7 Mitigation Measures

Recommended mitigation measures relevant to terrestrial flora (including SAR) and wetlands 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 as identified in Section 5 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; and
- 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 as identified 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;
- 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; and
- Post-construction monitoring of SAR observations should be conducted to evaluate the efficacy of the vegetated buffer.

7.1.2 SAR Lichens (Blue Felt & Wrinkled Shingle Lichen)

Two of the lichen SAR known to occur within or adjacent to the Study Area are subject to *Special Management Practices* as prescribed by NS DNRR (NS DNRR, 2018). 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:

- Forest harvest (including silvicultural treatments): There is to be no active clearing, removal or disturbance of trees, soil, or wetlands.
- 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.
- 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 DNRR's Variance process.
- 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). 2017. Species ranking definitions. Available: http://www.AC CDC.com/en/rank-definitions.html. Accessed January 25, 2023.

Atlantic Canada Conservation Data Centre (AC CDC). 2023. Rare Taxa Data Report #7547: Nuttby, NS

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

CBCL Limited, 2008. Nuttby Mountain Wind Farm Environmental Assessment. Available at https://novascotia.ca/nse/ea/nuttby.mountain.wind.farm.asp

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). 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, undated. Fissidens taxifolius. FNA Vol. 27 Page 333, 334, 340, 341, 342, 343.

Flora of North America: 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, Arthur, 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. NSDNR 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. NSDNR Report FOR 2011-1. Online resource. http://www.gov.ns.ca/natr/forestry/veg-types/pdf/vegtypes.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). 2023. 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 road construction; as such, some of the locations surveyed proved inconclusive in terms of vegetation classification given the classification schemes used in this study. The NSDNR 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 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 configuration 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 Scientist, 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 7547: Nuttby, NS

Prepared 24 January 2023
by C. Robicheau, 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
NuttbyNS_7547ob.xls	Rare or legally-protected Flora and Fauna in your study area
NuttbyNS_7547ob100km.xls	A list of Rare and legally protected Flora and Fauna within 100 km of your study area
NuttbyNS_7547msa.xls	Managed and Biologically Significant Areas in your study area
NuttbyNS_7547ff_py.xls	Rare Freshwater Fish in your study area (DFO database)

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

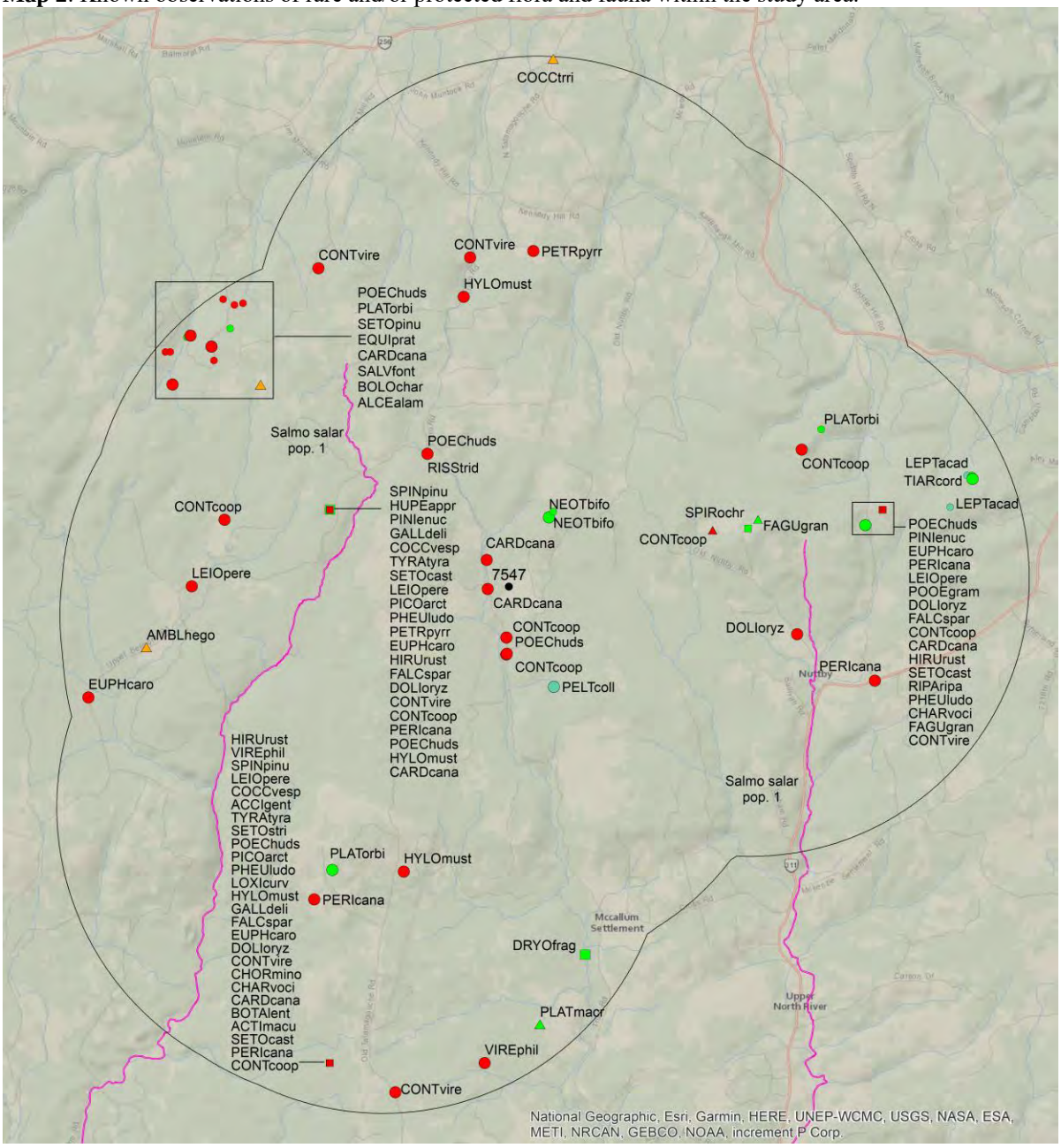
2.1 FLORA

The study area contains 21 records of 9 vascular and 3 records of 2 nonvascular flora (Map 2 and attached: *ob.xls), excluding 'location-sensitive' species.

2.2 FAUNA

The study area contains 182 records of 34 vertebrate and 3 records of 3 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

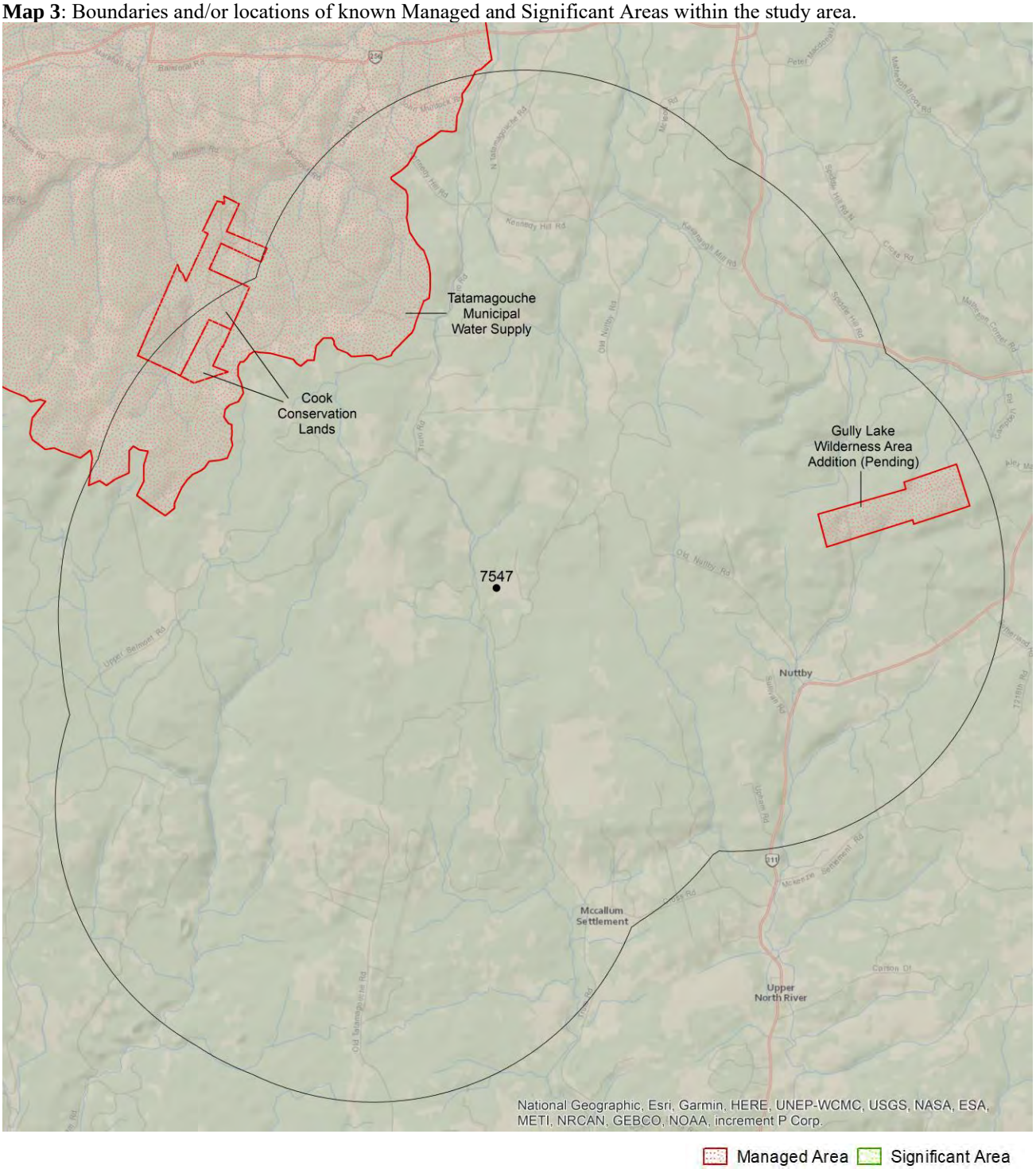
3.1 MANAGED AREAS

The GIS scan identified 4 managed areas in the vicinity of the study area (Map 3 and attached file: *ma*.xls).

3.2 SIGNIFICANT AREAS

The GIS scan identified no biologically significant sites in the vicinity of the study area (Map 3 and attached file: *sa*.xls).

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	*Peltigera collina*	Tree Pelt Lichen				S3	1	2.0 ± 0.0
N	*Leptogium acadiense*	Acadian Jellyskin Lichen				S3S4	2	8.1 ± 0.0
P	*Platanthera macrophylla*	Large Round-Leaved Orchid				S2	1	7.9 ± 1.0
P	*Tiarella cordifolia*	Heart-leaved Foamflower				S2S3	6	8.6 ± 0.0
P	*Neottia bifolia*	Southern Twayblade				S3	2	1.4 ± 0.0
P	*Dryopteris fragrans*	Fragrant Wood Fern				S3	2	6.8 ± 4.0
P	*Spiranthes ochroleuca*	Yellow Ladies'-tresses				S3?	1	4.5 ± 0.0
P	*Fagus grandifolia*	American Beech				S3S4	2	4.7 ± 0.0
P	*Platanthera orbiculata*	Small Round-leaved Orchid				S3S4	5	6.0 ± 0.0
P	*Equisetum pratense*	Meadow Horsetail				S3S4	1	7.4 ± 0.0
P	*Huperzia appressa*	Mountain Firmoss				S3S4	1	3.5 ± 7.0

4.2 FAUNA

	Scientific *Name*	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	*Riparia riparia*	Bank Swallow	Threatened	Threatened	Endangered	S2B	1	6.9 ± 7.0
A	*Hylocichla mustelina*	Wood Thrush	Threatened	Threatened		SUB	6	3.5 ± 7.0
A	*Euphagus carolinus*	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	6	3.5 ± 7.0
A	*Hirundo rustica*	Barn Swallow	Special Concern	Threatened	Endangered	S3B	11	3.5 ± 7.0
A	*Cardellina canadensis*	Canada Warbler	Special Concern	Threatened	Endangered	S3B	15	0.4 ± 0.0
A	*Chordeiles minor*	Common Nighthawk	Special Concern	Threatened	Threatened	S3B	1	9.2 ± 7.0
A	*Contopus cooperi*	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S3B	22	0.9 ± 0.0
A	*Dolichonyx oryzivorus*	Bobolink	Special Concern	Threatened	Vulnerable	S3B	11	3.5 ± 7.0
A	*Coccothraustes vespertinus*	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	3	3.5 ± 7.0
A	*Contopus virens*	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	12	3.5 ± 7.0
A	*Accipiter gentilis*	Northern Goshawk	Not At Risk			S3S4	1	9.2 ± 7.0
A	*Alces alces americana*	Moose			Endangered	S1	1	7.1 ± 0.0
A	*Pooecetes gramineus*	Vesper Sparrow				S1S2B,SUM	1	6.9 ± 7.0
A	*Vireo philadelphicus*	Philadelphia Vireo				S2?B,SUM	2	8.6 ± 0.0
A	*Rissa tridactyla*	Black-legged Kittiwake				S2S3B	1	2.8 ± 0.0
A	*Petrochelidon pyrrhonota*	Cliff Swallow				S2S3B	2	3.5 ± 7.0
A	*Setophaga pinus*	Pine Warbler				S2S3B,S4S5M	2	6.9 ± 0.0
A	*Perisoreus canadensis*	Canada Jay				S3	14	3.5 ± 7.0
A	*Poecile hudsonicus*	Boreal Chickadee				S3	15	0.9 ± 0.0
A	*Spinus pinus*	Pine Siskin				S3	4	3.5 ± 7.0
A	*Salvelinus fontinalis*	Brook Trout				S3	1	7.5 ± 0.0
A	*Charadrius vociferus*	Killdeer				S3B	2	6.9 ± 7.0
A	*Tyrannus tyrannus*	Eastern Kingbird				S3B	2	3.5 ± 7.0
A	*Pheucticus ludovicianus*	Rose-breasted Grosbeak				S3B	5	3.5 ± 7.0
A	*Falco sparverius*	American Kestrel				S3B,S4S5M	7	3.5 ± 7.0
A	*Gallinago delicata*	Wilson's Snipe				S3B,S5M	6	3.5 ± 7.0
A	*Setophaga striata*	Blackpoll Warbler				S3B,S5M	1	9.2 ± 7.0
A	*Pinicola enucleator*	Pine Grosbeak				S3B,S5N,S5M	2	3.5 ± 7.0
A	*Picoides arcticus*	Black-backed Woodpecker				S3S4	3	3.5 ± 7.0
A	*Loxia curvirostra*	Red Crossbill				S3S4	1	9.2 ± 7.0

	Scientific *Name*	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)
A	*Botaurus lentiginosus*	American Bittern				S3S4B,S4S5M	2	9.2 ± 7.0
A	*Setophaga castanea*	Bay-breasted Warbler				S3S4B,S4S5M	8	3.5 ± 7.0
A	*Actitis macularius*	Spotted Sandpiper				S3S4B,S5M	3	9.2 ± 7.0
A	*Leiothlypis peregrina*	Tennessee Warbler				S3S4B,S5M	8	3.5 ± 7.0
I	*Coccinella transversoguttata richardsoni*	Transverse Lady Beetle	Special Concern		Endangered	SH	1	9.6 ± 2.0
I	*Boloria chariclea*	Arctic Fritillary				S1S2	1	5.8 ± 2.0
I	*Amblyscirtes hegon*	Pepper and Salt Skipper				S3S4	1	6.6 ± 1.0

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**	**YES**
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]	No

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
139	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
31	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
8	Nussey, Pat & NCC staff. 2019. AEI tracked species records, 2016-2019. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 333.
7	Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
3	Belliveau, A.G. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
3	Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
3	iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
3	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
2	Amiro, P.G. 1998. Atlantic Salmon Inner Bay of Fundy SFA 22 & part of 23. DFO Sci. SSR D3-12.
2	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.
2	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
2	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database [as of 2018-03]. Mersey Tobeatic Research Institute.
1	Blaney, C.S.; Mazerolle, D.M. 2008. Fieldwork 2008. Atlantic Canada Conservation Data Centre. Sackville NB, 13343 recs.
1	e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
1	Hughes, Cory. 2020. Atlantic Forestry Centre Coccinella transversoguttata collections. Canadian Forest Service, Atlantic Forestry Centre.
1	Layberry, R.A. & Hall, P.W., LaFontaine, J.D. 1998. The Butterflies of Canada. University of Toronto Press. 280 pp+plates.
1	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.
1	Nova Scotia Department of Lands and Forestry. 2020. NS Lands Proposed or Pending Protection. NSDLF, 231 features. Received via email.
1	Nova Scotia Dept Natural Resources, Forestry Branch. 2007. Restricted & Limited Use Land Database (RLUL). , http://www.gov.ns.ca/natr/FORESTRY/rlul/downloadrlul.htm.
1	Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
1	Walker, J. 2017. Bird inventories at French River, NS, and Memramcook, NB, for Nature Conservancy of Canada. Pers. comm. to AC CDC.
1	Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.

5.0 RARE SPECIES WITHIN 100 KM

A 100 km buffer around the study area contains 60139 records of 141 vertebrate and 1356 records of 68 invertebrate fauna; 8166 records of 277 vascular and 2775 records of 166 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	*Myotis lucifugus*	Little Brown Myotis	Endangered	Endangered	Endangered	S1	122	22.4 ± 0.0	NS
A	*Myotis septentrionalis*	Northern Myotis	Endangered	Endangered	Endangered	S1	85	30.3 ± 0.0	NS
A	*Perimyotis subflavus*	Tricolored Bat	Endangered	Endangered	Endangered	S1	8	36.8 ± 5.0	NS
A	*Salmo salar pop. 1*	Atlantic Salmon - Inner Bay of Fundy population	Endangered	Endangered		S1	34	9.9 ± 0.0	NS
A	*Salmo salar pop. 6*	Atlantic Salmon - Nova Scotia Southern Upland population	Endangered			S1	28	55.5 ± 0.0	NS
A	*Charadrius melodus melodus*	Piping Plover melodus subspecies	Endangered	Endangered	Endangered	S1B	1535	26.1 ± 0.0	NS
A	*Sterna dougallii*	Roseate Tern	Endangered	Endangered	Endangered	S1B	6	96.8 ± 0.0	NS
A	*Dermochelys coriacea pop. 2*	Leatherback Sea Turtle - Atlantic population	Endangered	Endangered		S1S2N	1	82.6 ± 1.0	NB
A	*Morone saxatilis pop. 2*	Striped Bass - Bay of Fundy population	Endangered			S2S3B,S2S3N	2	61.6 ± 0.0	NS
A	*Catharus bicknelli*	Bicknell's Thrush	Threatened	Threatened	Endangered	S1B	1	59.9 ± 7.0	NS
A	*Asio flammeus*	Short-eared Owl	Threatened	Special Concern		S1B	44	34.1 ± 7.0	NS
A	*Glyptemys insculpta*	Wood Turtle	Threatened	Threatened	Threatened	S2	4059	11.4 ± 1.0	NS
A	*Riparia riparia*	Bank Swallow	Threatened	Threatened	Endangered	S2B	2907	6.9 ± 7.0	NS
A	*Chaetura pelagica*	Chimney Swift	Threatened	Threatened	Endangered	S2S3B,S1M	1241	13.3 ± 7.0	NS
A	*Limosa haemastica*	Hudsonian Godwit	Threatened			S2S3M	471	27.7 ± 0.0	NS
A	*Acipenser oxyrinchus*	Atlantic Sturgeon	Threatened			S2S3N	7	47.3 ± 0.0	NS
A	*Hydrobates leucorhous*	Leach's Storm-Petrel	Threatened			S3B	4	97.0 ± 0.0	NS
A	*Tringa flavipes*	Lesser Yellowlegs	Threatened			S3M	2217	21.1 ± 0.0	NS
A	*Anguilla rostrata*	American Eel	Threatened			S3N	70	15.4 ± 0.0	NS
A	*Sturnella magna*	Eastern Meadowlark	Threatened	Threatened		SHB	2	87.9 ± 7.0	NS
A	*Ixobrychus exilis*	Least Bittern	Threatened	Threatened		SUB	9	78.5 ± 0.0	NS
A	*Hylocichla mustelina*	Wood Thrush	Threatened	Threatened		SUB	49	3.5 ± 7.0	NS
A	*Salmo salar pop. 12*	Atlantic Salmon - Gaspe - Southern Gulf of St. Lawrence population	Special Concern			S1	41	11.3 ± 50.0	NS
A	*Antrostomus vociferus*	Eastern Whip-Poor-Will	Special Concern	Threatened	Threatened	S1?B	10	48.2 ± 7.0	NS
A	*Passerculus sandwichensis princeps*	Ipswich Sparrow	Special Concern	Special Concern		S1B	1	99.8 ± 0.0	NS
A	*Bucephala islandica*	Barrow's Goldeneye	Special Concern	Special Concern		S1N,SUM	19	48.2 ± 1.0	NS
A	*Euphagus carolinus*	Rusty Blackbird	Special Concern	Special Concern	Endangered	S2B	241	3.5 ± 7.0	NS
A	*Phalaropus lobatus*	Red-necked Phalarope	Special Concern	Special Concern		S2S3M	14	27.7 ± 0.0	NS
A	*Histrionicus histrionicus pop. 1*	Harlequin Duck - Eastern population	Special Concern	Special Concern	Endangered	S2S3N,SUM	10	82.8 ± 0.0	PE
A	*Chelydra serpentina*	Snapping Turtle	Special Concern	Special Concern	Vulnerable	S3	125	15.8 ± 0.0	NS
A	*Hirundo rustica*	Barn Swallow	Special Concern	Threatened	Endangered	S3B	1873	3.5 ± 7.0	NS
A	*Cardellina canadensis*	Canada Warbler	Special Concern	Threatened	Endangered	S3B	1149	0.4 ± 0.0	NS
A	*Chordeiles minor*	Common Nighthawk	Special Concern	Threatened	Threatened	S3B	444	9.2 ± 7.0	NS
A	*Contopus cooperi*	Olive-sided Flycatcher	Special Concern	Threatened	Threatened	S3B	1134	0.9 ± 0.0	NS
A	*Dolichonyx oryzivorus*	Bobolink	Special Concern	Threatened	Vulnerable	S3B	2095	3.5 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Coccothraustes vespertinus*	Evening Grosbeak	Special Concern	Special Concern	Vulnerable	S3B,S3N,S3M	835	3.5 ± 7.0	NS
A	*Podiceps auritus*	Horned Grebe	Special Concern	Special Concern		S3N,SUM	14	76.0 ± 1.0	NB
A	*Contopus virens*	Eastern Wood-Pewee	Special Concern	Special Concern	Vulnerable	S3S4B	1319	3.5 ± 7.0	NS
A	*Chrysemys picta picta*	Eastern Painted Turtle	Special Concern	Special Concern		S4	116	17.8 ± 5.0	NS
A	*Accipiter cooperii*	Cooper's Hawk	Not At Risk			S1?B,SUN,SUM	5	36.8 ± 7.0	NS
A	*Fulica americana*	American Coot	Not At Risk			S1B	53	34.3 ± 7.0	NS
A	*Chlidonias niger*	Black Tern	Not At Risk			S1B	177	78.2 ± 0.0	NS
A	*Falco peregrinus pop. 1*	Peregrine Falcon - anatum/tundrius	Not At Risk	Special Concern	Vulnerable	S1B,SUM	126	65.7 ± 0.0	NS
A	*Sorex dispar*	Long-tailed Shrew	Not At Risk			S2	2	35.7 ± 0.0	NS
A	*Aegolius funereus*	Boreal Owl	Not At Risk			S2?B,SUM	9	14.9 ± 0.0	NS
A	*Globicephala melas*	Long-finned Pilot Whale	Not At Risk			S2S3	1	64.4 ± 100.0	NS
A	*Hemidactylium scutatum*	Four-toed Salamander	Not At Risk			S3	24	19.0 ± 0.0	NS
A	*Megaptera novaeangliae*	Humpback Whale	Not At Risk			S3	1	86.8 ± 0.0	NS
A	*Sterna hirundo*	Common Tern	Not At Risk			S3B	458	17.2 ± 0.0	NS
A	*Sialia sialis*	Eastern Bluebird	Not At Risk			S3B	92	15.8 ± 7.0	NS
A	*Buteo lagopus*	Rough-legged Hawk	Not At Risk			S3N	13	71.5 ± 0.0	PE
A	*Accipiter gentilis*	Northern Goshawk	Not At Risk			S3S4	166	8.3 ± 0.0	NS
A	*Glaucomys volans*	Southern Flying Squirrel	Not At Risk			S3S4	1	96.3 ± 10.0	NS
A	*Lagenorhynchus acutus*	Atlantic White-sided Dolphin	Not At Risk			S3S4	2	44.8 ± 0.0	NS
A	*Ammospiza nelsoni*	Nelson's Sparrow	Not At Risk			S3S4B	806	18.9 ± 7.0	NS
A	*Calidris canutus rufa*	Red Knot rufa subspecies	E,SC	Endangered	Endangered	S2M	644	22.3 ± 0.0	NS
A	*Morone saxatilis*	Striped Bass	E,SC			S2S3B,S2S3N	5	39.9 ± 1.0	NS
A	*Alces alces americana*	Moose			Endangered	S1	217	7.1 ± 0.0	NS
A	*Picoides dorsalis*	American Three-toed Woodpecker				S1?	5	53.0 ± 0.0	NS
A	*Passerina cyanea*	Indigo Bunting				S1?B,SUM	20	17.1 ± 0.0	NS
A	*Nycticorax nycticorax*	Black-crowned Night-heron				S1B	1	89.9 ± 1.0	NB
A	*Oxyura jamaicensis*	Ruddy Duck				S1B	59	76.2 ± 1.0	NB
A	*Gallinula galeata*	Common Gallinule				S1B	43	18.4 ± 7.0	NS
A	*Myiarchus crinitus*	Great Crested Flycatcher				S1B	20	13.2 ± 7.0	NS
A	*Cistothorus palustris*	Marsh Wren				S1B	51	73.3 ± 3.0	NB
A	*Mimus polyglottos*	Northern Mockingbird				S1B	70	31.6 ± 7.0	NS
A	*Toxostoma rufum*	Brown Thrasher				S1B	10	18.9 ± 7.0	NS
A	*Charadrius semipalmatus*	Semipalmated Plover				S1B,S4M	2242	18.4 ± 7.0	NS
A	*Calidris minutilla*	Least Sandpiper				S1B,S4M	1418	21.1 ± 0.0	NS
A	*Anas acuta*	Northern Pintail				S1B,SUM	112	17.4 ± 0.0	NS
A	*Vireo gilvus*	Warbling Vireo				S1B,SUM	32	11.8 ± 7.0	NS
A	*Vespertilionidae sp.*	bat species				S1S2	113	15.3 ± 0.0	NS
A	*Pooecetes gramineus*	Vesper Sparrow				S1S2B,SUM	70	6.9 ± 7.0	NS
A	*Vireo philadelphicus*	Philadelphia Vireo				S2?B,SUM	113	8.6 ± 0.0	NS
A	*Fratercula arctica*	Atlantic Puffin				S2B	1	74.8 ± 0.0	NB
A	*Empidonax traillii*	Willow Flycatcher				S2B	48	13.2 ± 7.0	NS
A	*Molothrus ater*	Brown-headed Cowbird				S2B	225	15.8 ± 7.0	NS
A	*Spatula clypeata*	Northern Shoveler				S2B,SUM	230	27.9 ± 0.0	NS
A	*Mareca strepera*	Gadwall				S2B,SUM	314	20.8 ± 0.0	NS
A	*Piranga olivacea*	Scarlet Tanager				S2B,SUM	23	21.5 ± 0.0	NS
A	*Calidris alba*	Sanderling				S2N,S3M	1158	19.7 ± 0.0	NS
A	*Asio otus*	Long-eared Owl				S2S3	30	16.5 ± 0.0	NS
A	*Rallus limicola*	Virginia Rail				S2S3B	263	21.6 ± 7.0	NS
A	*Rissa tridactyla*	Black-legged Kittiwake				S2S3B	1	2.8 ± 0.0	NS
A	*Petrochelidon pyrrhonota*	Cliff Swallow				S2S3B	448	3.5 ± 7.0	NS
A	*Phalacrocorax carbo*	Great Cormorant				S2S3B,S2S3N	98	55.4 ± 7.0	PE

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Cathartes aura*	Turkey Vulture				S2S3B,S4S5M	35	57.9 ± 0.0	NS
A	*Setophaga pinus*	Pine Warbler				S2S3B,S4S5M	48	6.9 ± 0.0	NS
A	*Bucephala clangula*	Common Goldeneye				S2S3B,S5N,S5M	157	23.1 ± 9.0	NS
A	*Icterus galbula*	Baltimore Oriole				S2S3B,SUM	75	19.6 ± 0.0	NS
A	*Pluvialis dominica*	American Golden-Plover				S2S3M	232	29.3 ± 0.0	NS
A	*Numenius phaeopus hudsonicus*	Whimbrel				S2S3M	253	25.1 ± 0.0	NS
A	*Phalaropus fulicarius*	Red Phalarope				S2S3M	2	99.6 ± 0.0	NS
A	*Perisoreus canadensis*	Canada Jay				S3	642	3.5 ± 7.0	NS
A	*Poecile hudsonicus*	Boreal Chickadee				S3	844	0.9 ± 0.0	NS
A	*Spinus pinus*	Pine Siskin				S3	603	3.5 ± 7.0	NS
A	*Salvelinus fontinalis*	Brook Trout				S3	60	7.5 ± 0.0	NS
A	*Salvelinus namaycush*	Lake Trout				S3	2	61.3 ± 0.0	NS
A	*Sorex maritimensis*	Maritime Shrew				S3	105	89.5 ± 1.0	NB
A	*Synaptomys cooperi*	Southern Bog Lemming				S3	1	93.6 ± 0.0	NS
A	*Pekania pennanti*	Fisher				S3	8	19.6 ± 0.0	NS
A	*Calcarius lapponicus*	Lapland Longspur				S3?N,SUM	33	76.0 ± 0.0	NB
A	*Spatula discors*	Blue-winged Teal				S3B	545	13.2 ± 7.0	NS
A	*Charadrius vociferus*	Killdeer				S3B	1024	6.9 ± 7.0	NS
A	*Tringa semipalmata*	Willet				S3B	2403	17.4 ± 0.0	NS
A	*Sterna paradisaea*	Arctic Tern				S3B	27	78.0 ± 0.0	NB
A	*Coccyzus erythropthalmus*	Black-billed Cuckoo				S3B	144	13.2 ± 7.0	NS
A	*Tyrannus tyrannus*	Eastern Kingbird				S3B	480	3.5 ± 7.0	NS
A	*Pheucticus ludovicianus*	Rose-breasted Grosbeak				S3B	892	3.5 ± 7.0	NS
A	*Alosa pseudoharengus*	Alewife				S3B	29	26.4 ± 0.0	NS
A	*Somateria mollissima*	Common Eider				S3B,S3M,S3N	166	23.1 ± 9.0	NS
A	*Tringa melanoleuca*	Greater Yellowlegs				S3B,S4M	3467	20.8 ± 0.0	NS
A	*Falco sparverius*	American Kestrel				S3B,S4S5M	623	3.5 ± 7.0	NS
A	*Gallinago delicata*	Wilson's Snipe				S3B,S5M	1449	3.5 ± 7.0	NS
A	*Setophaga striata*	Blackpoll Warbler				S3B,S5M	103	9.2 ± 7.0	NS
A	*Cardellina pusilla*	Wilson's Warbler				S3B,S5M	120	15.8 ± 7.0	NS
A	*Pinicola enucleator*	Pine Grosbeak				S3B,S5N,S5M	133	3.5 ± 7.0	NS
A	*Setophaga tigrina*	Cape May Warbler				S3B,SUM	370	14.4 ± 0.0	NS
A	*Branta bernicla*	Brant				S3M	14	56.5 ± 0.0	NS
A	*Pluvialis squatarola*	Black-bellied Plover				S3M	2621	19.8 ± 0.0	NS
A	*Arenaria interpres*	Ruddy Turnstone				S3M	1060	21.1 ± 0.0	NS
A	*Calidris pusilla*	Semipalmated Sandpiper				S3M	2610	21.1 ± 0.0	NS
A	*Calidris melanotos*	Pectoral Sandpiper				S3M	429	21.1 ± 0.0	NS
A	*Limnodromus griseus*	Short-billed Dowitcher				S3M	1704	21.1 ± 0.0	NS
A	*Chroicocephalus ridibundus*	Black-headed Gull				S3N	10	73.3 ± 4.0	NB
A	*Picoides arcticus*	Black-backed Woodpecker				S3S4	184	3.5 ± 7.0	NS
A	*Loxia curvirostra*	Red Crossbill				S3S4	167	9.2 ± 7.0	NS
A	*Sorex palustris*	American Water Shrew				S3S4	5	73.3 ± 0.0	PE
A	*Botaurus lentiginosus*	American Bittern				S3S4B,S4S5M	1070	9.2 ± 7.0	NS
A	*Setophaga castanea*	Bay-breasted Warbler				S3S4B,S4S5M	716	3.5 ± 7.0	NS
A	*Actitis macularius*	Spotted Sandpiper				S3S4B,S5M	1032	9.2 ± 7.0	NS
A	*Leiothlypis peregrina*	Tennessee Warbler				S3S4B,S5M	699	3.5 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
A	*Passerella iliaca*	Fox Sparrow				S3S4B,S5M	42	38.1 ± 7.0	NS
A	*Mergus serrator*	Red-breasted Merganser				S3S4B,S5M,S5N	156	19.7 ± 0.0	NS
A	*Calidris maritima*	Purple Sandpiper				S3S4N	53	48.5 ± 0.0	NS
A	*Lanius borealis*	Northern Shrike				S3S4N	6	76.5 ± 0.0	NS
A	*Morus bassanus*	Northern Gannet				SHB	71	30.5 ± 4.0	NS
A	*Aythya americana*	Redhead				SHB	6	79.7 ± 7.0	NS
A	*Leucophaeus atricilla*	Laughing Gull				SHB	8	76.0 ± 0.0	NB
A	*Progne subis*	Purple Martin				SHB	23	48.2 ± 7.0	NS
A	*Eremophila alpestris*	Horned Lark				SHB,S4S5N,S5M	16	29.8 ± 7.0	NS
I	*Bombus bohemicus*	Ashton Cuckoo Bumble Bee	Endangered	Endangered	Endangered	S1	32	18.4 ± 5.0	NS
I	*Danaus plexippus*	Monarch	Endangered	Special Concern	Endangered	S2?B,S3M	199	15.6 ± 0.0	NS
I	*Danaus plexippus plexippus*	Monarch	Endangered	Special Concern		S2?B,S3M	1	86.7 ± 0.0	NS
I	*Barnea truncata*	Atlantic Mud-piddock	Threatened	Threatened		S1	1	42.6 ± 1.0	NS
I	*Bombus suckleyi*	Suckley's Cuckoo Bumble Bee	Threatened			SH	1	20.1 ± 5.0	NS
I	*Alasmidonta varicosa*	Brook Floater	Special Concern	Special Concern	Threatened	S3	16	22.2 ± 0.0	NS
I	*Bombus terricola*	Yellow-banded Bumble Bee	Special Concern	Special Concern	Vulnerable	S3	125	12.7 ± 0.0	NS
I	*Coccinella transversoguttata richardsoni*	Transverse Lady Beetle	Special Concern		Endangered	SH	9	9.6 ± 2.0	NS
I	*Gomphurus ventricosus*	Skillet Clubtail	Special Concern	Endangered		SH	2	71.1 ± 0.0	NS
I	*Erora laeta*	Early Hairstreak				S1	1	74.1 ± 0.0	PE
I	*Pachydiplax longipennis*	Blue Dasher				S1	4	96.5 ± 0.0	NS
I	*Atlanticoncha ochracea*	Tidewater Mucket				S1	28	69.0 ± 0.0	NS
I	*Polygonia comma*	Eastern Comma				S1?	1	98.3 ± 0.0	NS
I	*Polygonia satyrus*	Satyr Comma				S1?	18	18.9 ± 5.0	NS
I	*Euphyes bimacula*	Two-spotted Skipper				S1S2	3	61.9 ± 0.0	NS
I	*Boloria chariclea*	Arctic Fritillary				S1S2	9	5.8 ± 2.0	NS
I	*Somatochlora brevicincta*	Quebec Emerald				S1S2	2	82.3 ± 1.0	NS
I	*Tharsalea dospassosi*	Maritime Copper				S2	96	20.6 ± 0.0	NS
I	*Satyrium acadica*	Acadian Hairstreak				S2	17	14.3 ± 0.0	NS
I	*Neurocordulia michaeli*	Broad-tailed Shadowdragon				S2	21	61.5 ± 0.0	NS
I	*Coenagrion resolutum*	Taiga Bluet				S2	52	28.0 ± 0.0	NS
I	*Margaritifera margaritifera*	Eastern Pearlshell				S2	147	12.5 ± 0.0	NS
I	*Pantala hymenaea*	Spot-Winged Glider				S2?B	1	82.3 ± 1.0	NS
I	*Nymphalis l-album*	Compton Tortoiseshell				S2S3	10	19.9 ± 2.0	NS
I	*Aglais milberti*	Milbert's Tortoiseshell				S2S3	18	15.8 ± 2.0	NS
I	*Aglais milberti milberti*	Milbert's Tortoise Shell				S2S3	4	34.6 ± 0.0	NS
I	*Lanthus vernalis*	Southern Pygmy Clubtail				S2S3	7	76.0 ± 0.0	NS
I	*Somatochlora kennedyi*	Kennedy's Emerald				S2S3	5	77.5 ± 0.0	NS
I	*Somatochlora williamsoni*	Williamson's Emerald				S2S3	14	78.1 ± 0.0	NB
I	*Williamsonia fletcheri*	Ebony Boghaunter				S2S3	11	28.3 ± 0.0	NS
I	*Stylurus scudderi*	Zebra Clubtail				S2S3	4	66.3 ± 1.0	NS
I	*Alasmidonta undulata*	Triangle Floater				S2S3	33	34.9 ± 0.0	NS
I	*Astyleiopus variegatus*	Variegated Long-horned Beetle				S3	1	74.9 ± 0.0	NS
I	*Hippodamia parenthesis*	Parenthesis Lady Beetle				S3	1	95.2 ± 0.0	NB
I	*Naemia seriata*	Seaside Lady Beetle				S3	15	88.6 ± 0.0	NS
I	*Chilocorus stigma*	Twice-stabbed Lady Beetle				S3	1	76.8 ± 0.0	PE
I	*Monochamus marmorator*	Balsam Fir Sawyer				S3	1	67.4 ± 0.0	NS
I	*Trachysida aspera*	Rough Flower Longhorn Beetle				S3	1	95.7 ± 0.0	NS
I	*Astylopsis sexguttata*	Six-speckled Long-horned Beetle				S3	1	86.5 ± 0.0	NS
I	*Satyrium calanus*	Banded Hairstreak				S3	10	19.3 ± 2.0	NS
I	*Callophrys lanoraieensis*	Bog Elfin				S3	12	41.6 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
I	*Strymon melinus*	Gray Hairstreak				S3	1	73.2 ± 2.0	NS
I	*Phanogomphus descriptus*	Harpoon Clubtail				S3	4	32.7 ± 1.0	NS
I	*Ophiogomphus aspersus*	Brook Snaketail				S3	5	49.6 ± 0.0	NS
I	*Ophiogomphus mainensis*	Maine Snaketail				S3	16	57.3 ± 0.0	NS
I	*Ophiogomphus rupinsulensis*	Rusty Snaketail				S3	40	67.1 ± 0.0	NS
I	*Epitheca princeps*	Prince Baskettail				S3	17	28.3 ± 0.0	NS
I	*Somatochlora forcipata*	Forcipate Emerald				S3	2	87.2 ± 1.0	PE
I	*Enallagma vernale*	Vernal Bluet				S3	6	32.7 ± 1.0	NS
I	*Strophitus undulatus*	Creeper				S3	6	51.8 ± 1.0	NS
I	*Polygonia interrogationis*	Question Mark				S3B	96	18.6 ± 0.0	NS
I	*Cecropterus pylades*	Northern Cloudywing				S3S4	24	14.3 ± 0.0	NS
I	*Amblyscirtes hegon*	Pepper and Salt Skipper				S3S4	22	6.6 ± 1.0	NS
I	*Cupido comyntas*	Eastern Tailed Blue				S3S4	7	14.3 ± 0.0	NS
I	*Argynnis aphrodite*	Aphrodite Fritillary				S3S4	33	14.3 ± 0.0	NS
I	*Polygonia faunus*	Green Comma				S3S4	19	19.9 ± 2.0	NS
I	*Oeneis jutta*	Jutta Arctic				S3S4	23	59.5 ± 0.0	NS
I	*Aeshna clepsydra*	Mottled Darner				S3S4	8	68.5 ± 1.0	NS
I	*Aeshna constricta*	Lance-Tipped Darner				S3S4	36	19.6 ± 1.0	NS
I	*Boyeria grafiana*	Ocellated Darner				S3S4	6	26.3 ± 0.0	NS
I	*Gomphaeschna furcillata*	Harlequin Darner				S3S4	7	66.3 ± 1.0	NS
I	*Somatochlora franklini*	Delicate Emerald				S3S4	8	34.3 ± 1.0	NS
I	*Nannothemis bella*	Elfin Skimmer				S3S4	21	68.5 ± 1.0	NS
I	*Sympetrum danae*	Black Meadowhawk				S3S4	6	76.9 ± 1.0	PE
I	*Amphiagrion saucium*	Eastern Red Damsel				S3S4	2	19.6 ± 1.0	NS
I	*Sphaerophoria pyrrhina*	Violaceous Globetail				SH	1	21.8 ± 5.0	NS
I	*Icaricia saepiolus*	Greenish Blue				SH	3	18.2 ± 5.0	NS
I	*Polygonia gracilis*	Hoary Comma				SH	2	19.9 ± 2.0	NS
N	*Erioderma mollissimum*	Graceful Felt Lichen	Endangered	Endangered	Endangered	S1	25	71.2 ± 0.0	NS
N	*Erioderma pedicellatum (Atlantic pop.)*	Boreal Felt Lichen - Atlantic pop.	Endangered	Endangered	Endangered	S1	437	67.3 ± 0.0	NS
N	*Peltigera hydrothyria*	Eastern Waterfan	Threatened	Threatened	Threatened	S1	92	14.4 ± 0.0	NS
N	*Pannaria lurida*	Wrinkled Shingle Lichen	Threatened	Threatened	Threatened	S2S3	30	54.7 ± 0.0	NS
N	*Anzia colpodes*	Black-foam Lichen	Threatened	Threatened	Threatened	S3	36	50.9 ± 0.0	NS
N	*Fuscopannaria leucosticta*	White-rimmed Shingle Lichen	Threatened			S3	6	66.2 ± 0.0	NS
N	*Heterodermia squamulosa*	Scaly Fringe Lichen	Threatened			S3	78	76.6 ± 0.0	NS
N	*Pectenia plumbea*	Blue Felt Lichen	Special Concern	Special Concern	Vulnerable	S3	155	12.2 ± 0.0	NS
N	*Sclerophora peronella (Atlantic pop.)*	Frosted Glass-whiskers (Atlantic population)	Special Concern	Special Concern		S3S4	21	65.4 ± 0.0	NS
N	*Pseudevernia cladonia*	Ghost Antler Lichen	Not At Risk			S2S3	4	71.3 ± 0.0	NS
N	*Fissidens exilis*	Pygmy Pocket Moss	Not At Risk			S3	15	32.4 ± 0.0	NS
N	*Chaenotheca servitii*	Flexuous Golden Stubble	Data Deficient			S1	1	67.0 ± 1.0	NS
N	*Erioderma pedicellatum*	Boreal Felt Lichen	E,SC		Endangered	S1	1	71.1 ± 0.0	NS
N	*Aloina brevirostris*	Short-Beaked Rigid Screw Moss				S1	1	87.8 ± 2.0	NS
N	*Sematophyllum demissum*	a Moss				S1	1	84.9 ± 2.0	NS
N	*Tetrodontium brownianum*	Little Georgia				S1	1	72.4 ± 0.0	NS
N	*Cyrto-hypnum minutulum*	Tiny Cedar Moss				S1	1	67.2 ± 0.0	NS
N	*Blennothallia crispa*	Crinkled Jelly Lichen				S1	1	70.6 ± 0.0	NS
N	*Usnea perplexans*	Powdered Beard Lichen				S1	1	82.2 ± 0.0	NS
N	*Cladonia brevis*	Short Peg Lichen				S1	1	98.3 ± 4.0	PE
N	*Lathagrium cristatum*	Fingered Jelly Lichen				S1	3	85.4 ± 0.0	NS
N	*Fuscopannaria praetermissa*	Moss Shingles Lichen				S1	1	90.8 ± 0.0	NS
N	*Scytinium schraderi*	Wrinkled Jellyskin Lichen				S1	1	38.8 ± 0.0	NS
N	*Lichina confinis*	Marine Seaweed Lichen				S1	2	97.2 ± 2.0	NS
N	*Polychidium muscicola*	Eyed Mossthorns Woollybear Lichen				S1	1	52.9 ± 0.0	NS
N	*Peltigera lepidophora*	Scaly Pelt Lichen				S1	6	62.4 ± 4.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Hypogymnia hultenii*	Powdered Honeycomb Lichen				S1	11	96.6 ± 0.0	NS
N	*Calypogeia neogaea*	Common Pouchwort				S1?	1	62.2 ± 0.0	NS
N	*Aloina rigida*	Aloe-Like Rigid Screw Moss				S1?	5	23.3 ± 0.0	NS
N	*Brachythecium erythrorrhizon*	Taiga Ragged Moss				S1?	2	97.2 ± 0.0	PE
N	*Campylostelium saxicola*	a Moss				S1?	2	73.8 ± 0.0	PE
N	*Tortula obtusifolia*	a Moss				S1?	3	19.5 ± 1.0	NS
N	*Didymodon tophaceus*	Olive Beard Moss				S1?	2	70.6 ± 4.0	NS
N	*Paludella squarrosa*	Tufted Fen Moss				S1?	3	80.2 ± 0.0	NS
N	*Physcomitrium immersum*	a Moss				S1?	1	98.9 ± 0.0	NS
N	*Schistostega pennata*	Luminous Moss				S1?	1	73.8 ± 0.0	NS
N	*Syntrichia ruralis*	a Moss				S1?	1	89.2 ± 0.0	NS
N	*Enchylium limosum*	Lime-loving Tarpaper Lichen				S1?	2	70.6 ± 4.0	NS
N	*Scytinium intermedium*	Forty-five Jellyskin Lichen				S1?	1	70.6 ± 4.0	NS
N	*Arrhenopterum heterostichum*	One-sided Groove Moss				S1S2	2	62.0 ± 1.0	NS
N	*Mnium thomsonii*	Thomson's Leafy Moss				S1S2	1	89.0 ± 2.0	NS
N	*Plagiothecium latebricola*	Alder Silk Moss				S1S2	1	65.2 ± 3.0	NS
N	*Platydictya confervoides*	a Moss				S1S2	1	90.1 ± 0.0	NS
N	*Seligeria donniana*	Donian Beardless Moss				S1S2	1	73.1 ± 3.0	NS
N	*Sematophyllum marylandicum*	a Moss				S1S2	2	73.7 ± 6.0	NS
N	*Timmia megapolitana*	Metropolitan Timmia Moss				S1S2	3	21.0 ± 0.0	NS
N	*Tortula mucronifolia*	Mucronate Screw Moss				S1S2	1	87.2 ± 3.0	NS
N	*Pseudotaxiphyllum distichaceum*	a Moss				S1S2	2	66.9 ± 0.0	NS
N	*Haplocladium microphyllum*	Tiny-leaved Haplocladium Moss				S1S2	1	30.6 ± 5.0	NS
N	*Enchylium bachmanianum*	Bachman's Jelly Lichen				S1S2	1	85.9 ± 0.0	NS
N	*Placidium squamulosum*	Limy Soil Stipplescale Lichen				S1S2	1	52.5 ± 6.0	NS
N	*Peltigera ponojensis*	Pale-bellied Pelt Lichen				S1S2	1	40.5 ± 0.0	NS
N	*Pilophorus cereolus*	Powdered Matchstick Lichen				S1S2	1	51.4 ± 3.0	NS
N	*Parmotrema reticulatum*	Netted Ruffle Lichen				S1S2	5	92.6 ± 0.0	NS
N	*Parmeliella parvula*	Poor-man's Shingles Lichen				S1S2	10	73.2 ± 0.0	NS
N	*Heterodermia galactophylla*	Branching Fringe Lichen				S1S3	2	38.8 ± 0.0	NS
N	*Peltigera neckeri*	Black-saddle Pelt Lichen				S1S3	1	100.0 ± 0.0	NS
N	*Stereocaulon grande*	Grand Foam Lichen				S1S3	1	21.4 ± 0.0	NS
N	*Stereocaulon intermedium*	Pacific Brain Foam Lichen				S1S3	1	95.7 ± 2.0	NS
N	*Anacamptodon splachnoides*	a Moss				S2	1	65.2 ± 3.0	NS
N	*Sphagnum platyphyllum*	Flat-leaved Peat Moss				S2	2	81.1 ± 3.0	NS
N	*Sphagnum subnitens*	Lustrous Peat Moss				S2	1	93.2 ± 2.0	NS
N	*Scytinium imbricatum*	Scaly Jellyskin Lichen				S2	1	58.0 ± 4.0	NS
N	*Nephroma resupinatum*	a lichen				S2	2	85.1 ± 1.0	NS
N	*Placynthium flabellosum*	Scaly Ink Lichen				S2	1	68.9 ± 17.0	NS
N	*Anaptychia crinalis*	Hanging Fringed Lichen				S2	2	98.3 ± 4.0	PE
N	*Riccardia multifida*	Delicate Germanderwort				S2?	1	68.9 ± 0.0	NS
N	*Anomodon viticulosus*	a Moss				S2?	1	24.9 ± 5.0	NS
N	*Weissia muhlenbergiana*	a Moss				S2?	4	89.0 ± 1.0	NS
N	*Atrichum angustatum*	Lesser Smoothcap Moss				S2?	2	15.5 ± 2.0	NS
N	*Ptychostomum pendulum*	Drooping Bryum				S2?	1	87.8 ± 2.0	NS
N	*Drepanocladus polygamus*	Polygamous Hook Moss				S2?	4	70.6 ± 4.0	NS
N	*Ditrichum rhynchostegium*	a Moss				S2?	1	62.2 ± 0.0	PE
N	*Kiaeria starkei*	Starke's Fork Moss				S2?	1	86.9 ± 10.0	NS
N	*Orthotrichum anomalum*	Anomalous Bristle Moss				S2?	1	95.2 ± 2.0	NS
N	*Philonotis marchica*	a Moss				S2?	2	18.6 ± 0.0	NS
N	*Platydictya*	False Willow Moss				S2?	1	56.3 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
	jungermannioides								
N	*Saelania glaucescens*	Blue Dew Moss				S2?	1	10.3 ± 0.0	NS
N	*Cyrtomnium hymenophylloides*	Short-pointed Lantern Moss				S2?	2	10.3 ± 0.0	NS
N	*Platylomella lescurii*	a Moss				S2?	1	71.8 ± 0.0	NS
N	*Oxyrrhynchium hians*	Light Beaked Moss				S2S3	4	59.6 ± 25.0	NS
N	*Platydictya subtilis*	Bark Willow Moss				S2S3	3	65.2 ± 3.0	NS
N	*Scorpidium revolvens*	Limprichtia Moss				S2S3	1	80.2 ± 0.0	NS
N	*Moelleropsis nebulosa*	Blue-gray Moss Shingle Lichen				S2S3	53	40.9 ± 3.0	NS
N	*Moelleropsis nebulosa ssp. frullaniae*	Blue-gray Moss Shingle Lichen				S2S3	3	69.9 ± 0.0	NS
N	*Ramalina thrausta*	Angelhair Ramalina Lichen				S2S3	15	40.5 ± 0.0	NS
N	*Collema leptaleum*	Crumpled Bat's Wing Lichen				S2S3	86	28.5 ± 0.0	NS
N	*Usnea ceratina*	Warty Beard Lichen				S2S3	1	61.7 ± 0.0	NS
N	*Usnea rubicunda*	Red Beard Lichen				S2S3	3	21.4 ± 0.0	NS
N	*Ahtiana aurescens*	Eastern Candlewax Lichen				S2S3	7	61.7 ± 0.0	NS
N	*Usnocetraria oakesiana*	Yellow Band Lichen				S2S3	3	82.0 ± 0.0	NS
N	*Cladonia incrassata*	Powder-foot British Soldiers Lichen				S2S3	1	91.7 ± 0.0	NS
N	*Cladonia parasitica*	Fence-rail Lichen				S2S3	4	34.7 ± 1.0	NS
N	*Scytinium tenuissimum*	Birdnest Jellyskin Lichen				S2S3	13	21.5 ± 0.0	NS
N	*Melanohalea septentrionalis*	Northern Camouflage Lichen				S2S3	2	81.6 ± 0.0	NS
N	*Myelochroa aurulenta*	Powdery Axil-bristle Lichen				S2S3	3	19.3 ± 0.0	NS
N	*Parmelia fertilis*	Fertile Shield Lichen				S2S3	10	9.9 ± 0.0	NS
N	*Hypotrachyna minarum*	Hairless-spined Shield Lichen				S2S3	1	82.1 ± 0.0	NS
N	*Parmeliopsis ambigua*	Green Starburst Lichen				S2S3	2	46.0 ± 1.0	NS
N	*Racodium rupestre*	Rockhair Lichen				S2S3	1	92.4 ± 1.0	NS
N	*Usnea cavernosa*	Pitted Beard Lichen				S2S3	2	82.2 ± 0.0	NS
N	*Usnea mutabilis*	Bloody Beard Lichen				S2S3	1	82.3 ± 0.0	NS
N	*Fuscopannaria sorediata*	a Lichen				S2S3	4	77.2 ± 0.0	NS
N	*Stereocaulon condensatum*	Granular Soil Foam Lichen				S2S3	11	30.9 ± 0.0	NS
N	*Physcia subtilis*	Slender Rosette Lichen				S2S3	1	72.0 ± 0.0	NS
N	*Cladonia coccifera*	Eastern Boreal Pixie-cup Lichen				S2S3	2	63.8 ± 4.0	NS
N	*Cladonia deformis*	Lesser Sulphur-cup Lichen				S2S3	3	76.7 ± 0.0	PE
N	*Ephemerum serratum*	a Moss				S3	4	32.4 ± 0.0	NS
N	*Fissidens taxifolius*	Yew-leaved Pocket Moss				S3	8	32.4 ± 0.0	NS
N	*Anomodon tristis*	a Moss				S3	10	89.2 ± 15.0	NS
N	*Sphagnum contortum*	Twisted Peat Moss				S3	4	62.4 ± 4.0	NS
N	*Tetraplodon angustatus*	Toothed-leaved Nitrogen Moss				S3	4	77.5 ± 0.0	NS
N	*Rostania occultata*	Crusted Tarpaper Lichen				S3	4	71.0 ± 0.0	NS
N	*Collema nigrescens*	Blistered Tarpaper Lichen				S3	18	52.3 ± 2.0	NS
N	*Solorina saccata*	Woodland Owl Lichen				S3	15	57.5 ± 2.0	NS
N	*Fuscopannaria ahlneri*	Corrugated Shingles Lichen				S3	80	13.9 ± 0.0	NS
N	*Scytinium lichenoides*	Tattered Jellyskin Lichen				S3	29	33.4 ± 0.0	NS
N	*Leptogium milligranum*	Stretched Jellyskin Lichen				S3	10	23.6 ± 0.0	NS
N	*Nephroma bellum*	Naked Kidney Lichen				S3	10	33.9 ± 0.0	NS
N	*Placynthium nigrum*	Common Ink Lichen				S3	4	53.2 ± 0.0	NS
N	*Platismatia norvegica*	Oldgrowth Rag Lichen				S3	1	97.2 ± 0.0	NS
N	*Punctelia appalachensis*	Appalachian Speckleback Lichen				S3	106	87.1 ± 0.0	NS
N	*Viridothelium virens*					S3	2	89.9 ± 0.0	NS
N	*Ephebe lanata*	Waterside Rockshag Lichen				S3	2	52.9 ± 0.0	NS
N	*Phaeophyscia adiastola*	Powder-tipped Shadow Lichen				S3	4	73.6 ± 0.0	PE

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
N	*Phaeophyscia pusilloides*	Pompom-tipped Shadow Lichen				S3	14	31.3 ± 0.0	NS
N	*Peltigera collina*	Tree Pelt Lichen				S3	10	2.0 ± 0.0	NS
N	*Barbula convoluta*	Lesser Bird's-claw Beard Moss				S3?	3	65.6 ± 0.0	PE
N	*Calliergon giganteum*	Giant Spear Moss				S3?	2	84.5 ± 3.0	NS
N	*Drummondia prorepens*	a Moss				S3?	1	99.0 ± 5.0	NS
N	*Elodium blandowii*	Blandow's Bog Moss				S3?	5	24.8 ± 3.0	NS
N	*Mnium stellare*	Star Leafy Moss				S3?	3	62.0 ± 1.0	NS
N	*Sphagnum lindbergii*	Lindberg's Peat Moss				S3?	1	96.7 ± 0.0	NS
N	*Sphagnum riparium*	Streamside Peat Moss				S3?	2	78.7 ± 0.0	NS
N	*Cladonia stygia*	Black-footed Reindeer Lichen				S3?	17	78.1 ± 0.0	NS
N	*Anomodon rugelii*	Rugel's Anomodon Moss				S3S4	1	90.1 ± 0.0	NS
N	*Dichelyma capillaceum*	Hairlike Dichelyma Moss				S3S4	1	88.9 ± 3.0	NS
N	*Encalypta ciliata*	Fringed Extinguisher Moss				S3S4	2	87.2 ± 3.0	NS
N	*Encalypta procera*	Slender Extinguisher Moss				S3S4	1	73.1 ± 3.0	NS
N	*Myurella julacea*	Small Mouse-tail Moss				S3S4	1	10.3 ± 0.0	NS
N	*Splachnum ampullaceum*	Cruet Dung Moss				S3S4	4	79.8 ± 0.0	NS
N	*Thamnobryum alleghaniense*	a Moss				S3S4	6	47.3 ± 0.0	NS
N	*Tomentypnum nitens*	Golden Fuzzy Fen Moss				S3S4	3	80.2 ± 0.0	NS
N	*Schistidium agassizii*	Elf Bloom Moss				S3S4	1	83.0 ± 0.0	NS
N	*Hylocomiastrum pyrenaicum*	a Feather Moss				S3S4	1	73.1 ± 3.0	NS
N	*Bryoria pseudofuscescens*	Mountain Horsehair Lichen				S3S4	13	70.0 ± 0.0	PE
N	*Enchylium tenax*	Soil Tarpaper Lichen				S3S4	10	33.4 ± 0.0	NS
N	*Sticta fuliginosa*	Peppered Moon Lichen				S3S4	50	28.7 ± 0.0	NS
N	*Arctoparmelia incurva*	Finger Ring Lichen				S3S4	2	94.1 ± 0.0	NS
N	*Scytinium teretiusculum*	Curly Jellyskin Lichen				S3S4	14	51.9 ± 0.0	NS
N	*Leptogium acadiense*	Acadian Jellyskin Lichen				S3S4	31	8.1 ± 0.0	NS
N	*Scytinium subtile*	Appressed Jellyskin Lichen				S3S4	33	37.4 ± 0.0	NS
N	*Cladonia floerkeana*	Gritty British Soldiers Lichen				S3S4	1	98.3 ± 0.0	NB
N	*Vahliella leucophaea*	Shelter Shingle Lichen				S3S4	11	46.3 ± 0.0	NS
N	*Heterodermia speciosa*	Powdered Fringe Lichen				S3S4	29	21.0 ± 0.0	NS
N	*Leptogium corticola*	Blistered Jellyskin Lichen				S3S4	40	57.4 ± 4.0	NS
N	*Melanohalea olivacea*	Spotted Camouflage Lichen				S3S4	8	45.0 ± 3.0	NS
N	*Parmeliopsis hyperopta*	Gray Starburst Lichen				S3S4	4	28.0 ± 1.0	NS
N	*Parmotrema perlatum*	Powdered Ruffle Lichen				S3S4	9	92.5 ± 0.0	NS
N	*Peltigera hymenina*	Cloudy Pelt Lichen				S3S4	1	91.0 ± 1.0	NS
N	*Sphaerophorus fragilis*	Fragile Coral Lichen				S3S4	1	94.1 ± 0.0	NS
N	*Coccocarpia palmicola*	Salted Shell Lichen				S3S4	655	46.9 ± 0.0	NS
N	*Physcia tenella*	Fringed Rosette Lichen				S3S4	6	61.9 ± 0.0	PE
N	*Anaptychia palmulata*	Shaggy Fringed Lichen				S3S4	90	7.8 ± 0.0	NS
N	*Evernia prunastri*	Valley Oakmoss Lichen				S3S4	44	21.4 ± 0.0	NS
N	*Heterodermia neglecta*	Fringe Lichen				S3S4	60	22.9 ± 0.0	NS
P	*Fraxinus nigra*	Black Ash	Threatened		Threatened	S1S2	577	2.9 ± 0.0	NS
P	*Bartonia paniculata ssp. paniculata*	Branched Bartonia	Threatened	Threatened		SNA	1	53.3 ± 10.0	NS
P	*Lilaeopsis chinensis*	Eastern Lilaeopsis	Special Concern	Special Concern	Vulnerable	S3	17	46.9 ± 0.0	NS
P	*Isoetes prototypus*	Prototype Quillwort	Special Concern	Special Concern	Vulnerable	S3	13	31.2 ± 0.0	NS
P	*Floerkea proserpinacoides*	False Mermaidweed	Not At Risk			S2S3	1	19.8 ± 7.0	NS
P	*Acer saccharinum*	Silver Maple				S1	1	98.9 ± 20.0	PE
P	*Osmorhiza depauperata*	Blunt Sweet Cicely				S1	1	99.3 ± 5.0	NS
P	*Nabalus racemosus*	Glaucous Rattlesnakeroot				S1	1	98.9 ± 20.0	PE
P	*Andersonglossum boreale*	Northern Wild Comfrey				S1	3	86.2 ± 1.0	NS
P	*Lobelia spicata*	Pale-Spiked Lobelia				S1	13	29.8 ± 7.0	NS
P	*Hudsonia tomentosa*	Woolly Beach-heath				S1	37	57.9 ± 7.0	NS
P	*Callitriche hermaphroditica*	Northern Water-starwort				S1	6	93.4 ± 0.0	PE
P	*Elatine americana*	American Waterwort				S1	2	56.0 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Ribes americanum*	Wild Black Currant				S1	4	19.5 ± 5.0	NS
P	*Utricularia ochroleuca*	Yellowish-white Bladderwort				S1	37	79.5 ± 0.0	NS
P	*Fraxinus pennsylvanica*	Red Ash				S1	9	38.3 ± 0.0	NS
P	*Polygonum achoreum*	Leathery Knotweed				S1	1	92.2 ± 0.0	NB
P	*Persicaria careyi*	Carey's Smartweed				S1	1	41.1 ± 3.0	NS
P	*Phytolacca americana*	Common Pokeweed				S1	1	96.9 ± 0.0	NS
P	*Clematis occidentalis*	Purple Clematis				S1	3	80.0 ± 0.0	NS
P	*Ranunculus pensylvanicus*	Pennsylvania Buttercup				S1	31	27.5 ± 0.0	NS
P	*Amelanchier nantucketensis*	Nantucket Serviceberry				S1	1	81.2 ± 1.0	NS
P	*Salix myrtillifolia*	Blueberry Willow				S1	1	60.8 ± 0.0	NS
P	*Salix serissima*	Autumn Willow				S1	2	60.8 ± 0.0	NS
P	*Carex garberi*	Garber's Sedge				S1	4	19.2 ± 0.0	NS
P	*Carex granularis*	Limestone Meadow Sedge				S1	2	80.0 ± 0.0	NS
P	*Carex laxiflora*	Loose-Flowered Sedge				S1	1	93.1 ± 1.0	NS
P	*Carex ormostachya*	Necklace Spike Sedge				S1	1	79.9 ± 1.0	NB
P	*Carex plantaginea*	Plantain-Leaved Sedge				S1	4	16.6 ± 0.0	NS
P	*Carex prairea*	Prairie Sedge				S1	1	88.2 ± 0.0	PE
P	*Carex tenuiflora*	Sparse-Flowered Sedge				S1	2	79.6 ± 0.0	NS
P	*Carex tincta*	Tinged Sedge				S1	3	87.6 ± 0.0	PE
P	*Carex viridula var. saxilittoralis*	Greenish Sedge				S1	4	97.9 ± 2.0	NS
P	*Cyperus lupulinus ssp. macilentus*	Hop Flatsedge				S1	3	50.5 ± 0.0	NS
P	*Scirpus atrovirens*	Dark-green Bulrush				S1	4	41.0 ± 0.0	NS
P	*Blysmopsis rufa*	Red Bulrush				S1	3	96.8 ± 1.0	PE
P	*Iris prismatica*	Slender Blue Flag				S1	1	99.1 ± 1.0	NS
P	*Juncus vaseyi*	Vasey Rush				S1	4	20.9 ± 0.0	NS
P	*Malaxis monophyllos var. brachypoda*	North American White Adder's-mouth				S1	6	61.0 ± 1.0	NS
P	*Calamagrostis stricta ssp. inexpansa*	Slim-stemmed Reed Grass				S1	1	88.5 ± 1.0	NB
P	*Elymus hystrix*	Spreading Wild Rye				S1	12	38.0 ± 1.0	NS
P	*Adiantum pedatum*	Northern Maidenhair Fern				S1	12	19.0 ± 1.0	NS
P	*Selaginella rupestris*	Rock Spikemoss				S1	1	86.0 ± 0.0	NS
P	*Solidago hispida*	Hairy Goldenrod				S1?	1	68.6 ± 7.0	NS
P	*Suaeda rolandii*	Roland's Sea-Blite				S1?	6	52.7 ± 2.0	NS
P	*Carex pensylvanica*	Pennsylvania Sedge				S1?	3	39.6 ± 3.0	NS
P	*Bolboschoenus robustus*	Sturdy Bulrush				S1?	2	34.1 ± 7.0	NS
P	*Allium schoenoprasum*	Wild Chives				S1?	7	19.0 ± 0.0	NS
P	*Allium schoenoprasum var. sibiricum*	Wild Chives				S1?	1	18.9 ± 7.0	NS
P	*Cypripedium arietinum*	Ram's-Head Lady's-Slipper			Endangered	S1S2	300	28.7 ± 0.0	NS
P	*Sanicula odorata*	Clustered Sanicle				S1S2	9	32.9 ± 10.0	NS
P	*Draba glabella*	Rock Whitlow-Grass				S1S2	2	87.1 ± 0.0	NS
P	*Proserpinaca intermedia*	Intermediate Mermaidweed				S1S2	1	60.9 ± 0.0	NS
P	*Anemone virginiana var. alba*	Virginia Anemone				S1S2	5	18.7 ± 5.0	NS
P	*Parnassia parviflora*	Small-flowered Grass-of-Parnassus				S1S2	1	89.9 ± 1.0	NS
P	*Carex haydenii*	Hayden's Sedge				S1S2	4	18.5 ± 1.0	NS
P	*Platanthera huronensis*	Fragrant Green Orchid				S1S2	4	79.2 ± 10.0	NS
P	*Calamagrostis stricta ssp. stricta*	Slim-stemmed Reed Grass				S1S2	24	73.3 ± 7.0	NS
P	*Carex vacillans*	Estuarine Sedge				S1S3	4	85.1 ± 0.0	NB
P	*Zizia aurea*	Golden Alexanders				S2	40	18.6 ± 0.0	NS
P	*Antennaria parlinii ssp. fallax*	Parlin's Pussytoes				S2	13	25.4 ± 0.0	NS
P	*Rudbeckia laciniata*	Cut-Leaved Coneflower				S2	29	18.4 ± 0.0	NS
P	*Rudbeckia laciniata var.*	Cut-Leaved Coneflower				S2	1	99.6 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
	laciniata								
P	*Arabis pycnocarpa*	Cream-flowered Rockcress				S2	1	65.6 ± 0.0	NS
P	*Cardamine maxima*	Large Toothwort				S2	1	95.1 ± 0.0	NS
P	*Hudsonia ericoides*	Pinebarren Golden Heather				S2	2	97.1 ± 5.0	PE
P	*Desmodium canadense*	Canada Tick-trefoil				S2	20	18.7 ± 0.0	NS
P	*Hylodesmum glutinosum*	Large Tick-trefoil				S2	7	76.7 ± 0.0	NS
P	*Anemonastrum canadense*	Canada Anemone				S2	4	19.5 ± 0.0	NS
P	*Hepatica americana*	Round-lobed Hepatica				S2	63	25.0 ± 0.0	NS
P	*Ranunculus sceleratus*	Cursed Buttercup				S2	17	92.5 ± 0.0	NS
P	*Galium boreale*	Northern Bedstraw				S2	10	32.0 ± 5.0	NS
P	*Comandra umbellata*	Bastard's Toadflax				S2	13	95.9 ± 1.0	NB
P	*Gratiola neglecta*	Clammy Hedge-Hyssop				S2	19	32.4 ± 2.0	NS
P	*Dirca palustris*	Eastern Leatherwood				S2	66	50.4 ± 7.0	NS
P	*Carex chordorrhiza*	Creeping Sedge				S2	53	78.3 ± 0.0	NS
P	*Carex gynocrates*	Northern Bog Sedge				S2	2	60.8 ± 0.0	NS
P	*Carex pellita*	Woolly Sedge				S2	12	18.8 ± 0.0	NS
P	*Carex livida*	Livid Sedge				S2	49	53.2 ± 0.0	NS
P	*Juncus greenei*	Greene's Rush				S2	7	39.1 ± 1.0	NS
P	*Juncus alpinoarticulatus ssp. americanus*	Northern Green Rush				S2	5	96.9 ± 3.0	PE
P	*Allium tricoccum*	Wild Leek				S2	29	18.3 ± 0.0	NS
P	*Lilium canadense*	Canada Lily				S2	122	13.5 ± 1.0	NS
P	*Cypripedium parviflorum var. pubescens*	Yellow Lady's-slipper				S2	22	42.5 ± 7.0	NS
P	*Cypripedium parviflorum var. makasin*	Small Yellow Lady's-Slipper				S2	9	85.0 ± 0.0	NS
P	*Cypripedium reginae*	Showy Lady's-Slipper				S2	64	39.2 ± 0.0	NS
P	*Platanthera flava var. flava*	Southern Rein Orchid				S2	1	96.4 ± 7.0	NS
P	*Platanthera flava var. herbiola*	Pale Green Orchid				S2	11	17.8 ± 1.0	NS
P	*Platanthera macrophylla*	Large Round-Leaved Orchid				S2	13	7.9 ± 1.0	NS
P	*Bromus latiglumis*	Broad-Glumed Brome				S2	33	32.2 ± 0.0	NS
P	*Cinna arundinacea*	Sweet Wood Reed Grass				S2	19	38.1 ± 0.0	NS
P	*Elymus wiegandii*	Wiegand's Wild Rye				S2	20	24.7 ± 0.0	NS
P	*Festuca subverticillata*	Nodding Fescue				S2	13	44.0 ± 1.0	NS
P	*Cryptogramma stelleri*	Steller's Rockbrake				S2	3	51.1 ± 0.0	NS
P	*Cuscuta cephalanthi*	Buttonbush Dodder				S2?	2	43.0 ± 1.0	NS
P	*Rumex persicarioides*	Peach-leaved Dock				S2?	3	74.0 ± 5.0	PE
P	*Crataegus submollis*	Quebec Hawthorn				S2?	7	21.2 ± 5.0	NS
P	*Carex peckii*	White-Tinged Sedge				S2?	4	14.2 ± 0.0	NS
P	*Thuja occidentalis*	Eastern White Cedar			Vulnerable	S2S3	949	37.2 ± 0.0	NS
P	*Osmorhiza longistylis*	Smooth Sweet Cicely				S2S3	31	20.2 ± 5.0	NS
P	*Bidens hyperborea*	Estuary Beggarticks				S2S3	2	47.6 ± 0.0	NS
P	*Erigeron philadelphicus*	Philadelphia Fleabane				S2S3	7	51.9 ± 5.0	NS
P	*Lactuca hirsuta*	Hairy Lettuce				S2S3	4	76.8 ± 5.0	PE
P	*Impatiens pallida*	Pale Jewelweed				S2S3	2	32.9 ± 0.0	NS
P	*Caulophyllum thalictroides*	Blue Cohosh				S2S3	82	18.3 ± 0.0	NS
P	*Draba arabisans*	Rock Whitlow-Grass				S2S3	13	78.6 ± 0.0	NS
P	*Boechera stricta*	Drummond's Rockcress				S2S3	12	12.4 ± 1.0	NS
P	*Stellaria humifusa*	Saltmarsh Starwort				S2S3	5	62.2 ± 1.0	NS
P	*Oxybasis rubra*	Red Goosefoot				S2S3	6	47.1 ± 0.0	NS
P	*Hypericum majus*	Large St John's-wort				S2S3	19	28.8 ± 0.0	NS
P	*Hypericum x dissimulatum*	Disguised St. John's-wort				S2S3	8	32.6 ± 1.0	NS
P	*Empetrum atropurpureum*	Purple Crowberry				S2S3	2	97.0 ± 5.0	PE
P	*Euphorbia polygonifolia*	Seaside Spurge				S2S3	7	61.7 ± 1.0	PE
P	*Myriophyllum farwellii*	Farwell's Water Milfoil				S2S3	13	36.7 ± 1.0	NS
P	*Hedeoma pulegioides*	American False Pennyroyal				S2S3	11	33.2 ± 1.0	NS
P	*Oenothera fruticosa ssp.*	Narrow-leaved Evening				S2S3	6	18.8 ± 7.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
	tetragona	Primrose							
P	*Polygonum aviculare ssp. buxiforme*	Box Knotweed				S2S3	7	18.9 ± 7.0	NS
P	*Polygonum oxyspermum ssp. raii*	Ray's Knotweed				S2S3	4	96.6 ± 5.0	PE
P	*Polygonum oxyspermum*	Sharp-fruit Knotweed				S2S3	1	93.0 ± 0.0	NS
P	*Rumex triangulivalvis*	Triangular-valve Dock				S2S3	8	29.9 ± 0.0	NS
P	*Primula mistassinica*	Mistassini Primrose				S2S3	16	18.6 ± 0.0	NS
P	*Anemone quinquefolia*	Wood Anemone				S2S3	18	27.7 ± 0.0	NS
P	*Caltha palustris*	Yellow Marsh Marigold				S2S3	36	65.0 ± 0.0	NS
P	*Amelanchier fernaldii*	Fernald's Serviceberry				S2S3	1	60.8 ± 5.0	NS
P	*Potentilla canadensis*	Canada Cinquefoil				S2S3	4	36.1 ± 5.0	NS
P	*Galium obtusum*	Blunt-leaved Bedstraw				S2S3	1	79.9 ± 1.0	NB
P	*Salix pellita*	Satiny Willow				S2S3	8	31.6 ± 7.0	NS
P	*Tiarella cordifolia*	Heart-leaved Foamflower				S2S3	222	8.6 ± 0.0	NS
P	*Agalinis purpurea var. parviflora*	Small-flowered Purple False Foxglove				S2S3	27	25.5 ± 0.0	NS
P	*Boehmeria cylindrica*	Small-spike False-nettle				S2S3	2	62.3 ± 0.0	NS
P	*Carex adusta*	Lesser Brown Sedge				S2S3	5	15.8 ± 7.0	NS
P	*Carex capillaris*	Hairlike Sedge				S2S3	2	66.5 ± 0.0	NS
P	*Carex comosa*	Bearded Sedge				S2S3	12	15.8 ± 7.0	NS
P	*Carex houghtoniana*	Houghton's Sedge				S2S3	5	39.5 ± 1.0	NS
P	*Carex hystericina*	Porcupine Sedge				S2S3	8	28.1 ± 0.0	NS
P	*Eleocharis ovata*	Ovate Spikerush				S2S3	12	11.7 ± 0.0	NS
P	*Scirpus pedicellatus*	Stalked Bulrush				S2S3	7	39.5 ± 0.0	NS
P	*Vallisneria americana*	Wild Celery				S2S3	8	36.4 ± 1.0	NS
P	*Najas gracillima*	Thread-Like Naiad				S2S3	2	84.5 ± 0.0	NS
P	*Goodyera pubescens*	Downy Rattlesnake-Plantain				S2S3	13	60.0 ± 1.0	NS
P	*Spiranthes lucida*	Shining Ladies'-Tresses				S2S3	26	18.6 ± 0.0	NS
P	*Calamagrostis stricta*	Slim-stemmed Reed Grass				S2S3	8	79.4 ± 0.0	NS
P	*Potamogeton friesii*	Fries' Pondweed				S2S3	16	19.6 ± 5.0	NS
P	*Woodsia glabella*	Smooth Cliff Fern				S2S3	2	26.9 ± 1.0	NS
P	*Botrychium lanceolatum ssp. angustisegmentum*	Narrow Triangle Moonwort				S2S3	12	19.9 ± 1.0	NS
P	*Botrychium simplex*	Least Moonwort				S2S3	5	51.2 ± 0.0	NS
P	*Ophioglossum pusillum*	Northern Adder's-tongue				S2S3	10	18.3 ± 0.0	NS
P	*Potamogeton pulcher*	Spotted Pondweed			Vulnerable	S3	3	52.7 ± 2.0	NS
P	*Angelica atropurpurea*	Purple-stemmed Angelica				S3	6	39.3 ± 0.0	NS
P	*Conioselinum chinense*	Chinese Hemlock-parsley				S3	7	29.7 ± 5.0	NS
P	*Hieracium robinsonii*	Robinson's Hawkweed				S3	3	17.1 ± 7.0	NS
P	*Iva frutescens*	Big-leaved Marsh-elder				S3	28	83.4 ± 0.0	NS
P	*Senecio pseudoarnica*	Seabeach Ragwort				S3	13	18.9 ± 7.0	NS
P	*Symphyotrichum boreale*	Boreal Aster				S3	44	18.9 ± 7.0	NS
P	*Symphyotrichum undulatum*	Wavy-leaved Aster				S3	7	85.7 ± 0.0	NS
P	*Symphyotrichum ciliolatum*	Fringed Blue Aster				S3	23	39.0 ± 0.0	NS
P	*Betula pumila var. pumila*	Bog Birch				S3	1	83.6 ± 1.0	NS
P	*Betula michauxii*	Michaux's Dwarf Birch				S3	30	60.2 ± 0.0	NS
P	*Betula pumila*	Bog Birch				S3	25	61.3 ± 0.0	NS
P	*Cardamine parviflora*	Small-flowered Bittercress				S3	9	87.0 ± 0.0	NS
P	*Palustricodon aparinoides*	Marsh Bellflower				S3	42	13.9 ± 1.0	NS
P	*Mononeuria groenlandica*	Greenland Stitchwort				S3	4	73.0 ± 0.0	NS
P	*Sagina nodosa*	Knotted Pearlwort				S3	9	95.9 ± 1.0	NS
P	*Sagina nodosa ssp. borealis*	Knotted Pearlwort				S3	8	96.9 ± 5.0	PE
P	*Stellaria longifolia*	Long-leaved Starwort				S3	19	15.6 ± 0.0	NS
P	*Ceratophyllum echinatum*	Prickly Hornwort				S3	37	20.8 ± 0.0	NS
P	*Triosteum aurantiacum*	Orange-fruited Tinker's Weed				S3	83	14.5 ± 0.0	NS
P	*Viburnum edule*	Squashberry				S3	3	24.3 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Crassula aquatica*	Water Pygmyweed				S3	2	96.6 ± 5.0	PE
P	*Empetrum eamesii*	Pink Crowberry				S3	8	69.1 ± 5.0	PE
P	*Geranium bicknellii*	Bicknell's Crane's-bill				S3	11	29.1 ± 2.0	NS
P	*Myriophyllum verticillatum*	Whorled Water Milfoil				S3	12	41.2 ± 0.0	NS
P	*Epilobium strictum*	Downy Willowherb				S3	55	19.7 ± 5.0	NS
P	*Polygala sanguinea*	Blood Milkwort				S3	21	11.6 ± 1.0	NS
P	*Persicaria arifolia*	Halberd-leaved Tearthumb				S3	85	24.5 ± 0.0	NS
P	*Plantago rugelii*	Rugel's Plantain				S3	8	18.9 ± 7.0	NS
P	*Primula laurentiana*	Laurentian Primrose				S3	6	93.2 ± 0.0	NS
P	*Samolus parviflorus*	Seaside Brookweed				S3	12	33.9 ± 0.0	NS
P	*Pyrola minor*	Lesser Pyrola				S3	3	18.4 ± 0.0	NS
P	*Anemone virginiana*	Virginia Anemone				S3	17	18.7 ± 0.0	NS
P	*Galium labradoricum*	Labrador Bedstraw				S3	97	39.4 ± 0.0	NS
P	*Salix pedicellaris*	Bog Willow				S3	62	40.0 ± 0.0	NS
P	*Salix sericea*	Silky Willow				S3	1	72.4 ± 1.0	NS
P	*Saxifraga paniculata ssp. laestadii*	Laestadius' Saxifrage				S3	4	87.0 ± 1.0	NS
P	*Lindernia dubia*	Yellow-seeded False Pimperel				S3	51	24.5 ± 0.0	NS
P	*Laportea canadensis*	Canada Wood Nettle				S3	59	16.6 ± 0.0	NS
P	*Pilea pumila*	Dwarf Clearweed				S3	29	31.0 ± 0.0	NS
P	*Viola nephrophylla*	Northern Bog Violet				S3	9	8.0 ± 1.0	NS
P	*Carex bebbii*	Bebb's Sedge				S3	35	18.6 ± 0.0	NS
P	*Carex castanea*	Chestnut Sedge				S3	26	57.4 ± 0.0	NS
P	*Carex cryptolepis*	Hidden-scaled Sedge				S3	18	25.2 ± 10.0	NS
P	*Carex eburnea*	Bristle-leaved Sedge				S3	11	33.3 ± 0.0	NS
P	*Carex hirtifolia*	Pubescent Sedge				S3	54	14.3 ± 0.0	NS
P	*Carex lupulina*	Hop Sedge				S3	48	25.2 ± 10.0	NS
P	*Carex rosea*	Rosy Sedge				S3	41	14.3 ± 0.0	NS
P	*Carex swanii*	Swan's Sedge				S3	2	93.8 ± 0.0	NS
P	*Carex tenera*	Tender Sedge				S3	11	24.4 ± 0.0	NS
P	*Carex tribuloides*	Blunt Broom Sedge				S3	14	12.8 ± 0.0	NS
P	*Carex tuckermanii*	Tuckerman's Sedge				S3	48	24.0 ± 0.0	NS
P	*Carex atratiformis*	Scabrous Black Sedge				S3	3	77.1 ± 1.0	NS
P	*Eleocharis nitida*	Quill Spikerush				S3	11	53.9 ± 7.0	NS
P	*Eleocharis flavescens var. olivacea*	Bright-green Spikerush				S3	5	38.5 ± 0.0	NS
P	*Eriophorum gracile*	Slender Cottongrass				S3	52	20.0 ± 10.0	NS
P	*Juncus stygius ssp. americanus*	Moor Rush				S3	75	79.4 ± 0.0	NS
P	*Coeloglossum viride*	Long-bracted Frog Orchid				S3	1	35.2 ± 0.0	NS
P	*Cypripedium parviflorum*	Yellow Lady's-slipper				S3	556	38.0 ± 1.0	NS
P	*Neottia bifolia*	Southern Twayblade				S3	75	1.4 ± 0.0	NS
P	*Platanthera grandiflora*	Large Purple Fringed Orchid				S3	141	13.7 ± 0.0	NS
P	*Platanthera hookeri*	Hooker's Orchid				S3	22	28.8 ± 0.0	NS
P	*Dichanthelium linearifolium*	Narrow-leaved Panic Grass				S3	5	18.7 ± 0.0	NS
P	*Piptatheropsis canadensis*	Canada Ricegrass				S3	8	18.1 ± 1.0	NS
P	*Poa glauca*	Glaucous Blue Grass				S3	8	66.5 ± 0.0	NS
P	*Stuckenia filiformis*	Thread-leaved Pondweed				S3	5	95.7 ± 0.0	PE
P	*Potamogeton praelongus*	White-stemmed Pondweed				S3	37	11.9 ± 1.0	NS
P	*Potamogeton richardsonii*	Richardson's Pondweed				S3	5	16.8 ± 7.0	NS
P	*Potamogeton zosteriformis*	Flat-stemmed Pondweed				S3	27	36.4 ± 2.0	NS
P	*Asplenium viride*	Green Spleenwort				S3	12	33.3 ± 7.0	NS
P	*Dryopteris fragrans*	Fragrant Wood Fern				S3	15	6.8 ± 4.0	NS
P	*Sceptridium dissectum*	Dissected Moonwort				S3	9	21.5 ± 5.0	NS
P	*Polypodium appalachianum*	Appalachian Polypody				S3	15	16.8 ± 0.0	NS
P	*Persicaria amphibia var. emersa*	Long-root Smartweed				S3?	4	61.7 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Spiranthes ochroleuca*	Yellow Ladies'-tresses				S3?	22	4.5 ± 0.0	NS
P	*Diphasiastrum x sabinifolium*	Savin-leaved Ground-cedar				S3?	13	13.2 ± 0.0	NS
P	*Bidens vulgata*	Tall Beggarticks				S3S4	6	20.2 ± 0.0	NS
P	*Erigeron hyssopifolius*	Hyssop-leaved Fleabane				S3S4	34	27.4 ± 0.0	NS
P	*Hieracium paniculatum*	Panicled Hawkweed				S3S4	9	16.3 ± 0.0	NS
P	*Bidens beckii*	Water Beggarticks				S3S4	29	22.0 ± 1.0	NS
P	*Packera paupercula*	Balsam Groundsel				S3S4	99	18.6 ± 0.0	NS
P	*Packera paupercula var. paupercula*	Balsam Groundsel				S3S4	1	86.7 ± 0.0	NS
P	*Atriplex glabriuscula var. franktonii*	Frankton's Saltbush				S3S4	19	30.9 ± 2.0	NS
P	*Shepherdia canadensis*	Soapberry				S3S4	101	83.1 ± 1.0	NS
P	*Vaccinium boreale*	Northern Blueberry				S3S4	4	68.8 ± 1.0	NS
P	*Vaccinium cespitosum*	Dwarf Bilberry				S3S4	50	20.0 ± 0.0	NS
P	*Vaccinium corymbosum*	Highbush Blueberry				S3S4	2	78.4 ± 0.0	NS
P	*Fagus grandifolia*	American Beech				S3S4	275	4.7 ± 0.0	NS
P	*Bartonia virginica*	Yellow Bartonia				S3S4	1	72.4 ± 7.0	NS
P	*Proserpinaca pectinata*	Comb-leaved Mermaidweed				S3S4	4	53.1 ± 1.0	NS
P	*Decodon verticillatus*	Swamp Loosestrife				S3S4	1	98.4 ± 0.0	PE
P	*Nuphar microphylla*	Small Yellow Pond-lily				S3S4	8	27.2 ± 1.0	NS
P	*Persicaria pensylvanica*	Pennsylvania Smartweed				S3S4	32	15.9 ± 0.0	NS
P	*Fallopia scandens*	Climbing False Buckwheat				S3S4	35	18.9 ± 7.0	NS
P	*Rumex pallidus*	Seabeach Dock				S3S4	1	90.8 ± 0.0	NS
P	*Pyrola asarifolia*	Pink Pyrola				S3S4	13	19.0 ± 1.0	NS
P	*Endotropis alnifolia*	alder-leaved buckthorn				S3S4	267	28.1 ± 0.0	NS
P	*Amelanchier spicata*	Running Serviceberry				S3S4	14	36.2 ± 5.0	NS
P	*Crataegus succulenta*	Fleshy Hawthorn				S3S4	5	84.1 ± 5.0	PE
P	*Fragaria vesca ssp. americana*	Woodland Strawberry				S3S4	71	14.0 ± 0.0	NS
P	*Fragaria vesca*	Woodland Strawberry				S3S4	1	41.0 ± 0.0	NS
P	*Galium aparine*	Common Bedstraw				S3S4	24	21.2 ± 0.0	NS
P	*Geocaulon lividum*	Northern Comandra				S3S4	11	38.7 ± 0.0	NS
P	*Limosella australis*	Southern Mudwort				S3S4	34	34.9 ± 0.0	NS
P	*Ulmus americana*	White Elm				S3S4	102	14.0 ± 0.0	NS
P	*Verbena hastata*	Blue Vervain				S3S4	215	18.5 ± 0.0	NS
P	*Viola sagittata var. ovata*	Arrow-Leaved Violet				S3S4	9	73.5 ± 1.0	PE
P	*Viola selkirkii*	Great-Spurred Violet				S3S4	5	35.2 ± 0.0	NS
P	*Symplocarpus foetidus*	Eastern Skunk Cabbage				S3S4	130	75.1 ± 0.0	NB
P	*Carex argyrantha*	Silvery-flowered Sedge				S3S4	5	77.7 ± 5.0	PE
P	*Triglochin gaspensis*	Gasp ├⌐ Arrowgrass				S3S4	22	81.9 ± 0.0	NB
P	*Juncus acuminatus*	Sharp-Fruit Rush				S3S4	7	50.5 ± 2.0	NS
P	*Juncus subcaudatus*	Woods-Rush				S3S4	19	26.1 ± 3.0	NS
P	*Luzula parviflora ssp. melanocarpa*	Black-fruited Woodrush				S3S4	5	50.8 ± 0.0	NS
P	*Goodyera repens*	Lesser Rattlesnake-plantain				S3S4	21	61.1 ± 1.0	PE
P	*Liparis loeselii*	Loesel's Twayblade				S3S4	22	20.7 ± 1.0	NS
P	*Platanthera obtusata*	Blunt-leaved Orchid				S3S4	5	42.6 ± 1.0	NS
P	*Platanthera orbiculata*	Small Round-leaved Orchid				S3S4	39	6.0 ± 0.0	NS
P	*Alopecurus aequalis*	Short-awned Foxtail				S3S4	29	19.4 ± 1.0	NS
P	*Dichanthelium clandestinum*	Deer-tongue Panic Grass				S3S4	164	52.0 ± 5.0	NS
P	*Panicum philadelphicum*	Philadelphia Panicgrass				S3S4	15	27.4 ± 0.0	NS
P	*Koeleria spicata*	Narrow False Oats				S3S4	17	18.6 ± 0.0	NS
P	*Asplenium trichomanes*	Maidenhair Spleenwort				S3S4	12	81.6 ± 1.0	NS
P	*Equisetum pratense*	Meadow Horsetail				S3S4	15	7.4 ± 0.0	NS
P	*Diphasiastrum complanatum*	Northern Ground-cedar				S3S4	14	22.6 ± 0.0	NS
P	*Diphasiastrum sitchense*	Sitka Ground-cedar				S3S4	5	12.9 ± 5.0	NS
P	*Huperzia appressa*	Mountain Firmoss				S3S4	17	3.5 ± 7.0	NS
P	*Sceptridium multifidum*	Leathery Moonwort				S3S4	13	37.4 ± 0.0	NS

Taxonomic Group	Scientific Name	Common Name	COSEWIC	SARA	Prov Legal Prot	Prov Rarity Rank	# recs	Distance (km)	Prov
P	*Botrychium matricariifolium*	Daisy-leaved Moonwort				S3S4	13	12.0 ± 1.0	NS
P	*Viola canadensis*	Canada Violet				SH	2	19.8 ± 7.0	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
14087	Morrison, Guy. 2011. Maritime Shorebird Survey (MSS) database. Canadian Wildlife Service, Ottawa, 15939 surveys. 86171 recs.
10549	Lepage, D. 2014. Maritime Breeding Bird Atlas Database. Bird Studies Canada, Sackville NB, 407,838 recs.
7679	Paquet, Julie. 2018. Atlantic Canada Shorebird Survey (ACSS) database 2012-2018. Environment Canada, Canadian Wildlife Service.
5535	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
4422	Erskine, A.J. 1992. Maritime Breeding Bird Atlas Database. NS Museum & Nimbus Publ., Halifax, 82,125 recs.
3718	Eaton, S. 2014. Nova Scotia Wood Turtle Database. Environment and Climate Change Canada, 4843 recs.
2111	Berrigan, L. 2019. Maritimes Marsh Monitoring Project 2013, 2014, 2016, 2017, and 2018 data. Bird Studies Canada, Sackville, NB.
1686	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.
1654	iNaturalist. 2020. iNaturalist Data Export 2020. iNaturalist.org and iNaturalist.ca, Web site: 128728 recs.
1595	eBird. 2014. eBird Basic Dataset. Version: EBD_relNov-2014. Ithaca, New York. Nov 2014. Cornell Lab of Ornithology, 25036 recs.
895	Patrick, A.; Horne, D.; Noseworthy, J. et. al. 2017. Field data for Nova Scotia and New Brunswick, 2015 and 2017. Nature Conservancy of Canada.
887	SwiftWatch. 2022. Total Chimney Swift counts from roost watches for the duration of the SwiftWatch program (2011-2021). Birds Canada.
636	Neily, T.H. & Pepper, C.; Toms, B. 2018. Nova Scotia lichen database [as of 2018-03]. Mersey Tobeatic Research Institute.
622	Cameron, E. 2008. Canadian Gypsum Co. survey 2007-08. Conestoga-Rovers & Assoc., 623 recs.
564	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2015. Atlantic Canada Conservation Data Centre Fieldwork 2015. Atlantic Canada Conservation Data Centre, # recs.
564	Paquet, Julie. 2019. Atlantic Canada Shorebird Survey ACSS database for 2019. Environment Canada, Canadian Wildlife Service.
528	Amirault, D.L. & Stewart, J. 2007. Piping Plover Database 1894-2006. Canadian Wildlife Service, Sackville, 3344 recs, 1228 new.
427	Tranquilla, L. 2015. Maritimes Marsh Monitoring Project 2015 data. Bird Studies Canada, Sackville NB, 5062 recs.
423	Clayden, S. Digitization of Wolfgang Maass Nova Scotia forest lichen collections, 1964-2004. New Brunswick Museum. 2018.
421	Parks Canada. 2021. PEI National Park Bank swallow nest records from 2010-2019. Parks Canada, 1535 records.
398	Benjamin, L.K. (compiler). 2007. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 8439 recs.
358	Belliveau, A.G. 2020. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2019, 2020. E.C. Smith Herbarium.
354	Blaney, C.S.; Mazerolle, D.M. 2010. Fieldwork 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 15508 recs.
331	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2014. Atlantic Canada Conservation Data Centre Fieldwork 2014. Atlantic Canada Conservation Data Centre, # recs.
304	Newell, R.E. 2000. E.C. Smith Herbarium Database. Acadia University, Wolfville NS, 7139 recs.
279	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.
276	Blaney, C.S.; Mazerolle, D.M. 2012. Fieldwork 2012. Atlantic Canada Conservation Data Centre, 13,278 recs.
274	Benjamin, L.K. (compiler). 2012. Significant Habitat & Species Database. Nova Scotia Dept Natural Resources, 4965 recs.
272	Neily, T.H. & Pepper, C.; Toms, B. 2013. Nova Scotia lichen location database. Mersey Tobeatic Research Institute, 1301 records.
252	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.
240	Scott, F.W. 2002. Nova Scotia Herpetofauna Atlas Database. Acadia University, Wolfville NS, 8856 recs.
239	Chapman-Lam, C.J. 2022. Atlantic Canada Conservation Data Centre 2021 botanical fieldwork. Atlantic Canada Conservation Data Centre, 15099 recs.
207	Neily, T.H. 2017. Nova Scotia lichen records. Mersey Tobeatic Research Institute.
201	Brunelle, P.-M. (compiler). 2009. ADIP/MDDS Odonata Database: data to 2006 inclusive. Atlantic Dragonfly Inventory Program (ADIP), 24200 recs.
198	Churchill, J.L.; Klymko, J.D. 2015. Chignecto and Tintamarre National Wildlife Area Bird Surveys 2015. Atlantic Canada Conservation Data Centre, 2238 recs.
196	LaPaix, R.W.; Crowell, M.J.; MacDonald, M. 2011. Stantec rare plant records, 2010-11. Stantec Consulting, 334 recs.
191	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.
189	Hicks, Andrew. 2009. Coastal Waterfowl Surveys Database, 2000-08. Canadian Wildlife Service, Sackville, 46488 recs (11149 non-zero).
184	Klymko, J. 2018. Maritimes Butterfly Atlas database. Atlantic Canada Conservation Data Centre.
180	Blaney, C.S. & Mazerolle, D.M. 2011. Field data from NCC properties at Musquash Harbour NB & Goose Lake NS. Atlantic Canada Conservation Data Centre, 1739 recs.
178	Bryson, I. 2013. Nova Scotia rare plant records. CBCL Ltd., 180 records.
168	Island Nature Trust. 2016. Farmland birds project. Mader, Shannon (ed.) .
163	Wilhelm, S.I. et al. 2011. Colonial Waterbird Database. Canadian Wildlife Service, Sackville, 2698 sites, 9718 recs (8192 obs).
160	Chapman, C.J. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 11171 recs.
145	Mazerolle, D.M. 2018. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. Atlantic Canada Conservation Data Centre, 13515 recs.
142	Toms, B. 2018. Bat Species data from www.batconservation.ca for Nova Scotia. Mersey Tobeatic Research Institute, 547 Records.

# recs	CITATION
141	Pepper, C. 2013. 2013 rare bird and plant observations in Nova Scotia. , 181 records.
140	Chapman-Lam, C.J. 2021. Atlantic Canada Conservation Data Centre 2020 botanical fieldwork. Atlantic Canada Conservation Data Centre, 17309 recs.
136	Churchill, J.L. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre, 907 recs.
134	Belliveau, A.G. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
129	Manthorne, A. 2014. MaritimesSwiftwatch Project database 2013-2014. Bird Studies Canada, Sackville NB, 326 recs.
127	MacDonald, Haley. 2022. Updates to Fraxinus nigra observations on NCC Docherty's Brook property. Nature Conservancy of Canada.
126	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.
116	Richardson, Leif. 2018. Maritimes Bombus records from various sources. Richardson, Leif.
114	Blaney, C.S. 2000. Fieldwork 2000. Atlantic Canada Conservation Data Centre. Sackville NB, 1265 recs.
112	Blaney, C.S. 2020. Sean Blaney 2020 field data. Atlantic Canada Conservation Data Centre, 4407 records.
112	Bryson, I.C. 2020. Nova Scotia flora and lichen observations 2020. Nova Scotia Environment, 139 recs.
107	Burke, Lindsey. 2022. Species data recorded during the 2021 season at Prince Edward Island National Park. Parks Canada.
106	McAlpine, D.F. 1998. NBM Science Collections databases to 1998. New Brunswick Museum, Saint John NB, 241 recs.
104	Catling, P.M., Erskine, D.S. & MacLaren, R.B. 1985. The Plants of Prince Edward Island with new records, nomenclatural changes & corrections & deletions, 1st Ed. Research Branch, Agriculture Canada, Ottawa, Publication 1798. 22pp.
100	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2013.
98	MacDonald, E.C. 2018. Piping Plover nest records from 2010-2017. Canadian Wildlife Service.
97	Cameron, R.P. 2009. Cyanolichen database. Nova Scotia Environment & Labour, 1724 recs.
96	LaPaix, R.W.; Crowell, M.J.; MacDonald, M.; Neily, T.D.; Quinn, G. 2017. Stantec Nova Scotia rare plant records, 2012-2016. Stantec Consulting.
87	McNeil, J.A. 2018. Wood Turtle records, 2018. Mersey Tobeatic Research Institute, 68 recs.
85	Blaney, C.S.; Mazerolle, D.M.; Belliveau, A.B. 2013. Atlantic Canada Conservation Data Centre Fieldwork 2013. Atlantic Canada Conservation Data Centre, 9000+ recs.
85	Munro, Marian K. Tracked lichen specimens, Nova Scotia Provincial Museum of Natural History Herbarium. Atlantic Canada Conservation Data Centre. 2019.
82	Burns, L. 2013. Personal communication concerning bat occurrence on PEI. Winter 2013. Pers. comm.
80	Belliveau, A.G. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 10695 recs.
80	Nature Conservancy of Canada. 2022. NCC Field data for Nova Scotia. Nature Conservancy of Canada.
79	MacDonald, E.C. 2018. CWS Piping Plover Census, 2010-2017. Canadian Wildlife Service, 672 recs.
75	Klymko, J.J.D. 2012. Insect fieldwork & submissions, 2011. Atlantic Canada Conservation Data Centre. Sackville NB, 760 recs.
73	iNaturalist. 2018. iNaturalist Data Export 2018. iNaturalist.org and iNaturalist.ca, Web site: 11700 recs.
72	Cameron, R.P. 2011. Lichen observations, 2011. Nova Scotia Environment & Labour, 731 recs.
70	Roland, A.E. & Smith, E.C. 1969. The Flora of Nova Scotia, 1st Ed. Nova Scotia Museum, Halifax, 743pp.
69	Blaney, C.S.; Mazerolle, D.M. 2008. Fieldwork 2008. Atlantic Canada Conservation Data Centre. Sackville NB, 13343 recs.
69	Blaney, C.S.; Mazerolle, D.M.; Oberndorfer, E. 2007. Fieldwork 2007. Atlantic Canada Conservation Data Centre. Sackville NB, 13770 recs.
66	Zinck, M. & Roland, A.E. 1998. Roland's Flora of Nova Scotia. Nova Scotia Museum, 3rd ed., rev. M. Zinck; 2 Vol., 1297 pp.
64	Tims, J. & Craig, N. 1995. Environmentally Significant Areas in New Brunswick (NBESA). NB Dept of Environment & Nature Trust of New Brunswick Inc, 6042 recs. https://doi.org/10.1037/arc0000014.
62	Belliveau, A.G. 2021. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2021. E.C. Smith Herbarium.
61	Glen, W. 1991. 1991 Prince Edward Island Forest Biomass Inventory Data. PEI Dept of Energy and Forestry, 10059 recs.
61	Staicer, C. & Bliss, S.; Achenbach, L. 2017. Occurrences of tracked breeding birds in forested wetlands. , 303 records.
60	Blaney, C.S. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre, 6719 recs.
59	Nussey, Pat & NCC staff. 2019. AEI tracked species records, 2016-2019. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 333.
58	Belland, R.J. Maritimes moss records from various herbarium databases. 2014.
58	Blaney, C.S.; Spicer, C.D. 2001. Fieldwork 2001. Atlantic Canada Conservation Data Centre. Sackville NB, 981 recs.
57	Patrick, Allison. 2021. Animal and plant records from NCC properties from 2019 and 2020. Nature Conservancy Canada.
53	Blaney, C.S. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 1042 recs.
52	Blaney, C.S. 2018. Atlantic Canada Conservation Data Centre Fieldwork 2018. Atlantic Canada Conservation Data Centre.
51	Blaney, C.S.; Spicer, C.D.; Rothfels, C. 2004. Fieldwork 2004. Atlantic Canada Conservation Data Centre. Sackville NB, 1343 recs.
50	Canadian Wildlife Service, Dartmouth. 2010. Piping Plover censuses 2007-09, 304 recs.
50	e-Butterfly. 2016. Export of Maritimes records and photos. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
50	Hall, R.A. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 189 recs.
50	Pepper, C. 2021. Rare bird, plant and mammal observations in Nova Scotia, 2017-2021.
49	Blaney, C.S.; Spicer, C.D.; Popma, T.M.; Hanel, C. 2002. Fieldwork 2002. Atlantic Canada Conservation Data Centre. Sackville NB, 2252 recs.
49	Hall, R.A. 2001. S.. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 178 recs.
49	iNaturalist. 2020. iNaturalist butterfly records selected for the Maritimes Butterfly Atlas. iNaturalist.
48	Porter, Caitlin et al. 2022. 2021 wildlife observaitions from the Caemmerer NCC site. Atlantic Canada Conservation Data Centre.
47	Cameron, R.P. 2009. Erioderma pedicellatum database, 1979-2008. Dept Environment & Labour, 103 recs.
47	Churchill, J.L. 2020. Atlantic Canada Conservation Data Centre Fieldwork 2020. Atlantic Canada Conservation Data Centre, 1083 recs.
46	Amirault, D.L. & McKnight, J. 2003. Piping Plover Database 1991-2003. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
46	Layberry, R.A. & Hall, P.W., LaFontaine, J.D. 1998. The Butterflies of Canada. University of Toronto Press. 280 pp+plates.
46	Toms, Brad & Pepper, Chris; Neily, Tom. 2022. Nova Scotia lichen database [as of 2022-04]. Mersey Tobeatic Research Institute.
44	Ayles, P. 2006. Prince Edward Island National Park Digital Database. Parks Canada, 179 recs.

# recs	CITATION
44	Spicer, C.D. & Harries, H. 2001. Mount Allison Herbarium Specimens. Mount Allison University, 128 recs.
43	Hagerman, Christianne. 2022. Wisqoq and Eastern White Cedar field work. E.C. Smith Herbarium, Acadia University.
43	Neily, T.H. & Pepper, C.; Toms, B. 2015. Nova Scotia lichen location database [as of 2015-02-15]. Mersey Tobeatic Research Institute, 1691 records.
42	Nova Scotia Nature Trust. 2013. Nova Scotia Nature Trust 2013 Species records. Nova Scotia Nature Trust, 95 recs.
41	Blaney, C.S.; Mazerolle, D.M.; Klymko, J; Spicer, C.D. 2006. Fieldwork 2006. Atlantic Canada Conservation Data Centre. Sackville NB, 8399 recs.
40	Benjamin, L.K. (compiler). 2001. Significant Habitat & Species Database. Nova Scotia Dept of Natural Resources, 15 spp, 224 recs.
40	Blaney, C.S. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
40	Cameron, E. 2007. Canadian Gypsum Co. survey 2005-07. Dillon Consulting Ltd, 40 recs.
40	Staicer, C. 2021. Additional compiled Nova Scotia Species at Risk bird records, 2005-2020. Dalhousie University.
40	Staicer, Cindy. 2022. 2021 Landbird Species at Risk observations. Dalhousie University.
38	Chapman, C.J. 2019. Atlantic Canada Conservation Data Centre 2019 botanical fieldwork. Atlantic Canada Conservation Data Centre, 11729 recs.
38	Klymko, John. 2022. Atlantic Canada Conservation Data Centre zoological fieldwork 2021. Atlantic Canada Conservation Data Centre.
37	Brazner, J. 2016. Nova Scotia Forested Wetland Bird Surveys. Nova Scotia Department of Lands and Forestry.
37	Erskine, D. 1960. The plants of Prince Edward Island, 1st Ed. Research Branch, Agriculture Canada, Ottawa., Publication 1088. 1238 recs.
37	Klymko, J. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre.
37	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-03-18]. Mersey Tobeatic Research Institute.
34	eBird. 2021. eBird Basic Dataset. Version: EBD_relOct-2020. Ithaca, New York. Oct 2020, Prince Edward Island Bird SAR subset. Cornell Lab of Ornithology.
33	Arsenault, M. 2019. Cormorant colony nest counts. PE Department of Communities, Land, and Environment.
33	Hubley, Nicole. 2022. Monarch (Danaus plexippus) records submitted to MTRI from the 2021 field season. Mersey Tobeatic Research Institute.
33	Porter, C.J.M. 2014. Field work data 2007-2014. Nova Scotia Nature Trust, 96 recs.
33	Stewart, J.I. 2010. Peregrine Falcon Surveys in New Brunswick, 2002-09. Canadian Wildlife Service, Sackville, 58 recs.
32	PEI National Park. 2019. SAR and Bombus records from PEI NP from the 2019 field season. Moody, Allison (ed.) PEI National Park, 158 recs.
31	Mazerolle, D.M. 2017. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
29	Neily, T.H. 2019. Tom Neily NS Bryophyte records (2009-2013). T.H. Neily, Atlantic Canada Conservation Data Centre, 1029 specimen records.
28	Belliveau, A.G. 2018. E.C. Smith Herbarium and Atlantic Canada Conservation Data Centre Fieldwork 2018. E.C. Smith Herbarium, 6226 recs.
28	NatureServe Canada. 2019. iNaturalist Maritimes Butterfly Records. iNaturalist.org and iNaturalist.ca.
28	Parks Canada. 2021. PEI National Park 2020 Species at Risk records. Parks Canada, 40 records.
28	Pepper, Chris. 2012. Observations of breeding Canada Warbler's along the Eastern Shore, NS. Pers. comm. to S. Blaney, Jan. 20, 28 recs.
28	Sollows, M.C,. 2008. NBM Science Collections databases: mammals. New Brunswick Museum, Saint John NB, download Jan. 2008, 4983 recs.
27	Benjamin, L.K. 2012. NSDNR fieldwork & consultant reports 2008-2012. Nova Scotia Dept Natural Resources, 196 recs.
27	Neily, T.H. & Pepper, C. 2020. Nova Scotia SMP lichen surveys 2020. Mersey Tobeatic Research Institute.
27	Sharkie, R., MacQuarrie, K., Fraser, M. 2003. A Floral Inventory of the Western Section of Prince Edward Island National Park and adjacent Crown lands. Parks Canada Agency, v + 106 pp.
26	Erskine, A.J. 1999. Maritime Nest Records Scheme (MNRS) 1937-1999. Canadian Wildlife Service, Sackville, 313 recs.
26	Popma, T.M. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre. Sackville NB, 113 recs.
25	Porter, Caitlin. 2021. Field data for 2020 in various locations across the Maritimes. Atlantic Canada Conservation Data Centre, 3977 records.
24	Archibald, D.R. 2003. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 213 recs.
24	Powell, B.C. 1967. Female sexual cycles of Chrysemy spicta & Clemmys insculpta in Nova Scotia. Can. Field-Nat., 81:134-139. 26 recs.
23	Benjamin, L.K. 2011. NSDNR fieldwork & consultant reports 1997, 2009-10. Nova Scotia Dept Natural Resources, 85 recs.
23	Cameron, R.P. 2018. Degelia plumbea records. Nova Scotia Environment.
23	Curley, F.R. 2005. PEF&W Collection 2003-04. PEI Fish & Wildlife Div., 716 recs.
23	Westwood, A., Staicer, C. 2016. Nova Scotia landbird Species at Risk observations. Dalhousie University.
22	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.
22	Klymko, J.J.D.; Robinson, S.L. 2012. 2012 field data. Atlantic Canada Conservation Data Centre, 447 recs.
22	LaPaix, Rich. 2022. Rare species observations, 2018-2022. Nova Scotia Nature Trust.
22	Neily, T.H. 2010. Erioderma Pedicellatum records 2005-09. Mersey Tobiatic Research Institute, 67 recs.
22	Nelly, T.H. 2006. Cypripedium arietinum in Hants Co. Pers. comm. to C.S. Blaney. 22 recs, 22 recs.
22	Ogden, J. NS DNR Butterfly Collection Dataset. Nova Scotia Department of Natural Resources. 2014.
22	Phinney, Lori. 2020. Pre- and post White-nose Syndrome bat acoustic monitoring, NS. Mersey Tobeatic Research Institute, 1279 recs.
21	Belliveau, A. 2013. Rare species records from Nova Scotia. Mersey Tobeatic Research Institute, 296 records. 296 recs.
21	Churchill, J.L., Klymko, J.D.D. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2016. Atlantic Canada Conservation Data Centre.
21	Mersey Tobetic Research Institute. 2021. 2020 Monarch records from the MTRI monitoring program. Mersey Tobetic Research Institute, 72 records.
20	Blaney, C.S.; Spicer, C.D.; Mazerolle, D.M. 2005. Fieldwork 2005. Atlantic Canada Conservation Data Centre. Sackville NB, 2333 recs.
20	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.
20	Grandtner, M.M. 1971. Ecological Study of the Interior Dunes of West Brackley Beach, Prince Edward Island National Park. Parks Canada, 1: 70. 41 recs.
20	Klymko, J.J.D. 2016. 2015 field data. Atlantic Canada Conservation Data Centre.
20	Neily, T. H. 2018. Lichen and Bryophyte records, AEI 2017-2018. Tom Neily; Atlantic Canada Conservation Data Centre.
20	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.
20	Pulsifer, M.D. 2002. NS Freshwater Mussel Fieldwork. Nova Scotia Dept Natural Resources, 369 recs.
19	Godbout, V. 2002. SAR Inventory: Birds in Fort Beauséjour NHS. Parks Canada, Atlantic, SARINV02-01. 202 recs.

# recs	CITATION
19	Haughian, Sean. 2021. Update to lichen data from 2017-2021. Nova Scotia Museum.
19	Munro, Marian K. Nova Scotia Provincial Museum of Natural History Herbarium Database. Nova Scotia Provincial Museum of Natural History, Halifax, Nova Scotia. 2014.
19	NS DNR. 2017. Black Ash records from NS DNR Permanent Sample Plots (PSPs), 1965-2016. NS Dept of Natural Resources.
18	Manthorne, A. 2019. Incidental aerial insectivore observations. Birds Canada.
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	Belliveau, A.G. 2014. Plant Records from Southern and Central Nova Scotia. Atlantic Canada Conservation Data Centre, 919 recs.
17	Cameron, R.P. 2014. 2013-14 rare species field data. Nova Scotia Department of Environment, 35 recs.
17	Ferguson, D.C. 1954. The Lepidoptera of Nova Scotia. Part I, macrolepidoptera. Proceedings of the Nova Scotian Institute of Science, 23(3), 161-375.
17	McMullin, R.T. 2022. Maritimes lichen records. Canadian Museum of Nature.
16	Cameron, R.P. 2013. 2013 rare species field data. Nova Scotia Department of Environment, 71 recs.
16	Gilhen, J. 1984. Amphibians & Reptiles of Nova Scotia, 1st Ed. Nova Scotia Museum, 164pp.
16	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.
15	Richardson, D., Anderson, F., Cameron, R, McMullin, T., Clayden, S. 2014. Field Work Report on Black Foam Lichen (Anzia colpodes). COSEWIC.
14	Chaput, G. 2002. Atlantic Salmon: Maritime Provinces Overview for 2001. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-14. 39 recs.
14	Chiasson, R. 2018. Breeding bird observations from NBWTF project. pers. comm. to S. Blaney.
14	Neily, T.H. 2012. 2012 Erioderma pedicellatum records in Nova Scotia.
13	Blaney, C.S. 2019. Sean Blaney 2019 field data. Atlantic Canada Conservation Data Centre, 4407 records.
13	Blaney, C.S.; Mazerolle, D.M. 2011. Fieldwork 2011. Atlantic Canada Conservation Data Centre. Sackville NB.
13	e-Butterfly. 2019. Export of Maritimes records and photos. McFarland, K. (ed.) e-butterfly.org.
13	Nova Scotia Nature Trust. 2014. Ladyslipper records from Saint Croix Nova Scotia, JLC Ed. Nova Scotia Nature Trust.
13	Robinson, S.L. 2015. 2014 field data.
12	Basquill, S.P. 2012. 2012 rare vascular plant field data. Nova Scotia Department of Natural Resources, 37 recs.
12	Benedict, B. Connell Herbarium Specimens (Data) . University New Brunswick, Fredericton. 2003.
12	Downes, C. 1998-2000. Breeding Bird Survey Data. Canadian Wildlife Service, Ottawa, 111 recs.
11	Adams, J. & Herman, T.B. 1998. Thesis, Unpublished map of C. insculpta sightings. Acadia University, Wolfville NS, 88 recs.
11	Doucet, D.A. 2009. Census of Globally Rare, Endemic Butterflies of Nova Scotia Gulf of St Lawrence Salt Marshes. Nova Scotia Dept of Natural Resources, Species at Risk, 155 recs.
11	Klymko, J. Dataset of butterfly records at the New Brunswick Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2016.
11	Ogden, K. Nova Scotia Museum butterfly specimen database. Nova Scotia Museum. 2017.
10	Bateman, M.C. 2001. Coastal Waterfowl Surveys Database, 1965-2001. Canadian Wildlife Service, Sackville, 667 recs.
10	Canadian Wildlife Service, Atlantic Region. 2010. Piping Plover censuses 2006-09. , 35 recs.
10	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.
10	Klymko, J. 2021. Atlantic Canada Conservation Data Centre zoological fieldwork 2020. Atlantic Canada Conservation Data Centre.
10	Klymko, J.J.D. 2018. 2017 field data. Atlantic Canada Conservation Data Centre.
9	Benedict, B. Connell Herbarium Specimens. University New Brunswick, Fredericton. 2003.
9	Benjamin, L.K. 2006. Cypripedium arietinum. Pers. comm. to D. Mazerolle. 9 recs, 9 recs.
9	Cameron, R.P. 2005. Erioderma pedicellatum unpublished data. NS Dept of Environment, 9 recs.
9	Cameron, R.P. 2006. Erioderma pedicellatum 2006 field data. NS Dept of Environment, 9 recs.
9	Cameron, R.P. 2017. 2017 rare species field data. Nova Scotia Environment, 64 recs.
9	Feltham, Carter. 2022. Monarch (Danaus plexippus) and Milkweed MTRI records from the 2022 Field Season. Mersey Tobeatic Research Institute.
9	Hughes, Cory. 2020. Atlantic Forestry Centre Coccinella transversoguttata collections. Canadian Forest Service, Atlantic Forestry Centre.
9	Webster, R.P. Atlantic Forestry Centre Insect Collection, Maritimes butterfly records. Natural Resources Canada. 2014.
9	Zahavich, J. 2018. Canada Warbler and Olive-sided Flycatcher records 2018. Island Nature Trust, 14 recs.
9	Zahavich, J.L. 2020. Canada Warbler, Olive-sided Flycatcher and Eastern Wood-Pewee observations, Prince Edward Island, 2017-2019. Island Nature Trust.
8	Blaney, C.S.; Mazerolle, D.M. 2009. Fieldwork 2009. Atlantic Canada Conservation Data Centre. Sackville NB, 13395 recs.
8	Bryson, I. 2020. Nova Scotia and Newfoundland rare species observations, 2018-2020. Nova Scotia Environment.
8	Cameron-MacMillan, Maureen. 2020. Northern Goshawk Nests in Eastern Nova Scotia, as of November, 2020. Nova Scotia Department of Lands and Forestry.
8	Clayden, S.R. 1998. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, 19759 recs.
8	Doucet, D.A. 2007. Lepidopteran Records, 1988-2006. Doucet, 700 recs.
8	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.
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	O'Neil, S. 1998. Atlantic Salmon: Northumberland Strait Nova Scotia part of SFA 18. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-08. 9 recs.
8	Plissner, J.H. & Haig, S.M. 1997. 1996 International piping plover census. US Geological Survey, Corvallis OR, 231 pp.
8	Sollows, M.C,. 2009. NBM Science Collections databases: molluscs. New Brunswick Museum, Saint John NB, download Jan. 2009, 6951 recs (2957 in Atlantic Canada).
7	Basquill, S.P. 2003. Fieldwork 2003. Atlantic Canada Conservation Data Centre, Sackville NB, 69 recs.
7	Belland, R.J. 2012. PEI moss records from Devonian Botanical Garden. DBG Cryptogam Database, Web site: https://secure.devonian.ualberta.ca/bryo_search.php 748 recs.
7	Benjamin, L.K. 2009. Boreal Felt Lichen, Mountain Avens, Orchid and other recent records. Nova Scotia Dept Natural Resources, 105 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.

# recs	CITATION
7	Harding, R.W. 2008. Harding Personal Insect Collection 1999-2007. R.W. Harding, 309 recs.
7	Toms, Brad. 2022. Non-Lichen Observations from Lichen SMP and NCC Property Searches. Mersey Tobeatic Research Institute.
6	Blaney, C.S. Miscellaneous specimens received by ACCDC (botany). Various persons. 2001-08.
6	Curley, F.R. 2007. PEF&W Collection. PEI Fish & Wildlife Div., 199 recs.
6	Gallop, John. 2021. Sheet Harbour rare lichen observations. McCallum Environmental.
6	Hall, R. 2008. Rare plant records in old fieldbook notes from Truro area. Pers. comm. to C.S. Blaney. 6 recs, 6 recs.
6	Klymko, J. 2019. Atlantic Canada Conservation Data Centre zoological fieldwork 2018. Atlantic Canada Conservation Data Centre.
6	Klymko, J.J.D.; Robinson, S.L. 2014. 2013 field data. Atlantic Canada Conservation Data Centre.
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	Mazerolle, D.M. 2020. Atlantic Canada Conservation Data Centre botanical fieldwork 2019. Atlantic Canada Conservation Data Centre.
6	Neily, T.H. & Pepper, C.; Toms, B. 2020. Nova Scotia lichen database [as of 2020-05-25]. Mersey Tobeatic Research Institute, 668 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.
6	Richardson, D., Anderson, F., Cameron, R, Pepper, C., Clayden, S. 2015. Field Work Report on the Wrinkled Shingle lichen (Pannaria lurida). COSEWIC.
6	Sabine, D.L. 2013. Dwaine Sabine butterfly records, 2009 and earlier.
6	Speers, L. 2008. Butterflies of Canada database: New Brunswick 1897-1999. Agriculture & Agri-Food Canada, Biological Resources Program, Ottawa, 2048 recs.
6	Stevens, C. 1999. Cam Stevens field data from PEI vegetation plots. Sent along with specimens to C.S. Blaney. UNB masters research project, 732 recs.
6	White, S. 2019. Notable species sightings, 2018. East Coast Aquatics.
6	Wilhelm, S.I. et al. 2019. Colonial Waterbird Database. Canadian Wildlife Service.
5	Basquill, S.P. 2010. Plant data from Prince Edward Island National Park Forest Community Plots. Atlantic Canada Conservation Data Centre, 150 records.
5	Carter, Jeff; Churchill, J.; Churchill, I.; Churchill, L. 2020. Bank Swallow colony Scots Bay, NS. Atlantic Canada Conservation Data Centre.
5	Daury, R.W. & Bateman, M.C. 1996. The Barrow's Goldeneye (Bucephala islandica) in the Atlantic Provinces and Maine. Canadian Wildlife Service, Sackville, 47pp.
5	Giberson, D. 2008. UPEI Insect Collection. University of Prince Edward Island, 157 recs.
5	Majka, C.G. 2008. Lepidoptera at St Patricks, 1993-2007. Pers. comm. to R. Curley, 8 Jan. 29 recs, 29 recs.
5	McMullin, R.T. 2015. Prince Edward Island's lichen biodiversity and proposed conservation status in a report prepared for the province of PEI. Biodiversity Institute of Ontario Herbarium, University of Guelph, 776 records.
5	Neily, T.H. Atlantic Canada Conservation Data Centre botanical fieldwork 2018. T.H. Neily, Atlantic Canada Conservation Data Centre.
5	Olsen, R. Herbarium Specimens. Nova Scotia Agricultural College, Truro. 2003.
5	Prince Edward Island National Park. 2014. Prince Edward Island National Park Herbarium. Parks Canada Agency, PEINP, 39 recs.
5	Smith, M.E.M. 2008. AgCan Collection. Agriculture Canada, Charlottetown PE, 44 recs.
5	Towell, C. 2014. 2014 Northern Goshawk and Common Nighthawk email reports, NS. NS Department of Natural Resources.
5	Walker, J. 2017. Bird inventories at French River, NS, and Memramcook, NB, for Nature Conservancy of Canada. Pers. comm. to AC CDC.
5	Webster, R.P. & Edsall, J. 2007. 2005 New Brunswick Rare Butterfly Survey. Environmental Trust Fund, unpublished report, 232 recs.
4	Atlantic Canada Bank Swallow Working Group. 2022. 2021 Bank Swallow colony records. Birds Canada.
4	Bagnell, B.A. 2001. New Brunswick Bryophyte Occurrences. B&B Botanical, Sussex, 478 recs.
4	Bredin, K.A. 2002. NS Freshwater Mussel Fieldwork. Atlantic Canada Conservation Data Centere, 30 recs.
4	Cameron, R.P. 2012. Rob Cameron 2012 vascular plant data. NS Department of Environment, 30 recs.
4	Forsythe, B. 2006. Cypripedium arietinum at Meadow Pond, Hants Co. Pers. comm. to C.S. Blaney. 4 recs, 4 recs.
4	Mazerolle, D.M. 2016. Atlantic Canada Conservation Data Centre Fieldwork 2017. Atlantic Canada Conservation Data Centre.
4	McNeil, J.A. 2020. Snapping Turtle and Eastern Painted Turtle records, 2020. Mersey Tobeatic Research Institute.
4	Mills, Pamela. 2007. Iva frutescens records. Nova Scotia Dept of Natural Resources, Wildlife Div. Pers. comm. to S. Basquil, 4 recs.
4	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.
4	Pike, E., Tingley, S. & Christie, D.S. 2000. Nature NB Listserve. University of New Brunswick, listserv.unb.ca/archives/naturenb. 68 recs.
3	Benjamin, L.K. 2009. NSDNR Fieldwork & Consultants Reports. Nova Scotia Dept Natural Resources, 143 recs.
3	Brunelle, P.-M. (compiler). 2010. ADIP/MDDS Odonata Database: NB, NS Update 1900-09. Atlantic Dragonfly Inventory Program (ADIP), 935 recs.
3	Calhoun, J.C. Butterfly records databased at the McGuire Center for Lepidoptera and Biodiversity. Calhoun, J.C. 2020.
3	Cameron, R.P. 2012. Additional rare plant records, 2009. , 7 recs.
3	Chiasson, Roland. 2017. New Brunswick Breeding bird observations from NBWTF project. pers. comm. to J. Churchill.
3	Cody, W.J. 2003. Nova Scotia specimens of Equisetum pratense at the DAO herbarium in Ottawa. , Pers. comm. to C.S. Blaney. 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	e-Butterfly. 2018. Selected Maritimes butterfly records from 2016 and 2017. Maxim Larrivee, Sambo Zhang (ed.) e-butterfly.org.
3	Edsall, J. 2001. Lepidopteran records in New Brunswick, 1997-99. , Pers. comm. to K.A. Bredin. 91 recs.
3	Kelly, G. 2005. Fraxinus nigra. Dept of Agricuture, Fisheries, Aquaculture & Forestry. Pers. comm. to C.S. Blaney, Mar. 2, 11 recs.
3	Klymko, J. Butterfly records at the Nova Scotia Museum not yet accessioned by the museum. Atlantic Canada Conservation Data Centre. 2017.
3	Klymko, J.J.D. 2011. Insect fieldwork & submissions, 2010. Atlantic Canada Conservation Data Centre. Sackville NB, 742 recs.
3	McMullin, R.T.; van Miltenburg, N.; Atkinson, K.-L.; Ayles, P. 2022. A Provisional List of the Lichens and Allied Fungi of Prince Edward Island National Park. Canadian Museum of Nature, 37 pp.
3	Mersey Tobeatic Research Institute. 2022. Nova Scotia Bobolink observations. pers. comm. to J. Churchill.
3	Neily, T.H. 2013. Email communication to Sean Blaney regarding Listera australis observations made from 2007 to 2011 in Nova Scotia. , 50.
3	Oldham, M.J. 2000. Oldham database records from Maritime provinces. Oldham, M.J; ONHIC, 487 recs.

# recs	CITATION
3	Parker, M. 2016. Wood turtle (Glyptemys insculpta) Visual Surveys at Black, Wallace, Musquodobit and Sackville Rivers, Nova Scotia. East Coast Aquatics Inc., 3 records.
3	Speers, L. 2001. Butterflies of Canada database. Agriculture & Agri-Food Canada, Biological Resources Program, Ottawa, 190 recs.
3	Standley, L.A. 2002. Carex haydenii in Nova Scotia. , Pers. comm. to C.S. Blaney. 4 recs.
3	Thompson, R. 2018. Williamsdale Quarry Expansion Project, NS, Environmental Assessment rare plants. Dexter Construction Company Limited.
3	Tingley, S. (compiler). 2001. Butterflies of New Brunswick. , Web site: www.geocities.com/Yosemite/8425/buttrfly. 142 recs.
3	White, S. 2018. Notable species sightings, 2016-2017. East Coast Aquatics.
2	Amirault, D.L. 1997-2000. Unpublished files. Canadian Wildlife Service, Sackville, 470 recs.
2	Amirault, D.L. 2003. 2003 Peregrine Falcon Survey. Canadian Wildlife Service, Sackville, unpublished data. 7 recs.
2	Basquill, S.P., Porter, C. 2019. Bryophyte and lichen specimens submitted to the E.C. Smith Herbarium. NS Department of Lands and Forestry.
2	Basset, I.J. & Crompton, C.W. 1978. The Genus Suaeda (Chenopodiaceae) in Canada. Canadian Journal of Botany, 56: 581-591.
2	Boyne, A.W. & Grecian, V.D. 1999. Tern Surveys. Canadian Wildlife Service, Sackville, unpublished data. 23 recs.
2	Bredin, K.A. 2001. WTF Project: Freshwater Mussel Fieldwork in Freshwater Species data. Atlantic Canada Conservation Data Centere, 101 recs.
2	Cameron, B. 2005. C. palmicola, E. pedicellatum records from Sixth Lake. Pers. comm. to C.S. Blaney. 3 recs, 3 recs.
2	Cameron, R.P. 2009. Nova Scotia nonvascular plant observations, 1995-2007. Nova Scotia Dept Natural Resources, 27 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	Curley, F.R. 2003. Glen Kelly records for Betula pumila & Asclepias syriaca on PEI. , Pers. comm. to C.S. Blaney. 9 recs.
2	de Graaf, M.; Miller, D. 2020. Records of Cypripedium reginae and Equisetum variegatum from CFI property at Scoudouc Road and Symplocarpus foetidus from CFI properties at Upper Cape, Westmorland County, NB. pers. comm. (ed.) Community Forests International, 4 records.
2	Dibblee, R.L. 1999. PEI Cormorant Survey. Prince Edward Island Fisheries, Aquaculture & Environment, 1p. 21 recs.
2	Frittaion, C. 2012. NSNT 2012 Field Observations. Nova Scotia Nature Trust, Pers comm. to S. Blaney Feb. 7, 34 recs.
2	Giroux, P. 2013. Personal communication concerning species at risk in and around PEI NP, PE. Winter 2013. Pers. comm.
2	Harris, P. 2004. Plant records from 1997-2003. Island Nature Trust, Charlottetown PE, 71 recs.
2	Klymko, J.J.D. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 3 recs.
2	Layberry, R.A. 2012. Lepidopteran records for the Maritimes, 1974-2008. Layberry Collection, 1060 recs.
2	Macaulay, M. Notes on newly discovered Hepatica nobilis var. obtusa population in Cumberland Co. NS. Pers. comm. to S. Blaney, 1 rec.
2	Mazerolle, D.M. 2005. Bouctouche Irving Eco-Centre rare coastal plant fieldwork results 2004-05. Irving Eco-centre, la Dune du Bouctouche, 174 recs.
2	Mazerolle, David. 2021. Botanical fieldwork 2019-20200. Parks Canada.
2	McLelland, Don. 2022. Orchid records for Prince Edward Island. Pers. comm.
2	McNeil, J.A. 2019. Snapping Turtle records, 2019. Mersey Tobeatic Research Institute.
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	Neily, T.H.; Smith, C.; Whitman, E. 2011. NCC Logging Lake (Halifax Co. NS) properties baseline survey data. Nature Conservancy of Canada, 2 recs.
2	Neily, Tom. 2020. Lichen surveys for PEI Forested Landscapes Priority Place. Chapman, C.J. (ed.) Atlantic Canada Conservation Data Centre, 158 records.
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	Robinson, S.L. 2010. Fieldwork 2009 (dune ecology). Atlantic Canada Conservation Data Centre. Sackville NB, 408 recs.
2	Robinson, S.L. 2011. 2011 ND dune survey field data. Atlantic Canada Conservation Data Centre, 2715 recs.
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	Taylor, B.R., and Tam, J.C. 2012. Local distribution of the rare plant Triosteum aurantiacum in northeastern Nova Scotia, Canada. Rhodora, 114(960): 366-382.
2	Zahavich, J. 2017. Canada Warbler and Olive-sided Flycatcher records 2017. Island Nature Trust, 14 recs.
1	Amirault, D.L. 2000. Piping Plover Surveys, 1983-2000. Canadian Wildlife Service, Sackville, unpublished data. 70 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: Inner Bay of Fundy SFA 22 & part of SFA 23. Dept of Fisheries & Oceans, Atlantic Region, Science Stock Status Report D3-12. 4 recs.
1	Barney, T. 2020. Text message to Sean Blaney from Ted Barney with photograph of large Snapping Turtle at White Birch Impoundment, Westmorland Co., NB. pers. comm., 1 record.
1	Basquill, S. P. 2008. Nova Scotia Dept of Natural Resources.
1	Basquill, S.P. 2009. 2009 field observations. Nova Scotia Dept of Natural Resources.
1	Basquill, S.P. 2012. 2012 Bryophyte specimen data. Nova Scotia Department of Natural Resources, 37 recs.
1	Bateman, M.C. & Prescott, W.H. 1984. The Mammals of Prince Edward Island National Park. Canadian Wildife Service, vol 2:5. 3 recs.
1	Belland, R.J. 2012. PEI moss records from New York Botanical Garden. NYBG Virtual Herbarium, Web site: http://sciweb.nybg.org/science2/vii2.asp 135 recs.
1	Belliveau, A.G. E.C. Smith Herbarium Specimen Database 2019. E.C. Smith Herbarium, Acadia University. 2019.
1	Benjamin, L.K. 2003. Cypripedium arietinum in Cogmagun River NS. Pers. comm. to S. Blaney, 1 rec.
1	Blaney, C.S. 2014. 2014 Bank Swallow colony observation, Westcock, NB. Atlantic Canada Conservation Data Centre.
1	Bonnyman, Vanessa. 2021. Eastern Wood-Pewee Observation on Bonshaw Trail, PEI.
1	Bruce, J. 2014. 2014 Wood Turtle email report, Nine Mile River, NS. NS Department of Natural Resources.
1	Cairns, D. 1998. Atlantic Salmon: Prince Edward Island SFA 17. Dept of Fisheries & Oceans, Atlantic Region, Science. Stock Status Report D3-07. 1 rec.
1	Christie, D.S. 2000. Christmas Bird Count Data, 1997-2000. Nature NB, 54 recs.
1	Clayden, S.R. 2006. Pseudevernia cladonia records. NB Museum. Pers. comm. to S. Blaney, Dec, 4 recs.

# recs	CITATION
1	Clayden, S.R. 2007. NBM Science Collections databases: vascular plants. New Brunswick Museum, Saint John NB, download Mar. 2007, 6914 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	Crowell, A. 2004. Cypripedium arietinum in Weir Brook, Hants Co. Pers. comm. to S. Blaney, 1 rec.
1	Curley, F.R. 2021. Nymphalis l-album record from near Belfast PEI. Pers. comm. to J. Klymko.
1	Doucet, D.A. 2007. PEI National Park Odonata Survey. Parks Canada, PEI National Park, 1 rec.
1	Doucet, D.A. ACCDC Reference Collection. Atlantic Canada Conservation Data Centre, Sackville NB. 2008.
1	Eastman, A. 2019. Snapping Turtle observation at Brookfield, Colchester Co. NS. Halifax Field Naturalists Nova Scotia Nature Archive Facebook Page, 1 record.
1	Elizabeth Spence. 2020. Email from Elizabeth Spence to John Klymko about the occurrence of a Wood Turtle in Westmorland County, New Brunswick. Pers. comm.
1	Gagnon, J. 2004. Specimen data from 2002 visit to Prince Edward Island. , 104 recs.
1	Gerriets, S.H. 1997-2001. Element Occurrence Database. Atlantic Canada Conservation Data Centre, Sackville NB, 1 rec.
1	Golder Associates Ltd. 2021. Black Ash location from Goff's Quarry Expansion Environment Assessment, 2017. Golder Associates Ltd., 1 record.
1	Harling, L. & Silva, M. 2004. Abundance & species richness of shrews within forested habitats on PEI. Am. Midl. Nat., 151:399-407. 2 recs.
1	Harris, Megan. 2018. Miscellaneous Sorex palustris record. Pers. comm. to S. Blaney.
1	Haughian, S.R. 2018. Description of Fuscopannaria leucosticta field work in 2017. New Brunswick Museum, 314 recs.
1	Hill, N.M. 2021. Observation of Carex haydenii and black ash near Marshy Hope and Ponhook Lake. pers. comm.
1	Hinds, H.R. 1986. Notes on New Brunswick plant collections. Connell Memorial Herbarium, unpubl, 739 recs.
1	Honeyman, K. 2019. Unique Areas Database, 2018. J.D. Irving Ltd.
1	iNaturalist.ca. 2022. iNaturalist records 2022. iNaturalist.ca (ed.) iNaturalist.org; iNaturalist.ca.
1	Jacques Whitford Ltd. 2003. Cananda Lily location. Pers. Comm. to S. Blaney. 2pp, 1 rec, 1 rec.
1	Jardine, Don. 2022. Email to AC CDC reporting an Evening Grosbeak Sighting in Winsloe South, PEI. pers. comm.
1	Kelly, Glen 2004. Botanical records from 2004 PEI Forestry fieldwork. Dept of Environment, Energy & Forestry, 71 recs.
1	Klymko, J. Henry Hensel's Butterfly Collection Database. Atlantic Canada Conservation Data Centre. 2016.
1	Klymko, J. Partial database of the Agriculture Canada Charlottetown Research Station Insect Collection butterfly specimens. Atlantic Canada Conservation Data Centre. 2016.
1	Klymko, J.J.D. 2012. Insect field work & submissions. Atlantic Canada Conservation Data Centre, 852 recs.
1	Lautenschlager, R.A. 2010. Miscellaneous observations reported to ACCDC (zoology). Pers. comm. from various persons, 2 recs.
1	Lautenschlager, R.A. 2020. Email to John Klymko about fisher sighting in Baie Verte. Klymko, J. (ed.) Lautenschlager, R.A., pers. comm.
1	Macauley, M. 2008. Email to Sean Blaney regarding rich hardwood floodplain site at Howards Pool, Wallace River, NS.
1	MacAuley, M. 2020. Email to Sean Blaney regarding Agalinis paupercula var. parviflora at Malagash Station, NS. pers. comm., 2 records.
1	MacPhail, V. Bee and syrphid specimens from MSc research. Pers. comm., J. Klymko. 2006.
1	MacQuarrie, K. and R. Sharkie. 2004. Plant lists for selected areas at Brackley and Dalvay, Prince Edward Island National Park. Island Nature Trust, 168 recs.
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	Mazerolle, D. 2003. Assessment of Seaside Pinweed (Lechea maritima var. subcylindrica) in Southeastern New Brunswick. Irving Eco-centre, la Dune du Bouctouche, 18 recs.
1	Morrison, Annie. 2010. NCC Properties Fieldwork: June-August 2010. Nature Conservancy Canada, 508 recs.
1	Neily, P.D. Plant Specimens. Nova Scotia Dept Natural Resources, Truro. 2006.
1	Neily, T.H. & Pepper, C.; Toms, B. 2019. Boreal Felt Lichen Observation, April 2019. Mersey Tobeatic Research Institute.
1	Neily, T.H. 2004. Hepatica nobilis var. obtusa record for Falmouth NS. Pers. comm. to C.S. Blaney, 1 rec.
1	Neily, T.H. 2013. Email communication to Sean Blaney regarding Agalinis paupercula observations made in 2013 in Nova Scotia. , 1 rec.
1	Newell, R.E. 2004. Hepatica nobilis var. obtusa record. Pers. comm. to S. Blaney, 1 rec.
1	Oehlke, W. 1999. Record of Polygonia satyrus from Prince Edward Island. http://www.silkmoths.bizland.com/ppsatyr.htm.
1	Parker, M. 2018. East Coast Aquatics ACCDC 2018 Report. East Coast Aquatics, 12 records.
1	Parks Canada. 2010. Specimens in or near National Parks in Atlantic Canada. Canadian National Museum, 3925 recs.
1	Payzant, P. 2018. Satyr Comma record from Bible Hill, NS. https://novascotiabutterflies.ca.
1	Popma, K. 2001. Phalarope & other bird observations in Westmorland Co. , Pers. comm. to K.A. Bredin. 5 recs.
1	Quigley, E.J. 2021. Email to Sean Blaney regarding Eastern White Cedar (Thuja occidentalis) stand near Shinimicas Bridge. NSDLF, 1 record.
1	Robinson, C.B. 1907. Early intervale flora of eastern Nova Scotia. Transactions of the Nova Scotia Institute of Science, 10:502-506. 1 rec.
1	Sabine, M. 2016. Black Ash records from NB DNR permanent forest sampling Plots. New Brunswick Department of Natural Resources, 39 recs.
1	Sabine, M. 2016. NB DNR staff incidental Black Ash observations. New Brunswick Department of Natural Resources.
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	Shortt, R. UNB specimen data for various tracked species formerly considered secure. Connell Memorial Herbarium, UNB, Fredericton NB. 2019.
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	Sollows, M.C. 2008. NBM Science Collections databases: herpetiles. New Brunswick Museum, Saint John NB, download Jan. 2008, 8636 recs.
1	Spicer, C.D. 2004. Specimens from CWS Herbarium, Mount Allison Herbarium Database. Mount Allison University, 5939 recs.
1	Stephen Freeman. 2022. New location for Black Ash in Queens County, NS. Personal communication, 2.
1	te Raa, J. 2016. Island Naturalist. Nature PEI, 219.
1	Thomas, H.H., Jones, G.S. & Diblee, R.L. 1980. Sorex palustris on Prince Edward Island. Can. Field Nat., vol 94:329-331. 2 recs.
1	WIlliams, M. Cape Breton University Digital Herbarium. Cape Breton University Digital Herbarium. 2013.
1	Wilson, G. 2013. 2013 Snapping Turtle email report, Wentworth, NS. Pers. comm.

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: Nuttby Ridge Wind Municipality/County: Colchester

Applicant/Owner: Nova Scotia Power Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson

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

Plot Type: ☑ Wetland ☐ Upland

Wetland Plot Coordinates: Lat (DD) 45.58377132 Long (DD) -63.27007417 Elevation (m): 256

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047839 UTM E (m) 478931 Slope (%): 2.5

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

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)
0-40								Organics
40+								Restrictive Layer - 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. Indicate depths as appropriate)

- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	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	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
4							
5							
6							
					TOTAL %	14	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCstri	*Glyceria striata*	Fowl Manna Grass	S5	FACW	60	YES
2	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	40	YES
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	105	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1							
2							
3							
4							
					TOTAL %	0	

OBL 0
FACW 100
FAC 69
FACU 0
UPL 0

Water Quality (Optional)			
T (°C)	**Cond (µs/cm)**	**pH**	**TDS (ppm)**
1.71	36	3.59	18

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	2.41	Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-001u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson

Plot Coordinates: Lat (DD) 45.58389456 Long (DD) -63.26998105 Elevation (m): 256

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047852 UTM E (m) 478939 Slope (%): 3.5

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

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? (If wetland) ☐ 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 3/4	-	-	-	-	-	Loam	-
20+	-	-	-	-	-	-	-	Refusal - 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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	60	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
3							
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
4	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
5							
6							
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	1	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	1	

VEGETATION - Mosses and Ground Lichens (OPTIONAL)

1	Leaf Litter					90	YES
2							
3							
4							
					TOTAL %	90	

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	75%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.58312556 Long (DD) -63.26936805 Elevation (m): 253

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047767 UTM E (m) 478986 Slope (%): 2.1

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

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? (If wetland) ☑ 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

Vernal pool

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	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. Indicate depths as appropriate)

- ☑ 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	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	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	SALIdisc	*Salix discolor*	Pussy Willow	S5	FAC	5	
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	0.1	
5							
6							
					TOTAL %	25.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	80	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.57	56	4.11	29

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.46	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-002u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.58295356 Long (DD) -63.26947805 Elevation (m): 254

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047748 UTM E (m) 478977 Slope (%): 11.8

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

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? (If wetland) ☐ 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	5YR 3/3							Sandy 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	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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
3							
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	0.1	
2	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
3	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	30	YES
4							
5							
6							
					TOTAL %	35.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	15	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	15	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-003w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.58106156 Long (DD) -63.26834505 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047537 UTM E (m) 479065 Slope (%): 7.3

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

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? (If wetland) ☑ 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	
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

- ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):15
- ☑ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	5	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	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	10	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	10	YES
2	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	0.1	
3	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	10	YES
4	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	5	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	25.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.15	31	5.7	15

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.94	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-003u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.58099056 Long (DD) -63.26831105 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047529 UTM E (m) 479068 Slope (%): 7.2

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

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? (If wetland) ☐ 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 with natural hardwood regeneration

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 5	-						Organic	
5 - 20	5YR 3/3						Silt	
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. Indicate depths as appropriate)

- ☐ 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	70	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	
3							
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	0.1	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.25	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-004w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson

Plot Coordinates: Lat (DD) 45.58087556 Long (DD) -63.27237505 Elevation (m): 275

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047518 UTM E (m) 478751 Slope (%): 3.6

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

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? (If wetland) ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	50	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC		
2	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW		
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC		
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	60	YES
2	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	10	
3	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	5	
4	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	85	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.15	27	3,93	13

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.19	Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-004u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.58095188 Long (DD) -63.27242863 Elevation (m): 275

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047526 UTM E (m) 478747 Slope (%): 7.8

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

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? (If wetland) ☐ 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 - 16	5YR 3/3						Silty Clay	
16 - 24	5YR 3/4						Silty Clay	
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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	0.1	
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	60	YES
3							
4							
5							
6							
					TOTAL %	60.1	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3							
4							
5							
6							
					TOTAL %	25	

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							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Leaf litter					90	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

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	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.57990356 Long (DD) -63.27313405 Elevation (m): 275

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047410 UTM E (m) 478691 Slope (%): 6.2

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

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? (If wetland) ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	60	YES
3							
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	20	YES
2	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	5	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
5							
6							
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	40	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	60	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	60	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
5.4	23	5.98	12

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.74	Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-005u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.57979256 Long (DD) -63.27309105 Elevation (m): 277

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047398 UTM E (m) 478694 Slope (%): 21.6

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

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? (If wetland) ☐ 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 - 15	7.5YR 3/3						Silt	
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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3							
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	2	
5							
6							
					TOTAL %	27	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	10	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Leaf litter					80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

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	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.57855456 Long (DD) -63.26582405 Elevation (m): 264

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047258 UTM E (m) 479261 Slope (%): 7.7

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

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? (If wetland) ☑ 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

Multiple inflowing WC and springs

SOIL PROFILE

Depth (cm)	Matrix Color	Matrix %	Redox Color	Redox %	Redox Type	Redox Loc	Texture	Remarks (Note Restrictive layer type, if encountered)
0 - 35	-						Organic	
35 +								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. Indicate depths as appropriate)

- ☑ 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	15	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	5	YES
3							
4							
5							
6							
					TOTAL %	20	

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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
3	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	2	
4							
5							
6							
					TOTAL %	22	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	80	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
3	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	5	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	95	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
3.94	42	4.98	17

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.88	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Ian Bryson

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

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.5785987 Long (DD) -63.26567374 Elevation (m): 263

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047263 UTM E (m) 479273 Slope (%): 13.2

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

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? (If wetland) ☐ 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

Immature hardwood growth

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 10	-						Organic	
10 - 25	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	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. Indicate depths as appropriate)

- ☐ 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	25	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	
4							
5							
6							
					TOTAL %	55	

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	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	10	YES
3							
4							
5							
6							
					TOTAL %	35	

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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.56	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-007w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

Plot Coordinates: Lat (DD) 45.57740308 Long (DD) -63.26381107 Elevation (m): 259

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047130 UTM E (m) 479418 Slope (%): 5.2

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

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? (If wetland) ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
4	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	
5	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	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	50	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3							
4							
5							
6							
					TOTAL %	55	

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	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
3	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	65	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	110	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.52	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-007u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

Plot Coordinates: Lat (DD) 45.57730956 Long (DD) -63.26392205 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047119 UTM E (m) 479409 Slope (%): 16.1

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

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? (If wetland) ☐ 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 - 8	-						Organic	
8 - 43	7.5YR 4/4							Sandy silt
43 +								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. Indicate depths as appropriate)

- ☐ 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	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
4	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
5	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
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	40	YES
2	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	20	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	
4	LONIcana	*Lonicera canadensis*	Canada Fly Honeysuckle	S5	FAC	1	
5							
6							
					TOTAL %	66	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	12	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	5	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.46	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.57796785 Long (DD) -63.26215934 Elevation (m): 252

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047192 UTM E (m) 479547 Slope (%): 6.7

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

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? (If wetland) ☑ 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 - 16	-						Organic	Rock 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

- ☑ 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. Indicate depths as appropriate)

- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	20	

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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	60	YES
3	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
4	SALIspec	*Salix sp.*	Unidentified Willow	-	Undetermined	5	
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
6							
					TOTAL %	95	

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	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	50	YES
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
4	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC	2	
5	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	
6	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	2	
7	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
8							
9							
10							
11							
12							
					TOTAL %	93	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.46	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

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

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.57783356 Long (DD) -63.26225005 Elevation (m): 253

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047177 UTM E (m) 479539 Slope (%): 10.3

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

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? (If wetland) ☐ 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 - 25	10YR 3/3							
25 - 50	10YR 3/3	95	10YR 5/6	5				
50 +								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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
4	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
5							
6							
					TOTAL %	95	

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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	25	YES
3	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	10	YES
4							
5							
6							
					TOTAL %	50	

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							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.37	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-009w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

Plot Coordinates: Lat (DD) 45.57797113 Long (DD) -63.25905168 Elevation (m): 229

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047192 UTM E (m) 479789 Slope (%): 11.9

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

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					TOTAL %	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: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-009u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022

Wetland Evaluator(s): Ian Bryson & Carrie Jardine | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.57794896 Long (DD) -63.25916493 Elevation (m): 230

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047189 UTM E (m) 479780 Slope (%): 13.5

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

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					TOTAL %	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: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.5776482 Long (DD) -63.25581198 Elevation (m): 233

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047155 UTM E (m) 480042 Slope (%): 4.7

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

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? (If wetland) ☑ 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 - 15	7.5YR 3/2							

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. Indicate depths as appropriate)

- ☑ 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	ABIEbals	*Abies balsamea*	Balsam Fir	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	25	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3							
4							
5							
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SOLIspec	*Solidago sp.*	Unidentified Goldenrod	-	Undetermined	5	
2	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	15	YES
3	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	15	YES
4	RANUrepe	*Ranunculus repens*	Creeping Buttercup	SNA	FAC	0.1	
5	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC	0.1	
6	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	0.1	
7							
8							
9							
10							
11							
12							
					TOTAL %	35.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.57	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-010u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.57760356 Long (DD) -63.25591006 Elevation (m): 233

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047150 UTM E (m) 480034 Slope (%): 4.7

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

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? (If wetland) ☐ 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 - 16	-						Organic	
16 - 35	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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	60	YES
2	PICEglau	*Picea glauca*	White Spruce	S5	FAC	5	
3							
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	10	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4	LONIcana	*Lonicera canadensis*	Canada Fly Honeysuckle	S5	FAC	5	
5	CORYcorn	*Corylus cornuta*	Beaked Hazel	S5	FAC	0.1	
6							
					TOTAL %	25.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	VEROoffi	*Veronica officinalis*	Common Speedwell	SNA	FACU	0.1	
2	DOELumbe		Hairy Flat-top White Aster	S5	FAC	10	YES
3	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	10.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.57725556 Long (DD) -63.25983105 Elevation (m): 238

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047112 UTM E (m) 479728 Slope (%): 2.7

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

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? (If wetland) ☑ 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	
25 - 40	10YR 4/3						Clay Loam	
40 - 60	10YR 3/4						Silt 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. Indicate depths as appropriate)

- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	PICEglau	*Picea glauca*	White Spruce	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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	40	YES
2	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	10	
3	PICEglau	*Picea glauca*	White Spruce	S5	FAC	5	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
6							
					TOTAL %	59	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	
2	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	30	
3	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	30	
4	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	50	YES
5	GLYCstri	*Glyceria striata*	Fowl Manna Grass	S5	FACW	80	YES
6	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	10	
7							
8							
9							
10							
11							
12							
					TOTAL %	202	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.49	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-011u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

Plot Coordinates: Lat (DD) 45.57722356 Long (DD) -63.26000205 Elevation (m): 239

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047109 UTM E (m) 479715 Slope (%): 11.5

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

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? (If wetland) ☐ 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 - 20	7.5YR 3/3						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. Indicate depths as appropriate)

- ☐ 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	80	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	
3	PICEglau	*Picea glauca*	White Spruce	S5	FAC	5	
4							
5							
6							
					TOTAL %	105	

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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

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

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.57704256 Long (DD) -63.26293505 Elevation (m): 258

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047089 UTM E (m) 479486 Slope (%): 4.3

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

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? (If wetland) ☑ 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	Underlain by 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ 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	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
5							
6							
					TOTAL %	75	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
3	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
5	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
6							
					TOTAL %	70	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	80	YES
2	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	10	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	40	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	130	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	30	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	30	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
6.2	22	5.75	11

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.44	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022

Wetland Evaluator(s): Ian Bryson & Carrie Jardine

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

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.57709156 Long (DD) -63.26319505 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047095 UTM E (m) 479465 Slope (%): 13.6

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

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? (If wetland) ☐ 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

Young forest.

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 - 35	7.5YR 3/3							Sandy silt
35 +								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. Indicate depths as appropriate)

- ☐ 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	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
3	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
4	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
5							
6							
					TOTAL %	85	

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							
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-	5	
3	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	5	
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	50	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.25	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-013w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.57739556 Long (DD) -63.25726305 Elevation (m): 223

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047127 UTM E (m) 479928 Slope (%): 8.1

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

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? (If wetland) ☑ 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 - 15								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. Indicate depths as appropriate)

- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
2	ACERrubr	*Acer rubrum*	Red Maple	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	LONIcana	*Lonicera canadensis*	Canada Fly Honeysuckle	S5	FAC	0.1	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
5	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	0.1	
6							
					TOTAL %	35.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	60	YES
2	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	10	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	15	
4	SOLIspec	*Solidago sp.*	Unidentified Goldenrod	-	Undetermined	0.1	
5	EPILspec	*Epilobium sp.*	a Willowherb	-	Undetermined	0.1	
6	RANUrepe	*Ranunculus repens*	Creeping Buttercup	SNA	FAC	0.1	
7	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC	0.1	
8	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	
9							
10							
11							
12							
					TOTAL %	85.5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.00	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-013u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.57737846 Long (DD) -63.25712861 Elevation (m): 225

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047125 UTM E (m) 479939 Slope (%): 22.8

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

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? (If wetland) ☐ 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 - 20	5YR 3/4							

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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
2	ACERpens	*Acer pensylvanicum*	Striped Maple	S5	FACU	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	60	YES
4							
5							
6							
					TOTAL %	75	

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, or Other* Ground Cover (OPTIONAL)

1	Leaf litter					100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.06	Non-Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-014w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.57684056 Long (DD) -63.25364406 Elevation (m): 245

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047065 UTM E (m) 480211 Slope (%): 3.2

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

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? (If wetland) ☑ 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	-						Organic	Rock 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

- ☑ 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. Indicate depths as appropriate)

- ☑ 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	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

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

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	20	YES
2	TUSSfarf	*Tussilago farfara*	Coltsfoot	SNA	FAC	5	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
4	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	0.1	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	0.1	
6	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	
7							
8							
9							
10							
11							
12							
					TOTAL %	55.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	175%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-014u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Nathan Hill & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.57680756 Long (DD) -63.25340006 Elevation (m): 246

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5047061 UTM E (m) 480230 Slope (%): 14.8

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

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? (If wetland) ☐ 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 - 6	-						Organic	
6 - 27	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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	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	40	YES
2							
3							
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.25	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-015w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.57484744 Long (DD) -63.25132494 Elevation (m): 255

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046843 UTM E (m) 480391 Slope (%): 2.9

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

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? (If wetland) ☑ 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 -2	-						Organic	
2 - 20	7.5YR 3/2							
20 -24	7.5YR 3/3							Rock 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	40	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
4							
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	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	5	
5							
6							
					TOTAL %	35	

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	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	0.1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-		
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-015u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Nathan Hill & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.57476456 Long (DD) -63.25138306 Elevation (m): 255

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046833 UTM E (m) 480386 Slope (%): 3.3

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

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? (If wetland) ☐ 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 - 10	5YR 3/2						Silt	
10 - 40	5YR 3/4						Silt Loam	Rock refusal at 40 cm

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. Indicate depths as appropriate)

- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	50	YES
3	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	
4							
5							
6							
					TOTAL %	80	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	YES
3	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	5	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	15	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	2.97	Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-016w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.547788 Long (DD) -63.302836 Elevation (m): 258

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043850 UTM E (m) 476360 Slope (%): 7.1

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

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? (If wetland) ☑ 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	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): <15
- ☑ 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	ABIEbals	*Abies balsamea*	Balsam Fir	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	25	YES
2	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	3	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	3	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
5							
6							
					TOTAL %	33	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	15	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	2	
4	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	15	YES
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
6	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	1	
7	CARExspec	*Carex sp.*	Unidentified Carex	-	Undetermined	0.1	
8							
9							
10							
11							
12							
					TOTAL %	35.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	>90	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.57	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-016u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.54774 Long (DD) -63.303024 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043845 UTM E (m) 476346 Slope (%): 10.9

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

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? (If wetland) ☐ 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	-							Duff
3 - 5	-						Organic	Peat
5 - 17	7.5YR 4/3						Sandy Loam	With some gravel
17 - 24	5YR 3/4						Clay Loam	Gravel 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. Indicate depths as appropriate)

- ☐ 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	30	YES
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
5							
6							
					TOTAL %	57	

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	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	2	
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
3	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	3	YES
4	SOLicana	*Solidago canadensis*	Canada Goldenrod	S4S5	FAC	2	
5	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	5	YES
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	14	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	<5	YES
2	Moss					2	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	2	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.20	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-017w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.57405356 Long (DD) -63.24936906 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046754 UTM E (m) 480543 Slope (%): 2.1

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

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? (If wetland) ☑ 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

Stilted trees.

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 - 30	5YR 3/1							

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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 20
- ☐ 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	45	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4							
5							
6							
					TOTAL %	75	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
2	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	15	YES
3							
4							
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	30	YES
2	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	15	YES
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	0.1	
4	SOLIspec	*Solidago sp.*	Unidentified Goldenrod	-	Undetermined	10	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	55.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.79	Hydrophtic Vegetation
Dominance Test	175%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-017u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.57419013 Long (DD) -63.24919817 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046769 UTM E (m) 480557 Slope (%): 5.9

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

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? (If wetland) ☐ 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 - 16	-						Organic	
16 - 31	7.5YR 3/4							
31 - 50	5YR 3/4							

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. Indicate depths as appropriate)

- ☐ 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	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
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	30	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	YES
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	5	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	10.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-018w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.57216956 Long (DD) -63.24876606 Elevation (m): 270

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046544 UTM E (m) 480590 Slope (%): 2.1

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

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? (If wetland) ☑ 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)
	-						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. Indicate depths as appropriate)

- ☑ 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	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	45	

VEGETATION - Shrub Stratum

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

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	CAREcrin	*Carex crinita*	Fringed Sedge	S5	OBL	0.1	
3	CARESpec	*Carex sp.*	Unidentified Carex	-	Undetermined	0.1	
4	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	0.1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	40.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-018u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 01 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Nathan Hill & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.57208256 Long (DD) -63.24859106 Elevation (m): 271

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046535 UTM E (m) 480603 Slope (%): 12.7

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

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? (If wetland) ☐ 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 - 30	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. Indicate depths as appropriate)

- ☐ 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	60	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3							
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	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
4							
5							
6							
					TOTAL %	50	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	0.1	
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
3	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	0.1	
4	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	
5	LONIcana	*Lonicera canadensis*	Canada Fly Honeysuckle	S5	FAC	5	YES
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	5.4	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.04	Non-Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-019w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54752323 Long (DD) -63.30139741 Elevation (m): 256

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043820 UTM E (m) 476473 Slope (%): 4.5

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

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? (If wetland) ☑ 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	7.5YR 3/2							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

- ☐ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): >30
- ☑ High Water Table (A2) Depth (cm): 3
- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4							
5							
6							
					TOTAL %	35	

VEGETATION - Shrub Stratum

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

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	60	YES
2	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	2	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	62	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.8	24	6.1	10

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.06	Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-019u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.547596 Long (DD) -63.301581 Elevation (m): 256

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043829 UTM E (m) 476458 Slope (%): 7.4

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

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? (If wetland) ☐ 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	-						Organic	Peat
9 - 25	7.5YR 3/3						Clay Loam	Rock 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. Indicate depths as appropriate)

- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	3	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	43	

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							
3							
4							
5							
6							
					TOTAL %	2	

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	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	0.1	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	20	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	20	

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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-020w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot Coordinates: Lat (DD) 45.568168 Long (DD) -63.274774 Elevation (m): 328

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046107 UTM E (m) 478559 Slope (%): 12.0

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

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? (If wetland) ☑ 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	Peat underlain by 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ 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	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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	YES
2	GLYCspec	*Glyceria sp.*	Unidentified Manna Grass	-	Undetermined	2	YES
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	2	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	6	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.8	35	6.12	20

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-020u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot Coordinates: Lat (DD) 45.56813839 Long (DD) -63.27465634 Elevation (m): 328

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5046103 UTM E (m) 478568 Slope (%): 14.4

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

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? (If wetland) ☐ 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 -15	-						Organic	Peat
15 - 20	5YR 3/3							Gravel 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	10	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	15	YES
5							
6							
					TOTAL %	45	

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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
5							
6							
					TOTAL %	37	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	2	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.76	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-021w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot Coordinates: Lat (DD) 45.56703173 Long (DD) -63.27487142 Elevation (m): 329

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045980 UTM E (m) 478551 Slope (%): 6.9

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

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? (If wetland) ☑ 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

Possible connection to previous wetland.

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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 10
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3							
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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4							
5							
6							
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	60	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.83	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-021u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.567121 Long (DD) -63.27492 Elevation (m): 330

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045990 UTM E (m) 478547 Slope (%): 15.9

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

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? (If wetland) ☐ 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	Peat
9 - 34	5YR 3/3							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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	15	YES
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	15	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	1	
4							
5							
6							
					TOTAL %	26	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	2	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Leaf litter					>75	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.50	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-022w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot Coordinates: Lat (DD) 45.565572 Long (DD) -63.270272 Elevation (m): 317

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045817 UTM E (m) 478909 Slope (%): 2.7

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

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? (If wetland) ☑ 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	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. Indicate depths as appropriate)

- ☑ 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	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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	45	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4							
5							
6							
					TOTAL %	55	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREspec	*Carex sp.*	Unidentified Carex	-	Undetermined	15	YES
2	CAREcane	*Carex canescens*	Silvery Sedge	S5	OBL	5	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	20	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	>50	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.8	32	6.04	18

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.85	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-022u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.56570136 Long (DD) -63.27025872 Elevation (m): 317

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045831 UTM E (m) 478910 Slope (%): 3.7

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

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? (If wetland) ☐ 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	Peat
10 - 18	5YR 3/3							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. Indicate depths as appropriate)

- ☐ 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	60	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3							
4							
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	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	25	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	25	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot ID: **NR-WL-023w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.56512174 Long (DD) -63.26928442 Elevation (m): 318

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045767 UTM E (m) 478986 Slope (%): 3.6

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

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? (If wetland) ☑ 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	Peat, 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ 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	PICErube	*Picea rubens*	Red Spruce	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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	3	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4							
5							
6							
					TOTAL %	28	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREcrin	*Carex crinita*	Fringed Sedge	S5	OBL	30	YES
2	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	1	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	31	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	>50	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.14	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot ID: **NR-WL-023u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.565156 Long (DD) -63.269353 Elevation (m): 318

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045770 UTM E (m) 478981 Slope (%): 5.8

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

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? (If wetland) ☐ 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	Peat
5 - 10	5YR 3/2						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. Indicate depths as appropriate)

- ☐ 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	60	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3							
4							
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	5	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	1	
4	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	2	
5							
6							
					TOTAL %	13	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	15	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	0.1	
3	CARExspec	*Carex sp.*	Unidentified Carex	-	Undetermined	0.1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	15.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	POLYspec	*Polytrichum sp.*	A Haircap Moss	-	-	10	YES
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	30	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	40	

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
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-024w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot Coordinates: Lat (DD) 45.56492557 Long (DD) -63.26821005 Elevation (m): 320

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045745 UTM E (m) 479070 Slope (%): 2.1

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

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? (If wetland) ☑ 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 buffer/plantation.

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	Refusal at 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 10
- ☑ 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	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	15	YES
2	CHAMcaly	*Chamaedaphne calyculata*	Leatherleaf	S5	OBL	15	YES
3	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	5	
4							
5							
6							
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREolig	*Carex oligosperma*	Few-Seeded Sedge	S5	OBL	70	YES
2	VACCmacr	*Vaccinium macrocarpon*	Large Cranberry	S5	FACW+	20	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	90	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.8	35	6.11	16

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.33	Hydrophtic Vegetation
Dominance Test	75%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-024u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.565012 Long (DD) -63.268223 Elevation (m): 320

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045754 UTM E (m) 479069 Slope (%): 2.8

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

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? (If wetland) ☐ 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	Peat
15 - 20	5YR 3/3							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. Indicate depths as appropriate)

- ☐ 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	60	YES
2							
3							
4							
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	30	YES
2	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	3	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	3	
5							
6							
					TOTAL %	41	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	>20	
2	CLADcris	*Cladonia cristatella*	British Soldiers Lichen	S5	-		
3	CLADrang	*Cladonia rangiferina*	Gray Reindeer Lichen	S5	-		
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-026w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 21 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.561531 Long (DD) -63.251379 Elevation (m): 284

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045363 UTM E (m) 480382 Slope (%): 4.5

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

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? (If wetland) ☑ 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	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

- ☑ 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 18
- ☑ 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	10	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	15	

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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	250%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-026u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 21 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.561503 Long (DD) -63.251253 Elevation (m): 284

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045360 UTM E (m) 480392 Slope (%): 4.3

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

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

Hydric Soil Present? ☐ Yes ☑ No | WESP-AC functional assessment completed? (If wetland) ☐ Yes ☐ No

Wetland Hydrology Present? ☐ 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 - 26	7.5YR 3/3						Loam	
26 - 48	7.5YR 5/6						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. Indicate depths as appropriate)

- ☐ 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	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	25	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	55	

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	BETUalle	*Betula alleghaniensis*	Yellow Birch	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							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-028w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022

Wetland Evaluator(s): Ian Bryson & Colin McVarish | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.55912157 Long (DD) -63.27102905 Elevation (m): 307

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045100 UTM E (m) 478848 Slope (%): 3.3

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

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? (If wetland) ☑ 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 blowdown/harvest

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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 10
- ☑ 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	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	40	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
3							
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	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	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
2	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	40	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.5	34	4.67	17

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.93	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-028u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55921157 Long (DD) -63.27094605 Elevation (m): 307

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5045110 UTM E (m) 478854 Slope (%): 6.7

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

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? (If wetland) ☐ 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 - 15	7.5YR 4/3						Silt Loam	
15 - 25	7.5YR 4/4						Silt	
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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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							
3							
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	1	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	1	YES
3							
4							
5							
6							
					TOTAL %	2	

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, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	60	YES
2	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	10	
3	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	20	YES
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-029w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55809983 Long (DD) -63.25431077 Elevation (m): 277

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044983 UTM E (m) 480152 Slope (%): 2.7

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

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? (If wetland) ☑ 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

Partial blowdown, 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 - 15	-						Organic	
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

- ☑ 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. Indicate depths as appropriate)

- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
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	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

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	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-029u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55797557 Long (DD) -63.25397006 Elevation (m): 277

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044969 UTM E (m) 480179 Slope (%): 13.7

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

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? (If wetland) ☐ 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 edge, partial cut.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 15	-						Organic	
15 - 30	5YR 3/3						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. Indicate depths as appropriate)

- ☐ 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	40	YES
2	PICEabie	*Picea abies*	Norway Spruce	SNA	FACU	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	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	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	20	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	30	YES
2	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	
3	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-	10	YES
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	45	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.21	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-030w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022

Wetland Evaluator(s): Ian Bryson & Colin McVarish | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.55813857 Long (DD) -63.24945406 Elevation (m): 287

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044986 UTM E (m) 480531 Slope (%): 5.4

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

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? (If wetland) ☑ 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

Partial cuts

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 +								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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	70	YES
2							
3							
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	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	30	YES
2	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	10	
3	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	30	YES
4	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	10	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.81	Non-Hydrophtic Vegetation
Dominance Test	75%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot ID: **NR-WL-030u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.55802701 Long (DD) -63.24923189 Elevation (m): 288

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044973 UTM E (m) 480548 Slope (%): 6.0

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

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? (If wetland) ☐ 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 - 15	2.5YR 4/2						Sandy Loam	
15 - 40	7.5YR 3/4						Sandy Loam	
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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3							
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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	1	
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	1	
5							
6							
					TOTAL %	17	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	30	YES
2	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	2	
3	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	30	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	62	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.39	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-031w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55789357 Long (DD) -63.24897806 Elevation (m): 288

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044958 UTM E (m) 480568 Slope (%): 3.8

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

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? (If wetland) ☑ 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	
8 - 20	5YR 2.5/2						Silt	
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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):10
- ☑ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	60	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	YES
3							
4							
5							
6							
					TOTAL %	75	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	60	YES
3	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	2	
4	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	10	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	77	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.4	26	5.3	12

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.54	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-031u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55802701 Long (DD) -63.24923189 Elevation (m): 288

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044973 UTM E (m) 480548 Slope (%): 6.0

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

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? (If wetland) ☐ 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 - 15	2.5YR 4/2						Sandy Loam	
15 - 40	7.5YR 3/4						Sandy Loam	
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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3							
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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	1	
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	1	
5							
6							
					TOTAL %	17	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	30	YES
2	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	2	
3	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	30	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	62	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.39	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot ID: **NR-WL-032w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.55604157 Long (DD) -63.27129905 Elevation (m): 313

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044758 UTM E (m) 478825 Slope (%): 4.9

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

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? (If wetland) ☑ 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	
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

- ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ 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	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	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	15	YES
2							
3							
4							
5							
6							
					TOTAL %	15	

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	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	20	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
5.4	27	4.7	13

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.17	Non-Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-032u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55590657 Long (DD) -63.27142705 Elevation (m): 314

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044743 UTM E (m) 478815 Slope (%): 7.9

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

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? (If wetland) ☐ 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

Seasonal high water table.

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	7.5YR 4/4							
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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	30	YES
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	20	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	YES
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ATHYfili	*Athyrium filix-femina*	Common Lady Fern	S5	FAC	60	YES
2	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	10	
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	75	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.48	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-033w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Meaghan Tearle

Plot Coordinates: Lat (DD) 45.555532 Long (DD) -63.308254 Elevation (m): 297

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044712 UTM E (m) 475941 Slope (%): 2.0

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

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? (If wetland) ☑ 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 - 60	-						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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 10
- ☑ 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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	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	15	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		5	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
5							
6							
					TOTAL %	37	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
2	CAREcane	*Carex canescens*	Silvery Sedge	S5	OBL	40	YES
3	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	5	
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	15	YES
5	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
6	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
7							
8							
9							
10							
11							
12							
					TOTAL %	70.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	95	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	95	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
5.6	40	4.4	20

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.06	Hydrophtic Vegetation
Dominance Test	175%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Ian Bryson & Meaghan Tearle

Plot ID: **NR-WL-033u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.555583 Long (DD) -63.308131 Elevation (m): 297

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044718 UTM E (m) 475950 Slope (%): 7.8

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

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? (If wetland) ☐ 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 - 15	7.5YR 3/4						Silt Loam	
15 - 40	7.5YR 4/4						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. Indicate depths as appropriate)

- ☐ 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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3							
4							
5							
6							
					TOTAL %	90	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	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	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	20	YES
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	10	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	35	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	16	
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	85	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	101	

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
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot ID: **NR-WL-034w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.55460157 Long (DD) -63.27162305 Elevation (m): 322

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044598 UTM E (m) 478799 Slope (%): 8.5

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

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? (If wetland) ☑ 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	
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. Indicate depths as appropriate)

- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	60	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
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	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	15	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	20	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	80	YES
2	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	10	
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
5	50	4.2	25

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.92	Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-034u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55458957 Long (DD) -63.27138905 Elevation (m): 323

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044597 UTM E (m) 478818 Slope (%): 4.0

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

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? (If wetland) ☐ 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 - 25	7.5YR 3/3						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. Indicate depths as appropriate)

- ☐ 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	ACERrube					5	
3							
4							
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	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							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	40	YES
3	PTILcris	*Ptilium crista-castrensis*	Knight's Plume Moss	S5	-	5	
4	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-037w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.55480907 Long (DD) -63.31068457 Elevation (m): 299

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044633 UTM E (m) 475751 Slope (%): 5.5

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

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					TOTAL %	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: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-037u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.55481264 Long (DD) -63.31085736 Elevation (m): 300

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044633 UTM E (m) 475737 Slope (%): 8.8

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

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					TOTAL %	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: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-038w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 12 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.55482011 Long (DD) -63.31108777 Elevation (m): 299

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044634 UTM E (m) 475719 Slope (%): 11.7

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

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? (If wetland) ☑ 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 -70	-						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. Indicate depths as appropriate)

- ☐ 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	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	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	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
3	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	2	
4	ILEXmucr	*Ilex mucronata*	Mountain Holly	S5		2	
5							
6							
					TOTAL %	21	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	15	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	0.1	
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
4	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	YES
6	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
7	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
8	RUBUhisp	*Rubus hispidus*	Bristly Dewberry	S5	FACW	0.1	
9	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	15	YES
10							
11							
12							
					TOTAL %	42.5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAfusc	*Sphagnum fuscum*	Brown Peat Moss	S5	-	80	YES
2	SPHArube	*Sphagnum rubellum*	Red Peat Moss	S5	-	20	YES
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 100

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.7	30	4.56	16

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.99	Hydrophtic Vegetation
Dominance Test	175%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind Municip/County: Colchester

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

Wetland Evaluator(s): #N/A

Plot ID: **NR-WL-038u**

Plot Type: ☐ Wetland ☑ Upland

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					TOTAL %	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: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-039w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Colin McVarish

Plot Coordinates: Lat (DD) 45.55469757 Long (DD) -63.27116505 Elevation (m): 322

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044609 UTM E (m) 478835 Slope (%): 2.2

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

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? (If wetland) ☑ 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	
25 - 35	7.5YR 3/2						Sandy Loam	
35 - 50	7.5YR 3/4						Sandy Loam	
50 +								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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 15
- ☑ Saturation (A3) Depth (cm): 10
- ☐ 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	60	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3							
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	5	YES
2							
3							
4							
5							
6							
					TOTAL %	5	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	0.1	
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	50	YES
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	80.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	40	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	30	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	70	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.03	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-039u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 02 2022

Wetland Evaluator(s): Ian Bryson & Colin McVarish | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.55458957 Long (DD) -63.27138905 Elevation (m): 323

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044597 UTM E (m) 478818 Slope (%): 4.0

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

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? (If wetland) ☐ 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 - 25	7.5YR 3/3						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. Indicate depths as appropriate)

- ☐ 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	ACERrube					5	
3							
4							
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	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							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	40	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	40	YES
3	PTILcris	*Ptilium crista-castrensis*	Knight's Plume Moss	S5	-	5	
4	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-040w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Ian Bryson & Meaghan Tearle | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.55392315 Long (DD) -63.30791859 Elevation (m): 290

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044533 UTM E (m) 475966 Slope (%): 2.9

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

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? (If wetland) ☑ 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	

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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 20
- ☑ 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	15	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	25	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
5	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	2	
6	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	1	
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	30	YES
2	OSMUcinn	*Osmundastrum cinnamomeur*	Cinnamon Fern	S5	FAC	30	YES
3	CAREcane	*Carex canescens*	Silvery Sedge	S5	OBL	20	YES
4	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
5	RUBUhisp	*Rubus hispidus*	Bristly Dewberry	S5	FACW	0.1	
6	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	0.1	
7	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	5	
8	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.1	
9							
10							
11							
12							
					TOTAL %	85.4	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	90	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.7	25	4.9	13

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.06	Non-Hydrophtic Vegetation
Dominance Test	120%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-040u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Ian Bryson & Meaghan Tearle | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.553902 Long (DD) -63.307771 Elevation (m): 291

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044531 UTM E (m) 475978 Slope (%): 6.8

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

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? (If wetland) ☐ 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 - 14	-						Organic	
14 - 40	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. Indicate depths as appropriate)

- ☐ 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							
3							
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	30	YES
2							
3							
4							
5							
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-041w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 04 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.553681 Long (DD) -63.265743 Elevation (m): 287

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044495 UTM E (m) 479258 Slope (%): 8.0

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

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? (If wetland) ☑ 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 - 14	7.5YR 3/2						Silt	
14 - 20	7.5YR 4/3						Silt	Redox features
20 - 33	7.5YR 3/4						Silty 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☐ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm): 21
- ☐ 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	15	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	20	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	3	
4							
5							
6							
					TOTAL %	28	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	25	YES
2	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	20	YES
3	GLYCspec	*Glyceria sp.*	Unidentified Manna Grass	-	Undetermined	2	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	47	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	40	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	40	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.2	32	7.1	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.43	Non-Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-041u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 04 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.553904 Long (DD) -63.265731 Elevation (m): 290

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044519 UTM E (m) 479259 Slope (%): 12.0

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

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? (If wetland) ☐ 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 5/3						Silt Loam	
8 - 16	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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	15	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	3	
3							
4							
5							
6							
					TOTAL %	18	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	45	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	2	
4							
5							
6							
					TOTAL %	52	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.06	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot ID: **NR-WL-044w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54996557 Long (DD) -63.26453505 Elevation (m): 280

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044082 UTM E (m) 479351 Slope (%): 3.6

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

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? (If wetland) ☑ 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	
25 - 45	5YR 3/2						Silt	Sandy silt, 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 18
- ☑ 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	50	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3							
4							
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	2	YES
2	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	1	YES
3							
4							
5							
6							
					TOTAL %	3	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	40	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	35	YES
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	1	
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	77	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	50	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	50	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.45	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-044u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.55007035 Long (DD) -63.26465909 Elevation (m): 280

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044093 UTM E (m) 479341 Slope (%): 4.5

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

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? (If wetland) ☐ 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 - 6	-						Organic	Living moss
6 - 18							Organic	
18 - 23	5YR 4/3							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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	8	YES
2							
3							
4							
5							
6							
					TOTAL %	8	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	65	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3							
4							
5							
6							
					TOTAL %	70	

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, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-045w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron

Plot Coordinates: Lat (DD) 45.55070856 Long (DD) -63.26287811 Elevation (m): 282

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044164 UTM E (m) 479481 Slope (%): 3.4

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

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? (If wetland) ☑ 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	-							Living moss
10 - 20							Organic	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 20
- ☑ 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	45	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	2	
4	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	0.5	
5							
6							
					TOTAL %	52.5	

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	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	61	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.49	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot ID: **NR-WL-045u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.55082322 Long (DD) -63.26292716 Elevation (m): 283

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5044176 UTM E (m) 479477 Slope (%): 7.4

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

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? (If wetland) ☐ 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 - 4	-						Organic	
4 - 9	10YR 4/2							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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	3	YES
2							
3							
4							
5							
6							
					TOTAL %	3	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	45	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	1	
5							
6							
					TOTAL %	61	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-047w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54832557 Long (DD) -63.31108704 Elevation (m): 281

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043912 UTM E (m) 475717 Slope (%): 4.4

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

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? (If wetland) ☑ 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	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 5
- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	YES
2	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	2	YES
3							
4							
5							
6							
					TOTAL %	4	

VEGETATION - Shrub 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							
4							
5							
6							
					TOTAL %	30	

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	20	YES
3	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	10	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	50	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.2	65	6.08	31

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.76	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-047u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54838457 Long (DD) -63.31121704 Elevation (m): 282

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043919 UTM E (m) 475706 Slope (%): 5.5

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

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? (If wetland) ☐ 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 - 28	-						Organic	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. Indicate depths as appropriate)

- ☐ 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							
3							
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	70	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	80	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	0.1	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	90	YES
2	POLYspec	*Polytrichum sp.*	A Haircap Moss	-	-	10	
3	CLADrang	*Cladonia rangiferina*	Gray Reindeer Lichen	S5	-	5	
4	CLADmaxi	*Cladonia maxima*	Giant Cladonia Lichen	S5	-	5	
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	110	

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
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-048w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 04 2022

Wetland Evaluator(s): Beth Cameron & Lydia Giffin | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.547587 Long (DD) -63.268248 Elevation (m): 265

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043818 UTM E (m) 479060 Slope (%): 3.1

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

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? (If wetland) ☑ 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	Living moss and peat
10 - 20	5YR 2.5/2						Silty Clay	
20 - 35	2.5Y 2.5/1						Sandy Clay	
35 - 50	10YR 3/2						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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 30
- ☑ 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	3	YES
2							
3							
4							
5							
6							
					TOTAL %	3	

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	10	YES
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	2	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	3	
5	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	2	
6							
					TOTAL %	22	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	35	YES
2	CAREcrin	*Carex crinita*	Fringed Sedge	S5	OBL	2	
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	2	
4	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	1	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	3	
6	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	5	
7	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	3	
8							
9							
10							
11							
12							
					TOTAL %	51	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
10.5	44	5.6	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.34	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-048u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 04 2022

Wetland Evaluator(s): Beth Cameron & Lydia Giffin | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54733061 Long (DD) -63.26823299 Elevation (m): 265

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043790 UTM E (m) 479061 Slope (%): 3.2

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

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

Hydric Soil Present? ☐ Yes ☑ No | WESP-AC functional assessment completed? (If wetland) ☐ Yes ☐ No

Wetland Hydrology Present? ☐ 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	Living moss
8 - 18							Organic	
18 - 23	7.5YR 3/2						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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	35	YES
2							
3							
4							
5							
6							
					TOTAL %	35	

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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	1	
4							
5							
6							
					TOTAL %	71	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	YES
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	0.1	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	10.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	100	YES
2							
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 100

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	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-049w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.547663 Long (DD) -63.26034 Elevation (m): 263

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043825 UTM E (m) 479678 Slope (%): 4.7

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

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? (If wetland) ☑ 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	-							Living moss
5 - 25							Organic	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

- ☑ 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. Indicate depths as appropriate)

- ☐ 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	8	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
4							
5							
6							
					TOTAL %	15	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	25	YES
2	CARErin	*Carex crinita*	Fringed Sedge	S5	OBL	5	
3	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	25	YES
4	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	1	
5	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	2	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	58	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 100

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.18	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-049u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54776572 Long (DD) -63.26040117 Elevation (m): 263

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043836 UTM E (m) 479673 Slope (%): 7.0

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

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? (If wetland) ☐ 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 - 8	-						Organic	
8 - 9	5YR 4/4						Loam	
9 - 23	5YR 3/4						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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	YES
3							
4							
5							
6							
					TOTAL %	7	

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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
4							
5							
6							
					TOTAL %	62	

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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-050w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 08 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.54609954 Long (DD) -63.28515112 Elevation (m): 219

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043658 UTM E (m) 477740 Slope (%): 5.8

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

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? (If wetland) ☑ 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	Rock 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

- ☑ 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 10
- ☑ 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	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	SPIRtome	*Spiraea tomentosa*	Steeplebush	S5	FAC	3	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	18	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOcris	*Dryopteris cristata*	Crested Wood Fern	S5	FACW	4	
2	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	2	
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	3	
4	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	2	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	YES
6	CARESpec	*Carex sp.*	Unidentified Carex	-	Undetermined	5	
7							
8							
9							
10							
11							
12							
					TOTAL %	26	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.6	28	7.6	

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.51	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind Municip/County: Colchester

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

Wetland Evaluator(s): #N/A

Plot ID: **NR-WL-050u**

Plot Type: ☐ Wetland ☑ Upland

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					TOTAL %	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: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-051w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.54657688 Long (DD) -63.29670754 Elevation (m): 254

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043714 UTM E (m) 476838 Slope (%): 4.8

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

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? (If wetland) ☑ 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	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): <10
- ☑ 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	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	15	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	3	
3							
4							
5							
6							
					TOTAL %	18	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	2	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	3	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
4	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	10	YES
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	8	YES
2	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	2	
3	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	20	YES
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	1	
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
6	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
7							
8							
9							
10							
11							
12							
					TOTAL %	31.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	70	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	70	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.8	20	5.98	10

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.35	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-051u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.546519 Long (DD) -63.296718 Elevation (m): 253

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043707 UTM E (m) 476837 Slope (%): 4.2

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

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? (If wetland) ☐ 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 -2	-						-	Duff
2 - 10							Organic	
8 - 9	7.5YR 5/3						Sandy Loam	With some gravel
9 - 40	7.5YR 5/8						Sandy Loam	Gravel 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. Indicate depths as appropriate)

- ☐ 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	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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	25	YES
2							
3							
4							
5							
6							
					TOTAL %	25	

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, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	2	
2	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	30	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	32	

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
Dominance Test	300%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-052w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 28 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54617093 Long (DD) -63.29149624 Elevation (m): 243

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043667 UTM E (m) 477245 Slope (%): 5.2

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

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? (If wetland) ☑ 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	

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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4							
5							
6							
					TOTAL %	45	

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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
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	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	10	
3	CAREspec	*Carex sp.*	Unidentified Carex	-	Undetermined	0.1	
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.92	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-052u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 28 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54622876 Long (DD) -63.2916642 Elevation (m): 244

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043674 UTM E (m) 477232 Slope (%): 9.4

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

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? (If wetland) ☐ 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 - 35	5YR 3/4							

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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	50	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
3							
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	0.1	
5							
6							
					TOTAL %	30.1	

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							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-054w1**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54857113 Long (DD) -63.31180818 Elevation (m): 279

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043940 UTM E (m) 475660 Slope (%): 2.2

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

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? (If wetland) ☑ 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 - 50	2.5YR 6/1						Sandy Clay	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. Indicate depths as appropriate)

- ☑ 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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	15	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	1	
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	1	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	3	
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	15	YES
2	SARRpurp	*Sarracenia purpurea*	Northern Pitcher Plant	S5	OBL	1	
3	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	10	YES
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	2	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	28.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.4	30	6.01	21

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.21	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-054w2**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54813857 Long (DD) -63.30941904 Elevation (m): 278

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043891 UTM E (m) 475847 Slope (%): 2.2

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

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? (If wetland) ☑ 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	Peat

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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	ACERrubr	*Acer rubrum*	Red Maple	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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
2	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	2	YES
3							
4							
5							
6							
					TOTAL %	7	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	2	
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	40	YES
4	ERIOspec	*Eriophorum sp.*	Unidentified Cottongrass	-	Undetermined	1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	44	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
2.3	50	5.96	23

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.62	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-054w3**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54555 Long (DD) -63.312977 Elevation (m): 275

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043605 UTM E (m) 475568 Slope (%): 5.5

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

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? (If wetland) ☑ 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	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 10
- ☑ 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	10	YES
2							
3							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	65	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3							
4							
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	5	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	YES
4	GLYCspec	*Glyceria sp.*	Unidentified Manna Grass	-	Undetermined	5	YES
5	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	23	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	POLYspec	*Polytrichum sp.*	A Haircap Moss	-	-	<10	
2	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	>90	
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc. **TOTAL %** 0

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
1.6	52	6.11	28

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.81	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-054u1**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54855322 Long (DD) -63.31169438 Elevation (m): 280

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043938 UTM E (m) 475669 Slope (%): 6.5

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

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? (If wetland) ☐ 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	
30 - 32	7.5YR 4/4						Clay Loam	
32 - 51	5YR 4/6						Clay Loam	With 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. Indicate depths as appropriate)

- ☐ 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	15	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

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

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, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	15	YES
2	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	10	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	25	

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	250%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-054u2**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54810207 Long (DD) -63.30933857 Elevation (m): 278

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043887 UTM E (m) 475853 Slope (%): 2.6

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

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? (If wetland) ☐ 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 - 19	10YR 5/2						Sandy Loam	
19 - 23	5YR 3/3						Sandy Loam	Rock 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	20	YES
2							
3							
4							
5							
6							
					TOTAL %	20	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	5	
4							
5							
6							
					TOTAL %	45	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	YES
2	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	1.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	85	YES
2	CLADrang	*Cladonia rangiferina*	Gray Reindeer Lichen	S5	-	2	
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	87	

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
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-054u3**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 29 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54565457 Long (DD) -63.31296804 Elevation (m): 276

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043616 UTM E (m) 475569 Slope (%): 12.3

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

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? (If wetland) ☐ 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	Rock refusal, dry

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. Indicate depths as appropriate)

- ☐ 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							
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	80	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3							
4							
5							
6							
					TOTAL %	90	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC		
2	MAIAcana	*Maianthemum canadense*	Wild Lily-of-The-Valley	S5	FAC		
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	>50	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-056w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 08 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.5456 Long (DD) -63.284813 Elevation (m): 218

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043602 UTM E (m) 477766 Slope (%): 5.5

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

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? (If wetland) ☑ 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 - 25	-						Organic	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

- ☑ 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 20
- ☑ 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	YES
2	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.1	
3							
4							
5							
6							
					TOTAL %	5.1	

VEGETATION - Shrub 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	20	YES
3							
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREcrin	*Carex crinita*	Fringed Sedge	S5	OBL	30	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	40	YES
3	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
4	OCLEacum	*Oclemena acuminata*	Whorled Wood Aster	S5	FACU	0.1	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
6	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	1	
7	DRYOcris	*Dryopteris cristata*	Crested Wood Fern	S5	FACW	0.1	
8							
9							
10							
11							
12							
					TOTAL %	73.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 100

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
9.5	27	7.4	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.49	Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind Municip/County: Colchester

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

Wetland Evaluator(s): #N/A

Plot ID: **NR-WL-056u**

Plot Type: ☐ Wetland ☑ Upland

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? (If wetland) ☐ 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 - 26	7.5YR 3/2						-	Clayey 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. Indicate depths as appropriate)

- ☐ 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	5	YES
2	PICErube	*Picea rubens*	Red Spruce	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	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	2	
3							
4							
5							
6							
					TOTAL %	12	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	YES
2	CARExspec	*Carex sp.*	Unidentified Carex	-	Undetermined	2	YES
3	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	1	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	80	YES
2	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	2	
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	82	

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	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-057w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 28 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.545266 Long (DD) -63.287388 Elevation (m): 226

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043566 UTM E (m) 477565 Slope (%): 4.0

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

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? (If wetland) ☑ 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	Rock 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

- ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	25	

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	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	10	YES
3							
4							
5							
6							
					TOTAL %	35	

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	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	5	
3	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	10	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	58	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.81	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-057u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 28 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.545267 Long (DD) -63.287287 Elevation (m): 226

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043566 UTM E (m) 477573 Slope (%): 4.9

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

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

Hydric Soil Present? ☐ Yes ☑ No | WESP-AC functional assessment completed? (If wetland) ☐ Yes ☐ No

Wetland Hydrology Present? ☐ 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 - 45	5YR 4/4						Clay 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	PICEglau	*Picea glauca*	White Spruce	S5	FAC	10	YES
3							
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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	15	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	YES
3	MAIAcana	*Maianthemum canadense*	Wild Lily-of-The-Valley	S5	FAC	0.1	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

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
Dominance Test	140%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-058w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 28 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.545569 Long (DD) -63.296395 Elevation (m): 251

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043602 UTM E (m) 476862 Slope (%): 3.8

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

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? (If wetland) ☑ 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 - 20	7.5YR 6/2							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

- ☐ 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	25	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3							
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	5	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	3	YES
3							
4							
5							
6							
					TOTAL %	8	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
3	CAREintu	*Carex intumescens*	Bladder Sedge	S5	FAC	3	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	28	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	10	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	10	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
5.5	21	5.82	24

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.85	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-058u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 28 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54563957 Long (DD) -63.29641704 Elevation (m): 251

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043610 UTM E (m) 476861 Slope (%): 3.9

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

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? (If wetland) ☐ 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 - 31	7.5YR 4/6							Rock 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	40	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4	PICEglau	*Picea glauca*	White Spruce	S5	FAC	1	
5							
6							
					TOTAL %	56	

VEGETATION - Shrub 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	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	3	YES
2	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	1	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	4	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	20	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	20	

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	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: 0

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-060w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54681157 Long (DD) -63.28162505 Elevation (m): 218

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043736 UTM E (m) 478016 Slope (%): 3.6

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

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? (If wetland) ☑ 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 - 30	5YR 2.5/1						-	Loamy clay, 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	25	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
3	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	3	
4							
5							
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	4	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	10	YES
4	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	0.5	
5	VIBUcass	*Viburnum cassinoides*	Northern Wild Raisin	S5	FAC	0.5	
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	10	YES
2	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	10	YES
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
4	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	22	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.63	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-060u**

Applicant/Owner: Nova Scotia Power | Sample Date: 0 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.54683772 Long (DD) -63.2814615 Elevation (m): 219

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043739 UTM E (m) 478029 Slope (%): 8.0

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

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? (If wetland) ☐ 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 - 9	2.5YR 2.5/4						Clay Loam	With organics
9 - 24	5YR 5/3						Clay Loam	Refusal at depth, gravel/boulder

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. Indicate depths as appropriate)

- ☐ 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	8	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	25	YES
3							
4							
5							
6							
					TOTAL %	33	

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	10	YES
3	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	3	
4							
5							
6							
					TOTAL %	18	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	3	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	2	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	80	YES
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	20	
3	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	0.1	
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100.1	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.85	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-061w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 04 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Lydia Giffin

Plot Coordinates: Lat (DD) 45.545751 Long (DD) -63.26972 Elevation (m): 257

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043615 UTM E (m) 478945 Slope (%): 6.1

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

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? (If wetland) ☑ 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 - 21	7.5YR 3/3						Silty Clay	
21 - 36	7.5YR 4/4						Silty Clay	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. Indicate depths as appropriate)

- ☑ 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							
2							
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	3	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	5
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
5							
6							
					TOTAL %	28	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	8	
2	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	50	YES
3	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	3	
4	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	5	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	67	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	20	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	20	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
11.2	35	6.4	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.86	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-061u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 04 2022

Wetland Evaluator(s): Beth Cameron & Lydia Giffin | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.545696 Long (DD) -63.26957 Elevation (m): 257

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043609 UTM E (m) 478956 Slope (%): 7.7

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

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? (If wetland) ☐ 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	10YR 2/1						Silty Clay	
12 - 36	7.5YR 3/3						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	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. Indicate depths as appropriate)

- ☐ 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	10	YES
3							
4							
5							
6							
					TOTAL %	30	

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	25	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
4	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	2	
5							
6							
					TOTAL %	52	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	35	YES
2	DRYOspec	*Dryopteris sp.*	a Wood Fern	-	-	1	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	36	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot ID: **NR-WL-062w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54268257 Long (DD) -63.26173105 Elevation (m): 257

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043272 UTM E (m) 479567 Slope (%): 2.5

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

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? (If wetland) ☑ 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 - 35	-						Organic	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. Indicate depths as appropriate)

- ☐ 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	10	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	8	YES
3							
4							
5							
6							
					TOTAL %	18	

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	8	YES
3	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	8	YES
4	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	1	
5	KALMangu	*Kalmia angustifolia*	Sheep Laurel	S5	FAC	0.5	
6							
					TOTAL %	27.5	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
2	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	1	
3	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	20	YES
4	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	3	
5	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC	0.5	
6	MITEnuda	*Mitella nuda*	Naked Bishop's-Cap	S4S5	FACW	0.5	
7	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	2	
8							
9							
10							
11							
12							
					TOTAL %	32	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
11.4	119	7	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.32	Hydrophtic Vegetation
Dominance Test	175%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-062u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.542649 Long (DD) -63.261415 Elevation (m): 258

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043268 UTM E (m) 479592 Slope (%): 5.2

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

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? (If wetland) ☐ 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 - 8	-						Organic	
8 - 24	10YR 4/3						Silt Loam	
24 - 38	10YR 3/3						Silt Loam	Gravel 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	2	YES
2							
3							
4							
5							
6							
					TOTAL %	2	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	45	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	1	
4	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	3	
5							
6							
					TOTAL %	54	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	
2	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	1	
3	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	20	YES
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	24	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	0.1	YES
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	0.1	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0.2	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.04	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Beth Cameron & Amanda Coldham

Plot ID: **NR-WL-063w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.542892 Long (DD) -63.317299 Elevation (m): 291

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043311 UTM E (m) 475229 Slope (%): 8.7

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

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? (If wetland) ☑ 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 - 35	-						Organic	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 7
- ☑ 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	4	YES
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	12	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	1	
4							
5							
6							
					TOTAL %	17	

VEGETATION - Shrub Stratum

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

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
2	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	10	
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
5	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.5	
6	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	30	YES
7							
8							
9							
10							
11							
12							
					TOTAL %	52.5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	1.72	Hydrophtic Vegetation
Dominance Test	175%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Beth Cameron & Amanda Coldham

Plot ID: **NR-WL-063u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54296299 Long (DD) -63.31734351 Elevation (m): 292

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043319 UTM E (m) 475226 Slope (%): 11.9

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

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? (If wetland) ☐ 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	Rock 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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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							
3							
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	3	YES
2							
3							
4							
5							
6							
					TOTAL %	3	

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, or Other* Ground Cover (OPTIONAL)

1	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	40	YES
2	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	30	YES
3	Moss					30	YES
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron

Plot ID: **NR-WL-064w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54191548 Long (DD) -63.25934087 Elevation (m): 257

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043186 UTM E (m) 479754 Slope (%): 2.3

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

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? (If wetland) ☑ 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	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

- ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 10
- ☑ 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	3	YES
2							
3							
4							
5							
6							
					TOTAL %	3	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	45	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	0.5	
4							
5							
6							
					TOTAL %	55.5	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	25	YES
2	GEUMlaci	*Geum laciniatum*	Rough Avens	S5	FAC	20	YES
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	0.1	
4	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	3	
5	OXALmont	*Oxalis montana*	Common Wood Sorrel	S5	FAC	0.5	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	48.6	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	95	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	95	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
9.2	34	6.91	

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.17	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-064u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 02 2022

Wetland Evaluator(s): Ian Bryson & Beth Cameron | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54195149 Long (DD) -63.2594979 Elevation (m): 258

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043190 UTM E (m) 479741 Slope (%): 7.0

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

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? (If wetland) ☐ 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						Sandy Loam	
8 - 27	7.5YR 4/4						Silt Loam	Trace gravel, 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. Indicate depths as appropriate)

- ☐ 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	3	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	YES
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	70	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3							
4							
5							
6							
					TOTAL %	75	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.5	YES
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	1	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	1.5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-065w**

Applicant/Owner: Nova Scotia Power | Sample Date: #N/A | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): #N/A

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? (If wetland) ☑ 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	-							Living moss
7 - 17							Organic	Underlain by 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 17
- ☑ 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	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	15	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	2	
4	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	1	
5							
6							
					TOTAL %	33	

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	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	40	YES
3	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	1	
4	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	1	
5	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	0.5	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	47.5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
9.4	44	6.6	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.74	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind Municip/County: Colchester

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

Wetland Evaluator(s): #N/A

Plot ID: **NR-WL-065u**

Plot Type: ☐ Wetland ☑ Upland

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

Hydric Soil Present? ☐ Yes ☑ No WESP-AC functional assessment completed? (If wetland) ☐ Yes ☐ No

Wetland Hydrology Present? ☐ 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 - 3	-						Organic	
3 - 5	10YR 4/3						Sandy Loam	
5 - 22	7.5YR 3/3						Sandy Clay	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. Indicate depths as appropriate)

- ☐ 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	50	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3							
4							
5							
6							
					TOTAL %	65	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	35	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	5	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	40	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	70	YES
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	75	

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
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Beth Cameron & Amanda Coldham

Plot ID: **NR-WL-066w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.54144357 Long (DD) -63.31753704 Elevation (m): 289

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043150 UTM E (m) 475210 Slope (%): 2.3

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

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? (If wetland) ☑ 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 - 22	2.5Y 5/1						Silty Clay Loam	
22 - 32	7.5YR 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	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. Indicate depths as appropriate)

- ☑ 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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	70	YES
3	VACCangu	*Vaccinium angustifolium*	Late Lowbush Blueberry	S5	FAC	0.1	
4							
5							
6							
					TOTAL %	85.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	2	YES
2	VACCmacr	*Vaccinium macrocarpon*	Large Cranberry	S5	FACW+	0.1	
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	1	
4	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	3	YES
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	7.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	40	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	40	

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	67%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Beth Cameron & Amanda Coldham

Plot ID: **NR-WL-066u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.54130523 Long (DD) -63.3175732 Elevation (m): 289

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5043134 UTM E (m) 475207 Slope (%): 3.0

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

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? (If wetland) ☐ 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 - 7	7.5YR 5/3						Clay Loam	
7 - 27	5YR 3/4						Loamy Sand	Rock 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. Indicate depths as appropriate)

- ☐ 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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	1	
4							
5							
6							
					TOTAL %	61	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	3	YES
2	GAULproc	*Gaultheria procumbens*	Eastern Teaberry	S5	FAC	1	YES
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	1	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Moss					30	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	30	

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
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-068w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Amanda Coldham

Plot Coordinates: Lat (DD) 45.53876478 Long (DD) -63.31710096 Elevation (m): 284

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042852 UTM E (m) 475243 Slope (%): 6.0

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

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? (If wetland) ☑ 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	Bedrock 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

- ☑ 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. Indicate depths as appropriate)

- ☐ 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	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	8	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	8	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
5							
6							
					TOTAL %	26	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	1	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	1	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	3	YES
4	SORBamer	*Sorbus americana*	American Mountain Ash	S5	FAC	0.1	
5							
6							
					TOTAL %	5.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	15	YES
2	GLYCspec	*Glyceria sp.*	Unidentified Manna Grass	-	Undetermined	3	
3	OSMUcinn	*Osmundastrum cinnamomeun*	Cinnamon Fern	S5	FAC	5	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	3	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	26	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.55	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Beth Cameron & Amanda Coldham

Plot ID: **NR-WL-068u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.53874303 Long (DD) -63.31705415 Elevation (m): 285

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042850 UTM E (m) 475247 Slope (%): 7.5

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

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? (If wetland) ☐ 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 - 32	5YR 4/4							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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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							
3							
4							
5							
6							
					TOTAL %	50	

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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	8	YES
4							
5							
6							
					TOTAL %	28	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREspec	*Carex sp.*	Unidentified Carex	-	Undetermined	2	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	0.1	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0.1	

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
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-069w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson

Plot Coordinates: Lat (DD) 45.53450457 Long (DD) -63.31537204 Elevation (m): 275

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042378 UTM E (m) 475376 Slope (%): 2.5

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

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? (If wetland) ☑ 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 - 80	-						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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm):
- ☑ High Water Table (A2) Depth (cm): 2.5
- ☑ 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	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	50	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	5	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	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	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	50	YES
2	GLYCstri	*Glyceria striata*	Fowl Manna Grass	S5	FACW	30	YES
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
4	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	5	
5	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	10	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	100	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	20	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	30	YES
3	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	
4	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	30	YES
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	90	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.8	28	5.39	14

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.35	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **NR-WL-069u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.53417857 Long (DD) -63.31530904 Elevation (m): 276

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042342 UTM E (m) 475381 Slope (%): 5.5

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

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? (If wetland) ☐ 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 - 11	-						Organic	
11 - 24	7.5YR 3/4						Clay Loam	
24 +							-	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. Indicate depths as appropriate)

- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	50	

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							
4							
5							
6							
					TOTAL %	10	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	30	YES
2	RHYTtriq	*Rhytidiadelphus triquetrus*	Electrified Cat's-tail Moss	S5	-	10	YES
3	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	5	
4	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	5	
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	50	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 14 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-070w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.5325236 Long (DD) -63.3089659 Elevation (m): 304

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042156 UTM E (m) 475875 Slope (%): 5.2

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

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? (If wetland) ☑ 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	2.5YR 2.5/1						Silt	
15 - 30	5YR 4/6						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. Indicate depths as appropriate)

- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	80	

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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	25	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
4							
5							
6							
					TOTAL %	55	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCstri	*Glyceria striata*	Fowl Manna Grass	S5	FACW	30	YES
2	CAREintu	*Carex intumescens*	Bladder Sedge	S5	FAC	0.1	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	5	
4	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	50	YES
5	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	95.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-070u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 14 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.53251466 Long (DD) -63.30884995 Elevation (m): 304

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042155 UTM E (m) 475884 Slope (%): 8.8

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

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? (If wetland) ☐ 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						Silt Loam	
8 - 15	5YR 3/3						Silt Loam	
15 - 45	5YR 4/6						Silt Loam	
45 +								Gravel/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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4							
5							
6							
					TOTAL %	65	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	20	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	25	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ATHYfili	*Athyrium filix-femina*	Common Lady Fern	S5	FAC	30	YES
2	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	0.1	
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	35.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.96	Non-Hydrophtic Vegetation
Dominance Test	67%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-071w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 14 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.531985 Long (DD) -63.310085 Elevation (m): 300

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042097 UTM E (m) 475788 Slope (%): 8.9

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

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? (If wetland) ☑ 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 - 24	7.5YR 3/2						Silt	
24 - 36	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. Indicate depths as appropriate)

- ☐ 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	40	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORYcorn	*Corylus cornuta*	Beaked Hazel	S5	FAC	0.1	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	0.1	
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	YES
4	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	YES
5							
6							
					TOTAL %	15.2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
2	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	60	YES
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
9.2	23	7.2	

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	4.06	Non-Hydrophtic Vegetation
Dominance Test	67%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-071u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 14 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.531867 Long (DD) -63.310138 Elevation (m): 301

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042084 UTM E (m) 475784 Slope (%): 11.3

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

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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	20	YES
2	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	30	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	
4							
5							
6							
					TOTAL %	55	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
3	BETUpapy	*Betula papyrifera*	Paper Birch	S5	FACU	5	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
5							
6							
					TOTAL %	45	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	20	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Moss					0.1	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0.1	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.88	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 14 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-072w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.531082 Long (DD) -63.307898 Elevation (m): 298

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041996 UTM E (m) 475958 Slope (%): 11.2

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

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? (If wetland) ☑ 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, historic timber harvesting

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 - 28	7.5YR 3/2						Silt	
28 +								Rock/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	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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	50	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	30	YES
3							
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU		
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC		
3							
4							
5							
6							
					TOTAL %	0	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
3	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	30	YES
4	OCLEacum	*Oclemena acuminata*	Whorled Wood Aster	S5	FACU	5	
5	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	10	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	75	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	25	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	25	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.55	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-072u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 14 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.531167 Long (DD) -63.307922 Elevation (m): 299

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042005 UTM E (m) 475956 Slope (%): 22.0

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

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? (If wetland) ☐ 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 - 4	-						Organic	Humus
4 - 10	7.5YR 3/3						Silt Loam	
10 - 45	7.5YR 4/4						Silt Loam	
45 +								Gravel/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. Indicate depths as appropriate)

- ☐ 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	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	20	YES
3	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	30	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
3							
4							
5							
6							
					TOTAL %	32	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	1	
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	YES
3	DENDdend	*endrolycopodium dendroideu*	Round-branched Tree-clubmos	S5	Undetermined	0.1	
4	ATHYfili	*Athyrium filix-femina*	Common Lady Fern	S5	FAC	10	YES
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	21.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	POLYcomm	*Polytrichum commune*	Common Haircap Moss	S5	-	5	YES
2	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-		
3	Leaf litter					>50	YES
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	5	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.83	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **NR-WL-073w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.53180857 Long (DD) -63.31582504 Elevation (m): 267

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042079 UTM E (m) 475339 Slope (%): 6.0

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

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? (If wetland) ☑ 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 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 5
- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	
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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	YES
3							
4							
5							
6							
					TOTAL %	35	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	30	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	40	YES
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	5	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	1	
6	GALIpalu	*Galium palustre*	Common Marsh Bedstraw	S5	FACW+	0.1	
7	BRACaris	*Brachyelytrum aristosum*	Northern Shorthusk	S5	FAC	0.1	
8							
9							
10							
11							
12							
					TOTAL %	81.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
11.5	31	3.93	15

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.58	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 01 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **NR-WL-073u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.53206557 Long (DD) -63.31538004 Elevation (m): 270

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5042107 UTM E (m) 475374 Slope (%): 9.8

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

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? (If wetland) ☐ 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 - 8	-						Organic	Humus
8 - 18	7.5YR 2.5/2						Silt 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	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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	40	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
5	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
6							
					TOTAL %	90	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	YES
4							
5							
6							
					TOTAL %	20	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
2	BRACaris	*Brachyelytrum aristosum*	Northern Shorthusk	S5	FAC	50	YES
3	SPINanno	*Spinulum annotinum*	Stiff Clubmoss	S5	FAC	1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	61	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.41	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-074w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.52851659 Long (DD) -63.28023897 Elevation (m): 190

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041703 UTM E (m) 478117 Slope (%): 10.4

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

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? (If wetland) ☑ 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 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. Indicate depths as appropriate)

- ☐ Surface Water (A1) Depth (cm):
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	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	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC		
2	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC		
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL		
4	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW		
5	GEUMriva	*Geum rivale*	Water Avens	S5	OBL		
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-074u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52840957 Long (DD) -63.28037405 Elevation (m): 191

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041691 UTM E (m) 478106 Slope (%): 15.5

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

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? (If wetland) ☐ 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 - 2	-						Organic	
2 - 4	7.5YR 3/3						Sandy Loam	
4 - 15	5YR 3/4						Sandy Loam	
15 - 45	5YR 4/4						Sandy Loam	
45 +								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. Indicate depths as appropriate)

- ☐ 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	30	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	5	YES
3							
4							
5							
6							
					TOTAL %	20	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	40	YES
2	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	30	YES
3	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	71	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.56	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-075w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill

Plot Coordinates: Lat (DD) 45.52914157 Long (DD) -63.27938205 Elevation (m): 176

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041772 UTM E (m) 478184 Slope (%): 10.4

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

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? (If wetland) ☑ 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	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. Indicate depths as appropriate)

- ☐ 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	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
2	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	50	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	80	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	20	YES
2	SOLIspec	*Solidago sp.*	Unidentified Goldenrod	-	Undetermined	0.1	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	5	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	25.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.52	Hydrophtic Vegetation
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022

Wetland Evaluator(s): Nathan Hill

Plot ID: **NR-WL-075u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52908357 Long (DD) -63.27956505 Elevation (m): 179

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041766 UTM E (m) 478170 Slope (%): 26.1

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

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? (If wetland) ☐ 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	10YR 4/4							Silty sand with large chunks of shale

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. Indicate depths as appropriate)

- ☐ 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	40	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	100	

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	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
4							
5							
6							
					TOTAL %	50	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	20	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Leaf litter					80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

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
Dominance Test	200%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **NR-WL-076w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.52774757 Long (DD) -63.28072805 Elevation (m): 193

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041618 UTM E (m) 478078 Slope (%): 16.0

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

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? (If wetland) ☑ 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

Sloping mosaic, GW discharge wetland

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. Indicate depths as appropriate)

- ☑ 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	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORYcorn	*Corylus cornuta*	Beaked Hazel	S5	FAC	15	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3							
4							
5							
6							
					TOTAL %	30	

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	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	10	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	
5	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	0.1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	100.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
10.8	81	6.7	40

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.24	Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-076u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson

Plot Coordinates: Lat (DD) 45.52779457 Long (DD) -63.28093605 Elevation (m): 196

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041623 UTM E (m) 478062 Slope (%): 14.1

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

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? (If wetland) ☐ 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

Rocky/sloped.

SOIL PROFILE

Depth	Matrix		Redox				Texture	Remarks
(cm)	Color	%	Color	%	Type	Loc		(Note Restrictive layer type, if encountered)
0 - 8	-						Organic	
8 - 14	7.5YR 3/2						Sandy Loam	
14 - 30	7.5YR 4/4						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	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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	70	YES
2							
3							
4							
5							
6							
					TOTAL %	70	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORYcorn	*Corylus cornuta*	Beaked Hazel	S5	FAC	50	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3							
4							
5							
6							
					TOTAL %	60	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	30	YES
2	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	0.1	
3	POLYacro	*Polystichum acrostichoides*	Christmas Fern	S5	FACU	1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	31.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.44	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-077w**

Applicant/Owner: Nova Scotia Power | Sample Date: 0 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): 0

Plot Coordinates: Lat (DD) 45.52697157 Long (DD) -63.29826204 Elevation (m): 262

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041536 UTM E (m) 476709 Slope (%): 2.0

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

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? (If wetland) ☑ 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	

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. Indicate depths as appropriate)

- ☑ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
4	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	5	
5							
6							
					TOTAL %	40	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	15	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	0.1	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	35.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CAREintu	*Carex intumescens*	Bladder Sedge	S5	FAC	10	
2	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	15	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	30	YES
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
5	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	5	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	80	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	20	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	20	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
7.1	25	5.09	12

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.46	Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022

Wetland Evaluator(s): Ian Bryson & Lisa MacDonald

Plot ID: **NR-WL-077u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52690657 Long (DD) -63.29806104 Elevation (m): 263

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041529 UTM E (m) 476725 Slope (%): 11.2

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

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? (If wetland) ☐ 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 - 8	-						Organic	
8 - 12	7.5YR 5/3							
12 - 40	7.5YR 3/4							

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. Indicate depths as appropriate)

- ☐ 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	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
3							
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	1	YES
2							
3							
4							
5							
6							
					TOTAL %	1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	10	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	20	YES
2	BAZZtril	*Bazzania trilobata*	Three-lobed Whipwort	S5	-	10	YES
3	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	YES
4	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-	3	
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	43	

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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **NR-WL-078w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.52732157 Long (DD) -63.28237705 Elevation (m): 205

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041571 UTM E (m) 477949 Slope (%): 7.9

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

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? (If wetland) ☑ 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

GW evidence

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. Indicate depths as appropriate)

- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
3	PICEglau	*Picea glauca*	White Spruce	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	20	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORYcorn	*Corylus cornuta*	Beaked Hazel	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	GLYCcana	*Glyceria canadensis*	Canada Manna Grass	S5	OBL	60	YES
2	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	0.1	
3	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	10	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	
5	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
6	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	2	
7	CHRYamer	*Chrysosplenium americanum*	American Golden Saxifrage	S5	OBL	0.1	
8	MITEnuda	*Mitella nuda*	Naked Bishop's-Cap	S4S5	FACW	0.1	
9							
10							
11							
12							
					TOTAL %	102.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8	63	6.3	30

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	1.97	Hydrophtic Vegetation
Dominance Test	250%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-078u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson

Plot Coordinates: Lat (DD) 45.52743557 Long (DD) -63.28228205 Elevation (m): 206

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041583 UTM E (m) 477957 Slope (%): 15.3

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

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? (If wetland) ☐ 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 - 8	-						Organic	
8 - 12	7.5YR 4/2						Sandy Loam	
12 - 20	7.5YR 3/4						Sandy Loam	
20 - 35	7.5YR 4/4						Sandy Loam	
35 +								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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	60	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	20	YES
3							
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	2	
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	YES
3							
4							
5							
6							
					TOTAL %	12	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	40	YES
2	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	20	YES
3	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	0.1	
4	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	0.1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	60.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	DICRscop	*Dicranum scoparium*	Common Broom Moss	S5	-	5	YES
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	1	
3	HYPNimpo	*Hypnum imponens*	Pellucid Plait Moss	S5	-	1	
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	7	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.46	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-081w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.52568157 Long (DD) -63.28874605 Elevation (m): 218

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041390 UTM E (m) 477451 Slope (%): 2.6

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

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? (If wetland) ☑ 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 - 150 +	-						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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 5
- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	15	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	CORYcorn	*Corylus cornuta*	Beaked Hazel	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	MATTstru	*Matteuccia struthiopteris*	Ostrich Fern	S5	FACW	70	YES
2	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	10	
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
4	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	5	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	90	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.48	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-081u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52558257 Long (DD) -63.28863505 Elevation (m): 219

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041379 UTM E (m) 477460 Slope (%): 4.5

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

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? (If wetland) ☐ 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 - 20	7.5YR 4/3						Silt 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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	70	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
3							
4							
5							
6							
					TOTAL %	80	

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	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	40	YES
2	CAREnova	*Carex novae-angliae*	New England Sedge	S5	FACU	5	
3	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	46	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	**Value**	**Interpretation**
Prevalence Index	3.60	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-082w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson

Plot Coordinates: Lat (DD) 45.52603657 Long (DD) -63.30940504 Elevation (m): 290

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041436 UTM E (m) 475838 Slope (%): 2.3

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

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? (If wetland) ☑ 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, ruts in WL.

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 4/2						Sandy Loam	
20 - 25	7.5YR 4/4						Sandy 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

- ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 5
- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	5	
4							
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	2	YES
2							
3							
4							
5							
6							
					TOTAL %	2	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
3	PARAnove	*Parathelypteris noveboracensis*	New York Fern	S5	UPL	10	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	40	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	25	YES
2	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	25	YES
3	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 60

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.5	32	4.7	17

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.28	Non-Hydrophtic Vegetation
Dominance Test	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022

Wetland Evaluator(s): Ian Bryson

Plot ID: **NR-WL-082u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52614557 Long (DD) -63.30937104 Elevation (m): 290

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041448 UTM E (m) 475841 Slope (%): 2.1

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

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? (If wetland) ☐ 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 - 6	10YR 4/2						Sandy Loam	
6 - 35	7.5YR 3/3						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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	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	10	YES
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	YES
3							
4							
5							
6							
					TOTAL %	20	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	20	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	40	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Leaf litter					50	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	50	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.33	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-083w**

Applicant/Owner: Nova Scotia Power | Sample Date: 0 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): 0

Plot Coordinates: Lat (DD) 45.52632657 Long (DD) -63.31189504 Elevation (m): 280

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041469 UTM E (m) 475644 Slope (%): 6.0

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

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

Hydric Soil Present? ☑ Yes ☐ No | WESP-AC functional assessment completed? (If wetland) ☑ Yes ☐ No

Wetland Hydrology Present? ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☑ 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	CORNseri	*Cornus sericea*	Red Osier Dogwood	S5	FACW	2	
2	PICEmari	*Picea mariana*	Black Spruce	S5	FACW	25	YES
3	RUBUalle	*Rubus allegheniensis*	Alleghaney Blackberry	S5	FACU	2	
4	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	1	
5							
6							
					TOTAL %	30	

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	SOLIcana	*Solidago canadensis*	Canada Goldenrod	S4S5	FAC	10	
3	FRAGvirg	*Fragaria virginiana*	Wild Strawberry	S5	FAC	2	
4	JUNCeffu	*Juncus effusus*	Soft Rush	S5	FACW	2	
5	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	5	
6	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	5	
7							
8							
9							
10							
11							
12							
					TOTAL %	84	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
13.1	25	5	13

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.19	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-083u**

Applicant/Owner: Nova Scotia Power | Sample Date: 0 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): 0

Plot Coordinates: Lat (DD) 45.52657219 Long (DD) -63.31220972 Elevation (m): 280

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041496 UTM E (m) 475620 Slope (%): 5.3

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

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? (If wetland) ☐ 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	
8 - 16	7.5YR 6/2						Sandy Loam	
16 - 30	7.5YR 2.5/3						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. Indicate depths as appropriate)

- ☐ 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	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	30	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
5							
6							
					TOTAL %	70	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	SOLIcana	*Solidago canadensis*	Canada Goldenrod	S4S5	FAC	5	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	1	
3	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	0.1	
4	ANAPmarg	*Anaphalis margaritacea*	Pearly Everlasting	S5	UPL	1	
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	7.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.02	Non-Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-084w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.52510099 Long (DD) -63.29130598 Elevation (m): 229

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041326 UTM E (m) 477251 Slope (%): 3.3

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

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? (If wetland) ☑ 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

Stilted trees.

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	

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. Indicate depths as appropriate)

- ☑ 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	60	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	
4							
5							
6							
					TOTAL %	80	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	0.1	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	40	YES
4	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
5							
6							
					TOTAL %	50.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	25	YES
2	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	0.1	
3	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	10	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	35.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-084u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52502557 Long (DD) -63.29134404 Elevation (m): 229

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041318 UTM E (m) 477248 Slope (%): 6.0

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

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? (If wetland) ☐ 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 - 30	5YR 3/4							

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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	70	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3							
4							
5							
6							
					TOTAL %	100	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	50	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	15	YES
2	POLYacro	*Polystichum acrostichoides*	Christmas Fern	S5	FACU	10	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	25	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.06	Non-Hydrophtic Vegetation
Dominance Test	120%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022

Wetland Evaluator(s): Ian Bryson & Lisa MacDonald

Plot ID: **NR-WL-085w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.52544466 Long (DD) -63.29886111 Elevation (m): 260

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041367 UTM E (m) 476661 Slope (%): 7.2

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

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? (If wetland) ☑ 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 - 43	-						Organic	
43 - 53	2.5YR 2.5/1						Loam	
53 +								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. Indicate depths as appropriate)

- ☑ 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	40	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	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	10	YES
2	ALNUinca	*Alnus incana*	Speckled Alder	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	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	5	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	YES
3	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
4	GALIpalu	*Galium palustre*	Common Marsh Bedstraw	S5	FACW+	5	YES
5	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	0.1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	20.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.7	29	5.66	15

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.89	Hydrophtic Vegetation
Dominance Test	140%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022

Wetland Evaluator(s): Ian Bryson & Lisa MacDonald

Plot ID: **NR-WL-085u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52551457 Long (DD) -63.29907404 Elevation (m): 261

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041375 UTM E (m) 476645 Slope (%): 6.8

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

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? (If wetland) ☐ 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)
8 - 0	-						Organic	
0 - 8	5YR 3/2						Silt Loam	
8 - 13	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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	
4	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
5	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
6							
					TOTAL %	45	

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	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
2	ATHYfili	*Athyrium filix-femina*	Common Lady Fern	S5	FAC	10	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	15	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	125%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-086w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Lisa MacDonald

Plot Coordinates: Lat (DD) 45.52317057 Long (DD) -63.30382004 Elevation (m): 261

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041116 UTM E (m) 476273 Slope (%): 5.3

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

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? (If wetland) ☑ 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)
8 - 0	-						Organic	
0 - 10	7.5YR 3/2						Silt Loam	
10 - 13	7.5YR 2.5/1						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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 15
- ☐ High Water Table (A2) Depth (cm):
- ☑ Saturation (A3) Depth (cm):2.5
- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	YES
4							
5							
6							
					TOTAL %	20	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ALNUinca	*Alnus incana*	Speckled Alder	S5	FACW	40	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
3	SALIdisc	*Salix discolor*	Pussy Willow	S5	FAC	2	
4							
5							
6							
					TOTAL %	52	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	40	YES
2	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	20	YES
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	10	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	5	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	2	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	77	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	30	YES
2	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	30	YES
3	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-	10	
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	70	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.03	Hydrophtic Vegetation
Dominance Test	233%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-086u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Ian Bryson & Lisa MacDonald

Plot Coordinates: Lat (DD) 45.52318257 Long (DD) -63.30400604 Elevation (m): 261

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041117 UTM E (m) 476259 Slope (%): 5.4

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

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? (If wetland) ☐ 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)
10 - 0	-						Organic	
0 - 3	5Y 6/1						Silt	
3 - 30	10YR 3/1						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. Indicate depths as appropriate)

- ☐ 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							
4							
5							
6							
					TOTAL %	60	

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, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	#DIV/0!	#DIV/0!

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-087w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.52474457 Long (DD) -63.30760804 Elevation (m): 280

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041292 UTM E (m) 475978 Slope (%): 4.2

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

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? (If wetland) ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 10
- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	75	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
4							
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	50	YES
2	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	2	
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	2	
5	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
6	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	20	YES
7							
8							
9							
10							
11							
12							
					TOTAL %	74.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAgirg	*Sphagnum girgensohnii*	Green Peat Moss	S5	-	60	YES
2	SPHApalu	*Sphagnum palustre*	Blunt-leaved Peat Moss	S5	-	10	
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 70

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.3	28	4.6	13

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.75	Hydrophtic Vegetation
Dominance Test	160%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 07 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-087u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52477557 Long (DD) -63.30776104 Elevation (m): 281

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041295 UTM E (m) 475966 Slope (%): 13.2

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

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? (If wetland) ☐ 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 - 10	5YR 3/2						Silt Loam	
10 - 15	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. Indicate depths as appropriate)

- ☐ 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		
2	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU		
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC		
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	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	20	YES
3	PARAnove	*Parathelypteris noveboracensi*	New York Fern	S5	UPL	10	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	50	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	3.40	Non-Hydrophtic Vegetation
Dominance Test	67%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-088w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot Coordinates: Lat (DD) 45.52494937 Long (DD) -63.28956125 Elevation (m): 222

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041309 UTM E (m) 477388 Slope (%): 3.6

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

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? (If wetland) ☑ 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): 10
- ☑ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
4							
5							
6							
					TOTAL %	75	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUalle	*Betula alleghaniensis*	Yellow Birch	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	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	40	YES
2	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	
3	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	2	
4	CHRYamer	*Chrysosplenium americanum*	American Golden Saxifrage	S5	OBL	2	
5	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	10	
6	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	
7	MATTstru	*Matteuccia struthiopteris*	Ostrich Fern	S5	FACW	20	YES
8							
9							
10							
11							
12							
					TOTAL %	94	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)			
T (°C)	Cond (µs/cm)	pH	TDS (ppm)
3.8	55	6.3	26

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.40	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 06 2022

Wetland Evaluator(s): Ian Bryson & Nathan Hill

Plot ID: **NR-WL-088u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52505965 Long (DD) -63.28952305 Elevation (m): 222

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041321 UTM E (m) 477391 Slope (%): 6.2

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

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? (If wetland) ☐ 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 - 7	7.5YR 3/2						Sandy Loam	
7 - 35	7.5YR 3/4						Sandy Loam	
35 +								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. Indicate depths as appropriate)

- ☐ 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	ACERsacc	*Acer saccharum*	Sugar Maple	S4S5	FACU	10	
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
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	0.1	YES
2							
3							
4							
5							
6							
					TOTAL %	0.1	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	20	YES
2	CAREarct	*Carex arctata*	Black Sedge	S5	FAC	0.1	
3	DRYOcart	*Dryopteris carthusiana*	Spinulose Wood Fern	S5	FAC	5	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	25.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-089w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.524953 Long (DD) -63.301167 Elevation (m): 264

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041313 UTM E (m) 476481 Slope (%): 5.2

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

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? (If wetland) ☑ 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	Peat

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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): <15
- ☑ High Water Table (A2) Depth (cm): 10
- ☑ 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	
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	15	YES
4	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	2	
5							
6							
					TOTAL %	27	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	5	YES
2	ILEXvert	*Ilex verticillata*	Common Winterberry	S5	FACW+	5	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
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	2	
2	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
3	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
4	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	10	YES
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	12.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	100	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	100	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.2	27	6.1	18

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.00	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-089u**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.52492768 Long (DD) -63.30104462 Elevation (m): 264

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041310 UTM E (m) 476491 Slope (%): 4.8

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

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? (If wetland) ☐ 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	Peat
8 - 10	5YR 4/1						Loam	
10 - 18	7.5YR 2.5/2						Sandy Loam	
18 - 29	2.5YR 2.5/3						Sandy Loam	Rocky 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. Indicate depths as appropriate)

- ☐ 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	25	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	5	
3							
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	15	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
3	RUBUidae	*Rubus idaeus*	Red Raspberry	S5	FAC	10	YES
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	MAIAcana	*Maianthemum canadense*	Wild Lily-of-The-Valley	S5	FAC	1	YES
2	LINNbore	*Linnaea borealis*	Twinflower	S5	FAC	1	YES
3	CARExspec	*Carex sp.*	Unidentified Carex	-	Undetermined	0.1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	2.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	>80	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	120%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-091w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine & Lisa MacDonald | Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.52392757 Long (DD) -63.30770604 Elevation (m): 278

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041201 UTM E (m) 475970 Slope (%): 4.5

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

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? (If wetland) ☑ 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)
13 - 0	-						Organic	
0 - 5	10YR 3/1						Silt Loam	
5 - 10	10YR 4/1						Silty Clay Loam	
10 +								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. Indicate depths as appropriate)

- ☑ 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	30	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	10	
4							
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	0.1	
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	5.1	

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	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	20	YES
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	0.1	
4	GEUMriva	*Geum rivale*	Water Avens	S5	OBL	0.1	
5	ONOCsens	*Onoclea sensibilis*	Sensitive Fern	S5	FACW	10	
6	SOLIcana	*Solidago canadensis*	Canada Goldenrod	S4S5	FAC	0.1	
7	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	0.1	
8							
9							
10							
11							
12							
					TOTAL %	50.4	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	70	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	70	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
8.7	43	5.06	21

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.57	Hydrophtic Vegetation
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 03 2022

Wetland Evaluator(s): Ian Bryson, Carrie Jardine & Lisa MacDonald

Plot ID: **NR-WL-091u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.524029 Long (DD) -63.307331 Elevation (m): 278

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041212 UTM E (m) 475999 Slope (%): 5.8

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

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? (If wetland) ☐ 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 - 45	2.5YR 2.5/1							
45 - 55	10YR 4/6			80				

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. Indicate depths as appropriate)

- ☐ 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	50	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	100	

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	20	YES
3							
4							
5							
6							
					TOTAL %	40	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	5	YES
2	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	15	YES
3	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	5	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	25	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	Moss					35	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	35	

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
Dominance Test	160%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-092w**

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot Coordinates: Lat (DD) 45.522743 Long (DD) -63.300239 Elevation (m): 255

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041067 UTM E (m) 476553 Slope (%): 4.0

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

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? (If wetland) ☑ 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	Peat, 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. Indicate depths as appropriate)

- ☑ Surface Water (A1) Depth (cm): <10
- ☑ High Water Table (A2) Depth (cm): 7
- ☑ 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	YES
2	ACERrubr	*Acer rubrum*	Red Maple	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	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	10	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	15	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4							
5							
6							
					TOTAL %	30	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	GLYCmeli	*Glyceria melicaria*	Slender Manna Grass	S4	OBL	40	YES
2	SCIRcype	*Scirpus cyperinus*	Common Woolly Bulrush	S5	FACW	2	
3	SOLIrugo	*Solidago rugosa*	Rough-stemmed Goldenrod	S5	FAC	0.1	
4	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	1	
5	DOELumbe	*Doellingeria umbellata*	Hairy Flat-top White Aster	S5	FAC	1	
6	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	15	YES
7							
8							
9							
10							
11							
12							
					TOTAL %	59.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	>75	
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)
4.8	30	6.06	11

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.17	Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: DEC 05 2022

Wetland Evaluator(s): Beth Cameron & Nathan Hill

Plot ID: **NR-WL-092u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.52270859 Long (DD) -63.30051962 Elevation (m): 255

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5041063 UTM E (m) 476531 Slope (%): 5.2

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

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? (If wetland) ☐ 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	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. Indicate depths as appropriate)

- ☐ 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							
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	5	
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	10	YES
3	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
4	BETUpopu	*Betula populifolia*	Gray Birch	S5	FAC	10	YES
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	
2	PTERaqui	*Pteridium aquilinum*	Bracken Fern	S5	FACU	25	YES
3	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC	10	YES
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	37	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-099w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot Coordinates: Lat (DD) 45.50991058 Long (DD) -63.31833404 Elevation (m): 277

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039647 UTM E (m) 475134 Slope (%): 4.4

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

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? (If wetland) ☑ 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 site

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 - 15	7.5YR 3/4							

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

- ☐ 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. Indicate depths as appropriate)

- ☑ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	YES
2	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	5	YES
3							
4							
5							
6							
					TOTAL %	15	

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	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	30	YES
3	CAREintu	*Carex intumescens*	Bladder Sedge	S5	FAC	0.1	
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	70.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	2.29	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-099u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot Coordinates: Lat (DD) 45.51000505 Long (DD) -63.31822559 Elevation (m): 278

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039657 UTM E (m) 475142 Slope (%): 4.3

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

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? (If wetland) ☐ 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	5YR 5/3							
8 - 12							Organic	
12 - 28	7.5YR 3/1							

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. Indicate depths as appropriate)

- ☐ 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	40	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	40	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	5	
4							
5							
6							
					TOTAL %	85	

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	5	YES
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	10	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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	75%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-100w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot Coordinates: Lat (DD) 45.50929658 Long (DD) -63.31792104 Elevation (m): 279

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039578 UTM E (m) 475166 Slope (%): 4.7

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

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? (If wetland) ☑ 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)
	-						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. Indicate depths as appropriate)

- ☑ 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	30	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	30	YES
3	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
4							
5							
6							
					TOTAL %	80	

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	CARESpec	*Carex sp.*	Unidentified Carex	-	Undetermined	10	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	70	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-		
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-100u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot Coordinates: Lat (DD) 45.50936358 Long (DD) -63.31777504 Elevation (m): 279

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039586 UTM E (m) 475177 Slope (%): 3.7

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

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? (If wetland) ☐ 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	
	7.5YR 4/3							

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. Indicate depths as appropriate)

- ☐ 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	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	10	
2	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	45	YES
3							
4							
5							
6							
					TOTAL %	55	

VEGETATION - Herbaceous Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	DRYOinte	*Dryopteris intermedia*	Evergreen Wood Fern	S5	FAC		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	4.64	Non-Hydrophtic Vegetation
Dominance Test	0%	Non-Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-101w**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☑ Wetland ☐ Upland

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot Coordinates: Lat (DD) 45.50677358 Long (DD) -63.31321304 Elevation (m): 286

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039297 UTM E (m) 475533 Slope (%): 1.3

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

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? (If wetland) ☑ 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 - 90	-						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. Indicate depths as appropriate)

- ☐ 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	5	
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	25	YES
3							
4							
5							
6							
					TOTAL %	30	

VEGETATION - Shrub Stratum

#	MCODE	Species	Common Name	S-RANK	Wet Ind.	% Cover	Dominant Sp.
1	ACERrubr	*Acer rubrum*	Red Maple	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	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	75	YES
2	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	5	
3	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	5	
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
5	ERIOspec	*Eriophorum sp.*	Unidentified Cottongrass	-	Undetermined	0.1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	85.2	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	0	

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.92	Hydrophtic Vegetation
Dominance Test	100%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-101u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Nathan Hill & Dave MacDonald | Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.50675458 Long (DD) -63.31340804 Elevation (m): 286

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039295 UTM E (m) 475517 Slope (%): 3.8

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

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

Hydric Soil Present? ☐ Yes ☑ No | WESP-AC functional assessment completed? (If wetland) ☐ Yes ☐ No

Wetland Hydrology Present? ☐ 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 - 18	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. Indicate depths as appropriate)

- ☐ 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	40	YES
3							
4							
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	20	YES
2	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	15	YES
3	FAGUgran	*Fagus grandifolia*	American Beech	S3S4	UPL	10	
4	ACERrubr	*Acer rubrum*	Red Maple	S5	FAC	15	YES
5							
6							
					TOTAL %	60	

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							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	HYLOsple	*Hylocomium splendens*	Stairstep Moss	S5	-		
2	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 0

Water Quality (Optional)

T (°C)	Cond (µs/cm)	pH	TDS (ppm)

Tests for Hydrophtic Vegetation: Auto-calculated

Test/Index	Value	Interpretation
Prevalence Index	3.17	Non-Hydrophtic Vegetation
Dominance Test	150%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot ID: **NR-WL-103w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.50653158 Long (DD) -63.30827904 Elevation (m): 283

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039268 UTM E (m) 475918 Slope (%): 2.4

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

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? (If wetland) ☐ 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. Indicate depths as appropriate)

- ☐ 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	PICErube	*Picea rubens*	Red Spruce	S5	FAC	10	YES
3							
4							
5							
6							
					TOTAL %	20	

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	20	YES
2	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	2	
3	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	2	
4	COPTtrif	*Coptis trifolia*	Goldthread	S5	FAC	0.1	
5	MONOunif	*Monotropa uniflora*	Convulsion-Root	S5	FACU	0.1	
6	CALAcana	*Calamagrostis canadensis*	Bluejoint Reed Grass	S5	FACW	0.1	
7							
8							
9							
10							
11							
12							
					TOTAL %	24.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1							
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester | Plot ID: **NR-WL-103u**

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022 | Plot Type: ☐ Wetland ☑ Upland

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot Coordinates: Lat (DD) 45.50652458 Long (DD) -63.30843304 Elevation (m): 284

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039268 UTM E (m) 475906 Slope (%): 4.7

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

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? (If wetland) ☐ 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 - 7	-						Organic	
7 - 19	7.5YR 3/4							

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. Indicate depths as appropriate)

- ☐ 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	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3							
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	20	YES
2	ABIEbals	*Abies balsamea*	Balsam Fir	S5	FAC	20	YES
3							
4							
5							
6							
					TOTAL %	40	

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							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	0.1	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-		
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	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
Dominance Test	167%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot ID: **NR-WL-104w**

Plot Type: ☑ Wetland ☐ Upland

Plot Coordinates: Lat (DD) 45.50673058 Long (DD) -63.30997704 Elevation (m): 283

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039291 UTM E (m) 475785 Slope (%): 2.0

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

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? (If wetland) ☑ 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)
20 +	-						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. Indicate depths as appropriate)

- ☐ 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	PICErube	*Picea rubens*	Red Spruce	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	CORNcana	*Cornus canadensis*	Bunchberry	S5	FAC	0.1	
2	GAULhisp	*Gaultheria hispidula*	Creeping Snowberry	S5	FAC	0.1	
3	OSMUcinn	*Osmundastrum cinnamomeum*	Cinnamon Fern	S5	FAC	20	YES
4	CAREtris	*Carex trisperma*	Three-seeded Sedge	S5	OBL	20	YES
5	ERIOvirg	*Eriophorum virginicum*	Tawny Cottongrass	S5	OBL	0.1	
6							
7							
8							
9							
10							
11							
12							
					TOTAL %	40.3	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	SPHAspec	*Sphagnum sp.*	A Peat Moss	-	-	80	YES
2							
3							
4							

* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.

TOTAL % 80

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

Tests for Hydrophtic Vegetation: Auto-calculated		
Test/Index	Value	Interpretation
Prevalence Index	2.27	Hydrophtic Vegetation
Dominance Test	133%	Hydrophtic Vegetation

WETLAND DELINEATION DATA FORM - NOVA SCOTIA

Project/Site: Nuttby Ridge Wind | Municip/County: Colchester

Applicant/Owner: Nova Scotia Power | Sample Date: NOV 30 2022

Wetland Evaluator(s): Nathan Hill & Dave MacDonald

Plot ID: **NR-WL-104u**

Plot Type: ☐ Wetland ☑ Upland

Plot Coordinates: Lat (DD) 45.50685558 Long (DD) -63.30995204 Elevation (m): 283

Datum: ☐ WGS84 ☑ NAD83 UTM N (m): 5039305 UTM E (m) 475787 Slope (%): 3.5

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

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? (If wetland) ☐ 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)
2 - 19	7.5YR 3/4							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

- ☐ 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. Indicate depths as appropriate)

- ☐ 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							
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	20	YES
2	PICErube	*Picea rubens*	Red Spruce	S5	FAC	20	YES
3	BETUalle	*Betula alleghaniensis*	Yellow Birch	S5	FAC	0.1	
4							
5							
6							
					TOTAL %	40.1	

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							
10							
11							
12							
					TOTAL %	5	

VEGETATION - Mosses and Ground Lichens, or Other* Ground Cover (OPTIONAL)

1	PLEUschr	*Pleurozium schreberi*	Red-stemmed Feather Moss	S5	-	80	YES
2							
3							
4							
* e.g. any cover that may be excluding vegetation growth - leaf/needle litter, bare soil/muck/peat, rock, water, etc.					**TOTAL %**	80	

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
Dominance Test	167%	Hydrophtic Vegetation

APPENDIX D

WESP-AC Results (Omitted in Current Draft)

NR-WL-001

Broadleaf High Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Nov 30, 2022

Assessment Area Size: 0.5 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.18	Moderate	1.86	Moderate	4.55	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	1.21	Lower	2.56	Moderate	3.06	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	3.40	Moderate	4.49	Moderate	5.38	4.76
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.91	Moderate	0.91	Lower	4.18	2.60
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.91	Moderate	5.00	Moderate	5.73	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	4.27	Moderate	2.05	Lower	5.61	2.53
Pollinator Habitat (POL)	8.30	Higher	3.33	Higher	6.58	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.26	Higher		3.86
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.00	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.23	Higher	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.74	Moderate	0.55	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.81	Higher	4.35	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.06	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.71	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.95	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.67	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-002

Broadleaf High Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Nov 30, 2022

Assessment Area Size: 0.12 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.89	Moderate	0.51	Lower	4.29	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.81	Lower	2.94	Higher	2.74	1.44
Phosphorus Retention (PR)	2.82	Lower	5.39	Moderate	4.48	4.49
Nitrate Removal & Retention (NR)	3.42	Moderate	4.99	Moderate	5.39	5.24
Carbon Stock (CS)	6.61	Moderate			7.49	
Organic Nutrient Export (OE)	7.03	Moderate			2.76	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.12	Moderate	0.90	Lower	4.32	2.59
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.88	Moderate	5.00	Moderate	5.71	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	4.27	Moderate	2.06	Lower	5.61	2.53
Pollinator Habitat (POL)	8.39	Higher	3.33	Higher	6.65	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.13	Moderate		3.82
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.01	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.50	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.87	Moderate	0.54	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.87	Higher	4.35	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.63	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.10	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.01	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.90	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-003

Broadleaf High Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Nov 30, 2022

Assessment Area Size: 0.12 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.89	Moderate	0.51	Lower	4.29	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.81	Lower	2.94	Higher	2.74	1.44
Phosphorus Retention (PR)	2.82	Lower	5.39	Moderate	4.48	4.49
Nitrate Removal & Retention (NR)	3.42	Moderate	4.99	Moderate	5.39	5.24
Carbon Stock (CS)	6.61	Moderate			7.49	
Organic Nutrient Export (OE)	7.03	Moderate			2.76	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.12	Moderate	0.90	Lower	4.32	2.59
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.88	Moderate	5.00	Moderate	5.71	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	4.27	Moderate	2.06	Lower	5.61	2.53
Pollinator Habitat (POL)	8.39	Higher	3.33	Higher	6.65	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.13	Moderate		3.82
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.01	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.50	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.87	Moderate	0.54	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.87	Higher	4.35	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.63	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.10	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.01	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.90	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-004

Mixed High Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Nov 30, 2022

Assessment Area Size: 0.51 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.04	Moderate	0.51	Lower	4.43	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.16	Lower	2.56	Moderate	3.02	1.25
Phosphorus Retention (PR)	3.85	Moderate	5.25	Moderate	5.28	4.38
Nitrate Removal & Retention (NR)	3.55	Moderate	4.49	Moderate	5.48	4.76
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.96	Moderate	0.93	Lower	4.21	2.62
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.01	Moderate	5.00	Moderate	5.81	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.99	Moderate	2.07	Lower	5.50	2.54
Pollinator Habitat (POL)	8.34	Higher	3.33	Higher	6.61	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			7.70	Higher		4.31
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.99	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.21	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.78	Moderate	0.56	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.82	Higher	4.36	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.98	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.37	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.99	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.69	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-005

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Nov 30, 2022

Assessment Area Size: 0.16 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.30	Moderate	0.51	Lower	4.65	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.94	Higher	2.87	1.44
Phosphorus Retention (PR)	3.85	Moderate	5.39	Moderate	5.28	4.49
Nitrate Removal & Retention (NR)	3.55	Moderate	3.48	Lower	5.48	3.81
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.75	Moderate	0.92	Lower	4.08	2.61
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.97	Moderate	5.00	Moderate	5.78	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.89	Moderate	2.05	Lower	5.46	2.53
Pollinator Habitat (POL)	8.22	Higher	3.33	Higher	6.52	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			8.27	Higher		4.48
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.96	Higher	4.67	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.25	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.65	Moderate	0.55	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.72	Higher	4.35	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.82	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.38	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.91	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.26	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-006

Hardwood Treed Swamp (Young-Immature)

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Nov 30, 2022

Assessment Area Size: 0.07 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.30	Moderate	1.86	Moderate	4.65	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	2.94	Higher	2.69	1.44
Phosphorus Retention (PR)	2.70	Lower	5.39	Moderate	4.39	4.49
Nitrate Removal & Retention (NR)	3.27	Moderate	4.99	Moderate	5.29	5.24
Carbon Stock (CS)	6.82	Higher			7.63	
Organic Nutrient Export (OE)	6.93	Moderate			2.72	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.68	Lower	1.42	Lower	3.36	3.02
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.92	Moderate	10.00	Higher	5.74	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.76	Moderate	2.04	Lower	5.41	2.52
Pollinator Habitat (POL)	8.18	Higher	3.33	Higher	6.48	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			8.34	Higher		4.51
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.10	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.50	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.01	Lower	0.85	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.67	Higher	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.08	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.69	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.86	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	47.10	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-007

Hardwood Treed Swamp (Young-Immature)

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Dec 01, 2022

Assessment Area Size: 0.51 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.30	Moderate	1.86	Moderate	4.65	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.94	Higher	2.87	1.44
Phosphorus Retention (PR)	3.42	Moderate	5.39	Moderate	4.94	4.49
Nitrate Removal & Retention (NR)	3.39	Moderate	4.99	Moderate	5.37	5.24
Carbon Stock (CS)	6.82	Higher			7.63	
Organic Nutrient Export (OE)	7.39	Higher			2.90	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.68	Lower	1.42	Lower	3.36	3.02
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.92	Moderate	10.00	Higher	5.74	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.76	Moderate	2.04	Lower	5.41	2.52
Pollinator Habitat (POL)	8.18	Higher	3.33	Higher	6.48	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			8.32	Higher		4.50
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.24	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.81	Higher	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.01	Lower	0.85	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.67	Higher	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.74	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.12	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.86	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	47.10	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-008

Broadleaf High Shrub Swamp (Young-Immature)

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Dec 01, 2022

Assessment Area Size: 0.18 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	7.87	Higher	10.00	Higher	7.08	10.00
Stream Flow & Temperature Support (SFTS)	5.04	Moderate	1.86	Moderate	4.43	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.46	Lower	3.31	Higher	2.46	1.62
Phosphorus Retention (PR)	2.21	Lower	5.54	Moderate	4.02	4.61
Nitrate Removal & Retention (NR)	3.32	Moderate	5.49	Moderate	5.32	5.71
Carbon Stock (CS)	6.42	Moderate			7.36	
Organic Nutrient Export (OE)	6.69	Moderate			2.63	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.57	Lower	1.17	Lower	3.29	2.81
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.59	Moderate	10.00	Higher	5.47	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.45	Moderate	1.98	Lower	6.08	2.46
Pollinator Habitat (POL)	8.73	Higher	3.33	Higher	6.92	3.33
Public Use & Recognition (PU)			1.55	Lower		1.51
Wetland Sensitivity (Sens)			4.07	Moderate		3.17
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	7.87	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.76	Moderate	5.16	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.30	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.94	Lower	0.70	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.19	Higher	7.19	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	78.72	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.56	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.41	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.66	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.70	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-009

Mixed Low Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Dec 01, 2022

Assessment Area Size: 0.03 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	3.84	Moderate	2.04	Moderate	3.37	1.25
Sediment & Toxicant Retention & Stabilisation (SR)	1.09	Lower	2.94	Higher	2.96	1.44
Phosphorus Retention (PR)	3.78	Moderate	5.39	Moderate	5.22	4.49
Nitrate Removal & Retention (NR)	2.92	Moderate	4.99	Moderate	5.04	5.24
Carbon Stock (CS)	6.69	Higher			7.54	
Organic Nutrient Export (OE)	8.00	Higher			3.14	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	0.95	Lower	1.01	Lower	2.88	2.68
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	5.98	Moderate	10.00	Higher	4.96	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.63	Moderate	1.93	Lower	6.16	2.42
Pollinator Habitat (POL)	8.93	Higher	3.33	Higher	7.08	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.01	Moderate		3.15
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.16	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.97	Higher	1.53	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.57	Lower	0.61	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.26	Higher	7.19	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.35	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	9.11	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.34	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.15	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-010

Mixed High Shrub Swamp

Assessed by: Ian Bryson & Nathan Hill (CBCL Limited) **Assessment Date:** Dec 06, 2022

Assessment Area Size: 0.12 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	0.64	Lower	4.69	0.39
Sediment & Toxicant Retention & Stabilisation (SR)	0.86	Lower	2.94	Higher	2.78	1.44
Phosphorus Retention (PR)	3.06	Moderate	5.39	Moderate	4.67	4.49
Nitrate Removal & Retention (NR)	3.53	Moderate	4.99	Moderate	5.47	5.24
Carbon Stock (CS)	6.53	Moderate			7.43	
Organic Nutrient Export (OE)	6.98	Moderate			2.74	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.44	Lower	0.68	Lower	3.87	2.42
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.69	Moderate	5.00	Moderate	5.55	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.68	Moderate	1.99	Lower	6.18	2.47
Pollinator Habitat (POL)	8.72	Higher	3.33	Higher	6.91	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.27	Moderate		3.23
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.01	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.55	Moderate	0.48	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.46	Lower	0.41	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.22	Higher	4.76	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.63	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.65	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.60	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.41	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-011

Broadleaf Low Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Dec 01, 2022

Assessment Area Size: 0.06 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.00	Moderate	0.60	Lower	4.39	0.37
Sediment & Toxicant Retention & Stabilisation (SR)	1.56	Lower	2.56	Moderate	3.33	1.25
Phosphorus Retention (PR)	4.75	Moderate	5.25	Moderate	5.96	4.38
Nitrate Removal & Retention (NR)	3.91	Moderate	2.98	Lower	5.73	3.33
Carbon Stock (CS)	6.45	Moderate			7.38	
Organic Nutrient Export (OE)	7.83	Higher			3.08	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.52	Lower	1.10	Lower	3.26	2.75
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.32	Moderate	10.00	Higher	5.24	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.85	Moderate	1.95	Lower	6.24	2.43
Pollinator Habitat (POL)	8.73	Higher	3.33	Higher	6.92	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			3.63	Moderate		3.04
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.31	Moderate	4.42	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.05	Higher	0.45	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.91	Lower	0.66	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.21	Higher	7.19	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.47	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.73	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.60	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.80	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-012

Mixed High Shrub Swamp

Assessed by: Ian Bryson (CBCL Limited) **Assessment Date:** Dec 01, 2022

Assessment Area Size: 0.31 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.36	Moderate	3.22	Moderate	4.70	1.98
Sediment & Toxicant Retention & Stabilisation (SR)	0.86	Lower	2.94	Higher	2.78	1.44
Phosphorus Retention (PR)	3.49	Moderate	5.39	Moderate	5.00	4.49
Nitrate Removal & Retention (NR)	3.24	Moderate	4.99	Moderate	5.27	5.24
Carbon Stock (CS)	7.73	Higher			8.22	
Organic Nutrient Export (OE)	7.72	Higher			3.03	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.36	Lower	1.34	Lower	3.15	2.95
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.59	Moderate	10.00	Higher	5.47	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.65	Moderate	1.99	Lower	5.37	2.47
Pollinator Habitat (POL)	8.04	Moderate	3.33	Higher	6.38	3.33
Public Use & Recognition (PU)			1.55	Lower		1.51
Wetland Sensitivity (Sens)			5.39	Moderate		3.59
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.78	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.04	Higher	2.41	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.82	Lower	0.80	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.53	Moderate	7.05	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.42	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	14.57	Moderate
HABITAT SUPERGROUP - AQUATIC HABITAT	0.66	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	46.09	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-013

Mixed High Shrub Swamp

Assessed by: Ian Bryson & Nathan Hill (CBCL Limited) **Assessment Date:** Dec 06, 2022

Assessment Area Size: 1.34 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.45	Higher	10.00	Higher	7.50	10.00
Stream Flow & Temperature Support (SFTS)	5.22	Moderate	2.07	Moderate	4.58	1.27
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	3.31	Higher	2.69	1.62
Phosphorus Retention (PR)	2.31	Lower	5.54	Moderate	4.09	4.61
Nitrate Removal & Retention (NR)	3.56	Moderate	5.49	Moderate	5.49	5.71
Carbon Stock (CS)	6.00	Moderate			7.09	
Organic Nutrient Export (OE)	6.87	Moderate			2.70	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.99	Lower	1.31	Lower	3.57	2.93
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.16	Moderate	10.00	Higher	5.94	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	6.11	Moderate	2.07	Lower	6.35	2.54
Pollinator Habitat (POL)	8.96	Higher	3.33	Higher	7.11	3.33
Public Use & Recognition (PU)			1.55	Lower		1.51
Wetland Sensitivity (Sens)			4.47	Moderate		3.30
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.45	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.58	Moderate	5.16	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.45	Moderate	1.55	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.19	Lower	0.79	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.49	Higher	7.20	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	84.53	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.60	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.47	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.94	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.93	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-014

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Meaghan Tearle; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 01, 2022 **Assessment Area Size:** 0.21 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.35	Moderate	0.55	Lower	3.82	0.34
Sediment & Toxicant Retention & Stabilisation (SR)	0.62	Lower	2.94	Higher	2.59	1.44
Phosphorus Retention (PR)	2.77	Lower	5.39	Moderate	4.44	4.49
Nitrate Removal & Retention (NR)	2.87	Moderate	4.99	Moderate	5.00	5.24
Carbon Stock (CS)	7.73	Higher			8.22	
Organic Nutrient Export (OE)	7.72	Higher			3.03	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.02	Lower	0.68	Lower	3.59	2.41
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.69	Moderate	5.00	Moderate	5.55	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.89	Moderate	2.01	Lower	6.26	2.49
Pollinator Habitat (POL)	8.97	Higher	3.33	Higher	7.11	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			5.20	Moderate		3.53
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.61	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.87	Higher	0.41	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.21	Lower	0.41	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.40	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.60	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.42	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.49	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.28	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-015

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Meaghan Tearle; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 01, 2022 **Assessment Area Size:** 1.12 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	10.00	Higher	8.61	10.00
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	1.86	Moderate	3.65	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.56	Moderate	2.87	1.25
Phosphorus Retention (PR)	2.07	Lower	5.25	Moderate	3.91	4.38
Nitrate Removal & Retention (NR)	3.48	Moderate	4.49	Moderate	5.43	4.76
Carbon Stock (CS)	4.99	Moderate			6.43	
Organic Nutrient Export (OE)	6.23	Moderate			2.45	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.41	Moderate	0.49	Lower	4.51	2.26
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.94	Moderate	3.33	Lower	5.75	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.16	Higher	2.06	Lower	6.36	2.54
Pollinator Habitat (POL)	9.15	Higher	3.33	Higher	7.26	3.33
Public Use & Recognition (PU)			1.55	Lower		1.51
Wetland Sensitivity (Sens)			6.60	Higher		3.96
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.93	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.85	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.04	Moderate	0.29	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.58	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	100.00	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.38	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	6.77	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.60	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.07	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-016

Mixed High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 0.39 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.19	Higher	10.00	Higher	8.75	4.76
Stream Flow & Temperature Support (SFTS)	3.96	Moderate	0.51	Lower	3.47	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.20	Lower	0.00	Lower	3.05	0.00
Phosphorus Retention (PR)	3.18	Moderate	4.50	Moderate	4.76	3.75
Nitrate Removal & Retention (NR)	3.31	Moderate	3.16	Lower	5.31	3.50
Carbon Stock (CS)	6.71	Higher			7.56	
Organic Nutrient Export (OE)	7.33	Higher			2.88	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.65	Moderate	0.72	Lower	4.01	2.45
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.85	Moderate	5.00	Moderate	5.68	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.96	Moderate	2.05	Lower	6.29	2.52
Pollinator Habitat (POL)	9.09	Higher	3.33	Higher	7.21	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			3.69	Moderate		3.05
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.19	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.16	Higher	3.53	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.54	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.59	Moderate	0.43	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.51	Higher	4.77	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	101.93	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.18	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.11	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.69	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.82	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-017

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 06, 2022 **Assessment Area Size:** 0.86 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.23	Higher	10.00	Higher	8.06	10.00
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	1.86	Moderate	3.65	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	2.94	Higher	2.69	1.44
Phosphorus Retention (PR)	1.83	Lower	5.39	Moderate	3.72	4.49
Nitrate Removal & Retention (NR)	3.27	Moderate	3.48	Lower	5.29	3.81
Carbon Stock (CS)	5.04	Moderate			6.47	
Organic Nutrient Export (OE)	6.27	Moderate			2.46	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.72	Moderate	0.65	Lower	4.72	2.39
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.91	Moderate	3.33	Lower	5.73	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	4.62	Moderate	2.09	Lower	5.75	2.56
Pollinator Habitat (POL)	8.64	Higher	3.33	Higher	6.85	3.33
Public Use & Recognition (PU)			1.55	Lower		1.51
Wetland Sensitivity (Sens)			7.96	Higher		4.39
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.23	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.88	Moderate	4.67	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.87	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.23	Moderate	0.39	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.07	Higher	3.04	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	92.26	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.10	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	6.81	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.87	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	21.48	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-018

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Nathan Hill & Meaghan Tearle; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 01, 2022 **Assessment Area Size:** 0.29 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	0.51	Lower	3.65	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	2.94	Higher	2.69	1.44
Phosphorus Retention (PR)	2.70	Lower	5.39	Moderate	4.39	4.49
Nitrate Removal & Retention (NR)	3.21	Moderate	4.99	Moderate	5.24	5.24
Carbon Stock (CS)	6.56	Moderate			7.46	
Organic Nutrient Export (OE)	7.23	Higher			2.84	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.29	Moderate	0.63	Lower	4.43	2.37
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.82	Moderate	3.33	Lower	5.65	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	4.36	Moderate	2.07	Lower	5.65	2.54
Pollinator Habitat (POL)	8.52	Higher	3.33	Higher	6.75	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			8.01	Higher		4.40
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.93	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.51	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.97	Moderate	0.38	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.95	Higher	3.04	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.24	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.10	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.74	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	21.09	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-019

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 05, 2022 **Assessment Area Size:** 1.00 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	8.19	Higher	7.64	3.63
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	2.54	Moderate	4.69	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	0.96	Lower	2.94	Higher	2.86	1.44
Phosphorus Retention (PR)	3.85	Moderate	5.39	Moderate	5.28	4.49
Nitrate Removal & Retention (NR)	3.54	Moderate	4.99	Moderate	5.48	5.24
Carbon Stock (CS)	7.71	Higher			8.20	
Organic Nutrient Export (OE)	7.95	Higher			3.12	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.27	Moderate	0.80	Lower	4.42	2.51
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.16	Moderate	5.00	Moderate	5.94	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.14	Higher	2.07	Lower	6.36	2.54
Pollinator Habitat (POL)	8.97	Higher	3.33	Higher	7.11	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			6.91	Higher		4.06
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	8.19	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.86	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.19	Higher	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.96	Moderate	0.48	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.50	Higher	4.77	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	70.83	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.81	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.79	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.94	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.78	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-020

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 1.89 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.14	Moderate	0.00	Lower	4.51	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	1.21	Lower	1.82	Moderate	3.06	0.89
Phosphorus Retention (PR)	4.09	Moderate	4.92	Moderate	5.46	4.10
Nitrate Removal & Retention (NR)	3.77	Moderate	3.33	Lower	5.64	3.67
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.33	Lower	1.46	Lower	3.80	3.05
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.08	Moderate	10.00	Higher	5.87	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	4.24	Moderate	2.08	Lower	5.60	2.55
Pollinator Habitat (POL)	8.34	Higher	3.33	Higher	6.61	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.79	Moderate		3.40
Wetland Stressors (STR)			3.31	Lower		3.46
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.05	Higher	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.23	Higher	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.40	Lower	0.88	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.85	Higher	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.02	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.23	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	48.42	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-021

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 0.91 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.03	Moderate	0.00	Lower	3.54	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	2.27	Moderate	2.69	1.11
Phosphorus Retention (PR)	2.70	Lower	5.08	Moderate	4.39	4.24
Nitrate Removal & Retention (NR)	3.28	Moderate	4.04	Moderate	5.29	4.33
Carbon Stock (CS)	6.71	Higher			7.56	
Organic Nutrient Export (OE)	7.33	Higher			2.88	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.76	Lower	1.46	Lower	3.42	3.05
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.07	Moderate	10.00	Higher	5.86	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	4.42	Moderate	2.10	Lower	5.67	2.57
Pollinator Habitat (POL)	8.57	Higher	3.33	Higher	6.80	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.69	Higher		3.99
Wetland Stressors (STR)			3.31	Lower		3.46
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.04	Higher	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.56	Higher	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.06	Lower	0.88	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.02	Higher	7.07	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.36	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.93	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	49.62	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-022

Mixed Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 0.41 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	3.96	Moderate	2.54	Moderate	3.47	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.56	Moderate	2.87	1.25
Phosphorus Retention (PR)	2.94	Moderate	5.25	Moderate	4.57	4.38
Nitrate Removal & Retention (NR)	3.54	Moderate	4.49	Moderate	5.48	4.76
Carbon Stock (CS)	6.31	Moderate			7.30	
Organic Nutrient Export (OE)	7.07	Moderate			2.78	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.26	Lower	1.17	Lower	3.08	2.82
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.61	Moderate	10.00	Higher	5.49	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.94	Moderate	2.01	Lower	6.28	2.49
Pollinator Habitat (POL)	8.98	Higher	3.33	Higher	7.12	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.13	Moderate		3.19
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.88	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.37	Moderate	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.76	Lower	0.70	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.41	Higher	7.20	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.80	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	10.24	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.53	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.31	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-023

Mixed Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 0.38 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	3.82	Moderate	0.51	Lower	3.35	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.56	Moderate	2.87	1.25
Phosphorus Retention (PR)	2.94	Moderate	5.25	Moderate	4.57	4.38
Nitrate Removal & Retention (NR)	3.35	Moderate	4.49	Moderate	5.34	4.76
Carbon Stock (CS)	6.56	Moderate			7.46	
Organic Nutrient Export (OE)	7.23	Higher			2.84	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.42	Lower	1.07	Lower	3.19	2.73
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.20	Moderate	10.00	Higher	5.14	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	6.08	Moderate	1.97	Lower	6.33	2.45
Pollinator Habitat (POL)	9.07	Higher	3.33	Higher	7.19	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.69	Moderate		3.37
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.01	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.46	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.85	Lower	0.64	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.43	Higher	7.19	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.42	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.08	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.54	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.45	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-024

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 0.32 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	4.67	Moderate	0.51	Lower	4.10	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.16	Lower	2.56	Moderate	3.02	1.25
Phosphorus Retention (PR)	3.85	Moderate	5.25	Moderate	5.28	4.38
Nitrate Removal & Retention (NR)	3.52	Moderate	4.49	Moderate	5.46	4.76
Carbon Stock (CS)	7.78	Higher			8.25	
Organic Nutrient Export (OE)	8.00	Higher			3.14	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.59	Lower	1.09	Lower	3.97	2.74
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.27	Moderate	10.00	Higher	5.20	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.97	Moderate	1.97	Lower	6.29	2.45
Pollinator Habitat (POL)	8.93	Higher	3.33	Higher	7.08	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			3.89	Moderate		3.12
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.93	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.11	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.55	Lower	0.65	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.34	Higher	7.19	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.71	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.33	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.01	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.78	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-026

Broadleaf High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nob 21, 2022 **Assessment Area Size:** 0.37 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.03	Moderate	0.51	Lower	3.54	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.94	Higher	2.87	1.44
Phosphorus Retention (PR)	2.70	Lower	5.39	Moderate	4.39	4.49
Nitrate Removal & Retention (NR)	3.77	Moderate	4.99	Moderate	5.64	5.24
Carbon Stock (CS)	7.17	Higher			7.85	
Organic Nutrient Export (OE)	7.61	Higher			2.99	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.33	Lower	0.76	Lower	3.80	2.48
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.34	Moderate	5.00	Moderate	5.25	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.64	Moderate	1.98	Lower	5.36	2.46
Pollinator Habitat (POL)	8.21	Higher	3.33	Higher	6.51	3.33
Public Use & Recognition (PU)			2.61	Moderate		2.16
Wetland Sensitivity (Sens)			6.84	Higher		4.04
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.41	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.75	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.40	Lower	0.46	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.61	Higher	4.34	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	26.59	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.19	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.64	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.71	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-028

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 02, 2022 **Assessment Area Size:** 0.56 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	0.51	Lower	3.65	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.56	Moderate	2.87	1.25
Phosphorus Retention (PR)	2.94	Moderate	5.25	Moderate	4.57	4.38
Nitrate Removal & Retention (NR)	3.46	Moderate	4.49	Moderate	5.42	4.76
Carbon Stock (CS)	6.63	Moderate			7.50	
Organic Nutrient Export (OE)	7.28	Higher			2.86	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.18	Lower	1.20	Lower	3.03	2.84
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.71	Moderate	10.00	Higher	5.56	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.66	Moderate	2.01	Lower	6.17	2.49
Pollinator Habitat (POL)	8.93	Higher	3.33	Higher	7.08	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			7.99	Higher		4.40
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.07	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.54	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.71	Lower	0.72	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.35	Higher	7.20	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.69	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.11	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.51	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	52.93	Moderate
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-029

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 02, 2022 **Assessment Area Size:** 0.12 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.33	Moderate	2.54	Moderate	3.80	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	0.62	Lower	2.94	Higher	2.59	1.44
Phosphorus Retention (PR)	2.33	Lower	5.39	Moderate	4.11	4.49
Nitrate Removal & Retention (NR)	3.35	Moderate	4.99	Moderate	5.34	5.24
Carbon Stock (CS)	6.45	Moderate			7.38	
Organic Nutrient Export (OE)	6.93	Moderate			2.72	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.26	Lower	1.32	Lower	3.08	2.94
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.53	Moderate	10.00	Higher	5.41	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.44	Moderate	2.00	Lower	5.28	2.48
Pollinator Habitat (POL)	8.25	Higher	3.33	Higher	6.54	3.33
Public Use & Recognition (PU)			1.65	Lower		1.57
Wetland Sensitivity (Sens)			9.54	Higher		4.88
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.82	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.34	Moderate	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.76	Lower	0.79	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.63	Higher	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.68	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	10.18	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.60	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	46.76	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-030

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 02, 2022 **Assessment Area Size:** 0.2 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.24	Moderate	0.00	Lower	4.60	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	0.93	Lower	2.27	Moderate	2.83	1.11
Phosphorus Retention (PR)	3.18	Moderate	5.08	Moderate	4.76	4.24
Nitrate Removal & Retention (NR)	3.69	Moderate	4.04	Moderate	5.58	4.33
Carbon Stock (CS)	6.42	Moderate			7.36	
Organic Nutrient Export (OE)	7.14	Moderate			2.81	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.76	Lower	1.32	Lower	3.42	2.93
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.52	Moderate	10.00	Higher	5.41	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.55	Moderate	1.99	Lower	5.33	2.47
Pollinator Habitat (POL)	8.09	Moderate	3.33	Higher	6.42	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			7.41	Higher		4.22
Wetland Stressors (STR)			3.37	Lower		3.49
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.99	Moderate	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.63	Moderate	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.06	Lower	0.79	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.54	Moderate	7.05	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.14	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.84	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	46.16	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-031

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 02, 2022 **Assessment Area Size:** 0.07 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	6.71	Moderate	10.00	Higher	6.25	10.00
Stream Flow & Temperature Support (SFTS)	4.33	Moderate	2.54	Moderate	3.80	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	0.39	Lower	3.31	Higher	2.41	1.62
Phosphorus Retention (PR)	1.66	Lower	5.54	Moderate	3.59	4.61
Nitrate Removal & Retention (NR)	3.22	Moderate	5.49	Moderate	5.25	5.71
Carbon Stock (CS)	4.61	Moderate			6.19	
Organic Nutrient Export (OE)	5.81	Moderate			2.28	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.18	Lower	1.31	Lower	3.03	2.93
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.50	Moderate	10.00	Higher	5.39	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.44	Moderate	2.00	Lower	5.28	2.48
Pollinator Habitat (POL)	8.22	Higher	3.33	Higher	6.52	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			8.70	Higher		4.62
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	6.71	Moderate	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.54	Moderate	5.16	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.60	Moderate	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.71	Lower	0.79	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.61	Higher	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	67.12	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.27	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.76	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.56	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	46.63	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-032

Bog

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 02, 2022 **Assessment Area Size:** 2.63 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.22	Moderate	1.86	Moderate	4.58	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	1.21	Lower	2.56	Moderate	3.06	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	4.19	Moderate	4.49	Moderate	5.93	4.76
Carbon Stock (CS)	7.92	Higher			8.34	
Organic Nutrient Export (OE)	8.09	Higher			3.18	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.77	Moderate	1.30	Lower	4.09	2.92
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.12	Moderate	10.00	Higher	5.90	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	6.18	Higher	10.00	Higher	6.37	10.00
Pollinator Habitat (POL)	8.99	Higher	3.33	Higher	7.12	3.33
Public Use & Recognition (PU)			1.66	Lower		1.58
Wetland Sensitivity (Sens)			5.37	Moderate		3.58
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.14	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.26	Higher	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.66	Moderate	0.78	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.51	Higher	8.19	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.68	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.75	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.30	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	61.50	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-033

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Meaghan Tearle; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 29, 2022 **Assessment Area Size:** 0.74 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	9.00	Higher	8.19	3.99
Stream Flow & Temperature Support (SFTS)	5.22	Moderate	0.51	Lower	4.58	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.20	Lower	2.56	Moderate	3.05	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	4.16	Moderate	4.49	Moderate	5.91	4.76
Carbon Stock (CS)	7.73	Higher			8.21	
Organic Nutrient Export (OE)	7.96	Higher			3.13	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.57	Moderate	0.52	Lower	5.28	2.29
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.07	Moderate	3.33	Lower	5.86	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.94	Higher	2.08	Lower	6.68	2.55
Pollinator Habitat (POL)	9.16	Higher	3.33	Higher	7.27	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.40	Higher		3.90
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	9.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.01	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.18	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.74	Moderate	0.31	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.71	Higher	3.18	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	84.80	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.09	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.35	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.86	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.48	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-034

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 02, 2022 **Assessment Area Size:** 0.11 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	9.26	Higher	8.19	4.11
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	0.00	Lower	4.69	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	1.56	Lower	1.82	Moderate	3.33	0.89
Phosphorus Retention (PR)	4.75	Moderate	4.92	Moderate	5.96	4.10
Nitrate Removal & Retention (NR)	4.17	Moderate	3.33	Lower	5.91	3.67
Carbon Stock (CS)	6.53	Moderate			7.43	
Organic Nutrient Export (OE)	7.88	Higher			3.10	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.55	Lower	1.20	Lower	3.28	2.84
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.72	Moderate	10.00	Higher	5.57	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.55	Moderate	1.99	Lower	6.12	2.47
Pollinator Habitat (POL)	8.68	Higher	3.33	Higher	6.88	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			5.12	Moderate		3.50
Wetland Stressors (STR)			3.37	Lower		3.49
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	9.26	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.39	Moderate	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.15	Higher	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.93	Lower	0.72	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.18	Higher	7.19	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	87.25	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.29	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.67	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.68	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-036

Mixed High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 16, 2022 **Assessment Area Size:** 0.16 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.23	Higher	10.00	Higher	8.06	10.00
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	2.54	Moderate	4.69	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	1.33	Lower	2.94	Higher	3.15	1.44
Phosphorus Retention (PR)	3.64	Moderate	5.39	Moderate	5.11	4.49
Nitrate Removal & Retention (NR)	4.22	Moderate	4.99	Moderate	5.95	5.24
Carbon Stock (CS)	4.77	Moderate			6.29	
Organic Nutrient Export (OE)	6.67	Moderate			2.62	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.99	Lower	1.41	Lower	3.57	3.01
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.86	Moderate	10.00	Higher	5.69	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	4.03	Moderate	2.04	Lower	5.52	2.52
Pollinator Habitat (POL)	8.27	Higher	3.33	Higher	6.56	3.33
Public Use & Recognition (PU)			1.75	Lower		1.63
Wetland Sensitivity (Sens)			6.93	Higher		4.07
Wetland Stressors (STR)			4.59	Moderate		4.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.23	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.13	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.34	Moderate	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.19	Lower	0.84	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.76	Higher	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	92.26	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	20.31	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	10.17	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.01	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	47.71	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-037

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Meaghan Tearle; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 0.34 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.91	Higher	8.19	3.95
Stream Flow & Temperature Support (SFTS)	3.96	Moderate	0.51	Lower	3.47	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.96	Lower	2.56	Moderate	2.86	1.25
Phosphorus Retention (PR)	2.94	Moderate	5.25	Moderate	4.57	4.38
Nitrate Removal & Retention (NR)	3.62	Moderate	4.49	Moderate	5.53	4.76
Carbon Stock (CS)	6.77	Higher			7.59	
Organic Nutrient Export (OE)	7.36	Higher			2.89	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.14	Moderate	0.50	Lower	5.00	2.26
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.96	Moderate	3.33	Lower	5.78	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.68	Higher	2.08	Lower	6.57	2.56
Pollinator Habitat (POL)	9.33	Higher	3.33	Higher	7.40	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.95	Moderate		3.45
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.91	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.17	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.57	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.48	Moderate	0.30	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.76	Higher	3.18	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	83.95	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.16	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.12	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.74	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.66	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-038

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 12, 2022 **Assessment Area Size:** 0.67 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.87	Higher	8.19	3.93
Stream Flow & Temperature Support (SFTS)	5.22	Moderate	0.51	Lower	4.58	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.55	Lower	2.56	Moderate	3.33	1.25
Phosphorus Retention (PR)	5.18	Moderate	5.25	Moderate	6.30	4.38
Nitrate Removal & Retention (NR)	4.14	Moderate	4.49	Moderate	5.90	4.76
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.81	Higher			3.46	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.56	Moderate	0.58	Lower	5.28	2.34
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.31	Moderate	3.33	Lower	6.06	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.85	Higher	2.11	Lower	6.64	2.58
Pollinator Habitat (POL)	9.21	Higher	3.33	Higher	7.30	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			5.10	Moderate		3.50
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.87	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.28	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.74	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.73	Moderate	0.35	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.75	Higher	3.18	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	83.59	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.33	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.57	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.96	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.66	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-039

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 29, 2022 **Assessment Area Size:** 0.74 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	9.28	Higher	8.19	4.12
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	0.00	Lower	4.69	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	1.56	Lower	1.82	Moderate	3.33	0.89
Phosphorus Retention (PR)	4.75	Moderate	4.92	Moderate	5.96	4.10
Nitrate Removal & Retention (NR)	4.10	Moderate	3.33	Lower	5.87	3.67
Carbon Stock (CS)	6.77	Higher			7.59	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.86	Lower	1.30	Lower	3.49	2.92
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.11	Moderate	10.00	Higher	5.90	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.76	Moderate	2.05	Lower	6.21	2.53
Pollinator Habitat (POL)	8.85	Higher	3.33	Higher	7.01	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			7.26	Higher		4.17
Wetland Stressors (STR)			3.37	Lower		3.49
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	9.28	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.53	Higher	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.26	Higher	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.12	Lower	0.78	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.37	Higher	7.20	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	87.45	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.88	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.87	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.03	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-040

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Meaghan Tearle; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 29, 2022 **Assessment Area Size:** 1.2 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	8.81	Higher	7.64	3.91
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	2.54	Moderate	4.69	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	0.96	Lower	2.94	Higher	2.86	1.44
Phosphorus Retention (PR)	3.85	Moderate	5.39	Moderate	5.28	4.49
Nitrate Removal & Retention (NR)	3.90	Moderate	4.99	Moderate	5.73	5.24
Carbon Stock (CS)	7.52	Higher			8.08	
Organic Nutrient Export (OE)	7.83	Higher			3.08	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.24	Moderate	0.47	Lower	5.07	2.24
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.86	Moderate	3.33	Lower	5.69	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.68	Higher	2.04	Lower	6.57	2.52
Pollinator Habitat (POL)	9.05	Higher	3.33	Higher	7.18	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.49	Moderate		3.30
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	8.81	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.79	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.11	Higher	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.55	Moderate	0.28	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.58	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	76.19	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.46	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.64	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.72	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	24.04	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-041

Mixed High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 04, 2022 **Assessment Area Size:** 0.15 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	7.49	Higher	8.68	Higher	6.81	3.85
Stream Flow & Temperature Support (SFTS)	5.04	Moderate	1.86	Moderate	4.43	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	1.16	Lower	2.94	Higher	3.02	1.44
Phosphorus Retention (PR)	2.74	Lower	5.39	Moderate	4.43	4.49
Nitrate Removal & Retention (NR)	4.09	Moderate	4.99	Moderate	5.86	5.24
Carbon Stock (CS)	5.59	Moderate			6.83	
Organic Nutrient Export (OE)	6.62	Moderate			2.60	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.85	Lower	1.18	Lower	3.47	2.82
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.63	Moderate	10.00	Higher	5.50	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	4.92	Moderate	1.97	Lower	5.87	2.46
Pollinator Habitat (POL)	8.64	Higher	3.33	Higher	6.85	3.33
Public Use & Recognition (PU)			2.73	Moderate		2.23
Wetland Sensitivity (Sens)			6.84	Higher		4.04
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	7.49	Higher	8.68	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.49	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.25	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.11	Lower	0.71	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.07	Higher	7.19	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	65.00	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.10	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.34	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.78	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	50.86	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-042

Broadleaf High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 16, 2022 **Assessment Area Size:** 0.3 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.23	Higher	10.00	Higher	8.06	10.00
Stream Flow & Temperature Support (SFTS)	5.26	Moderate	2.03	Moderate	4.62	1.25
Sediment & Toxicant Retention & Stabilisation (SR)	1.21	Lower	2.27	Moderate	3.06	1.11
Phosphorus Retention (PR)	2.55	Lower	5.08	Moderate	4.28	4.24
Nitrate Removal & Retention (NR)	4.61	Moderate	4.04	Moderate	6.23	4.33
Carbon Stock (CS)	5.36	Moderate			6.67	
Organic Nutrient Export (OE)	6.47	Moderate			2.54	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.86	Lower	1.38	Lower	3.49	2.98
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.75	Moderate	10.00	Higher	5.60	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.23	Moderate	2.00	Lower	5.20	2.48
Pollinator Habitat (POL)	8.00	Moderate	3.33	Higher	6.34	3.33
Public Use & Recognition (PU)			2.61	Moderate		2.16
Wetland Sensitivity (Sens)			7.17	Higher		4.14
Wetland Stressors (STR)			3.12	Lower		3.34
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.23	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.40	Moderate	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.19	Moderate	1.52	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.12	Lower	0.83	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.48	Moderate	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	92.26	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	19.52	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.91	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.93	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	45.69	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-043

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Beth Cameron & Colin McVarish; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 16, 2022 **Assessment Area Size:** 0.16 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.77	Higher	10.00	Higher	9.17	5.32
Stream Flow & Temperature Support (SFTS)	5.30	Moderate	2.03	Moderate	4.65	1.25
Sediment & Toxicant Retention & Stabilisation (SR)	1.44	Lower	0.00	Lower	3.24	0.00
Phosphorus Retention (PR)	2.31	Lower	4.50	Moderate	4.09	3.75
Nitrate Removal & Retention (NR)	4.53	Moderate	2.11	Lower	6.17	2.50
Carbon Stock (CS)	5.41	Moderate			6.71	
Organic Nutrient Export (OE)	6.10	Moderate			2.40	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.86	Lower	1.38	Lower	3.49	2.98
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.75	Moderate	10.00	Higher	5.60	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.23	Moderate	2.00	Lower	5.20	2.48
Pollinator Habitat (POL)	8.00	Moderate	3.33	Higher	6.34	3.33
Public Use & Recognition (PU)			2.61	Moderate		2.16
Wetland Sensitivity (Sens)			7.84	Higher		4.35
Wetland Stressors (STR)			3.12	Lower		3.34
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.77	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.42	Moderate	3.35	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.95	Moderate	1.52	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.12	Lower	0.83	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.48	Moderate	7.06	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	107.74	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	14.81	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.54	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.93	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	45.69	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-044

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 02, 2022 **Assessment Area Size:** 2.48 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	7.49	Higher	8.60	Higher	6.81	3.81
Stream Flow & Temperature Support (SFTS)	5.18	Moderate	1.86	Moderate	4.55	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.94	Higher	2.87	1.44
Phosphorus Retention (PR)	2.99	Moderate	5.39	Moderate	4.61	4.49
Nitrate Removal & Retention (NR)	3.70	Moderate	4.99	Moderate	5.59	5.24
Carbon Stock (CS)	6.00	Moderate			7.09	
Organic Nutrient Export (OE)	6.87	Moderate			2.70	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.99	Lower	1.26	Lower	3.57	2.89
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.95	Moderate	10.00	Higher	5.76	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.81	Moderate	2.03	Lower	6.23	2.51
Pollinator Habitat (POL)	8.86	Higher	3.33	Higher	7.03	3.33
Public Use & Recognition (PU)			1.96	Lower		1.76
Wetland Sensitivity (Sens)			4.66	Moderate		3.36
Wetland Stressors (STR)			4.69	Moderate		4.29
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	7.49	Higher	8.60	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.71	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.45	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.19	Lower	0.76	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.36	Higher	7.20	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	64.34	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.14	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.61	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.90	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.00	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-045

Marsh

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 02, 2022 **Assessment Area Size:** 0.23 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.64	Higher	8.19	3.83
Stream Flow & Temperature Support (SFTS)	3.68	Moderate	0.51	Lower	3.23	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	2.56	Moderate	2.69	1.25
Phosphorus Retention (PR)	2.21	Lower	5.25	Moderate	4.02	4.38
Nitrate Removal & Retention (NR)	3.26	Moderate	4.49	Moderate	5.28	4.76
Carbon Stock (CS)	6.69	Higher			7.54	
Organic Nutrient Export (OE)	6.86	Moderate			2.69	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.20	Lower	1.11	Lower	3.71	2.76
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.37	Moderate	10.00	Higher	5.28	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.97	Moderate	1.99	Lower	6.29	2.47
Pollinator Habitat (POL)	9.04	Higher	3.33	Higher	7.17	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			6.78	Higher		4.02
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.64	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.96	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.18	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.32	Lower	0.67	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.42	Higher	7.19	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	81.41	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.18	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.97	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.88	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	53.36	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-047

Mixed Low Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 29, 2022 **Assessment Area Size:** 0.01 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	8.62	Higher	7.64	3.82
Stream Flow & Temperature Support (SFTS)	4.98	Moderate	2.54	Moderate	4.38	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	1.32	Lower	2.94	Higher	3.14	1.44
Phosphorus Retention (PR)	4.50	Moderate	5.39	Moderate	5.78	4.49
Nitrate Removal & Retention (NR)	3.83	Moderate	4.99	Moderate	5.68	5.24
Carbon Stock (CS)	7.52	Higher			8.08	
Organic Nutrient Export (OE)	8.57	Higher			3.37	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.65	Moderate	0.56	Lower	4.01	2.32
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.23	Moderate	5.00	Moderate	5.17	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.76	Moderate	1.94	Lower	6.21	2.43
Pollinator Habitat (POL)	8.76	Higher	3.33	Higher	6.94	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			5.19	Moderate		3.52
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	8.62	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.91	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.55	Higher	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.59	Moderate	0.34	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.20	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	74.57	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	29.05	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.47	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.54	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.25	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-048

Mixed Low Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Lydia Giffin; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 04, 2022 **Assessment Area Size:** 0.43 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.03	Higher	10.00	Higher	7.92	4.94
Stream Flow & Temperature Support (SFTS)	3.68	Moderate	2.54	Moderate	3.23	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	1.33	Lower	0.00	Lower	3.15	0.00
Phosphorus Retention (PR)	2.38	Lower	4.50	Moderate	4.15	3.75
Nitrate Removal & Retention (NR)	3.95	Moderate	3.16	Lower	5.77	3.50
Carbon Stock (CS)	3.56	Moderate			5.50	
Organic Nutrient Export (OE)	5.17	Moderate			2.03	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.20	Lower	1.05	Lower	3.71	2.71
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.12	Moderate	10.00	Higher	5.07	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.45	Moderate	1.94	Lower	6.08	2.42
Pollinator Habitat (POL)	8.86	Higher	3.33	Higher	7.03	3.33
Public Use & Recognition (PU)			2.61	Moderate		2.16
Wetland Sensitivity (Sens)			3.65	Moderate		3.04
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.03	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.38	Moderate	3.53	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.06	Moderate	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.32	Lower	0.63	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.21	Higher	7.19	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	90.33	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	11.92	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.73	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.83	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.84	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-049

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 02, 2022 **Assessment Area Size:** 0.29 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.17	Higher	8.19	3.62
Stream Flow & Temperature Support (SFTS)	4.91	Moderate	0.51	Lower	4.31	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.21	Lower	2.56	Moderate	3.06	1.25
Phosphorus Retention (PR)	3.66	Moderate	5.25	Moderate	5.13	4.38
Nitrate Removal & Retention (NR)	3.99	Moderate	4.49	Moderate	5.79	4.76
Carbon Stock (CS)	7.63	Higher			8.15	
Organic Nutrient Export (OE)	7.91	Higher			3.11	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.29	Moderate	0.62	Lower	4.43	2.37
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.46	Moderate	5.00	Moderate	5.35	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.24	Higher	10.00	Higher	6.40	10.00
Pollinator Habitat (POL)	8.90	Higher	3.33	Higher	7.05	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			3.63	Moderate		3.04
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.17	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.88	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.09	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.97	Moderate	0.37	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.38	Higher	7.99	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	76.96	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.47	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.34	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.74	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	58.90	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-050

Mixed Low Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 08, 2022 **Assessment Area Size:** 0.44 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	7.69	Higher	7.64	3.41
Stream Flow & Temperature Support (SFTS)	5.14	Moderate	2.11	Moderate	4.51	1.30
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.94	Higher	2.87	1.44
Phosphorus Retention (PR)	3.42	Moderate	5.39	Moderate	4.94	4.49
Nitrate Removal & Retention (NR)	3.56	Moderate	4.99	Moderate	5.49	5.24
Carbon Stock (CS)	7.78	Higher			8.25	
Organic Nutrient Export (OE)	8.00	Higher			3.14	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.87	Moderate	0.66	Lower	4.15	2.40
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.61	Moderate	5.00	Moderate	5.48	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.86	Moderate	1.99	Lower	6.25	2.47
Pollinator Habitat (POL)	8.80	Higher	3.33	Higher	6.98	3.33
Public Use & Recognition (PU)			1.96	Lower		1.76
Wetland Sensitivity (Sens)			4.00	Moderate		3.15
Wetland Stressors (STR)			4.69	Moderate		4.29
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	7.69	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.86	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.19	Higher	1.58	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.72	Moderate	0.40	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.29	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	66.50	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.79	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	9.81	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.68	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.70	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-051

Mixed High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 05, 2022 **Assessment Area Size:** 0.06 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	8.19	Higher	7.64	3.63
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	2.54	Moderate	4.69	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	0.73	Lower	2.94	Higher	2.68	1.44
Phosphorus Retention (PR)	3.13	Moderate	5.39	Moderate	4.72	4.49
Nitrate Removal & Retention (NR)	3.47	Moderate	4.99	Moderate	5.43	5.24
Carbon Stock (CS)	7.65	Higher			8.17	
Organic Nutrient Export (OE)	7.42	Higher			2.92	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.75	Moderate	0.69	Lower	4.08	2.42
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.71	Moderate	5.00	Moderate	5.56	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.37	Moderate	1.99	Lower	6.05	2.47
Pollinator Habitat (POL)	8.71	Higher	3.33	Higher	6.91	3.33
Public Use & Recognition (PU)			1.65	Lower		1.57
Wetland Sensitivity (Sens)			5.93	Moderate		3.75
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	8.19	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.70	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.84	Higher	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.65	Moderate	0.41	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.18	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	70.83	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.02	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.12	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.68	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.21	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-052

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 28, 2022 **Assessment Area Size:** 0.61 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	7.96	Higher	7.64	3.53
Stream Flow & Temperature Support (SFTS)	5.40	Moderate	0.62	Lower	4.74	0.38
Sediment & Toxicant Retention & Stabilisation (SR)	1.20	Lower	2.94	Higher	3.05	1.44
Phosphorus Retention (PR)	3.42	Moderate	5.39	Moderate	4.94	4.49
Nitrate Removal & Retention (NR)	4.12	Moderate	4.99	Moderate	5.88	5.24
Carbon Stock (CS)	7.35	Higher			7.97	
Organic Nutrient Export (OE)	7.73	Higher			3.04	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.82	Moderate	0.44	Lower	4.79	2.22
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.76	Moderate	3.33	Lower	5.61	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.42	Moderate	2.00	Lower	6.07	2.48
Pollinator Habitat (POL)	8.73	Higher	3.33	Higher	6.92	3.33
Public Use & Recognition (PU)			2.61	Moderate		2.16
Wetland Sensitivity (Sens)			7.14	Higher		4.13
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	7.96	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.69	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.05	Higher	0.46	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.29	Moderate	0.27	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.21	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	68.85	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.96	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.81	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.61	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	22.82	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-054

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 29, 2022 **Assessment Area Size:** 1.99 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.23	Higher	8.58	Higher	8.06	3.80
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	1.86	Moderate	4.69	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	0.96	Lower	2.94	Higher	2.86	1.44
Phosphorus Retention (PR)	2.55	Lower	5.39	Moderate	4.28	4.49
Nitrate Removal & Retention (NR)	3.77	Moderate	4.99	Moderate	5.64	5.24
Carbon Stock (CS)	7.81	Higher			8.27	
Organic Nutrient Export (OE)	8.02	Higher			3.15	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.88	Moderate	0.51	Lower	4.82	2.27
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.00	Moderate	3.33	Lower	5.81	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.05	Moderate	2.04	Lower	6.32	2.52
Pollinator Habitat (POL)	8.90	Higher	3.33	Higher	7.06	3.33
Public Use & Recognition (PU)			1.55	Lower		1.51
Wetland Sensitivity (Sens)			4.09	Moderate		3.18
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.23	Higher	8.58	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.79	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.24	Higher	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.33	Moderate	0.30	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.42	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	79.14	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.48	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.71	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.71	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.54	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-056

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 08, 2022 **Assessment Area Size:** 0.64 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	7.62	Higher	7.64	3.38
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	2.83	Moderate	4.69	1.74
Sediment & Toxicant Retention & Stabilisation (SR)	0.97	Lower	2.94	Higher	2.87	1.44
Phosphorus Retention (PR)	2.70	Lower	5.39	Moderate	4.39	4.49
Nitrate Removal & Retention (NR)	3.88	Moderate	4.99	Moderate	5.71	5.24
Carbon Stock (CS)	8.56	Higher			8.76	
Organic Nutrient Export (OE)	7.96	Higher			3.13	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.96	Moderate	0.72	Lower	4.21	2.44
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.83	Moderate	5.00	Moderate	5.66	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.16	Moderate	2.00	Lower	5.97	2.48
Pollinator Habitat (POL)	8.64	Higher	3.33	Higher	6.85	3.33
Public Use & Recognition (PU)			2.78	Moderate		2.26
Wetland Sensitivity (Sens)			6.95	Higher		4.07
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	7.62	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.29	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.20	Higher	2.12	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.78	Moderate	0.43	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.13	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	65.86	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.93	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	13.15	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.76	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	33.96	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-057

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 28, 2022 **Assessment Area Size:** 0.83 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	7.79	Higher	8.19	3.45
Stream Flow & Temperature Support (SFTS)	5.54	Moderate	2.74	Moderate	4.86	1.68
Sediment & Toxicant Retention & Stabilisation (SR)	1.43	Lower	2.56	Moderate	3.23	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	4.04	Moderate	4.49	Moderate	5.82	4.76
Carbon Stock (CS)	8.56	Higher			8.76	
Organic Nutrient Export (OE)	8.49	Higher			3.34	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.96	Moderate	0.70	Lower	4.21	2.43
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.76	Moderate	5.00	Moderate	5.60	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.05	Moderate	1.99	Lower	5.93	2.47
Pollinator Habitat (POL)	8.61	Higher	3.33	Higher	6.83	3.33
Public Use & Recognition (PU)			2.78	Moderate		2.26
Wetland Sensitivity (Sens)			6.68	Higher		3.99
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	7.79	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.54	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.58	Higher	2.05	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.78	Moderate	0.42	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.08	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	73.41	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	30.59	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	13.52	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.74	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	33.74	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-058

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 28, 2022 **Assessment Area Size:** 0.04 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.13	Higher	8.19	3.60
Stream Flow & Temperature Support (SFTS)	4.27	Moderate	0.53	Lower	3.75	0.33
Sediment & Toxicant Retention & Stabilisation (SR)	1.32	Lower	2.56	Moderate	3.14	1.25
Phosphorus Retention (PR)	4.02	Moderate	5.25	Moderate	5.41	4.38
Nitrate Removal & Retention (NR)	3.50	Moderate	4.49	Moderate	5.45	4.76
Carbon Stock (CS)	6.71	Higher			7.56	
Organic Nutrient Export (OE)	8.01	Higher			3.15	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.33	Lower	0.63	Lower	3.80	2.37
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.47	Moderate	5.00	Moderate	5.37	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	4.95	Moderate	1.97	Lower	5.88	2.45
Pollinator Habitat (POL)	8.75	Higher	3.33	Higher	6.94	3.33
Public Use & Recognition (PU)			2.16	Lower		1.88
Wetland Sensitivity (Sens)			7.97	Higher		4.39
Wetland Stressors (STR)			4.74	Moderate		4.32
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.13	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.30	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.05	Higher	0.40	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.40	Lower	0.38	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.12	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	76.56	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.78	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.42	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.53	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	33.91	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-060

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 08, 2022 **Assessment Area Size:** 7.49 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	7.77	Higher	7.64	3.45
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	3.59	Moderate	4.69	2.21
Sediment & Toxicant Retention & Stabilisation (SR)	1.50	Lower	9.09	Higher	3.29	4.44
Phosphorus Retention (PR)	4.50	Moderate	5.58	Moderate	5.78	4.65
Nitrate Removal & Retention (NR)	4.20	Moderate	4.04	Moderate	5.94	4.33
Carbon Stock (CS)	7.71	Higher			8.20	
Organic Nutrient Export (OE)	10.00	Higher			4.78	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.15	Moderate	0.72	Lower	4.34	2.45
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.84	Moderate	10.00	Higher	5.68	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.16	Moderate	2.00	Lower	5.97	2.48
Pollinator Habitat (POL)	8.64	Higher	3.33	Higher	6.85	3.33
Public Use & Recognition (PU)			2.27	Moderate		1.95
Wetland Sensitivity (Sens)			6.82	Higher		4.03
Wetland Stressors (STR)			5.48	Moderate		4.76
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	7.77	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.09	Higher	7.66	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	7.56	Higher	2.70	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.89	Moderate	0.43	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.13	Higher	7.61	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	67.22	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	46.69	High
SUPPORT SUPERGROUP - AQUATIC SUPPORT	20.37	Moderate
HABITAT SUPERGROUP - AQUATIC HABITAT	0.82	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	54.27	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	YES
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is a WSS**

NR-WL-061

Marsh/Fen

Assessed by: Field Assessment: Beth Cameron & Lydia Giffin; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 04, 2022 **Assessment Area Size:** 0.17 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	8.13	Higher	8.61	3.60
Stream Flow & Temperature Support (SFTS)	4.57	Moderate	2.56	Moderate	4.01	1.58
Sediment & Toxicant Retention & Stabilisation (SR)	1.16	Lower	2.56	Moderate	3.02	1.25
Phosphorus Retention (PR)	2.55	Lower	5.25	Moderate	4.28	4.38
Nitrate Removal & Retention (NR)	3.91	Moderate	4.49	Moderate	5.73	4.76
Carbon Stock (CS)	4.07	Moderate			5.83	
Organic Nutrient Export (OE)	5.66	Moderate			2.22	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.90	Moderate	1.06	Lower	4.18	2.72
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.16	Moderate	10.00	Higher	5.11	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	5.45	Moderate	1.94	Lower	6.08	2.42
Pollinator Habitat (POL)	8.76	Higher	3.33	Higher	6.94	3.33
Public Use & Recognition (PU)			2.16	Lower		1.88
Wetland Sensitivity (Sens)			5.02	Moderate		3.47
Wetland Stressors (STR)			4.74	Moderate		4.32
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	8.13	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.50	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.53	Moderate	1.92	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.74	Moderate	0.63	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.15	Higher	7.19	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	81.32	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.34	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	8.71	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.11	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	51.40	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-062

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 02, 2022 **Assessment Area Size:** 2.93 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.00	Moderate	0.51	Lower	3.51	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.74	Lower	2.94	Higher	2.69	1.44
Phosphorus Retention (PR)	2.70	Lower	5.39	Moderate	4.39	4.49
Nitrate Removal & Retention (NR)	3.17	Moderate	4.99	Moderate	5.22	5.24
Carbon Stock (CS)	6.71	Higher			7.56	
Organic Nutrient Export (OE)	7.33	Higher			2.88	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.65	Moderate	0.76	Lower	4.01	2.48
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.99	Moderate	5.00	Moderate	5.80	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.16	Higher	2.07	Lower	6.36	2.54
Pollinator Habitat (POL)	9.15	Higher	3.33	Higher	7.26	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			8.06	Higher		4.42
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.02	Higher	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.55	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.59	Moderate	0.45	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.59	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.69	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.11	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.72	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	36.22	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-063

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Amanda Coldham; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 01, 2022 **Assessment Area Size:** 0.42 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.91	Higher	8.19	3.95
Stream Flow & Temperature Support (SFTS)	5.14	Moderate	0.51	Lower	4.51	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.20	Lower	2.56	Moderate	3.05	1.25
Phosphorus Retention (PR)	3.66	Moderate	5.25	Moderate	5.13	4.38
Nitrate Removal & Retention (NR)	3.83	Moderate	4.49	Moderate	5.68	4.76
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.06	Moderate	0.78	Lower	4.28	2.49
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.07	Moderate	5.00	Moderate	5.86	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.07	Moderate	2.05	Lower	6.33	2.53
Pollinator Habitat (POL)	8.95	Higher	3.33	Higher	7.09	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.15	Moderate		3.20
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.91	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.00	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.23	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.84	Moderate	0.47	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.46	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	83.96	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.05	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.37	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.86	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.60	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-064

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 02, 2022 **Assessment Area Size:** 0.63 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	0.51	Lower	4.69	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	3.56	Moderate	2.98	Lower	5.49	3.33
Carbon Stock (CS)	7.73	Higher			8.22	
Organic Nutrient Export (OE)	7.97	Higher			3.13	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.65	Moderate	0.75	Lower	4.01	2.47
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.95	Moderate	5.00	Moderate	5.76	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.89	Moderate	2.03	Lower	6.26	2.50
Pollinator Habitat (POL)	8.79	Higher	3.33	Higher	6.97	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.91	Moderate		3.44
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.94	Higher	4.42	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.20	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.59	Moderate	0.45	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.33	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	26.26	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.36	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.71	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.93	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-065

Broadleaf Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Beth Cameron; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 02, 2022 **Assessment Area Size:** 0.42 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	3.80	Moderate	0.51	Lower	3.33	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.86	Lower	2.56	Moderate	2.78	1.25
Phosphorus Retention (PR)	2.58	Lower	5.25	Moderate	4.30	4.38
Nitrate Removal & Retention (NR)	3.40	Moderate	2.98	Lower	5.38	3.33
Carbon Stock (CS)	6.63	Moderate			7.50	
Organic Nutrient Export (OE)	7.04	Moderate			2.77	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.72	Moderate	0.57	Lower	4.06	2.33
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.26	Moderate	5.00	Moderate	5.19	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.21	Higher	1.98	Lower	6.38	2.46
Pollinator Habitat (POL)	9.12	Higher	3.33	Higher	7.23	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			5.81	Moderate		3.72
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.00	Moderate	4.42	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.33	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.63	Moderate	0.34	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.48	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.10	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.03	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.56	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.64	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-066

Mixed Low Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Amanda Coldham; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 01, 2022 **Assessment Area Size:** 0.07 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	8.76	Higher	8.61	3.88
Stream Flow & Temperature Support (SFTS)	3.76	Moderate	2.54	Moderate	3.30	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	1.30	Lower	2.56	Moderate	3.13	1.25
Phosphorus Retention (PR)	3.15	Moderate	5.25	Moderate	4.74	4.38
Nitrate Removal & Retention (NR)	3.67	Moderate	4.49	Moderate	5.57	4.76
Carbon Stock (CS)	4.52	Moderate			6.13	
Organic Nutrient Export (OE)	6.50	Moderate			2.55	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.02	Lower	0.57	Lower	3.59	2.33
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.26	Moderate	5.00	Moderate	5.19	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.89	Moderate	1.97	Lower	6.26	2.45
Pollinator Habitat (POL)	9.01	Higher	3.33	Higher	7.15	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			5.15	Moderate		3.51
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	8.76	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.84	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.96	Moderate	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.21	Lower	0.34	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.38	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	87.64	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	17.95	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	9.44	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.42	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.13	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-068

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Amanda Coldham; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 01, 2022 **Assessment Area Size:** 0.42 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.80	Higher	8.19	3.90
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	0.51	Lower	3.65	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.83	Lower	2.56	Moderate	2.76	1.25
Phosphorus Retention (PR)	2.58	Lower	5.25	Moderate	4.30	4.38
Nitrate Removal & Retention (NR)	3.26	Moderate	4.49	Moderate	5.28	4.76
Carbon Stock (CS)	6.63	Moderate			7.50	
Organic Nutrient Export (OE)	7.05	Moderate			2.77	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.78	Moderate	0.71	Lower	4.09	2.44
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.82	Moderate	5.00	Moderate	5.66	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.07	Moderate	2.04	Lower	6.33	2.52
Pollinator Habitat (POL)	9.07	Higher	3.33	Higher	7.19	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.79	Higher		4.02
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.80	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.98	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.39	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.67	Moderate	0.43	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.51	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	82.92	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.27	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.05	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.71	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.80	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-069

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 01, 2022 **Assessment Area Size:** 0.83 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	8.51	Higher	8.19	3.77
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	0.51	Lower	4.69	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	3.61	Moderate	4.49	Moderate	5.52	4.76
Carbon Stock (CS)	7.81	Higher			8.27	
Organic Nutrient Export (OE)	8.01	Higher			3.15	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.63	Moderate	0.73	Lower	4.00	2.45
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.88	Moderate	5.00	Moderate	5.70	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.79	Moderate	2.02	Lower	6.22	2.50
Pollinator Habitat (POL)	8.79	Higher	3.33	Higher	6.97	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.47	Higher		3.92
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	8.51	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.99	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.23	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.58	Moderate	0.44	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.30	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	80.18	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.99	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.37	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.69	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.81	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-070

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 14, 2022 **Assessment Area Size:** 0.08 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.58	Higher	10.00	Higher	9.03	10.00
Stream Flow & Temperature Support (SFTS)	5.26	Moderate	0.00	Lower	4.62	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	1.54	Lower	1.82	Moderate	3.32	0.89
Phosphorus Retention (PR)	3.01	Moderate	4.92	Moderate	4.63	4.10
Nitrate Removal & Retention (NR)	3.72	Moderate	3.33	Lower	5.60	3.67
Carbon Stock (CS)	4.83	Moderate			6.33	
Organic Nutrient Export (OE)	6.71	Moderate			2.64	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.86	Moderate	0.77	Lower	4.15	2.48
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.02	Moderate	5.00	Moderate	5.82	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.79	Moderate	2.04	Lower	6.22	2.51
Pollinator Habitat (POL)	8.83	Higher	3.33	Higher	7.00	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			5.62	Moderate		3.66
Wetland Stressors (STR)			3.31	Lower		3.46
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.58	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.05	Moderate	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.35	Moderate	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.72	Moderate	0.46	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.35	Higher	4.77	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	105.80	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.75	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.79	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.04	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-071

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 14, 2022 **Assessment Area Size:** 0.01 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	10.00	Higher	8.61	10.00
Stream Flow & Temperature Support (SFTS)	5.46	Moderate	0.00	Lower	4.79	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	1.82	Moderate	3.04	0.89
Phosphorus Retention (PR)	2.79	Lower	4.92	Moderate	4.46	4.10
Nitrate Removal & Retention (NR)	3.98	Moderate	3.33	Lower	5.78	3.67
Carbon Stock (CS)	7.89	Higher			8.32	
Organic Nutrient Export (OE)	8.07	Higher			3.17	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.11	Moderate	0.81	Lower	4.31	2.52
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.18	Moderate	5.00	Moderate	5.96	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.89	Moderate	2.06	Lower	6.26	2.54
Pollinator Habitat (POL)	8.88	Higher	3.33	Higher	7.04	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.42	Higher		3.91
Wetland Stressors (STR)			3.31	Lower		3.46
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.92	Higher	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.29	Higher	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.87	Moderate	0.48	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.41	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	100.00	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.50	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.90	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.36	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-072

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 14, 2022 **Assessment Area Size:** 0.17 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.26	Higher	10.00	Higher	7.36	10.00
Stream Flow & Temperature Support (SFTS)	5.42	Moderate	0.00	Lower	4.76	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	0.95	Lower	1.82	Moderate	2.85	0.89
Phosphorus Retention (PR)	2.50	Lower	4.92	Moderate	4.24	4.10
Nitrate Removal & Retention (NR)	3.81	Moderate	3.33	Lower	5.67	3.67
Carbon Stock (CS)	4.78	Moderate			6.30	
Organic Nutrient Export (OE)	5.72	Moderate			2.25	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.90	Moderate	0.50	Lower	4.84	2.27
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.99	Moderate	3.33	Lower	5.80	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.05	Moderate	2.04	Lower	6.32	2.52
Pollinator Habitat (POL)	8.91	Higher	3.33	Higher	7.06	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.64	Higher		3.97
Wetland Stressors (STR)			3.31	Lower		3.46
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.26	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	3.90	Moderate	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	4.72	Moderate	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.34	Moderate	0.30	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.43	Higher	3.17	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	82.59	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	16.12	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.70	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.55	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-073

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 01, 2022 **Assessment Area Size:** 6.43 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.04	Moderate	0.51	Lower	4.43	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.26	Lower	2.56	Moderate	3.09	1.25
Phosphorus Retention (PR)	3.78	Moderate	5.25	Moderate	5.22	4.38
Nitrate Removal & Retention (NR)	3.66	Moderate	4.49	Moderate	5.56	4.76
Carbon Stock (CS)	6.77	Higher			7.59	
Organic Nutrient Export (OE)	7.59	Higher			2.98	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.27	Moderate	0.81	Lower	4.42	2.52
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.18	Moderate	5.00	Moderate	5.95	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.24	Higher	10.00	Higher	6.40	10.00
Pollinator Habitat (POL)	9.09	Higher	3.33	Higher	7.21	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			7.38	Higher		4.21
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.32	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.90	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.96	Moderate	0.48	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.59	Higher	7.99	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.85	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.25	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.95	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	60.60	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-074

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 07, 2022 **Assessment Area Size:** 0.07 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.35	Moderate	1.03	Lower	3.82	0.64
Sediment & Toxicant Retention & Stabilisation (SR)	0.60	Lower	3.31	Higher	2.57	1.62
Phosphorus Retention (PR)	2.33	Lower	5.54	Moderate	4.11	4.61
Nitrate Removal & Retention (NR)	2.84	Moderate	5.36	Moderate	4.99	5.60
Carbon Stock (CS)	6.66	Moderate			7.52	
Organic Nutrient Export (OE)	7.06	Moderate			2.78	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.18	Lower	0.79	Lower	3.69	2.50
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.44	Moderate	5.00	Moderate	5.34	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.68	Moderate	2.00	Lower	5.38	2.48
Pollinator Habitat (POL)	8.28	Higher	3.33	Higher	6.56	3.33
Public Use & Recognition (PU)			1.75	Lower		1.63
Wetland Sensitivity (Sens)			7.44	Higher		4.23
Wetland Stressors (STR)			4.59	Moderate		4.22
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.88	Moderate	5.14	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.43	Moderate	0.78	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.31	Lower	0.47	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.67	Higher	4.35	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.09	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	4.22	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.62	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.98	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-075

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 07, 2022 **Assessment Area Size:** 0.15 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	7.87	Higher	10.00	Higher	7.08	10.00
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	0.58	Lower	3.65	0.36
Sediment & Toxicant Retention & Stabilisation (SR)	0.42	Lower	9.55	Higher	2.44	4.67
Phosphorus Retention (PR)	2.17	Lower	5.75	Moderate	3.98	4.79
Nitrate Removal & Retention (NR)	2.81	Moderate	3.11	Lower	4.96	3.45
Carbon Stock (CS)	7.67	Higher			8.18	
Organic Nutrient Export (OE)	10.00	Higher			4.28	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.13	Lower	0.86	Lower	3.66	2.56
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.73	Moderate	5.00	Moderate	5.58	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	4.20	Moderate	2.05	Lower	5.59	2.53
Pollinator Habitat (POL)	8.50	Higher	3.33	Higher	6.74	3.33
Public Use & Recognition (PU)			1.75	Lower		1.63
Wetland Sensitivity (Sens)			6.45	Higher		3.92
Wetland Stressors (STR)			5.33	Moderate		4.67
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	7.87	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.47	Higher	7.84	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	7.36	Higher	0.44	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.28	Lower	0.52	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.90	Higher	4.35	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	78.72	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	42.85	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	3.20	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.66	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	30.06	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-076

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 07, 2022 **Assessment Area Size:** 0.26 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.30	Moderate	0.49	Lower	4.65	0.30
Sediment & Toxicant Retention & Stabilisation (SR)	1.07	Lower	1.82	Moderate	2.94	0.89
Phosphorus Retention (PR)	3.30	Moderate	4.92	Moderate	4.85	4.10
Nitrate Removal & Retention (NR)	3.55	Moderate	3.33	Lower	5.48	3.67
Carbon Stock (CS)	6.61	Moderate			7.49	
Organic Nutrient Export (OE)	7.03	Moderate			2.76	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.78	Moderate	0.90	Lower	4.10	2.60
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.90	Moderate	5.00	Moderate	5.72	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	4.10	Moderate	2.05	Lower	5.55	2.52
Pollinator Habitat (POL)	8.25	Higher	3.33	Higher	6.54	3.33
Public Use & Recognition (PU)			1.75	Lower		1.63
Wetland Sensitivity (Sens)			6.66	Higher		3.98
Wetland Stressors (STR)			3.42	Lower		3.52
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.12	Moderate	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.57	Moderate	0.37	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.67	Moderate	0.54	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.75	Higher	4.35	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.18	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.04	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.91	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	29.40	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-077

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Lisa MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 03, 2022 **Assessment Area Size:** 0.34 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.46	Moderate	0.51	Lower	4.79	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	3.66	Moderate	5.25	Moderate	5.13	4.38
Nitrate Removal & Retention (NR)	3.72	Moderate	4.49	Moderate	5.60	4.76
Carbon Stock (CS)	6.58	Moderate			7.47	
Organic Nutrient Export (OE)	7.24	Higher			2.85	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.51	Moderate	0.45	Lower	4.58	2.22
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.77	Moderate	3.33	Lower	5.62	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	6.05	Moderate	2.01	Lower	6.32	2.49
Pollinator Habitat (POL)	8.84	Higher	3.33	Higher	7.01	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			4.79	Moderate		3.40
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.18	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.74	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.11	Moderate	0.27	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.36	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.23	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.19	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.56	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.31	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-078

Mixed High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 07, 2022 **Assessment Area Size:** 0.14 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.40	Moderate	0.40	Lower	4.74	0.25
Sediment & Toxicant Retention & Stabilisation (SR)	0.72	Lower	2.27	Moderate	2.67	1.11
Phosphorus Retention (PR)	2.70	Lower	5.08	Moderate	4.39	4.24
Nitrate Removal & Retention (NR)	3.35	Moderate	4.04	Moderate	5.34	4.33
Carbon Stock (CS)	6.61	Moderate			7.49	
Organic Nutrient Export (OE)	6.80	Moderate			2.67	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.78	Moderate	0.85	Lower	4.10	2.55
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.69	Moderate	5.00	Moderate	5.55	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.78	Moderate	2.01	Lower	5.42	2.49
Pollinator Habitat (POL)	8.14	Higher	3.33	Higher	6.45	3.33
Public Use & Recognition (PU)			1.85	Lower		1.69
Wetland Sensitivity (Sens)			6.61	Higher		3.97
Wetland Stressors (STR)			3.52	Lower		3.59
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.98	Moderate	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.44	Moderate	0.30	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.67	Moderate	0.51	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.62	Higher	4.35	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.09	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.65	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.85	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.80	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-081

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 06, 2022 **Assessment Area Size:** 1.48 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.16	Moderate	1.69	Moderate	4.53	1.04
Sediment & Toxicant Retention & Stabilisation (SR)	0.90	Lower	2.27	Moderate	2.82	1.11
Phosphorus Retention (PR)	3.61	Moderate	5.08	Moderate	5.09	4.24
Nitrate Removal & Retention (NR)	3.20	Moderate	4.04	Moderate	5.24	4.33
Carbon Stock (CS)	7.87	Higher			8.31	
Organic Nutrient Export (OE)	8.05	Higher			3.16	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.22	Moderate	0.46	Lower	5.05	2.23
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.81	Moderate	3.33	Lower	5.65	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.84	Moderate	2.03	Lower	6.24	2.51
Pollinator Habitat (POL)	8.96	Higher	3.33	Higher	7.10	3.33
Public Use & Recognition (PU)			1.96	Lower		1.76
Wetland Sensitivity (Sens)			6.71	Higher		4.00
Wetland Stressors (STR)			3.52	Lower		3.59
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.88	Higher	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.23	Higher	1.27	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.53	Moderate	0.27	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.41	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	26.11	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.89	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.69	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.49	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-0XX

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 07, 2022 **Assessment Area Size:** 0.08 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	10.00	Higher	8.61	10.00
Stream Flow & Temperature Support (SFTS)	5.46	Moderate	0.51	Lower	4.79	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.54	Lower	2.56	Moderate	3.32	1.25
Phosphorus Retention (PR)	3.88	Moderate	5.25	Moderate	5.30	4.38
Nitrate Removal & Retention (NR)	4.21	Moderate	4.49	Moderate	5.95	4.76
Carbon Stock (CS)	5.87	Moderate			7.00	
Organic Nutrient Export (OE)	7.43	Higher			2.92	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.75	Moderate	0.45	Lower	4.74	2.23
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.79	Moderate	3.33	Lower	5.63	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.95	Moderate	2.01	Lower	6.28	2.49
Pollinator Habitat (POL)	8.85	Higher	3.33	Higher	7.02	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			6.20	Moderate		3.84
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.87	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.86	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.25	Moderate	0.27	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.35	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	100.00	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.76	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.23	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.61	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.29	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-083

Coniferous Low Shrub Swamp

Assessed by: Field Assessment: Ian Bryson; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 01, 2022 **Assessment Area Size:** 0.4 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.22	Moderate	0.51	Lower	4.58	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	3.63	Moderate	4.49	Moderate	5.54	4.76
Carbon Stock (CS)	7.92	Higher			8.34	
Organic Nutrient Export (OE)	8.09	Higher			3.18	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.27	Moderate	0.80	Lower	4.42	2.51
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.15	Moderate	5.00	Moderate	5.93	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	6.16	Higher	2.07	Lower	6.36	2.54
Pollinator Habitat (POL)	8.98	Higher	3.33	Higher	7.12	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			4.80	Moderate		3.40
Wetland Stressors (STR)			4.48	Moderate		4.16
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	6.06	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.26	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.96	Moderate	0.48	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.50	Higher	4.77	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	28.34	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.39	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.94	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.80	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-084

Broadleaf High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 06, 2022 **Assessment Area Size:** 0.14 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.07	Moderate	0.00	Lower	3.58	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	0.60	Lower	2.27	Moderate	2.57	1.11
Phosphorus Retention (PR)	2.77	Lower	5.08	Moderate	4.44	4.24
Nitrate Removal & Retention (NR)	3.07	Moderate	1.93	Lower	5.15	2.33
Carbon Stock (CS)	7.81	Higher			8.27	
Organic Nutrient Export (OE)	7.77	Higher			3.05	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.52	Lower	0.73	Lower	3.92	2.45
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.88	Moderate	5.00	Moderate	5.71	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.79	Moderate	2.04	Lower	6.22	2.52
Pollinator Habitat (POL)	9.03	Higher	3.33	Higher	7.16	3.33
Public Use & Recognition (PU)			1.44	Lower		1.44
Wetland Sensitivity (Sens)			7.43	Higher		4.22
Wetland Stressors (STR)			3.31	Lower		3.46
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.69	Higher	4.09	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.86	Higher	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.51	Lower	0.44	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.45	Higher	4.77	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	23.26	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.66	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	35.55	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-085

Coniferous Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Lisa MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 03, 2022 **Assessment Area Size:** 0.88 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.70	Moderate	2.74	Moderate	5.00	1.69
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	4.09	Moderate	5.25	Moderate	5.46	4.38
Nitrate Removal & Retention (NR)	3.69	Moderate	2.98	Lower	5.58	3.33
Carbon Stock (CS)	7.65	Higher			8.17	
Organic Nutrient Export (OE)	7.92	Higher			3.11	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.75	Moderate	0.70	Lower	4.08	2.43
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.76	Moderate	5.00	Moderate	5.60	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.47	Moderate	2.00	Lower	6.09	2.48
Pollinator Habitat (POL)	8.75	Higher	3.33	Higher	6.94	3.33
Public Use & Recognition (PU)			1.85	Lower		1.69
Wetland Sensitivity (Sens)			7.89	Higher		4.36
Wetland Stressors (STR)			4.69	Moderate		4.29
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.90	Higher	4.42	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.23	Higher	2.06	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.65	Moderate	0.42	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.22	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	26.11	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	12.81	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.69	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.42	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-086

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson & Lisa MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 03, 2022 **Assessment Area Size:** 0.6 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	10.00	Higher	8.61	10.00
Stream Flow & Temperature Support (SFTS)	5.54	Moderate	1.86	Moderate	4.86	1.15
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	2.79	Lower	5.25	Moderate	4.46	4.38
Nitrate Removal & Retention (NR)	3.87	Moderate	4.49	Moderate	5.70	4.76
Carbon Stock (CS)	6.00	Moderate			7.09	
Organic Nutrient Export (OE)	6.87	Moderate			2.70	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.03	Moderate	0.51	Lower	4.93	2.27
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	7.02	Moderate	3.33	Lower	5.82	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.95	Moderate	2.05	Lower	6.28	2.52
Pollinator Habitat (POL)	8.91	Higher	3.33	Higher	7.06	3.33
Public Use & Recognition (PU)			1.66	Lower		1.58
Wetland Sensitivity (Sens)			5.59	Moderate		3.65
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.73	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.51	Moderate	1.40	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.42	Moderate	0.30	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.41	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	100.00	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.11	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.69	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.74	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.52	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-087

Mixed-Wood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 07, 2022 **Assessment Area Size:** 0.37 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.46	Moderate	0.00	Lower	4.79	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	0.95	Lower	1.82	Moderate	2.85	0.89
Phosphorus Retention (PR)	2.94	Moderate	4.92	Moderate	4.57	4.10
Nitrate Removal & Retention (NR)	3.63	Moderate	3.33	Lower	5.54	3.67
Carbon Stock (CS)	6.77	Higher			7.59	
Organic Nutrient Export (OE)	6.90	Moderate			2.71	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	4.01	Moderate	0.50	Lower	4.91	2.26
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.97	Moderate	3.33	Lower	5.78	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.95	Moderate	2.04	Lower	6.28	2.52
Pollinator Habitat (POL)	8.91	Higher	3.33	Higher	7.06	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			6.85	Higher		4.04
Wetland Stressors (STR)			3.37	Lower		3.49
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.17	Higher	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.51	Moderate	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.41	Moderate	0.30	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.41	Higher	3.17	Higher		

Functional WSS Interpretation Results:		
Function-Benefit Product (FBP)	**FBP SCORE**	**FBP SCORE CATEGORY**
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.38	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.72	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.50	Low
Functional WSS Determination: Automatic Method		
Habitat Rule Satisfied?	NO	
Support Rule Satisfied?	NO	
Habitat/Support Hybrid Rule Satisfied?	NO	
CONCLUSION	**In NS, this site is not a WSS**	

NR-WL-088

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson & Lisa MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 03, 2022 **Assessment Area Size:** 1.31 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	5.00	Moderate	1.61	Moderate	4.39	0.99
Sediment & Toxicant Retention & Stabilisation (SR)	1.14	Lower	2.27	Moderate	3.00	1.11
Phosphorus Retention (PR)	3.18	Moderate	5.08	Moderate	4.76	4.24
Nitrate Removal & Retention (NR)	3.90	Moderate	4.04	Moderate	5.73	4.33
Carbon Stock (CS)	7.35	Higher			7.97	
Organic Nutrient Export (OE)	7.73	Higher			3.04	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.15	Moderate	0.70	Lower	4.34	2.43
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.75	Moderate	5.00	Moderate	5.60	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	5.56	Higher	2.02	5.56
Native Plant Habitat (PH)	5.16	Moderate	2.00	Lower	5.97	2.48
Pollinator Habitat (POL)	8.73	Higher	3.33	Higher	6.92	3.33
Public Use & Recognition (PU)			2.73	Moderate		2.23
Wetland Sensitivity (Sens)			7.37	Higher		4.20
Wetland Stressors (STR)			3.12	Lower		3.34
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.62	Higher	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.99	Higher	1.21	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.89	Moderate	0.42	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.17	Higher	4.76	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.97	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	7.22	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.79	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	34.17	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-089

Mixed High Shrub Swamp

Assessed by: Field Assessment: Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Dec 05, 2022 **Assessment Area Size:** 0.33 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.54	Moderate	0.51	Lower	4.86	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.07	Lower	2.56	Moderate	2.95	1.25
Phosphorus Retention (PR)	3.73	Moderate	5.25	Moderate	5.19	4.38
Nitrate Removal & Retention (NR)	3.51	Moderate	4.49	Moderate	5.46	4.76
Carbon Stock (CS)	7.73	Higher			8.22	
Organic Nutrient Export (OE)	7.72	Higher			3.03	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.51	Moderate	0.38	Lower	4.58	2.17
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.50	Moderate	3.33	Lower	5.39	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.74	Moderate	1.97	Lower	6.20	2.45
Pollinator Habitat (POL)	8.74	Higher	3.33	Higher	6.93	3.33
Public Use & Recognition (PU)			1.85	Lower		1.69
Wetland Sensitivity (Sens)			3.46	Lower		2.98
Wetland Stressors (STR)			4.69	Moderate		4.29
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.87	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.07	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.11	Moderate	0.23	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.22	Higher	3.16	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.44	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.31	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.48	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	22.83	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-091

Hardwood Treed Swamp (Young-Immature)

Assessed by: Field Assessment: Ian Bryson, Carrie Jardine & Lisa MacDonald; WESPAC Office: Ian Bryson

Assessment Date: Nov 29, 2022 **Assessment Area Size:** 0.01 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.30	Moderate	0.00	Lower	4.65	0.00
Sediment & Toxicant Retention & Stabilisation (SR)	1.07	Lower	1.82	Moderate	2.95	0.89
Phosphorus Retention (PR)	3.30	Moderate	4.92	Moderate	4.85	4.10
Nitrate Removal & Retention (NR)	3.76	Moderate	3.33	Lower	5.63	3.67
Carbon Stock (CS)	6.65	Moderate			7.52	
Organic Nutrient Export (OE)	7.06	Moderate			2.77	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.97	Moderate	0.49	Lower	4.89	2.26
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.94	Moderate	3.33	Lower	5.75	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.95	Moderate	10.00	Higher	6.28	10.00
Pollinator Habitat (POL)	8.90	Higher	3.33	Higher	7.05	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			6.85	Higher		4.04
Wetland Stressors (STR)			3.37	Lower		3.49
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.17	Moderate	4.14	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.59	Moderate	0.00	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.38	Moderate	0.29	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.40	Higher	7.50	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	21.41	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.00	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.70	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	55.48	Moderate

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-092

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Ian Bryson, Lisa MacDonald, Beth Cameron & Nathan Hill; WESPAC Office: Ian Bryson

Assessment Date: Dec 05, 2022 **Assessment Area Size:** 2.36 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.27	Moderate	0.03	Lower	3.75	0.02
Sediment & Toxicant Retention & Stabilisation (SR)	0.72	Lower	2.27	Moderate	2.67	1.11
Phosphorus Retention (PR)	2.70	Lower	5.08	Moderate	4.39	4.24
Nitrate Removal & Retention (NR)	3.06	Moderate	4.04	Moderate	5.14	4.33
Carbon Stock (CS)	6.77	Higher			7.59	
Organic Nutrient Export (OE)	7.36	Higher			2.89	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.80	Moderate	0.44	Lower	4.78	2.22
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.76	Moderate	3.33	Lower	5.61	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.53	Moderate	2.02	Lower	6.11	2.50
Pollinator Habitat (POL)	8.94	Higher	3.33	Higher	7.09	3.33
Public Use & Recognition (PU)			2.16	Lower		1.88
Wetland Sensitivity (Sens)			7.34	Higher		4.20
Wetland Stressors (STR)			3.57	Lower		3.62
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.04	Higher	4.44	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.62	Higher	0.02	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	2.28	Moderate	0.27	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.35	Higher	3.17	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	22.37	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	0.14	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.61	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.30	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-099

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 0.13 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	8.65	Higher	10.00	Higher	7.64	10.00
Stream Flow & Temperature Support (SFTS)	4.17	Moderate	0.51	Lower	3.66	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	0.72	Lower	2.94	Higher	2.67	1.44
Phosphorus Retention (PR)	2.70	Lower	5.39	Moderate	4.39	4.49
Nitrate Removal & Retention (NR)	3.28	Moderate	4.99	Moderate	5.29	5.24
Carbon Stock (CS)	6.47	Moderate			7.40	
Organic Nutrient Export (OE)	7.17	Moderate			2.82	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.09	Moderate	0.37	Lower	4.30	2.16
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.46	Moderate	3.33	Lower	5.36	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	3.33	Moderate	2.02	3.33
Native Plant Habitat (PH)	5.74	Moderate	1.98	Lower	6.20	2.46
Pollinator Habitat (POL)	8.91	Higher	3.33	Higher	7.07	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			3.98	Moderate		3.14
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	8.65	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.88	Moderate	4.92	Higher		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.48	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.86	Moderate	0.22	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	7.32	Higher	3.16	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	86.46	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.00	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.09	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.41	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	23.17	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-100

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 0.04 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	4.15	Moderate	0.51	Lower	3.65	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.30	Lower	2.56	Moderate	3.13	1.25
Phosphorus Retention (PR)	4.02	Moderate	5.25	Moderate	5.41	4.38
Nitrate Removal & Retention (NR)	3.58	Moderate	4.49	Moderate	5.50	4.76
Carbon Stock (CS)	6.53	Moderate			7.43	
Organic Nutrient Export (OE)	7.88	Higher			3.10	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	3.09	Moderate	0.55	Lower	4.30	2.31
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.50	Moderate	3.33	Lower	5.39	3.33
Keystone Mammal Habitat (KMH)	1.82	Lower	2.22	Moderate	2.02	2.22
Native Plant Habitat (PH)	4.04	Moderate	2.01	Lower	5.52	2.49
Pollinator Habitat (POL)	8.35	Higher	3.33	Higher	6.62	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			5.76	Moderate		3.70
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.19	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.95	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.86	Moderate	0.33	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.76	Higher	3.03	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	24.27	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.27	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.61	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	20.49	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-101

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 1.38 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.04	Moderate	0.51	Lower	4.43	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.14	Lower	2.56	Moderate	3.00	1.25
Phosphorus Retention (PR)	3.85	Moderate	5.25	Moderate	5.28	4.38
Nitrate Removal & Retention (NR)	3.47	Moderate	4.49	Moderate	5.43	4.76
Carbon Stock (CS)	7.81	Higher			8.27	
Organic Nutrient Export (OE)	8.02	Higher			3.15	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.80	Moderate	0.83	Lower	4.11	2.54
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.62	Moderate	5.00	Moderate	5.49	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.68	Moderate	2.01	Lower	5.38	2.49
Pollinator Habitat (POL)	8.19	Higher	3.33	Higher	6.50	3.33
Public Use & Recognition (PU)			1.85	Lower		1.69
Wetland Sensitivity (Sens)			5.90	Moderate		3.74
Wetland Stressors (STR)			4.69	Moderate		4.29
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.94	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.19	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.68	Moderate	0.50	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.64	Higher	4.35	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	27.76	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.36	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.84	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.85	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-102

Mixed High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 0.31 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	10.00	Higher	10.00	Higher	8.61	10.00
Stream Flow & Temperature Support (SFTS)	5.34	Moderate	0.51	Lower	4.69	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.18	Lower	2.56	Moderate	3.04	1.25
Phosphorus Retention (PR)	2.79	Lower	5.25	Moderate	4.46	4.38
Nitrate Removal & Retention (NR)	4.02	Moderate	4.49	Moderate	5.81	4.76
Carbon Stock (CS)	4.88	Moderate			6.36	
Organic Nutrient Export (OE)	6.17	Moderate			2.42	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.59	Moderate	0.87	Lower	3.97	2.57
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.78	Moderate	5.00	Moderate	5.62	5.00
Keystone Mammal Habitat (KMH)	1.82	Lower	4.44	Moderate	2.02	4.44
Native Plant Habitat (PH)	3.78	Moderate	2.02	Lower	5.42	2.50
Pollinator Habitat (POL)	8.14	Higher	3.33	Higher	6.45	3.33
Public Use & Recognition (PU)			1.54	Lower		1.51
Wetland Sensitivity (Sens)			5.71	Moderate		3.68
Wetland Stressors (STR)			4.53	Moderate		4.19
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	10.00	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	4.05	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	5.00	Moderate	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.56	Moderate	0.52	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.63	Higher	4.35	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	100.00	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	18.93	Low
SUPPORT SUPERGROUP - AQUATIC SUPPORT	1.91	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.82	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	28.86	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-103

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 0.30 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	4.35	Moderate	2.54	Moderate	3.82	1.56
Sediment & Toxicant Retention & Stabilisation (SR)	1.54	Lower	2.56	Moderate	3.32	1.25
Phosphorus Retention (PR)	4.02	Moderate	5.25	Moderate	5.41	4.38
Nitrate Removal & Retention (NR)	4.23	Moderate	4.49	Moderate	5.96	4.76
Carbon Stock (CS)	6.97	Higher			7.72	
Organic Nutrient Export (OE)	8.19	Higher			3.22	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	1.23	Lower	1.26	Lower	3.07	2.89
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.29	Moderate	10.00	Higher	5.22	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.13	Lower	1.96	Lower	5.16	2.44
Pollinator Habitat (POL)	8.05	Moderate	3.33	Higher	6.38	3.33
Public Use & Recognition (PU)			2.61	Moderate		2.16
Wetland Sensitivity (Sens)			7.49	Higher		4.24
Wetland Stressors (STR)			4.29	Moderate		4.05
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.58	Higher	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.18	Higher	1.91	Moderate		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	0.74	Lower	0.76	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.44	Moderate	7.05	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	26.07	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	11.78	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	0.56	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	45.39	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

NR-WL-104

Coniferous High Shrub Swamp

Assessed by: Field Assessment: Nathan Hill & Dave MacDonald; WESPAC Office: Ian Bryson (CBCL Limited)

Assessment Date: Nov 30, 2022 **Assessment Area Size:** 0.21 ha **WESP-AC Version:** 3.0

WESP-AC Wetland Functions or Other Attributes	Function Score (Normalised)	Function Rating	Benefits Score (Normalised)	Benefits Rating	Function Score (raw)	Benefits Score (raw)
Surface Water Storage (WS)	9.42	Higher	10.00	Higher	8.19	10.00
Stream Flow & Temperature Support (SFTS)	5.14	Moderate	0.51	Lower	4.51	0.31
Sediment & Toxicant Retention & Stabilisation (SR)	1.54	Lower	2.56	Moderate	3.32	1.25
Phosphorus Retention (PR)	4.75	Moderate	5.25	Moderate	5.96	4.38
Nitrate Removal & Retention (NR)	4.26	Moderate	4.49	Moderate	5.98	4.76
Carbon Stock (CS)	6.61	Moderate			7.49	
Organic Nutrient Export (OE)	7.94	Higher			3.12	
Aquatic Primary Productivity (APP)	0.00	Lower	0.00	Lower	0.00	0.00
Anadromous Fish Habitat (FA)	0.00	Lower	0.00	Lower	0.00	0.00
Resident & Other Fish Habitat (FR)	0.00	Lower	0.00	Lower	0.00	0.00
Amphibian & Turtle Habitat (AM)	2.15	Lower	1.40	Lower	3.67	3.00
Waterbird Feeding Habitat (WBF)	0.00	Lower	0.00	Lower	0.00	0.00
Waterbird Nesting Habitat (WBN)	0.00	Lower	0.00	Lower	0.00	0.00
Raptor & Wetland Songbird Habitat (RSB)	6.82	Moderate	10.00	Higher	5.65	10.00
Keystone Mammal Habitat (KMH)	1.82	Lower	1.11	Lower	2.02	1.11
Native Plant Habitat (PH)	3.96	Moderate	2.03	Lower	5.49	2.51
Pollinator Habitat (POL)	8.20	Higher	3.33	Higher	6.50	3.33
Public Use & Recognition (PU)			1.85	Lower		1.69
Wetland Sensitivity (Sens)			3.88	Moderate		3.11
Wetland Stressors (STR)			4.69	Moderate		4.29
Summary Ratings for Grouped Functions:						
HYDROLOGIC (HYg) (WS)	9.42	Higher	10.00	Higher		
WATER PURIFICATION (WQg) (SR, PR, NR, CS)	5.45	Moderate	4.67	Moderate		
AQUATIC SUPPORT (ASg) (SFTS, APP, OE)	6.15	Higher	0.38	Lower		
AQUATIC HABITAT (AHg) (FA, FR, AM, WBF, WBN)	1.29	Lower	0.84	Lower		
TRANSITION HABITAT (THg) (RSB, KMH, PH, POL)	6.70	Higher	7.06	Higher		

Functional WSS Interpretation Results:

Function-Benefit Product (FBP)	FBP SCORE	FBP SCORE CATEGORY
SUPPORT SUPERGROUP - HYDROLOGIC	94.20	High
SUPPORT SUPERGROUP - WATER QUALITY SUPPORT	25.46	Moderate
SUPPORT SUPERGROUP - AQUATIC SUPPORT	2.34	Low
HABITAT SUPERGROUP - AQUATIC HABITAT	1.08	Low
HABITAT SUPERGROUP - TRANSITION HABITAT	47.30	Low

Functional WSS Determination: Automatic Method	
Habitat Rule Satisfied?	NO
Support Rule Satisfied?	NO
Habitat/Support Hybrid Rule Satisfied?	NO
CONCLUSION	**In NS, this site is not a WSS**

APPENDIX E

Wetland Photo Log

Photo Log Table of Contents

Photo 1: NR-WL-001 Wetland delineation plot (IMG_6628.JPEG)

Photo 2: NR-WL-001 Upland wetland delineation plot (IMG_6632.JPEG)

Photo 3: NR-WL-002 Wetland delineation plot (IMG_6636.JPEG)

Photo 4: NR-WL-002 Upland wetland delineation plot (IMG_6640.JPEG)

Photo 5: NR-WL-003 Wetland delineation plot (IMG_6644.JPEG)

Photo 6: NR-WL-003 Upland wetland delineation plot (IMG_6651.JPEG)

Photo 7: NR-WL-004 Wetland delineation plot (IMG_6618.JPEG)

Photo 8: NR-WL-004 Upland wetland delineation plot (IMG_6622.JPEG)

Photo 9: NR-WL-005 Wetland delineation plot (IMG_6610.JPEG)

Photo 10: NR-WL-005 Upland wetland delineation plot (IMG_6614.JPEG)

Photo 11: NR-WL-006 Wetland delineation plot (IMG_6662.JPEG)

Photo 12: NR-WL-006 Upland wetland delineation plot (IMG_6667.JPEG)

Photo 13: NR-WL-007 Wetland delineation plot (IMG_6670.JPEG)

Photo 14: NR-WL-007 Upland wetland delineation plot (IMG_1107.JPEG)