

PERMIT TO CONSTRUCT A NON-DOMESTIC WELL

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 58

Date: **MARCH 02, 2017**

File No: **NDOM17-007**
Permit No: **GW9075-2017**

Permit Holder: **Town of Stephenville
P.O. Box 420
Stephenville NL A2N 2Z5**

Attention: **Mike Campbell**

Re: **Town of Stephenville - Well #2 repairs, Stephenville**

Permission is hereby given for : **Municipal Well #2 repairs**

- 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*.
- Failure to comply with the terms and conditions 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.




MINISTER

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Municipal Affairs and Environment

File No: NDOM17-007
Permit No: GW9075-2017

APPENDIX A
Terms and Conditions for Permit

Special Conditions

1. This permit allows for the installation/alteration of the Town of Stephenville's municipal well #2 including:
 - Remove existing concrete chamber
 - Excavate and realign well casing
 - Extend the well casing to 600mm above the finish grade
 - Slope the finish grade elevation away from wellhead

Non-Domestic (General)

2. A Completion Report must be provided to this department within 30 days after well construction is complete.
3. This permit is valid for one (1) year from the date of issuance.
4. The well owner is responsible for compliance with this permit.
5. Pesticides, herbicides and fertilizers must not be used within a 100 metre radius of the wellhead.

Non-Domestic (Construction)

6. Water disinfected by a National Sanitation Foundation (NSF) certified chlorine product must be used for the alteration/construction and clean up operations.

Non-Domestic-Finished Wellhead

7. The area immediately surrounding the well must be sloped away from the well and grass covered to a minimum distance of 5 metres in all directions.
8. The wellhead must be completed to a minimum height of 0.6 metres above finished grade.
9. The wellhead must be completed with a double vented (screened) metal vermin-proof well cap with electrical access through the well cap.
10. Water supply from the well must utilize a pitless adaptor installed below the frost line.
11. There must be no holes, slots, or other openings made in the well casing except for the installation of a properly sealed pitless adapter.
12. If an electrical ground wire or other such attachment to the well casing is necessary, it must be attached to a steel anchor that has been welded to the outside of the well casing.
13. If a well pump is to be suspended, it must be done utilizing a stainless steel cable attached to an industry approved well hanger inside the wellhead.

14. The well casing and finished wellhead must be sealed (water tight) except for the screened vent.
15. If finished outside, the wellhead must not be enclosed in a protective enclosure, finished below ground level, in a concrete pit, or any other such enclosure unless the method of enclosure is approved by this department.
16. The well must not be located inside, under, or too close to a building unless provision is made in the construction of the building to allow access to the well for cleaning, treatment, repair, testing and inspection of the well.
17. A wellhead located inside a building must be finished in the same manner as an outside well, i.e., to a minimum height of 0.6 metres above floor level, utilizing a pitless adaptor (installed above floor level), and utilizing a double vented screened vermin proof well cap.
18. For public water supply wells, a permanent sampling port must be located in the discharge from the well, before chlorination and/or treatment is applied, for the purpose of source water quality monitoring.

Non-Domestic (Water Quality)

19. After the well alteration has been completed, a bacteriological water sample must be collected from the well before chlorination and/or treatment is applied, utilizing proper sampling protocol, and submitted to the Service NL for analysis between 10-15 days after well disinfection. As a part of the completion report, a copy of the bacteriological results must be submitted to this department.
20. The completed well must not be utilized as a source water supply until all required water quality analytical results have been received and approved by this department.
21. A take-off valve is required in the discharge from the well, located before chlorination and/or treatment is applied, for the purpose on water quality monitoring.
22. A permanent sampling port is also recommended in the discharge from chlorination or other treatment device for the purpose of measuring effectiveness of treatment.

Non-Domestic (Abandonment)

23. If the completed well can not meet its intended purpose as stated in the application, or if it has no further use at any time after it has been drilled or in service, for any reason including poor water quality or insufficient yield, the well must be sealed as per the Water Resources Management Division document Guidelines for Sealing Groundwater Wells, available on our web site at www.env.gov.nl.ca/env/waterres/.

Non-Domestic (Completion)

24. The signed completion report must include: all completed Drilled Water Well Records for each water well or borehole constructed; aquifer pumping test results (including calculations); water quality results; and any other reports related to the construction or abandonment of water wells or boreholes.
25. All non-domestic wells and boreholes are subject to inspections to ensure compliance with the terms and conditions of this permit. Upon completion of the inspection, a wellhead inspection report will be sent to the well owner.

Development in WPWSA

26. All persons working on this project must be informed that they are within a Wellhead Protected Water Supply Area and must be made aware of all conditions of this Permit. A copy of this Permit must be on site during construction.
27. All equipment must be in good working order with no leaking fuel or oil. Refueling of heavy equipment is not allowed on site.

28. Any spills of gasoline, fuel or oil, regardless of volume, must be reported immediately to the Environmental Scientist at (709) 729-1671. Furthermore, all spills in excess of 70 litres shall be reported immediately to the 24 hour spill report line at (709) 772-2083 (call collect) or 1-800-563-9089.
29. All operations must be carried out in a manner that minimizes damage to land, vegetation and water courses, and which prevents pollution of water bodies. Please note that groundwater aquifers are considered water bodies.
30. The use of treated wood, including the use of treated utility poles, is limited to wood protected by copper azole preservative.
31. During construction and after the project is complete, the use and/or storage of fertilizers, pesticides, herbicides, petroleum solvents, chlorinated solvents, and preservatives is limited or restricted. Please contact the Environmental Scientist at (709)729-1671 for more information.
32. The parking, storage, and maintenance of heavy equipment is prohibited.
33. Equipment storage and maintenance facilities associated with this project must not be located within the Wellhead Protected Water Supply Area, and all maintenance other than emergency repairs must be performed outside the Wellhead Protected Water Supply Area.
34. Fuel/gasoline storage is limited to one 23 litre (5 Imperial gallon) approved container during both the construction and occupation period of the property. Furthermore, every precaution shall be made to prevent spills, leaks, or other discharges while filling from the container.
35. Officials of the Department of Municipal Affairs and Environment and the appropriate Municipal Authority, Operator, or Wellhead Protection Committee may visit the site from time to time to ensure compliance with this Permit.
36. Any areas adversely affected by this project must be restored to a state that resembles the local natural conditions or must be grass covered. Further remedial measures to mitigate environmental impacts on water resources can and will be specified, if necessary in the opinion of the Department of Municipal Affairs and Environment.
37. Any changes in the Town of Stephenville Wellhead Protected Water Supply water quality resulting directly from this project, rendering the water unsuitable as a public water supply, are the responsibility of the proponent. The Minister may order the proponent to provide an alternate source of potable water to the affected community until water quality returns to an acceptable level.
38. A water quality monitoring program is not required at this time. However, the Department of Municipal Affairs and Environment reserves the right to require that the proponent sample, analyze, and submit results of water quality tests, for the purpose of ensuring that the water quality of the surrounding aquifer(s), is maintained within acceptable guidelines. All analyses must be undertaken by a C.A.E.A.L. accredited laboratory.
39. Any significant changes in the permitted operations, developments or activities other than those specified in the application must be submitted in writing to the Department of Municipal Affairs and Environment, and permitted in the form of an Amendment to this Permit, before they are undertaken.
40. Renewal of this permit shall require the submission of a written application, on the prescribed form, to the Department of Municipal Affairs and Environment, and is subject to review by this Department and the appropriate Municipal Authority, Operator or Wellhead Protection Committee.

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Municipal Affairs and Environment

File No: NDOM17-007
Permit No: GW9075-2017

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 and/or Ministerial orders and guidelines, as determined by this Department, the Minister may, after providing ten (10) day notice to the Permit Holder, 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: NDOM17-007
Permit No: GW9075-2017

cc: File Copy for Binder



Government of Newfoundland and Labrador
Department of Municipal Affairs and Environment
Water Resources Management Division

Appendix C - Completion Report

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 58

Date: **MARCH 02, 2017**

File No: **NDQM17-007**

Permit No: **GW9075-2017**

Permit Holder: **Town of Stephenville
P.O. Box 420
Stephenville NL A2N 2Z5**

Attention: **Mike Campbell**

Re: **Town of Stephenville - Well #2 repairs, Stephenville**

Permission was given for : **Municipal Well #2 repairs**

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