

# Government of Newfoundland and Labrador Department of Environment and Climate Change Water Resources Management Division

#### PERMIT TO ALTER A BODY OF WATER

Pursuant to the Water Resources Act, SNL 2002 cW-4.01, specifically Section(s) 48

Date: AUGUST 09, 2022 File No: <u>536-07</u>

Permit No: <u>ALT12670-2022</u>

Permit Holder: NL Hydro

P.O. Box 12800 500 Columbus Drive St. John's NL A1B 0C9 ShaneJackson@nhl.nl.ca

Attention: Shane Jackson

Re: NL Hydro - Bay D'Espoir Generating Station - Long Pond Reservoir - Riprap Rehabilitation -

LD1 Dam and LD2 Dam

Permission is hereby given for: riprap rehabilitation of two Long Pond reservoir dams, LD1 Dam and LD2 Dam as detailed in the application received from NL Hydro on July 5, 2022 and additional information on August 1, 2022, August 3, 2022 and August 9, 2022.

- This Permit does not release the Permit Holder from the obligation to obtain appropriate approvals from other concerned municipal, provincial and federal agencies.
- The Permit Holder must obtain the approval of the Crown Lands Administration Division if the project is being carried out on Crown Land.
- This Permit is subject to the terms and conditions indicated in Appendices A and B (attached).
- It should be noted that prior to any significant changes in the design or installation of the proposed works, or in event of changes in ownership or management of the project, an amendment to this Permit must be obtained from the Department of Environment and Climate Change under Section 49 of the *Water Resources Act*.

(for) MINISTER

#### GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Department of Environment and Climate Change

File No: <u>536-07</u> Permit No: <u>ALT12670-2022</u>

### APPENDIX A

#### **Terms and Conditions for Permit**

#### Dam/Reservoir Design

1. The dam and appurtenant structures shall be constructed at the following coordinates:

Name	Datum	Northing (m)	Easting (m)	Zone
LD1 Dam	NAD 83	5315929	588390	21
LD2 Dam	NAD 83	5321364	588775	21

- The dam and associated works must be designed and constructed under the direct supervision of an engineer
  eligible for membership with the Professional Engineers and Geoscientists of Newfoundland and Labrador (or
  equivalent Canadian organization) who is able to demonstrate competence in the design, construction, and
  surveillance of dams.
- 3. The dam and associated works shall be designed according to the Canadian Dam Association Dam Safety Guidelines and associated Bulletins (most recent edition).

#### **Dam Construction**

- 4. Reservoir shorelines with moderately steep slopes or vulnerability to wave induced erosion, must be adequately protected with armour stone, rip-rap, or by other suitable measures.
- 5. The reservoir side of the LD1 Dam structure must be constructed with riprap of D50 = 650 mm to a depth of 0.91 m to provide adequate protection from wave or ice induced erosion.
- 6. The reservoir side of the LD2 Dam structure must be constructed with riprap of D50 = 950 mm to a depth of 1.0 m to provide adequate protection from wave or ice induced erosion.
- 7. Work must be conducted in dry conditions.
- 8. Fill material must be obtained from an approved quarry site. It must not be taken from beaches or streams, and must not be dredged from a body of water.
- 9. The transportation of labour and materials to the site must be along existing access roads.
- 10. The dam and spillway must be inspected regularly to identify any indications of structural failure, leaking, erosion or other problem so that immediate action can be taken to rectify the problem.
- 11. The work must meet the requirements of the Environmental Protection Plan (latest approved version) for the project.

#### **Dam Safety**

- 12. The dams have been conditionally classified in the VERY HIGH Consequence category based on the 2007 Canadian Dam Association (CDA) guidelines. To meet the CDA's Dam Safety guidelines (Current Edition) for dams of this classification, the owner must:
  - Carry out an annual Dam Safety Inspection and provide the results to this Department,
  - Carry out a Dam Safety Review and submit a Dam Safety Report to this Department a maximum of every **five** years,
  - Develop an Operation, Maintenance and Surveillance (OMS) Manual for the operation,
  - Prepare an Emergency Preparedness Response Plan (EPRP).

#### **General Alterations**

- 13. Any work that must be performed below the high water mark must be carried out during a period of low water levels.
- 14. Water pumped from excavations or work areas, or any runoff or effluent directed out of work sites, must have silt and turbidity removed by settling ponds, filtration, or other suitable treatment before discharging to a body of water. Effluent discharged into receiving waters must comply with the *Environmental Control Water and Sewage Regulations*, 2003.
- 15. All operations must be carried out in a manner that prevents damage to land, vegetation, and watercourses, and which prevents pollution of bodies of water.
- 16. The use of heavy equipment in streams or bodies of water is not permitted. The operation of heavy equipment must be confined to dry stable areas.
- 17. All vehicles and equipment must be clean and in good repair, free of mud and oil, or other harmful substances that could impair water quality.
- 18. Wood preservatives such as penta, CCA or other such chemicals must not be applied to timber near a body of water. All treated wood or timber must be thoroughly dry before being brought to any work site and installed.
- 19. Any areas adversely affected by this project must be restored to a state that resembles local natural conditions. Further remedial measures to mitigate environmental impacts on water resources can and will be specified, if considered necessary in the opinion of this Department.
- 20. All waste materials resulting from this project must be disposed of at a site approved by the Department of Digital Government and Service NL.
- 21. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
- 22. Sediment and erosion control measures must be installed before starting work. All control measures must be inspected regularly and any necessary repairs made if damage is discovered.
- 23. The attached Completion Report (Appendix C) for Permit No. 12670 must be completed and returned to this Department upon completion of the approved works. Pictures must be submitted along with the completion report, showing the project site prior to and after development.
- 24. This Permit is valid for two years from the date of issue. Work must be completed by that date or the application and approval procedure must be repeated. The following term(s) are valid for the life cycle of the structure: 10,12.
- 25. The location of the work is highlighted on the Location Map for this Permit attached as Appendix D.

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Department of Environment and Climate Change

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#### APPENDIX B

#### **Special Terms and Conditions for Permit**

- 1. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall keep all systems and works in good condition and repair and in accordance with all laws, by-laws, directions, rules and regulations of any governmental authority. The Permit Holder or its agent(s), subcontractor(s), or consultant(s) shall immediately notify the Minister if any problem arises which may threaten the structural stability of the systems and works, endanger public safety and/or the environment or adversely affect others and/or any body of water either in or outside the said Project areas. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall be responsible for all damages suffered by the Minister and Government resulting from any defect in the systems and works, operational deficiencies/inadequacies, or structural failure.
- 2. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall operate the said Project and its systems and works in a manner which does not cause any water related and/or environmental problems, including but not limited to problems of erosion, deposition, flooding, and deterioration of water quality and groundwater depletion, in or outside the said Project areas. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall be responsible for any and all damages associated with these problems caused as a result of changes, deficiencies, and inadequacies in the operational procedures by the Permit Holder or its agent(s), subcontractor(s), or consultant(s).
- 3. If the Permit Holder or its agent(s), subcontractor(s), or consultant(s) fails to perform, fulfil, or observe any of the terms and conditions, or provisions of this Permit, as determined by this Department, the Minister may, without notice, amend, modify, suspend or cancel this Permit in accordance with the *Water Resources Act*.
- 4. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) indemnify and hold the Minister and Government harmless against any and all liabilities, losses, claims, demands, damages or expenses including legal expenses of any nature whatsoever whether arising in tort, contract, statute, trust or otherwise resulting directly or indirectly from granting this Permit, systems and works in or outside the said Project areas, or any act or omission of the Permit Holder or its agent(s), subcontractor(s), or consultant(s) in or outside the said Project areas, or arising out of a breach or non-performance of any of the terms and conditions, or provisions of this Permit by the Permit Holder or its agent(s), subcontractor(s), or consultant(s).
- 5. This Permit is subject to all provisions of the *Water Resources Act* and any regulations in effect either at the date of this Permit or hereafter made pursuant thereto or any other relevant legislation enacted by the Province of Newfoundland and Labrador in the future.
- 6. This Permit shall be construed and interpreted in accordance with the laws of the Province of Newfoundland and Labrador.

File No: <u>536-07</u>

Permit No: <u>ALT12670-2022</u>

cc: Richard Harvey, Ph.D., P.Eng.
Manager, Water Rights, Investigations and Modelling Section
Water Resources Management Division
Department of Environment and Climate Change
RHarvey@gov.nl.ca

Ec: Fisheries Protection Division Ecosystem Management Branch Fisheries and Oceans Canada P.O. Box 5667 St. John's, NL A1C 5X1 FPP-NL@dfo-mpo.gc.ca

Ms. Paula Dawe, P.Eng.
Manager, Drinking Water and Wastewater Section
Water Resources Management Division
Department of Environment and Climate Change
P.O. Box 8700
4th Floor, West Block, Confederation Building
St. John's, NL A1B 4J6
pauladawe@gov.nl.ca



#### Government of Newfoundland and Labrador

# Department of Environment and Climate Change Water Resources Management Division

### **Appendix C - Completion Report**

ate:	Water Resources Act, SNL 2002 cW-4.01, s  AUGUST 09, 2022	pecifically Section(s) 48  File No: 536-07
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e application of August 9, 2  I (the Pethe project Departm	received from NL Hydro on July 5, 2022 022.  rmit Holder named above or agent authorics described above was completed in acco	rized to represent the Permit Holder) do hereby certify that rdance with the plans and specifications submitted to the and that the work was carried out in strict compliance with

This completion report must be completed and forwarded to the following address upon completion of the approved work.

Department of Environment and Climate Change Water Resources Management Division PO Box 8700 St. John's NL A1B 4J6

## GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

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# APPENDIX D Location Map for Permit

