

**PERMIT TO CONSTRUCT A NON-DOMESTIC WELL**

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

Date: **MAY 24, 2016**

File No: **NDOM16-007**  
Permit No: **GW8664-2016**

Permit Holder: **Town of Holyrood  
PO Box 100  
Holyrood NL A0A 2R0**

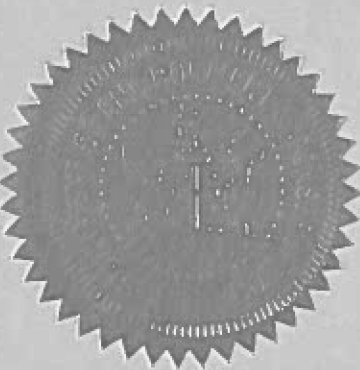
Attention: **Mr. Gary Corbett, CAO**

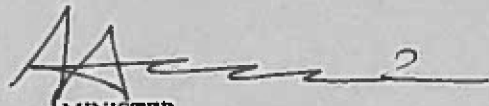
Re: **Town of Holyrood - Municipal wellhead alteration on wells 1 and 3, Holyrood**

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Permission is hereby given for : **Holyrood municipal wellhead improvements and upgrading on wells 1 and 3.**

- 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 Conservation 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 Environment and Conservation

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

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**Special Conditions**

1. This permit allows for the installation/alteration of:

- New heavy duty watertight aluminum well cap and neoprene cap gasket.
- New stainless steel pulling cable attachment hook welded to inside of pitless unit.
- New pitless adapter.
- New 100mm restrained joint EBAA iron megaflange or approved equivalent.
- Weld new casing to existing.
- New class 150 welded slip-on steel flange.
- New 100mm Ø 304 stainless steel schedule 40 pipe nipple NPT x Flange.
- New 100mm Ø 305 cement lined D. I. water line to water treatment building.
- New 80mm Ø 304 stainless steel male threaded connection supplied integral with pitless adapter.
- New finished grade.
- New 200mm steel casing.
- New 80mm Ø 304 stainless steel 'CERTA-LOK' male x male thread drop pipe adapter.
- Typical 80mm Ø 'Certainteed CERTA-LOK' restrained joint, non-permanent pipe riser connection. Provide new connections as required for connection to 80mm Ø x 100mm Ø pitless adapter.
- New stainless steel 75mm x 100mm, class 150, threaded coupling.
- New endress + houser waterpilot FMX 16\_7 hydrostatic level sensor.
- New 38mm square unistrut bracket welded to well casing for electrical disconnect.

**Wellhead PWSA**

2. 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.

**Non-Domestic (General)**

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

**Non-Domestic (Construction)**

7. 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**

8. 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.
9. The wellhead must be completed to a minimum height of 0.6 metres above finished grade.
10. The wellhead must be completed with a double vented (screened) metal vermin-proof well cap with electrical access through the well cap.
11. Water supply from the well must utilize a pitless adaptor installed below the frost line.
12. There must be no holes, slots, or other openings made in the well casing except for the installation of a properly sealed pitless adapter.
13. 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.
14. 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.
15. The well casing and finished wellhead must be sealed (water tight) except for the screened vent.
16. 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.
17. 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.
18. 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.
19. 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)**

20. 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 Department of Government Services 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.
21. 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.
22. 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.
23. 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)**

24. 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/](http://www.env.gov.nl.ca/env/waterres/).

**Non-Domestic (Completion)**

25. 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.
  
26. 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.

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR  
Department of Environment and Conservation

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**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 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: NDOM16-007  
Permit No: GW8664-2016

cc: Groundwater Section File Copy



Government of Newfoundland and Labrador  
Department of Environment and Conservation  
Water Resources Management Division

### Appendix C - Completion Report

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

Date: **MAY 24, 2016**

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PO Box 100  
Holyrood NL A0A 2R0**

Attention: **Mr. Gary Corbett, CAO**

Re: **Town of Holyrood - Municipal wellhead alteration on wells 1 and 3, Holyrood**

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Permission was given for : **Holyrood municipal wellhead improvements and upgrading on wells 1 and 3.**

*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 Environment and Conservation 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 Environment and Conservation  
Water Resources Management Division  
PO Box 8700  
St. John's NL A1B 4J6