

**PERMIT TO ALTER A BODY OF WATER**

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

Date: **JULY 22, 2019**

File No: **526**

Permit No: **ALT10523-2019**

Permit Holder: **Town of Deer Lake  
34 Reid's Lane  
Deer Lake, NL, A8A 2A2**

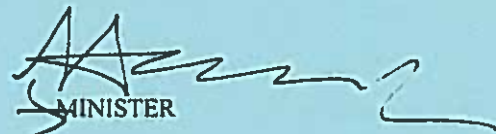
Attention: **Maxine Hayden**

Re: **Town of Deer Lake (Humber River) - River bank protection works**

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Permission is hereby given for : the construction of approximately 200 metres river bank protection works at Pine Tree Drive between the coordinates of (49.186304N, 57.445181W) and (49.185288N, 57.443129W) in the designated flood plain of the Town of Deer Lake with approximately 13,500 cubic-metre of armour stone to stabilize the riverbank to prevent further erosion and possible catastrophic failure of municipal water and sewer services, and roadway as shown on the location map in Appendix D, with reference to the application dated June 20, 2019 and additional information received on July 18 and 19, 2019.

- 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 Municipal Affairs and Environment under Section 49 of the *Water Resources Act*.



MINISTER

**APPENDIX A**  
**Terms and Conditions for Permit**

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**Dredging**

1. Alteration of the natural minimum streamflow is not permitted in order to preserve aquatic life.
2. The natural course of any stream must not be altered.
3. Dredging activity must only be carried out during periods when wind, wave and tide conditions minimize the dispersion of silt and sediment from the work site.
4. A water quality monitoring program is not required at this time. However, the Department reserves the right to require that the Permit Holder sample, analyse, and submit results of water quality tests, for the purpose of ensuring that the water quality is maintained within acceptable guidelines. All analyses must be undertaken by a CALA accredited laboratory.
5. The area to be dredged must be enclosed and isolated from the rest of the body of water through the use of a filter fabric curtain or similar method.
6. Dredged material must be disposed of in accordance with the regional Service NL Centre of the Department of Service NL. The Department of Service NL may require samples to be submitted for testing and analysis.

**River Bank Protection Works**

7. Fill may be placed on the river bank to build the required slope for bank protection work. The slope of the river bank must be no steeper than two horizontal to one vertical (2H:1V).
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. Filter fabric must be placed on the finished river bank slope before placing the rock for bank protection.
10. Rocks must be heavy enough to prevent scouring and to sustain against water velocity and wave action.
11. Select heavy rocks must also be placed along the toe of the bank protection work to provide slope stability and erosion protection.
12. The use of creosote-treated wood is strictly prohibited within 15 metres of all bodies of fresh water in the province.
13. Infilling must not cause increased water elevation upstream or increase flow velocity downstream of the site. Reduction of the natural cross-sectional area of any watercourse is not permitted.
14. Infilling must not disrupt the established surface drainage pattern of the area.
15. 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.
16. To prevent erosion and to control sedimentation in drainage ditches with steep gradients, rock check dams must be installed at an interval such that the crest of each dam is level with the base of the one immediately above. The center of each dam must be lower than the sides.
17. The constructed works must be inspected regularly so that action can be taken to undertake repairs as required.

### **Flood Zone Development**

18. The proposed river bank protective work is within the designated flood plain for the Town of Deer Lake. This development, and future development at the site, must comply with this Department's policy directive for *Flood Plain Management W.R. 96-1*.
19. Any further development in the flood zone area not specifically covered by this permit will require a separate permit from this Division under Section 48 of the *Water Resources Act*.
20. The proposed use of the facility and site will not involve any storage of pollutants such as fuels, chemicals, pesticides, etc.
21. The structure will not interfere with the flow of water or displace water such that it creates a worse flooding situation for other properties.

### **General Alterations**

22. Any work that must be performed below the high water mark must be carried out during a period of low water levels.
23. Any flowing or standing water must be diverted around work sites so that work is carried out in the dry.
24. 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*.
25. 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.
26. 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.
27. 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.
28. During the construction of concrete components, formwork must be properly constructed to prevent any fresh concrete from entering a body of water. Dumping of concrete or washing of tools and equipment in any body of water is prohibited.
29. 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.
30. 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.
31. The bed, banks and floodplains of watercourses, or other vulnerable areas affected by this project, must be adequately protected from erosion by seeding, sodding or placing of rip-rap.
32. All waste materials resulting from this project must be disposed of at a site approved by the Department of Service NL.
33. Periodic maintenance such as painting, resurfacing, clearing of debris, or minor repairs, must be carried out without causing any physical disruption of any watercourse. Care must be taken to prevent spillage of pollutants into the water.

34. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
35. 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.
36. Fill material must be of good quality, free of fines or other substances including metals, organics, or chemicals that may be harmful to the receiving waters.
37. The attached Completion Report (Appendix C) for Permit No. 10523 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.
38. 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.
39. The location of the work is highlighted on the Location Map for this Permit attached as Appendix D.
40. All work must be carried out within the Permit Holder's legal property boundaries.

**APPENDIX B**  
**Special Terms and Conditions for Permit**

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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: 526  
Permit No: ALT10523-2019

cc: Amir Ali Khan, Ph.D., P.Eng.  
Manager, Water Rights, Investigations and Modelling Section  
Water Resources Management Division  
Department of Municipal Affairs and Environment  
P.O. Box 8700  
4th Floor, West Block, Confederation Building  
St. John's, NL A1B 4J6  
akhan@gov.nl.ca

cc: File Copy for Binder

cc: Jeremy Keeping (Western)  
Land Management Specialist  
Crown Lands Administration  
jeremykeeping@gov.nl.ca

cc: 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

cc: Mike Gorman  
Gorman Engineering Ltd.  
11 Woodrow Ave.  
Corner Brook, NL A2H 7V6  
mike@gormanengineering.ca

**Appendix C - Completion Report**

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

Date: JULY 22, 2019

File No: 526  
Permit No: ALT10523-2019

Permit Holder: Town of Deer Lake  
34 Reid's Lane  
Deer Lake, NL, A8A 2A2

Attention: Maxine Hayden

Re: Town of Deer Lake (Humber River) - River bank protection works

Permission was given for : the construction of approximately 200 metres river bank protection works at Pine Tree Drive between the coordinates of (49.186304N, 57.445181W) and (49.185288N, 57.443129W) in the designated flood plain of the Town of Deer Lake with approximately 13,500 cubic-metre of armour stone to stabilize the riverbank to prevent further erosion and possible catastrophic failure of municipal water and sewer services, and roadway as shown on the location map in Appendix D, with reference to the application dated June 20, 2019 and additional information received on July 18 and 19, 2019.

*I (the Permit Holder named above or agent authorized to represent the Permit Holder) do hereby certify that the project described above was completed in accordance with the plans and specifications submitted to the Department of Municipal Affairs and Environment and that the work was carried out in strict compliance with the terms and conditions of the Permit issued for this project.*

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

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

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

