
AMENDMENT TO PERMIT

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 49

Date: **AUGUST 18, 2022**

File No: **524**
Permit No: **ALT11704-2021**
Amendment No: **1**

Permit Holder: **Town of Bay Bulls
2 Southside Road
P.O. Box 70
Bay Bulls, NL A0A 1C0**

Attention: **Ms. Jennifer Aspell**

Re: **Long Pond - Walking Trail Phase I & II**

The original Permit dated APRIL 08, 2021 is amended as follows:

the replacement of the proposed bridge with a 1200 millimeter diameter culvert with reference to Lydia Woodford's email from July 20, 2022.

All other terms and conditions of the original Permit will apply and failure to comply with the terms and conditions of this amendment and the original Permit will render this Permit null and void, place the Permit Holder and their agent(s) in violation of the *Water Resources Act* and make the Permit Holder responsible for taking any remedial measures as may be prescribed by this Department.



(for) MINISTER

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APPENDIX D
Amended Terms and Conditions for Permit

Culvert Design

38. A 6 metre long - 1200 mm diameter CSP culvert may be installed across the Long Pond Walking Trail in the Town of Bay Bulls.

39. The culvert installation must be designed according to the following criteria:

Crossing Name / No.	Minimum Size (mm)	Number of Pipes	Length (m)
Long Pond Walking Trail	1200	1	6

Culvert Installation

40. Drainage ditches must collect and transport surface runoff in a manner that does not cause flooding, erosion or sedimentation of adjacent land or receiving waters.

41. Inlet and outlet areas of culvert installations must be adequately protected from erosion by placing rip-rap, fitted stone, or concrete headwalls.

42. Culvert installations must follow the stream channel gradient to the maximum extent possible and placed in line with the direction of the main flow to minimize disturbance to the channel. Culverts must not disrupt the flow of water or cause ponding at the upstream side of the installation.

43. In multiple culvert installations, one culvert must be set a minimum of 150 mm lower than the others to provide adequate water depth and velocity for fish passage during low flow conditions. In addition, multiple culverts must be installed within 0.6 to 0.9 metres apart for maximum stability.

44. Where pumping is used to bypass flow, cofferdams must be installed both above and below areas of construction. The Permit Holder must provide pumps with sufficient capacity to prevent washout of cofferdams.

45. Cofferdams must be properly designed and constructed of suitable materials to prevent leakage and to resist loss of any material as a result of erosion. Cofferdams must be removed upon completion of their intended function. All material must be removed carefully to prevent disturbance of the water body and to prevent water quality degradation.

46. All work involving minor alteration to the stream channel to permit culvert placement must be carried out at a time of low flow, and in a manner that prevents downstream siltation and unnecessary alteration of the channel.

47. Grading and finishing of roadways or road embankments must not cause damage to culverts or allow road material to enter the watercourse.

48. Roadside embankments near the watercourse must be adequately protected from erosion by sodding, seeding or placing of rip-rap.
49. Culverts must be inspected regularly so that immediate action can be taken to clear blockages caused by ice or debris or to undertake repairs as required.
50. The inlet and outlet of culverts must be clearly marked so that operators of road grading and snow clearing equipment can avoid blocking culverts.
51. Any damage to culverts during installation or due to inadequate capacity and/or improper construction must be reported to this Department. Damaged culverts must be replaced immediately to prevent overtopping, erosion, or flooding.
52. If a culvert is installed in natural fish habitat it must be embedded a minimum of 150 mm below the natural streambed (up to a maximum of 1/3 of the culvert diameter)

Special Conditions

53. This project is the installation of a new culvert with a diameter greater than the nearest upstream culvert. This upstream culvert crosses the Southern Shore Highway (within fifty metres of the proposed walking trail) and the Town has indicated that there is no history of flooding or over topping at this upstream culvert. The Town of Bay Bulls must monitor the performance of this culvert during future rainfall events. In case of any floods associated with this culvert, the Town will be required to take appropriate corrective measures.

**APPENDIX E Location
Map for Permit**

Culvert Installation along the Long Pond Walking Trail

