub	5	Coniferous	Very Well Drained, Coniferous Low Shrub
552	500	5-15 m	Very Well Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Very Well Drained, Broadleaf Low Shrub
552	500	5-15 m	Very Well Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Very Well Drained, Broadleaf Low Shrub
553	500	5-15 m	Very Well Drained	50	50 cm - 2 m	Low Shrub	3	Broadleaf	Very Well Drained, Broadleaf Low Shrub
554	500	5-15 m	Very Well Drained	50	50 cm - 2 m	Low Shrub	4	Mixed	Very Well Drained, Mixed Low Shrub
555	500	5-15 m	Very Well Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Very Well Drained, Coniferous Low Shrub
555	500	5-15 m	Very Well Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Very Well Drained, Coniferous Low Shrub
563	500	5-15 m	Very Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Very Well Drained, Broadleaf High Shrub

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
563	500	5-15 m	Very Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Very Well Drained, Broadleaf High Shrub
563	500	5-15 m	Very Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Very Well Drained, Broadleaf High Shrub
564	500	5-15 m	Very Well Drained	60	2-7 m	High Shrub	4	Mixed	Very Well Drained, Mixed High Shrub
565	500	5-15 m	Very Well Drained	60	2-7 m	High Shrub	5	Coniferous	Very Well Drained, Coniferous High Shrub
565	500	5-15 m	Very Well Drained	60	2-7 m	High Shrub	5	Coniferous	Very Well Drained, Coniferous High Shrub
572	500	5-15 m	Very Well Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Very Well Drained, Young to Immature Broadleaf Forest
572	500	5-15 m	Very Well Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Very Well Drained, Young to Immature Broadleaf Forest
573	500	5-15 m	Very Well Drained	70	7-15 m	Young to Immature Forest	3	Broadleaf	Very Well Drained, Young to Immature Broadleaf Forest
574	500	5-15 m	Very Well Drained	70	7-15 m	Young to Immature Forest	4	Mixed	Very Well Drained, Young to Immature Mixed Forest
575	500	5-15 m	Very Well Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Very Well Drained, Young to Immature Coniferous Forest
575	500	5-15 m	Very Well Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Very Well Drained, Young to Immature Coniferous Forest
583	500	5-15 m	Very Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Very Well Drained, Immature to Mature Broadleaf Forest
583	500	5-15 m	Very Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Very Well Drained, Immature to Mature Broadleaf Forest
583	500	5-15 m	Very Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Very Well Drained, Immature to Mature Broadleaf Forest
584	500	5-15 m	Very Well Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Very Well Drained, Immature to Mature Mixed Forest
585	500	5-15 m	Very Well Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Very Well Drained, Immature to Mature Coniferous Forest
585	500	5-15 m	Very Well Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Very Well Drained, Immature to Mature Coniferous Forest
593	500	5-15 m	Very Well Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Very Well Drained, Mature to Very Mature Broadleaf Forest
593	500	5-15 m	Very Well Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Very Well Drained, Mature to Very Mature Broadleaf Forest
594	500	5-15 m	Very Well Drained	90	>30 m	Mature to Very Mature Forest	4	Mixed	Very Well Drained, Mature to Very Mature Mixed Forest
611	600	>15 m	Excessively Well Drained	10	< 1cm	Groundcover	1	Bare Ground/Moss	Excessively Well Drained, Bare Ground/Moss Groundcover
612	600	>15 m	Excessively Well Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Excessively Well Drained, Broadleaf/Graminoid Groundcover
612	600	>15 m	Excessively Well Drained	10	< 1cm	Groundcover	2	Broadleaf/Graminoid	Excessively Well Drained, Broadleaf/Graminoid Groundcover
614	600	>15 m	Excessively Well Drained	10	< 1cm	Groundcover	4	Mixed	Excessively Well Drained, Mixed Groundcover
615	600	>15 m	Excessively Well Drained	10	< 1cm	Groundcover	5	Coniferous Dominant	Excessively Well Drained, Coniferous Dominant Groundcover
622	600	>15 m	Excessively Well Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Excessively Well Drained, Broadleaf/Graminoid Low Growth
622	600	>15 m	Excessively Well Drained	20	1-10 cm	Low Growth	2	Broadleaf/Graminoid	Excessively Well Drained, Broadleaf/Graminoid Low Growth
623	600	>15 m	Excessively Well Drained	20	1-10 cm	Low Growth	3	Broadleaf Dominant	Excessively Well Drained, Broadleaf Dominant Low Growth
624	600	>15 m	Excessively Well Drained	20	1-10 cm	Low Growth	4	Mixed	Excessively Well Drained, Mixed Low Growth
625	600	>15 m	Excessively Well Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Excessively Well Drained, Coniferous Dominant Low Growth
625	600	>15 m	Excessively Well Drained	20	1-10 cm	Low Growth	5	Coniferous Dominant	Excessively Well Drained, Coniferous Dominant Low Growth
632	600	>15 m	Excessively Well Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Excessively Well Drained, Broadleaf/Graminoid Low Growth
632	600	>15 m	Excessively Well Drained	30	10-25 cm	Low Growth	2	Broadleaf/Graminoid	Excessively Well Drained, Broadleaf/Graminoid Low Growth
633	600	>15 m	Excessively Well Drained	30	10-25 cm	Low Growth	3	Broadleaf Dominant	Excessively Well Drained, Broadleaf Dominant Low Growth
634	600	>15 m	Excessively Well Drained	30	10-25 cm	Low Growth	4	Mixed	Excessively Well Drained, Mixed Low Growth
635	600	>15 m	Excessively Well Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Excessively Well Drained, Coniferous Dominant Low Growth
635	600	>15 m	Excessively Well Drained	30	10-25 cm	Low Growth	5	Coniferous Dominant	Excessively Well Drained, Coniferous Dominant Low Growth
642	600	>15 m	Excessively Well Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Excessively Well Drained, Broadleaf Low Shrub
642	600	>15 m	Excessively Well Drained	40	25-50 cm	Low Shrub	2	Broadleaf	Excessively Well Drained, Broadleaf Low Shrub
643	600	>15 m	Excessively Well Drained	40	25-50 cm	Low Shrub	3	Broadleaf	Excessively Well Drained, Broadleaf Low Shrub
644	600	>15 m	Excessively Well Drained	40	25-50 cm	Low Shrub	4	Mixed	Excessively Well Drained, Mixed Low Shrub
645	600	>15 m	Excessively Well Drained	40	25-50 cm	Low Shrub	5	Coniferous	Excessively Well Drained, Coniferous Low Shrub
645	600	>15 m	Excessively Well Drained	40	25-50 cm	Low Shrub	5	Coniferous	Excessively Well Drained, Coniferous Low Shrub
652	600	>15 m	Excessively Well Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Excessively Well Drained, Broadleaf Low Shrub
652	600	>15 m	Excessively Well Drained	50	50 cm - 2 m	Low Shrub	2	Broadleaf	Excessively Well Drained, Broadleaf Low Shrub

P-ELC CODE	DEPTH TO WATER (DTW)			CANOPY HEIGHT MODEL (CHM)			LANDCOVER (LC)		OVERALL P-ELC UNIT DESCRIPTION
	DTW Code	Range	Description	CHM Code	Range	Description	LC Code	Description	
653	600	>15 m	Excessively Well Drained	50	50 cm - 2 m	Low Shrub	3	Broadleaf	Excessively Well Drained, Broadleaf Low Shrub
654	600	>15 m	Excessively Well Drained	50	50 cm - 2 m	Low Shrub	4	Mixed	Excessively Well Drained, Mixed Low Shrub
655	600	>15 m	Excessively Well Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Excessively Well Drained, Coniferous Low Shrub
655	600	>15 m	Excessively Well Drained	50	50 cm - 2 m	Low Shrub	5	Coniferous	Excessively Well Drained, Coniferous Low Shrub
663	600	>15 m	Excessively Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Excessively Well Drained, Broadleaf High Shrub
663	600	>15 m	Excessively Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Excessively Well Drained, Broadleaf High Shrub
663	600	>15 m	Excessively Well Drained	60	2-7 m	High Shrub	3	Broadleaf	Excessively Well Drained, Broadleaf High Shrub
664	600	>15 m	Excessively Well Drained	60	2-7 m	High Shrub	4	Mixed	Excessively Well Drained, Mixed High Shrub
665	600	>15 m	Excessively Well Drained	60	2-7 m	High Shrub	5	Coniferous	Excessively Well Drained, Coniferous High Shrub
665	600	>15 m	Excessively Well Drained	60	2-7 m	High Shrub	5	Coniferous	Excessively Well Drained, Coniferous High Shrub
672	600	>15 m	Excessively Well Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Excessively Well Drained, Young to Immature Broadleaf Forest
672	600	>15 m	Excessively Well Drained	70	7-15 m	Young to Immature Forest	2	Broadleaf	Excessively Well Drained, Young to Immature Broadleaf Forest
673	600	>15 m	Excessively Well Drained	70	7-15 m	Young to Immature Forest	3	Broadleaf	Excessively Well Drained, Young to Immature Broadleaf Forest
674	600	>15 m	Excessively Well Drained	70	7-15 m	Young to Immature Forest	4	Mixed	Excessively Well Drained, Young to Immature Mixed Forest
675	600	>15 m	Excessively Well Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Excessively Well Drained, Young to Immature Coniferous Forest
675	600	>15 m	Excessively Well Drained	70	7-15 m	Young to Immature Forest	5	Coniferous	Excessively Well Drained, Young to Immature Coniferous Forest
683	600	>15 m	Excessively Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Excessively Well Drained, Immature to Mature Broadleaf Forest
683	600	>15 m	Excessively Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Excessively Well Drained, Immature to Mature Broadleaf Forest
683	600	>15 m	Excessively Well Drained	80	15-30 m	Immature to Mature Forest	3	Broadleaf	Excessively Well Drained, Immature to Mature Broadleaf Forest
684	600	>15 m	Excessively Well Drained	80	15-30 m	Immature to Mature Forest	4	Mixed	Excessively Well Drained, Immature to Mature Mixed Forest
685	600	>15 m	Excessively Well Drained	80	15-30 m	Immature to Mature Forest	5	Coniferous	Excessively Well Drained, Immature to Mature Coniferous Forest
693	600	>15 m	Excessively Well Drained	90	>30 m	Mature to Very Mature Forest	3	Broadleaf	Excessively Well Drained, Mature to Very Mature Broadleaf Forest

APPENDIX C

Wetland Plot Data

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-001w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.869018 Long (DD) -64.190684 Elevation (m): 188

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4969090 UTM E (m) 405942 Slope (%): 14.9

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☑ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 50								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☐ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm): 5
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	40	YES
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	
5	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
6	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	2	
7	SPIRalba	*Spiraea alba*	White Meadowsweet	S5	FAC	0.1	
8	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
9	RHODcana	*Rhododendron canadense*	Rhodora	S5	FAC	2	
					TOTAL %	79.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	10	
2	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	60	YES
3	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
4							
5							
6							
					TOTAL %	70.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0.1
FACW 72
FAC 72.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.50	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-001u**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.868888 Long (DD) -64.190724 Elevation (m): 191

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4969075 UTM E (m) 405939 Slope (%): 28.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1						45	YES
2							
3							
4							
5							
6							
					TOTAL %	45	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 26 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-002w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.86742071 Long (DD) -64.19091976 Elevation (m): 207

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968913 UTM E (m) 405921 Slope (%): 12.6

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☑ Mixed-wood
  - ☐ Ericaceous
- ☑ Marsh
  - ☑ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Small WL, disturbed, rutted.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 20								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 8
- ☑ High Water Table (A2) Depth (cm): 0
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
2	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	5	YES
3	SALIdisc	*Salix discolor*	Pussy Willow	S5	FAC	0.1	
4	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	5	YES
5	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	0.1	
6	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
7	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	YES
					TOTAL %	22.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	80	YES
2	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	5	
3	GLYCstri	*Glyceria striata*	Fowl Manna Grass	S5	FACW	5	
4							
5							
6							
7							
8							
9							
					TOTAL %	90	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 90
FAC 22.2
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.20	Hydrophtic Vegetation Presen
Dominance Test	120%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 26 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-002u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.86748685 Long (DD) -64.19103706 Elevation (m): 206

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968920 UTM E (m) 405912 Slope (%): 21.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Organic
10 - 20	10YR 3/4						Sandy Loam	
20 - 50 +	10YR 5/3						Loamy Sand	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
4							
5							
6							
					TOTAL %	12	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
5							
6							
					TOTAL %	70	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	40	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
3	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	5	
4							
5							
6							
7							
8							
9							
					TOTAL %	55	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	10	YES
3							
4							
					TOTAL %	50	

OBL 0
FACW 0
FAC 97
FACU 40
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.29	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 26 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-003w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.86814816 Long (DD) -64.19104022 Elevation (m): 201

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968993 UTM E (m) 405913 Slope (%): 6.5

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☑ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 20								Organic
20 - 30	10YR 2/1							
30 +	10YR 5/2	60	10YR 5/6	40			Clay	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☑ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 18
- ☐ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	10	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
5							
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
4	SPIRalba	*Spiraea alba*	White Meadowsweet	S5	FAC	10	
5							
6							
					TOTAL %	75	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	50	YES
2	RUBUhisp	*Rubus hispidus*	Bristly Dewberry	S5	FACW	30	YES
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	5	
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	5	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
6	OXALmont	*Oxalis montana*	Common Wood Sorrel	S5	FAC	2	
7	CARExspec	*Carex sp.*	Unidentified Carex	-	Undetermined	30	YES
8							
9							
					TOTAL %	124	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 30
FAC 189
FACU 15
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.94	Hydrophtic Vegetation Presen
Dominance Test	120%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 26 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-003u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.86817189 Long (DD) -64.191266 Elevation (m): 202

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968996 UTM E (m) 405895 Slope (%): 15.7

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 5								Organic
5 - 12	7.5YR 5/4						Sandy Clay	
12 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	TSUGcana	*Tsuga canadensis*	Eastern Hemlock	S4	FACU	5	
4	ACERspic	*Acer spicatum*	Mountain Maple	S5	FAC	5	
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
6	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	25	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	ACERspic	*Acer spicatum*	Mountain Maple	S5	FAC	5	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
5							
6							
					TOTAL %	45	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	10	
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	60	YES
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	
4	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	5	
5	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	2	
6							
7							
8							
9							
					TOTAL %	82	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 187
FACU 5
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.03	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 26 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-004w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.86749171 Long (DD) -64.19010076 Elevation (m): 201

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968919 UTM E (m) 405986 Slope (%): 10.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
50 +								Organic

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 20
- ☑ High Water Table (A2) Depth (cm): 0
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	25	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	1	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	1	
4							
5							
6							
					TOTAL %	12	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
2	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	20	YES
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	2	
4	OCLEacum	*Oclemena acuminata*	Whorled Wood Aster	S5	FACU	5	
5	LYSIbore	*Lysimachia borealis*	Northern Starflower	S5	FAC	2	
6	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
7							
8							
9							
					TOTAL %	61	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 98
FACU 5
UPL 20

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
16	26	5.2	15

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.37	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 26 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-004u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.86769471 Long (DD) -64.19014556 Elevation (m): 201

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968942 UTM E (m) 405983 Slope (%): 11.1

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 4								Organic
4 - 8	7.5YR 4/3							
8 - 25	7.5YR 4/4							

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	40	YES
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	10	
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
5							
6							
					TOTAL %	75	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	25	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3							
4							
5							
6							
					TOTAL %	45	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC		
2	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU		
3	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC		
4	LYCOinun	*Lycopodiella inundata*	Northern Bog Clubmoss	S5	FACW+		
5	DENDdend	*endrolycopodium dendroideu*	Round-branched Tree-clubmoss	S5	Undetermined		
6	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	YES
7	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	YES
8							
9							
					TOTAL %	0.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 110.1
FACU 10.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.08	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-005w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.866286 Long (DD) -64.18929 Elevation (m): 204

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968785 UTM E (m) 406048 Slope (%): 6.0

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
125 +								Organic

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	YES
5							
6							
					TOTAL %	25	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	30	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	90	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 30
FACW 0
FAC 140
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.65	Hydrophtic Vegetation Presen
Dominance Test	117%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-005u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.866385 Long (DD) -64.189449 Elevation (m): 206

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968796 UTM E (m) 406036 Slope (%): 24.1

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Organic
10 - 20	7.5YR 4/3						Loam	
20 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
5							
6							
					TOTAL %	85	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	40	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	30	YES
3	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
5							
6							
7							
8							
9							
					TOTAL %	70.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	20	YES
2	HYPNimpo	*Hypnum imponens*	Pellucid Plait Moss	S5	-	20	YES
3							
4							
					TOTAL %	40	

OBL 0
FACW 0
FAC 120.1
FACU 45.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.27	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-006w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 30								Organics over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☐ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
4	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	YES
5							
6							
					TOTAL %	55	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	35	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	60	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	40	YES
2	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	40	YES
3	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	40	YES
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	2	
6							
7							
8							
9							
					TOTAL %	132	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 105
FAC 122
FACU 20
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.66	Hydrophtic Vegetation Presen
Dominance Test	140%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-006u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 -12								Organic
12 - 18	10YR 5/2						Loam	
18 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
4	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	5	
5	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
6	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
					TOTAL %	95	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	50	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
3	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	10	
4	SPINanno	*Spinulum annotinum*	Stiff Clubmoss	S5	FAC	0.1	
5	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
6	OCLEacum	*Oclemena acuminata*	Whorled Wood Aster	S5	FACU	0.1	
7							
8							
9							
					TOTAL %	62.3	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	20	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	10	YES
3							
4							
					TOTAL %	30	

OBL 0
FACW 0
FAC 112.2
FACU 50.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.31	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-007w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.862329 Long (DD) -64.190685 Elevation (m): 192

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968347 UTM E (m) 405931 Slope (%): 4.1

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 50								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 2
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
4							
5							
6							
					TOTAL %	60	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC		
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC		
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	50	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	15	
5	SPINanno	*Spinulum annotinum*	Stiff Clubmoss	S5	FAC	1	
6	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	5	
7							
8							
12							
					TOTAL %	101.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	40	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	30	YES
3	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	10	
4							
					TOTAL %	80	

OBL 65
FACW 0
FAC 91.1
FACU 0
UPL 5

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
6.8	16	4.99	8

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.26	Hydrophtic Vegetation Presen
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-007u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.862613 Long (DD) -64.190449 Elevation (m): 194

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968378 UTM E (m) 405950 Slope (%): 12.4

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-008w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.860198 Long (DD) -64.190314 Elevation (m): 185

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968109 UTM E (m) 405957 Slope (%): 5.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes: Buffer partly harvested

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 125+								Organic

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 5
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	20	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	30	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	50	YES
3	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	10	
4							
					TOTAL %	90	

OBL 20
FACW 15
FAC 135
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
5.6	40	4.14	21

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.68	Hydrophtic Vegetation Presen
Dominance Test	175%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-008u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.860284 Long (DD) -64.190424 Elevation (m): 187

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968119 UTM E (m) 405949 Slope (%): 17.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Nathan Hill, Lydia Giffin

Plot ID: **BL-WL-009w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.85974823 Long (DD) -64.18965791 Elevation (m): 186

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968059 UTM E (m) 406008 Slope (%): 5.5

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	0.1	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	YES
5							
6							
					TOTAL %	20.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	0.1	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	30.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
					TOTAL %	0	

OBL 0.1
FACW 0
FAC 115.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 23 2022

Wetland Evaluator(s): Nathan Hill, Lydia Giffin

Plot ID: **BL-WL-009u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.859745 Long (DD) -64.1895 Elevation (m): 187

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4968058 UTM E (m) 406021 Slope (%): 7.9

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-010w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-010u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-011w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-011u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-012w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-012u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-013w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	10	
5							
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	0.1	
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	0.1	
5							
6							
					TOTAL %	20.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	EQUIspec	*Equisetum sp.*	a Horsetail	-	-	0.1	
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	5	YES
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
4	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	0.1	
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
6	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
7							
8							
9							
					TOTAL %	5.5	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0.1
FAC 80.5
FACU 10
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.11	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-013u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	80	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	90	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	0.1	YES
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-		
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 100
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 27 2022

Wetland Evaluator(s): Ian Bryson, Lydia Giffin

Plot ID: **BL-WL-014w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.848239 Long (DD) -64.194264 Elevation (m): 158

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966786 UTM E (m) 405626 Slope (%): 4.8

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
> 60								Organic

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 6
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	0.1	
3							
4							
5							
6							
					TOTAL %	15.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	50	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
					TOTAL %	70.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	80	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	
3	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	
4							
					TOTAL %	95	

OBL 20
FACW 0
FAC 145.2
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
15.5	34	4.4	17

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.76	Hydrophtic Vegetation Presen
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 27 2022

Wetland Evaluator(s): Ian Bryson, Lydia Giffin

Plot ID: **BL-WL-014u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.848264 Long (DD) -64.19454 Elevation (m): 160

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966789 UTM E (m) 405604 Slope (%): 5.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 12								Organic
12 - 14	7.5YR 3/3						Silt Loam	
14 - 21	7.5YR 4/3						Silt Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	YES
2	OXALmont	*Oxalis montana*	Common Wood Sorrel	S5	FAC	0.1	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	50	YES
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	10	
3	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	20	YES
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 90.2
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-015w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-015u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 27 2022

Wetland Evaluator(s): Ian Bryson, Lydia Giffin

Plot ID: **BL-WL-016w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.84596671 Long (DD) -64.19642676 Elevation (m): 162

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966536 UTM E (m) 405451 Slope (%): 3.9

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 15								Organic
15 - 26	7.5YR 3/2						Silt	
26 - 35	7.5YR 5/3						Silt Loam	
35 - 45	7.5YR 4/2	50	7.5YR 5/4	50			Silt	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 6
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	10	
5	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	5	
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	5	YES
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	1	
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
3	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	10	
4	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
5	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	15	YES
6	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
7	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
8	DRYOcris	*Dryopteris cristata*	Crested Wood Fern	S5	FACW	0.1	
9							
					TOTAL %	61.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	50	YES
2	THUIdeli	*Thuidium delicatulum*	Delicate Fern Moss	S5	-	10	
3	SPHAcapi	*Sphagnum capillifolium*	Northern Peatmoss	S5	-	5	
4	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	2	
					TOTAL %	67	

OBL 0
FACW 25.1
FAC 106.1
FACU 10
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.89	Hydrophtic Vegetation Presen
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 27 2022

Wetland Evaluator(s): Ian Bryson, Lydia Giffin

Plot ID: **BL-WL-016u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.84594966 Long (DD) -64.19615259 Elevation (m): 163

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966533 UTM E (m) 405473 Slope (%): 14.1

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 45	7.5YR 4/4						Loam	Suspect topsoil fill from road/building

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
4	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	5	
5							
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
2	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
3	QUERrubr	*Quercus rubra*	Northern Red Oak	S5	FACU	5	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
5	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	10	
6							
					TOTAL %	55	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	50	YES
2	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	30	YES
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	5	
4							
5							
6							
7							
8							
9							
					TOTAL %	85	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 110
FACU 60
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.35	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-017w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-017u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-018w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-018u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 27 2022

Wetland Evaluator(s): Ian Bryson, Lydia Giffin

Plot ID: **BL-WL-019w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.84404008 Long (DD) -64.19786285 Elevation (m): 160

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966323 UTM E (m) 405334 Slope (%): 4.3

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 50+								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 20
- ☑ High Water Table (A2) Depth (cm): 0
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	25	YES
3	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
4							
5							
6							
					TOTAL %	55	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	2	
5							
6							
					TOTAL %	57	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	15	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	25	YES
4	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	5	
5							
6							
7							
8							
9							
					TOTAL %	55	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 10
FACW 55
FAC 102
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
16	34	4.1	16

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.55	Hydrophtic Vegetation Presen
Dominance Test	175%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 27 2022

Wetland Evaluator(s): Ian Bryson, Lydia Giffin

Plot ID: **BL-WL-019u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.84392571 Long (DD) -64.19773776 Elevation (m): 161

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966310 UTM E (m) 405344 Slope (%): 17.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Organic
10 - 20	7.5YR 5/2						Sandy Loam	
20 - 33	7.5YR 4/4						Loam	
33 - 55	7.5YR 3/4						Loam	
59 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	YES
3							
4							
5							
6							
					TOTAL %	4	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	25	YES
2	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	25.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	30	YES
2	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-	5	
3	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	YES
4							
					TOTAL %	45	

OBL 0
FACW 0
FAC 69.1
FACU 25
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.27	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: 0

Wetland Evaluator(s): 0

Plot ID: **BL-WL-020w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.84213271 Long (DD) -64.19922576 Elevation (m): 164

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966113 UTM E (m) 405223 Slope (%): 5.5

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☑ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 40								Organic over bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) — Depth (cm):
- ☑ High Water Table (A2) — Depth (cm): 39
- ☑ Saturation (A3) — Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	2	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	17	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	0.1	
5	RUBUspec	*Rubus sp.*	a Blackberry	-	-	5	
6							
					TOTAL %	27.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	60	YES
2	Grasses					20	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	20	YES
2							
3							
4							
					TOTAL %	20	

OBL 0
FACW 62
FAC 37
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4	38	7.1	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.38	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: 0

Wetland Evaluator(s): 0

Plot ID: **BL-WL-020u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.84222871 Long (DD) -64.19933376 Elevation (m): 164

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4966124 UTM E (m) 405215 Slope (%): 8.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 29								Organic
29 - 31	5YR 3/4						Silt	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	15	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	2	
5	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
6							
					TOTAL %	34	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	0.1	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	0.1	
5	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	5	YES
6							
					TOTAL %	20.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	70	YES
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	70	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 52.1
FACU 72.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.58	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-021w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-021u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-022w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-022u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-023w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☑ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 27								Peat over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 12
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
2	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	35	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	1	
3	RUBUhisp	*Rubus hispidus*	Bristly Dewberry	S5	FACW	0.1	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	
5							
6							
7							
8							
9							
					TOTAL %	38.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	75	YES
2							
3							
4							
					TOTAL %	75	

OBL 1
FACW 0.1
FAC 82
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
7.8	23	5.91	10

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.97	Hydrophtic Vegetation Presen
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-023u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 9								Peat
9 - 51	10YR 4/2						Loamy Sand	Rock refusal

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	YES
3	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	1	
3	PRUNvirg	*Prunus virginiana*	Chokecherry	S5	FAC	2	YES
4	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	1	
5							
6							
					TOTAL %	6	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
2	MAIAcana	*Maianthemum canadense*	Wild Lily-of-The-Valley	S5	FAC	0.1	
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
5	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	3	YES
6							
7							
8							
9							
					TOTAL %	3.4	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	YES
2							
3							
4							
					TOTAL %	10	

OBL 0
FACW 0
FAC 56.4
FACU 0
UPL 3

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.10	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-024w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-024u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-025w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 9								Organic
9 - 23	2.5YR 2.5/1	100					Silt Loam	
23 - 52	2.5YR 2.5/1	100					Silty Clay Loam	Refusal at bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) — Depth (cm):
- ☑ High Water Table (A2) — Depth (cm): 30
- ☐ Saturation (A3) — Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
3	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	2	
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	2	
5	TSUGcana	*Tsuga canadensis*	Eastern Hemlock	S4	FACU	2	
6	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
					TOTAL %	33	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	50	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 119
FACU 4
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.03	Non-Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-025u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 7								Organic
7 - 40	7.5YR 4/3	100					Silt Loam	Refusal at bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	25	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
4	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	0.1	
5							
6							
					TOTAL %	30.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	FRAGspec	*Fragaria sp.*	a Strawberry	-	-	2	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	YES
3	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	2	YES
4							
5							
6							
7							
8							
9							
					TOTAL %	6	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 59
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Non-Hydrophtic Vegetation
Dominance Test	120%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-026w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-026u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: 0

Wetland Evaluator(s): 0

Plot ID: **BL-WL-027w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.83660071 Long (DD) -64.20834675 Elevation (m): 172

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4965509 UTM E (m) 404493 Slope (%): 7.0

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 5								Peat
5 - 30	10YR 3/2						Clay Loam	
30 - 33	10YR 4/3						Clay Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm):20
- ☑ Saturation (A3) Depth (cm): 25
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
2	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	1	YES
2							
3							
4							
5							
6							
					TOTAL %	1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
2	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	40	YES
3	OSMUcinn	*Osmundastrum cinnamomeun*	Cinnamon Fern	S5	FAC	2	
4	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	1	
5	CAREintu	*Carex intumescens*	Bladder Sedge	S5	FAC	0.1	
6							
7							
8							
9							
					TOTAL %	44.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 40.1
FACU 5
UPL 40

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.4	58	5.9	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	4.00	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: 0

Wetland Evaluator(s): 0

Plot ID: **BL-WL-027u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.83655971 Long (DD) -64.20836875 Elevation (m): 172

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4965505 UTM E (m) 404492 Slope (%): 8.7

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 3								Organic
3 - 53	7.5YR 4/4						Sandy Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	25	YES
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	15	YES
4							
5							
6							
					TOTAL %	45	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
2	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	30	YES
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
					TOTAL %	50.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 25.1
FACU 40
UPL 30

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	4.05	Non-Hydrophtic Vegetation
Dominance Test	50%	Non-Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-028w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-028u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-029w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-029u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-030w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.80330793 Long (DD) -64.19150457 Elevation (m): 174

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4961791 UTM E (m) 405770 Slope (%): 7.8

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Clear cut, plantation, rutting.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 30								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 5
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	20	YES
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
6	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	2	
					TOTAL %	69	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
2	CAREdisp	*Carex disperma*	Two-seeded Sedge	S5	FACW	20	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	70	YES
2							
3							
4							
					TOTAL %	70	

OBL 0
FACW 30
FAC 114
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
10.3	42	4.16	21

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.79	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-030u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.80324299 Long (DD) -64.19166028 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4961784 UTM E (m) 405758 Slope (%): 19.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested; plantation.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 6								Organic
6 - 10	7.5YR 5/2						Sandy Loam	
10 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	5	
4	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
6							
					TOTAL %	85	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	40	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	50	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	70	YES
2							
3							
4							
					TOTAL %	70	

OBL 0
FACW 0
FAC 105
FACU 40
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.28	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-031w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-031u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-032w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.79336123 Long (DD) -64.19097627 Elevation (m): 195

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960686 UTM E (m) 405796 Slope (%): 12.4

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-032u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.79340602 Long (DD) -64.19125047 Elevation (m): 197

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960691 UTM E (m) 405774 Slope (%): 11.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-033w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.79115532 Long (DD) -64.19177685 Elevation (m): 196

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960442 UTM E (m) 405729 Slope (%): 3.1

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

WC associated, buffer harvested, WL partly harvested

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 50								Organic over gravel

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) — Depth (cm): 15
- ☐ High Water Table (A2) — Depth (cm):
- ☑ Saturation (A3) — Depth (cm): 5
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		10	YES
3							
4							
5							
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL		
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC		
3	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC		
4	OSMUcinn	*Osmundastrum cinnamomeun*	Cinnamon Fern	S5	FAC		
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL		
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	20	YES
2	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	60	YES
3	SPHAcapi	*Sphagnum capillifolium*	Northern Peatmoss	S5	-	10	
4							
					TOTAL %	90	

OBL 0
FACW 10
FAC 90
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.5	42	4.12	21

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.90	Hydrophtic Vegetation Presen
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-033u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.791574 Long (DD) -64.191882 Elevation (m): 197

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960488 UTM E (m) 405721 Slope (%): 5.1

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-034w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.79013472 Long (DD) -64.21509275 Elevation (m): 242

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960356 UTM E (m) 403883 Slope (%): 5.6

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-034u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.79039438 Long (DD) -64.21519731 Elevation (m): 243

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960385 UTM E (m) 403875 Slope (%): 10.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-035w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-035u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-036w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78885472 Long (DD) -64.21495875 Elevation (m): 234

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960213 UTM E (m) 403892 Slope (%): 4.7

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 24								Organic
24 - 29	10YR 4/2						Sand	
29 - 36	10YR 4/4						Sand	
36 - 50	10YR 5/4						Sand	
50 +								Refusal, hardpan?

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3							
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC	2	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	1	
5	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	0.1	
6							
					TOTAL %	28.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
2	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	50	YES
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	0.1	
5							
6							
7							
8							
9							
					TOTAL %	80.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0.1
FACW 15
FAC 93.2
FACU 0
UPL 50

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.54	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-036u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78883272 Long (DD) -64.21470275 Elevation (m): 236

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960210 UTM E (m) 403912 Slope (%): 18.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 8								Organic/humus
8 - 24	5YR 3/3						Sandy Loam	with organics
24 - 30	5YR 3/3						Sandy Loam	
30 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	2	
4	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		1	
5	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	1	
6							
					TOTAL %	24	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	10	YES
2	LYSIbore	*Lysimachia borealis*	Northern Starflower	S5	FAC	2	
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
4	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	1	
5	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	1	
6	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
7							
8							
9							
					TOTAL %	16.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	40	YES
3							
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 99.1
FACU 10
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.09	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-037w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-037u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-038w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78835172 Long (DD) -64.21389075 Elevation (m): 241

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960156 UTM E (m) 403975 Slope (%): 6.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-038u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78825572 Long (DD) -64.21377875 Elevation (m): 243

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960145 UTM E (m) 403984 Slope (%): 14.7

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-039w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-039u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-040w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78760872 Long (DD) -64.21325775 Elevation (m): 243

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960073 UTM E (m) 404024 Slope (%): 7.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-040u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78769282 Long (DD) -64.21332198 Elevation (m): 244

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960082 UTM E (m) 404019 Slope (%): 9.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 20 2022

Wetland Evaluator(s): Ian Bryson, Amanda Coldham

Plot ID: **BL-WL-041w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78766914 Long (DD) -64.2097297 Elevation (m): 258

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960075 UTM E (m) 404303 Slope (%): 6.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 20 2022

Wetland Evaluator(s): Ian Bryson, Amanda Coldham

Plot ID: **BL-WL-041u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.787538 Long (DD) -64.209597 Elevation (m): 259

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4960061 UTM E (m) 404314 Slope (%): 7.9

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-042w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-042u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-043w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78525807 Long (DD) -64.19178577 Elevation (m): 213

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959787 UTM E (m) 405719 Slope (%): 9.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☑ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 30								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 5
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	20	YES
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
6	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	2	
					TOTAL %	69	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	70	YES
2							
3							
4							
					TOTAL %	70	

OBL 20
FACW 10
FAC 114
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
10.3	42	4.16	21

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.65	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-043u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78513451 Long (DD) -64.19180158 Elevation (m): 214

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959773 UTM E (m) 405717 Slope (%): 10.5

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 6								Organic
6 - 10	7.5YR 5/2						Sandy Loam	
10 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	5	
4	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	5	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
6							
					TOTAL %	85	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	40	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	50	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	70	YES
2							
3							
4							
					TOTAL %	70	

OBL 0
FACW 0
FAC 105
FACU 40
UPL 0

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.28	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-044w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-044u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-045w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78482755 Long (DD) -64.21328483 Elevation (m): 229

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959764 UTM E (m) 404017 Slope (%): 4.9

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine

Plot ID: **BL-WL-045u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78482958 Long (DD) -64.21309392 Elevation (m): 230

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959764 UTM E (m) 404032 Slope (%): 10.6

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-046w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78378306 Long (DD) -64.19260292 Elevation (m): 220

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959624 UTM E (m) 405652 Slope (%): 8.2

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 25								Organic over gravel

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 20
- ☑ High Water Table (A2) Depth (cm): 0
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
2	RHODcana	*Rhododendron canadense*	Rhodora	S5	FAC	15	YES
3	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	2	
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
6	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
7	SPIRtome	*Spiraea tomentosa*	Steeplebush	S5	FAC	2	
8	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
					TOTAL %	38	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	20	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	15	YES
3	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	1	
4	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
5	CALApick	*Calamagrostis pickeringii*	Pickering's Reed Grass	S5	OBL	5	
6							
9							
					TOTAL %	41.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	40	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	40	YES
3							
4							
					TOTAL %	80	

OBL 20.1
FACW 23
FAC 36
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.6	40	4.42	20

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.20	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-046u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78383119 Long (DD) -64.1927527 Elevation (m): 220

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959629 UTM E (m) 405640 Slope (%): 5.7

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Plantation, thinned.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 8								Organic
8 - 15	7.5YR 3/1							
15 +								Bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	30	YES
3							
4							
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
5							
6							
					TOTAL %	52	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	60	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	
3							
4							
5							
6							
					TOTAL %	65	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	60	YES
2	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	10	
3	DICRpoly	*Dicranum polysetum*	Wavy-leaved Broom Moss	S5	-	2	
4	SPHAcapi	*Sphagnum capillifolium*	Northern Peatmoss	S5	-	10	
5	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-	10	
					TOTAL %	92	

OBL 0
FACW 30
FAC 67
FACU 60
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.19	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **BL-WL-047w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.783883 Long (DD) -64.190148 Elevation (m): 211

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959632 UTM E (m) 405846 Slope (%): 4.1

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 30								Peat
30 - 40	7.5YR 2.5/1						Silt	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 15
- ☐ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	50	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	0.1	
4							
5							
6							
					TOTAL %	60.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
2	CARErisp	*Carex trisperma*	Three-seeded Sedge	S5	OBL	0.1	
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
					TOTAL %	20.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
					TOTAL %	0	

OBL 0.1
FACW 0
FAC 80.2
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 17 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **BL-WL-047u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.783711 Long (DD) -64.190455 Elevation (m): 214

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959613 UTM E (m) 405822 Slope (%): 9.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 5								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	
5							
6							
					TOTAL %	55.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	10	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	0.1	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	10.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 55.2
FACU 10
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.15	Non-Hydrophtic Vegetation
Dominance Test	67%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-048w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.78143035 Long (DD) -64.19174609 Elevation (m): 217

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959361 UTM E (m) 405716 Slope (%): 6.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☑ Mixed-wood
  - ☐ Ericaceous
- ☑ Marsh
  - ☑ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Disturbed but perhaps not entirely anthropogenic.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 15								Organic
15 - 40	7.5YR 4/2						Clay Loam	
40 - 60	7.5YR 4/3						Clay Loam	
60 +								End

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) — Depth (cm): 10
- ☐ High Water Table (A2) — Depth (cm):
- ☑ Saturation (A3) — Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	RHODcana	*Rhododendron canadense*	Rhodora	S5	FAC	5	
2	SPIRtome	*Spiraea tomentosa*	Steeplebush	S5	FAC	5	
3	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
5	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	5	
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	60	YES
2	GLYCstri	*Glyceria striata*	Fowl Manna Grass	S5	FACW	30	YES
3	GALIpalu	*Galium palustre*	Common Marsh Bedstraw	S5	FACW+	0.1	
4	CAREluri	*Carex lurida*	Sallow Sedge	S5	OBL	5	
5	EUTHgram	*Euthamia graminifolia*	Grass-leaved Goldenrod	S5	FAC	2	
6							
7							
8							
9							
					TOTAL %	97.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 5
FACW 95
FAC 27
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.17	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): I

Plot ID: **BL-WL-048u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.78133466 Long (DD) -64.19159538 Elevation (m): 217

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959351 UTM E (m) 405727 Slope (%): 14.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Probably fill area over wetland, early successional.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 15	7.5YR 2.5/3						Sandy Loam	
15 - 50	7.5YR 3/3						Sandy Loam	
50 -55 +								Buried organics

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	30	YES
2	POPUtrem	*Populus tremuloides*	Trembling Aspen	S5	FAC	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
5							
6							
					TOTAL %	60	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	YES
3	RUBUalle	*Rubus allegheniensis*	Alleghaney Blackberry	S5	FACU	1	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
5							
6							
					TOTAL %	13	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	70	YES
2	SYMPlate	*Symphyotrichum lateriflorum*	Calico Aster	S5	FAC	0.1	
3	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	5	
4	SOLIcana	*Solidago canadensis*	Canada Goldenrod	S4S5	FAC	5	
5							
6							
7							
8							
9							
					TOTAL %	80.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 52.1
FACU 101
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.66	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-049w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-049u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-050w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-050u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-051w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-051u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Beth Cameron, Nathan Hill

Plot ID: **BL-WL-052w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.77946672 Long (DD) -64.20281076 Elevation (m): 239

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959156 UTM E (m) 404837 Slope (%): 5.5

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Area previously cleared, large logs remaining.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 45								Peat over rock refusal

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	4	YES
2							
3							
4							
5							
6							
					TOTAL %	4	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	3	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	3	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	16	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	LYSIbore	*Lysimachia borealis*	Northern Starflower	S5	FAC	0.1	
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
3	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	0.5	
4	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	2	YES
5							
6							
7							
8							
9							
					TOTAL %	7.6	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
					TOTAL %	100	

OBL 0
FACW 2
FAC 25.6
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.93	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: OCT 14 2022

Wetland Evaluator(s): Beth Cameron, Nathan Hill

Plot ID: **BL-WL-052u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.77940172 Long (DD) -64.20279576 Elevation (m): 238

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959149 UTM E (m) 404838 Slope (%): 4.7

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 20								Organic over bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	100	YES
3							
4							
5							
6							
					TOTAL %	105	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 105
FACU 0
UPL 0

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-053w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.778638 Long (DD) -64.192027 Elevation (m): 204

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959051 UTM E (m) 405689 Slope (%): 6.1

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Buffer harvested, mixed age, watercourse.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 50								Organic
50 - 60	7.5YR 2.5/1						Silt	
60 - 65	5YR 4/1						Sand	End, no refusal

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 20
- ☑ High Water Table (A2) Depth (cm): 2
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	1	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	41	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL		
2	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	40	YES
3	OSMUcinn	*Osmundastrum cinnamomeun*	Cinnamon Fern	S5	FAC	30	YES
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	5	
5							
6							
7							
8							
9							
					TOTAL %	75	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	40	YES
2	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	40	YES
3							
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 126
FACU 0
UPL 40

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.7	39	4.08	20

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.48	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-053u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.778777 Long (DD) -64.191905 Elevation (m): 205

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4959067 UTM E (m) 405699 Slope (%): 9.9

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Cutover

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 8								Humus
8 - 10	7.5YR 4/3						Sandy Loam	
10 - 30	5YR 3/3						Loam	
30 - 50	5YR 3/2						Loam	
50 +								End, no refusal

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4	PRUNsero	*Prunus serotina*	Black Cherry	S5	FAC	10	
5	RUBUalle	*Rubus allegheniensis*	Alleghaney Blackberry	S5	FACU	15	YES
6	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	5	
					TOTAL %	60	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	50	YES
2	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	
3	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	1	
4	OCLEnemo	*Oclemena nemoralis*	Bog Aster	S5	OBL	0.1	
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
6	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
7							
8							
9							
					TOTAL %	51.4	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	15	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-		
3							
4							
					TOTAL %	15	

OBL 0.1
FACW 1
FAC 95.2
FACU 15.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.12	Non-Hydrophtic Vegetation
Dominance Test	50%	Non-Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-054w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-054u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-055w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☑ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 8								Peat over bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 10
- ☐ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	3	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	1	YES
3							
4							
5							
6							
					TOTAL %	4	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	15	YES
2	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	0.1	
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
5							
6							
7							
8							
9							
					TOTAL %	15.3	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0.1
FACW 15
FAC 9.2
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.37	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-055u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 5								Organic
5 - 12	7.5YR 4/2							Refusal at bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	3	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	1	
4							
5							
6							
					TOTAL %	34	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	20	YES
2	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	5	
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	2	
4	RHODgroe	*Rhododendron groenlandicum*	Common Labrador Tea	S5	FACW+	0.5	
5							
6							
7							
8							
9							
					TOTAL %	27.5	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 66
FACU 5
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.07	Non-Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-056w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.77551043 Long (DD) -64.19070407 Elevation (m): 187

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958702 UTM E (m) 405789 Slope (%): 16.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-056u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.77556603 Long (DD) -64.19085444 Elevation (m): 190

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958709 UTM E (m) 405777 Slope (%): 24.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-057w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-057u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-058w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.77359 Long (DD) -64.193046 Elevation (m): 187

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958492 UTM E (m) 405600 Slope (%): 17.2

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested; partially excavated for landing; sloping; no surface water.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 20								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	60	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	10	
4	TSUGcana	*Tsuga canadensis*	Eastern Hemlock	S4	FACU	2	
5	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		2	
6							
					TOTAL %	84	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
4	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
5							
6							
7							
8							
9							
					TOTAL %	70.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	90	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	5	
3	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	5	
4							
					TOTAL %	100	

OBL 0
FACW 0
FAC 150.2
FACU 2
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.01	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-058u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.773589 Long (DD) -64.192899 Elevation (m): 186

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958492 UTM E (m) 405612 Slope (%): 11.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 8								Organic
8 - 20	7.5YR 5/3						Silt Loam	
20 - 40	7.5YR 3/3						Silt Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
2							
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	60	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	10	
4							
5							
6							
					TOTAL %	90	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DENNpunc	*Dennstaedtia punctilobula*	Eastern Hay-Scented Fern	S5	FAC	1	
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
3	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
					TOTAL %	6.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	60	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	20	YES
3							
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 111.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-059w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.773419 Long (DD) -64.190715 Elevation (m): 174

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958470 UTM E (m) 405784 Slope (%): 4.9

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☑ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 85								Organic over gravel

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ High Water Table (A2) Depth (cm): 2
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☑ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4							
5							
6							
					TOTAL %	35	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	20	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	50	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
3	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	5	
4	CAREcrin	*Carex crinita*	Fringed Sedge	S5	OBL	10	
5							
6							
7							
8							
9							
					TOTAL %	85	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	80	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	10	
3							
4							
					TOTAL %	90	

OBL 30
FACW 5
FAC 105
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.54	Hydrophtic Vegetation Presen
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 16 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-059u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.77330168 Long (DD) -64.19102123 Elevation (m): 175

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958458 UTM E (m) 405760 Slope (%): 7.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Humus
10 - 18	5YR 4/2						Sandy Loam	
18 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	25	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	1	
4							
5							
6							
					TOTAL %	46	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	11	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	30	YES
2	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	10	
3	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	20	YES
4							
					TOTAL %	60	

OBL 0
FACW 0
FAC 127
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	**Cond (µs/cm)**	**pH**	**TDS (ppm)**

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-060w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.771895 Long (DD) -64.19495 Elevation (m): 189

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958306 UTM E (m) 405447 Slope (%): 4.0

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☑ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested, rutted.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 40								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☐ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm):0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	20	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	2	
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	10	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
6	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	10	
7	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
					TOTAL %	59	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
3	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	10	YES
4	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	0.1	
5	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	0.1	
6							
7							
8							
9							
					TOTAL %	35.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAmage	*Sphagnum magellanicum*	Magellan's Peat Moss	S5	-	30	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	20	YES
3	SPHAcapi	*Sphagnum capillifolium*	Northern Peatmoss	S5	-	30	YES
4	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	10	
					TOTAL %	90	

OBL 20
FACW 20.1
FAC 49
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.33	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-060u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.77199348 Long (DD) -64.19500122 Elevation (m): 189

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958317 UTM E (m) 405443 Slope (%): 6.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested, planted and regenerating.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 15								Organic
15 - 20	5YR 5/2							

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
2	LARIlari	*Larix laricina*	Tamarack	S5	FAC	0.1	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
4	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	YES
5	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC	5	
6	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	0.1	
7	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
					TOTAL %	40.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	75	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	5	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 10
FAC 35.2
FACU 75
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.54	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-061w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.770563 Long (DD) -64.195069 Elevation (m): 187

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958158 UTM E (m) 405435 Slope (%): 4.3

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☑ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Intact wetland, harvested buffer.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 40								Organic over rock.

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4							
5							
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	1	
6							
					TOTAL %	31	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	70	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	
3	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	2	
4							
5							
6							
7							
8							
9							
					TOTAL %	77	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 166
FACU 0
UPL 2

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.02	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-061u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.770698 Long (DD) -64.194922 Elevation (m): 188

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958173 UTM E (m) 405447 Slope (%): 11.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested, planted and regenerating.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Organic
10 - 18	7.5YR 5/3						Sand	
18 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	25	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC		
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC		
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC		
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	40	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
3	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	1	
4	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	
5							
6							
7							
8							
9							
					TOTAL %	51.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 36
FACU 40.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.53	Non-Hydrophtic Vegetation
Dominance Test	300%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **BL-WL-062w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.769348 Long (DD) -64.193897 Elevation (m): 186

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958022 UTM E (m) 405526 Slope (%): 8.9

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC	5	
5	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
6							
					TOTAL %	60	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
2	CARE tris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	0.1	
3	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	0.1	
4	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	
5	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
6	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	0.1	
7							
8							
9							
					TOTAL %	20.5	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0.1
FACW 20.1
FAC 60.2
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.6	22	4.5	13

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.75	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **BL-WL-062u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.7693478 Long (DD) -64.19383715 Elevation (m): 187

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4958022 UTM E (m) 405531 Slope (%): 12.5

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 5	5YR 2.5/1							
5 - 10	5YR 5/3							
10 - 20	5YR 4/6							

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	PICEglau	*Picea glauca*	White Spruce	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	
5							
6							
					TOTAL %	30.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	10	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	2	
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
4							
5							
6							
7							
8							
9							
					TOTAL %	14	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	CLADspec	*Cladonia sp.*	Unidentified Cladonia	-	-		
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 84.1
FACU 10
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.11	Non-Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-063w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-063u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-064w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.766196 Long (DD) -64.192899 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957670 UTM E (m) 405600 Slope (%): 8.1

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested, ruts, no visible surface water.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 100								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 15
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☑ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	2	
4	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC	5	
5	RHODgroe	*Rhododendron groenlandicum*	Common Labrador Tea	S5	FACW+	2	
6	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	2	
					TOTAL %	71	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*		S5	FACW	50	YES
2	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	20	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	70	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	70	YES
2							
3							
4							
					TOTAL %	70	

OBL 0
FACW 52
FAC 67
FACU 20
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.77	Hydrophtic Vegetation Presen
Dominance Test	75%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-064u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.766416 Long (DD) -64.192852 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957695 UTM E (m) 405604 Slope (%): 7.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Humus
10 - 15	7.5YR 3/2						Sand	
15 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
4	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	10	
5	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	2	
6	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	0.1	
					TOTAL %	87.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	50	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	55	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 102.1
FACU 50
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.33	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-065w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-065u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 16 2022

Wetland Evaluator(s): Ian Bryson, Chris Thorpe

Plot ID: **BL-WL-066w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.76415273 Long (DD) -64.21115276 Elevation (m): 225

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957465 UTM E (m) 404152 Slope (%): 4.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☑ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 50								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 5
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
2	LARIlari	*Larix laricina*	Tamarack	S5	FAC	10	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		40	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	2	
4	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	5	
5							
6							
					TOTAL %	67	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	65	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	70	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	10	
3							
4							
					TOTAL %	80	

OBL 5
FACW 5
FAC 132
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.89	Hydrophtic Vegetation Presen
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 16 2022

Wetland Evaluator(s): Ian Bryson, Chris Thorpe

Plot ID: **BL-WL-066u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.76421673 Long (DD) -64.21094776 Elevation (m): 225

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957472 UTM E (m) 404168 Slope (%): 4.5

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 5								Organic
5 - 8	7.5YR 4/2						Sandy Loam	
8 - 20	7.5YR 3/4						Sandy Loam	
20 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	70	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4							
5							
6							
					TOTAL %	85	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	25	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	YES
2	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	1	
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	5	YES
4							
5							
6							
7							
8							
9							
					TOTAL %	16	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 126
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	120%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-067w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-067u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-068w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.766925 Long (DD) -64.19329 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957752 UTM E (m) 405570 Slope (%): 9.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested, ruts in some locations. Extensive groundwater seepage at base of slope.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 55								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	25	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	25	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	5	
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	15	
5	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC	5	
6	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
7	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	2	
					TOTAL %	79	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	30	YES
3	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	2	
4	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
6							
7							
8							
9							
					TOTAL %	53.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
					TOTAL %	80	

OBL 30
FACW 27
FAC 75.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.34	Hydrophtic Vegetation Presen
Dominance Test	125%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-068u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.767026 Long (DD) -64.193159 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957763 UTM E (m) 405580 Slope (%): 6.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Organic
10 - 18	7.5YR 4/2						Sand	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC		
2	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC		
3	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC		
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC		
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC		
6	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC		
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	60	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
3	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	5	
4							
5							
6							
7							
8							
9							
					TOTAL %	75	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	50	YES
2	CLADrang	*Cladonia rangiferina*	Gray Reindeer Lichen	S5	-	15	YES
3							
4							
					TOTAL %	65	

OBL 0
FACW 0
FAC 15
FACU 60
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.80	Non-Hydrophtic Vegetation
Dominance Test	0%	Non-Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-068w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.766925 Long (DD) -64.19329 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957752 UTM E (m) 405570 Slope (%): 9.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

WL plot for forested part of G2-IB-003.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 20								Organic
20 - 25	7.5YR 3/1						Loam	
25 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☑ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) — Depth (cm): >15
- ☐ High Water Table (A2) — Depth (cm):
- ☑ Saturation (A3) — Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	20	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	50	YES
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
4	CAREcrin	*Carex crinita*	Fringed Sedge	S5	OBL	2	
5	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	2	
6							
7							
8							
9							
					TOTAL %	94	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	70	YES
2							
3							
4							
					TOTAL %	70	

OBL 22
FACW 0
FAC 175
FACU 0
UPL 2

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.80	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson, Nathan Hill

Plot ID: **BL-WL-068u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.767026 Long (DD) -64.193159 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957763 UTM E (m) 405580 Slope (%): 6.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Intact forest stand

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 12								Organic
12 - 20	7.5YR 5/3						Sandy Loam	
20 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	70	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
3							
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	5	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	20	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC		
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC		
3	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU		
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	30	YES
3							
4							
					TOTAL %	70	

OBL 0
FACW 0
FAC 100
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **BL-WL-069w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.764273 Long (DD) -64.191603 Elevation (m): 179

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957455 UTM E (m) 405699 Slope (%): 6.0

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☑ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Rutting throughout.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 40								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 0
- ☐ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
3	RHODgroe	*Rhododendron groenlandicum*	Common Labrador Tea	S5	FACW+	20	YES
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	20	YES
5	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	10	
6							
					TOTAL %	62	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	15	YES
2	VACCmacr	*Vaccinium macrocarpon*	Large Cranberry	S5	FACW+	10	YES
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
4	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
5							
6							
7							
8							
9							
					TOTAL %	30.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 5.1
FACW 25
FAC 32
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
7.2	24	5.5	10

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.43	Hydrophtic Vegetation Presen
Dominance Test	50%	Non-Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **BL-WL-069u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.764189 Long (DD) -64.191575 Elevation (m): 180

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957446 UTM E (m) 405701 Slope (%): 6.6

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 9								Organic
9 - 18	7.5YR 4/3						Sand	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	40	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	
4	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	0.1	
5	GAYLbacc	*Gaylussacia baccata*	Black Huckleberry	S5	FAC	5	
6	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
					TOTAL %	60.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	50	YES
2	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	50.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
2	CLADspec	*Cladonia sp.*	Unidentified Cladonia	-	-		
3							
4							
					TOTAL %	0	

OBL 0
FACW 40
FAC 20.2
FACU 50.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.09	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 02 2022

Wetland Evaluator(s): Lisa MacDonald

Plot ID: **BL-WL-070w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.76445573 Long (DD) -64.23698975 Elevation (m): 206

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957529 UTM E (m) 402108 Slope (%): 4.6

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 23								Organic over bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	YES
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	35	YES
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
4	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	5	
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
6	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
					TOTAL %	110	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	20	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	40	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 150
FACU 5
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.03	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 02 2022

Wetland Evaluator(s): Lisa MacDonald

Plot ID: **BL-WL-070u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.76438773 Long (DD) -64.23703275 Elevation (m): 206

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957522 UTM E (m) 402104 Slope (%): 5.7

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-071w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☑ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Old clear cut.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 5								Peat
5 - 22	5YR 5/1						Sandy Clay	
22 - 47	5YR 5/4						Sandy Clay	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 20
- ☑ Saturation (A3) Depth (cm): 15
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	10	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
4	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	2	
5	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	10	
6	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
					TOTAL %	72	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	5	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	5.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	>60	
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 77.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-071u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 10								Peat
10 - 31	5YR 4/2						Sandy Loam	Refusal at depth

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☐ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm): 30
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
2							
3							
4							
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	30	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
4							
5							
6							
					TOTAL %	37	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	3	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 80
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 04 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-072w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.76469253 Long (DD) -64.19886411 Elevation (m): 179

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957510 UTM E (m) 405125 Slope (%): 6.4

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Rutted and harvested within wetland and buffer. No surface water.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 -30								Organic
30 - 40	10YR 4/2						Sand	
40 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☑ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
5	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	2	
6	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	0.1	
					TOTAL %	42.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	50	YES
2	RUBUseto	*Rubus setosus*	Bristly Blackberry	S4	FACW	15	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
4	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
5							
6							
7							
8							
9							
					TOTAL %	75.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHArube	*Sphagnum rubellum*	Red Peat Moss	S5	-	40	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	30	YES
3	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	5	
4	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	10	
					TOTAL %	85	

OBL 0
FACW 80
FAC 42.2
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
15.5	30	4.8	13

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.35	Hydrophtic Vegetation Presen
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-073w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 1								Organic
1 - 35	7.5YR 2.5/1							Refusal at bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 14
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	<5	
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
2	SPIRtome	*Spiraea tomentosa*	Steeplebush	S5	FAC	2	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	40	YES
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
6							
					TOTAL %	64	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SOLInemo	*Solidago nemoralis*	Gray-stemmed Goldenrod	S4S5	UPL		
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	2	YES
3	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	2	YES
4							
5							
6							
7							
8							
9							
					TOTAL %	4	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	75	YES
2							
3							
4							
					TOTAL %	75	

OBL 0
FACW 0
FAC 66
FACU 2
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.03	Non-Hydrophtic Vegetation
Dominance Test	75%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-073u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 -10								Peat
10 - 14	10YR 5/1							Refusal at bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	10	YES
3	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
5	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	25	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	2	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
5	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
6							
					TOTAL %	42	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	15	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
3	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	2	
4							
5							
6							
7							
8							
9							
					TOTAL %	18	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	30	YES
2	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	2	
3							
4							
					TOTAL %	32	

OBL 0
FACW 0
FAC 63
FACU 27
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.30	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-074w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-074u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-075w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.763433 Long (DD) -64.19158 Elevation (m): 180

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957362 UTM E (m) 405700 Slope (%): 5.7

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☑ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Mosaic wetland, harvested, with ruts. No visible surface water.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 20								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 6
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	25	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	40	YES
3	RHODcana	*Rhododendron canadense*	Rhodora	S5	FAC	10	
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
6							
					TOTAL %	90	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	20	YES
2	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	2	
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
5	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	10	YES
6	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	0.1	
7	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
8							
9							
					TOTAL %	37.3	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	40	YES
2	SPHAcapi	*Sphagnum capillifolium*	Northern Peatmoss	S5	-	20	YES
3	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	5	
4							
					TOTAL %	65	

OBL 7
FACW 45
FAC 65.2
FACU 10.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.62	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 09 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-075u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.76365078 Long (DD) -64.19163979 Elevation (m): 180

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957386 UTM E (m) 405695 Slope (%): 7.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 15								Humus
15 - 18	7.5YR 5/3						Sand	
18 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
3	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	50	YES
4	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
6							
					TOTAL %	80	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	80	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	82	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 82
FACU 80
UPL 0

Water Quality (Optional)			
T (°C)	**Cond (µs/cm)**	**pH**	**TDS (ppm)**

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.49	Non-Hydrophtic Vegetation
Dominance Test	50%	Non-Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 04 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-076w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.763188 Long (DD) -64.200258 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957345 UTM E (m) 405012 Slope (%): 11.1

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☑ Marsh
  - ☑ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Machine ruts, harvested.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 40								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm): 5
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	5	
3	RHODcana	*Rhododendron canadense*	Rhodora	S5	FAC	1	
4	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	10	YES
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
6							
					TOTAL %	41	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	5	
2	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	20	YES
3	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
4	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	YES
5	RUBUhisp	*Rubus hispidus*	Bristly Dewberry	S5	FACW	2	
6							
7							
8							
9							
					TOTAL %	37.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	10	
2	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	90	YES
3							
4							
					TOTAL %	100	

OBL 0.1
FACW 27
FAC 51
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
13.5	34	4.57	18

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.65	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 04 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-076u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.763253 Long (DD) -64.200324 Elevation (m): 177

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957352 UTM E (m) 405007 Slope (%): 13.0

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Dense regeneration.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 10								Humus
10 - 16	10YR 4/3						Sandy Loam	
16 - 19	10YR 5/8						Sandy Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	60	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
4							
5							
6							
					TOTAL %	95	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	YES
2	MITCrepe	*Mitchella repens*	Partridgeberry	S5	FACU	0.1	YES
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	40	YES
3							
4							
					TOTAL %	80	

OBL 0
FACW 0
FAC 95.1
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Non-Hydrophtic Vegetation
Dominance Test	75%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-077w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 7								Peat over bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 8
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	25	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	2	
4							
5							
6							
					TOTAL %	12	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	70	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	1	
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
5							
6							
7							
8							
9							
					TOTAL %	72.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
2	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	>50	
3							
4							
					TOTAL %	0	

OBL 1
FACW 0
FAC 121.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.98	Hydrophtic Vegetation Presen
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-077u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Lichen barren. Wet conditions.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 4								Peat
4 - 9	10YR 4/2						Sandy Clay	
9 - 25	10YR 3/4						Sandy Loam	Refusal at bedrock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☐ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☐ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☐ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☐ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm): 20
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		2	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	60	YES
5							
6							
					TOTAL %	72	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	20	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	3	
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
4							
5							
6							
7							
8							
9							
					TOTAL %	25	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	>80	
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 90
FACU 20
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.18	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-078w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-078u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-079w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☑ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Treed bog

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 18								Organic peat layer
18 - 31	7.5YR 4/1							
31 - 41	10Y 5/1						Silt Loam	
41 - 69	10Y 5/1	60	7.5YR 5/8	40			Silty Clay Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils	Sandy Soils	Fine Textured Soils
☐ Histosol (A1)	☐ Sandy Mucky Mineral (S1)	☑ Loamy Gleyed Matrix (F2)
☐ Histic Epipedon (A2)	☐ 5 cm Mucky Peat or Peat (S3)*	☐ Loamy Mucky Mineral (F1)
☐ Black Histic (A3)	☐ Sandy Gleyed Matrix (S4)*	☑ Depleted Matrix (F3)
☐ Hydrogen Sulfide (A4)	☐ Sandy Redox (S5)	☐ Redox Dark Surface (F6)
☐ Stratified Layers (A5)	☐ Stripped Matrix (S6)	☐ Depleted Dark Surface (F7)
☑ Depleted Below Dark Surface (A11)	☐ Polyvalue Below Surface (S8)	☐ Redox Depression (F8)
☐ Thick Dark Surface (A12)	☐ Thin Dark Surface (S9)	☐ Iron-Manganese Masses (F12)
☐ Coast Prairie Redox (A16)*		☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	25	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	RHODgroe	*Rhododendron groenlandicum*	Common Labrador Tea	S5	FACW+	20	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	15	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
5	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
6							
					TOTAL %	55	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	EPIGrepe	*Epigaea repens*	Trailing Arbutus	S5	FACU	5	YES
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
					TOTAL %	100	

OBL 0
FACW 10
FAC 70
FACU 10
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-079u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 5								Organic
5 - 19	5YR 7/2	70	7.5YR 5/4	30			Silt Loam	
19 - 38	7.5YR 5/4	25	7.5YR 5/6	75			Silt Loam	
38 - 53	7.5YR 4/6						Silt Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	5	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	20	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	60	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
4	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	5	
5	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	10	
6							
					TOTAL %	97	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	60	YES
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 10
FAC 107
FACU 60
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.28	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-080w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-080u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 04 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-081w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.760941 Long (DD) -64.202274 Elevation (m): 179

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957098 UTM E (m) 404849 Slope (%): 9.2

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☑ Shrub Swamp
  - ☑ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Harvested, dense regeneration.

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 40								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 2
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	70	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	TSUGcana	*Tsuga canadensis*	Eastern Hemlock	S4	FACU	0.1	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
5	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	
6							
					TOTAL %	85.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	1	
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	5	YES
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	YES
4	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	1	
5							
6							
7							
8							
9							
					TOTAL %	12	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 5
FACW 1
FAC 91.1
FACU 0.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.89	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: NOV 04 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **BL-WL-081u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.760909 Long (DD) -64.202467 Elevation (m): 180

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4957094 UTM E (m) 404834 Slope (%): 12.4

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☑ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

Second growth hardwood.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 8								Organic
8 - 20	10YR 4/2						Sandy Loam	
20 +								Rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	50	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	PRUNsero	*Prunus serotina*	Black Cherry	S5	FAC	5	
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	YES
2	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	15	YES
3	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
					TOTAL %	20.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 95.1
FACU 0
UPL 15

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.27	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-082w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-082u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 16 2022

Wetland Evaluator(s): Ian Bryson, Chris Thorpe

Plot ID: **BL-WL-083w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.75543673 Long (DD) -64.21065276 Elevation (m): 212

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956496 UTM E (m) 404177 Slope (%): 4.8

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☑ Terrene

Landform Type: ☐ Fringe ☑ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 25								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 0
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC		
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC		
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC		
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC		
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	80	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	90	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	40	YES
2	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	40	YES
3							
4							
					TOTAL %	80	

OBL 10
FACW 0
FAC 80
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
	9.7	4.4	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.78	Hydrophtic Vegetation Presen
Dominance Test	100%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 16 2022

Wetland Evaluator(s): Ian Bryson, Chris Thorpe

Plot ID: **BL-WL-083u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.75561573 Long (DD) -64.21067176 Elevation (m): 213

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956516 UTM E (m) 404176 Slope (%): 5.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 5								Organic over rock

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	15	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	60	YES
3							
4							
					TOTAL %	75	

OBL 0
FACW 0
FAC 80
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	200%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: SEP 09 2022

Wetland Evaluator(s): Beth Cameron, Lydia Giffin

Plot ID: **BL-WL-084w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.75335273 Long (DD) -64.22570475 Elevation (m): 231

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956282 UTM E (m) 402982 Slope (%): 7.6

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: SEP 09 2022

Wetland Evaluator(s): Beth Cameron, Lydia Giffin

Plot ID: **BL-WL-084u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.75333473 Long (DD) -64.22549875 Elevation (m): 232

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956280 UTM E (m) 402998 Slope (%): 9.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-085w**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-085u**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 16 2022

Wetland Evaluator(s): Ian Bryson, Chris Thorpe

Plot ID: **BL-WL-086w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.75416073 Long (DD) -64.20389576 Elevation (m): 206

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956346 UTM E (m) 404710 Slope (%): 3.8

Water Flow Path: ☐ Outflow ☐ Inflow ☑ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☑ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☑ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☑ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☑ Yes ☐ No

Wetland Hydrology Present? ☑ Yes ☐ No

Is the Sampled Area within a wetland? ☑ Yes ☐ No

WESP-AC functional assessment completed? ☑ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☑ Fen
- ☑ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☑ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 50								Organic

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☑ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 5
- ☑ Saturation (A3) Depth (cm): 5
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
3	TSUGcana	*Tsuga canadensis*	Eastern Hemlock	S4	FACU	10	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		40	YES
4							
5							
6							
					TOTAL %	60	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	70	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	
5	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
6	MITCrepe	*Mitchella repens*	Partridgeberry	S5	FACU	0.1	
7							
8							
9							
					TOTAL %	91.2	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	30	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	50	YES
3							
4							
					TOTAL %	80	

OBL 10
FACW 10
FAC 131.1
FACU 10.1
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.88	Hydrophtic Vegetation Presen
Dominance Test	150%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: DEC 16 2022

Wetland Evaluator(s): Ian Bryson, Chris Thorpe

Plot ID: **BL-WL-086u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.75434473 Long (DD) -64.20373776 Elevation (m): 207

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956367 UTM E (m) 404722 Slope (%): 7.3

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☑ Yes ☐ No Are 'Normal Circumstances' present? ☑ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☑ Yes ☐ No

Hydric Soil Present? ☐ Yes ☑ No

Wetland Hydrology Present? ☐ Yes ☑ No

Is the Sampled Area within a wetland? ☐ Yes ☑ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 10								Organic
10 - 40	7.5YR 3/4						Sandy Loam	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PINUstro	*Pinus strobus*	Eastern White Pine	S5	FAC	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
4							
5							
6							
					TOTAL %	60	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	10	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
3	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
					TOTAL %	11.1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 111.1
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation Presen
Dominance Test	250%	Hydrophtic Vegetation Presen

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-087w**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-087u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-088w**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: #N/A

Wetland Evaluator(s): #N/A

Plot ID: **BL-WL-088u**

Plot Type: ☐ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) #N/A Long (DD) #N/A Elevation (m): #N/A

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): #N/A UTM E (m) #N/A Slope (%): #N/A

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: #N/A

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: SEP 09 2022

Wetland Evaluator(s): Beth Cameron, Lydia Giffin

Plot ID: **BL-WL-089w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.75395573 Long (DD) -64.22241775 Elevation (m): 238

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956345 UTM E (m) 403243 Slope (%): 5.2

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: SEP 09 2022

Wetland Evaluator(s): Beth Cameron, Lydia Giffin

Plot ID: **BL-WL-089u**

Plot Type: ☐ Wetland ☑ Upland

Wetland Plot Coordinates: Lat (DD) 44.75394987 Long (DD) -64.2226146 Elevation (m): 239

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956345 UTM E (m) 403228 Slope (%): 5.8

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: SEP 09 2022

Wetland Evaluator(s): Beth Cameron, Lydia Giffin

Plot ID: **BL-WL-090w**

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 44.75250573 Long (DD) -64.22319175 Elevation (m): 237

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 4956185 UTM E (m) 403180 Slope (%): 9.9

Water Flow Path: ☐ Outflow ☐ Inflow ☐ Throughflow ☐ Tidal Soil Map Unit Name: Gibraltar

Landscape Type: ☐ Marine ☐ Estuarine ☐ Lotic ☐ Lentic ☐ Terrene

Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

- ☐ Surface Water (A1) Depth (cm):
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- ☐ Saturation (A3) Depth (cm):
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
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- ☐ Water Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
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Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Bear Lake Wind Municipality/County: West Hants

Applicant/Owner: Nova Scotia Power Sample Date: SEP 09 2022

Wetland Evaluator(s): Beth Cameron, Lydia Giffin

Plot ID: **BL-WL-090u**

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Landform Type: ☐ Fringe ☐ Basin ☐ Flat ☐ Hillslope ☐ Peatland ☐ Terrace ☐ Lake ☐ Pond ☐ Floodplain ☐ Other

Local Relief: ☐ Convex ☐ Concave ☐ None

Significantly Disturbed: ☐ Vegetation ☐ Soils ☐ Hydrology

Naturally Problematic: ☐ Vegetation ☐ Soils ☐ Hydrology

Notes:

Are climatic/hydrologic conditions typical for this time of year? ☐ Yes ☐ No Are 'Normal Circumstances' present? ☐ Yes ☐ No

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present? ☐ Yes ☐ No

Hydric Soil Present? ☐ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☐ No

Is the Sampled Area within a wetland? ☐ Yes ☐ No

WESP-AC functional assessment completed? ☐ Yes ☐ No

Wetland Type & Subtype (select multiple if a complex):

- ☐ Saltmarsh
- ☐ Bog
- ☐ Fen
- ☐ Forested Swamp
  - ☐ Coniferous
  - ☐ Broadleaf
  - ☐ Mixed-wood
- ☐ Shrub Swamp
  - ☐ Coniferous
  - ☐ Broadleaf (excl. Ericaceous)
  - ☐ Mixed-wood
  - ☐ Ericaceous
- ☐ Marsh
  - ☐ Narrow-leaved Emergent (eg, Graminoid Dom.)
  - ☐ Robust emergent (eg, Typha, Schoenoplectus dom.)
  - ☐ Submerged/Floating-leaved

REMARKS

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Location: PL=Pore Lining, M=Matrix

HYDRIC SOIL INDICATORS

All Soils

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Coast Prairie Redox (A16)*

Sandy Soils

- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)*
- ☐ Sandy Gleyed Matrix (S4)*
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Polyvalue Below Surface (S8)
- ☐ Thin Dark Surface (S9)

Fine Textured Soils

- ☐ Loamy Gleyed Matrix (F2)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depression (F8)
- ☐ Iron-Manganese Masses (F12)
- ☐ Red Parent Material (TF2)

* denotes indicators for Problematic Hydric Soils. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

CBCL

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

WETLAND HYDROLOGY INDICATORS

Primary (One required; check all that apply)

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

Secondary (Two required, if no primary ind.)

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

VEGETATION - Tree Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1							
2							
3							
4							
5							
6							
7							
8							
9							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 0
FAC 0
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	#DIV/0!	#DIV/0!
Dominance Test	#DIV/0!	#DIV/0!