



August 9, 2024

Town of Radisson
PO Box 69
RADISSON SK S0K 3L0

Attention: Mayor and Council

**Re: Permit for Construction – Wastewater Treatment Lagoon Upgrade Phase 1
Permit No. 00078039-00-00;**

Enclosed is a Permit for Construction of Waterworks or Sewage Works. The Water and Wastewater Unit of the Water Security Agency issues this permit on behalf of the Minister under the authority of *The Environmental Management and Protection Act, 2010* (EMPA) to the Town of Radisson. This Permit (permit No. 00078039-00-00) is attached for your information and review. It is the responsibility of the Town of Radisson to follow the requirements set out in the attached permit and all referenced design standards and guideline documents. Failure to comply with any of the permit conditions may lead to the suspension or cancellation of this permit, or other appropriate enforcement action. Please note, this project may require permits from other divisions of the Water Security Agency or from other agencies or regulators before construction may commence.

The upgraded wastewater treatment lagoon will only provide **150** days of storage rather than the minimum storage requirement of **220** days. The WSA and the Town have agreed to proceed with this design with the understanding that this work will be the first phase of upgrades to the wastewater treatment lagoon. The Town will work with the WSA to develop a plan to address the inadequate storage capacity.

You must contact your Environment Office (EO) **prior** to commencing construction. Upon completion of construction, you must notify the EO of completion, and submit “**as-constructed**” drawings. For new treatment works, operation and maintenance manuals must be submitted to the EO as well. Please contact your Environment Officer (EO), Bruce Dahl, if you have any questions on disinfection or commissioning requirements. They may be contacted by phone at (306) 230-3184, or by email at Bruce.Dahl@wsask.ca.

If you have any questions regarding the Permit for Construction of Waterworks or Sewage Works, or any other related matters, please feel free to call me at (306) 551-7668 or email the Water & Wastewater Unit at WSA.EngineeringandApprovals@wsask.ca.

This permit expires on the 9th day of August 2027 unless cancelled or suspended before that date.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Hay'.

Justin Hay, P. Eng.
Manager – Water & Wastewater
Science and Licensing Division
Water Security Agency

cc: Nyamaa Jalbuu, Pinter & Associates, Saskatoon
Bruce Dahl, Water Security Agency, Saskatoon



Permit for Construction of Waterworks or Sewage Works

Science and Licensing Division

**Issued pursuant to Section 27 of
*The Environmental Management and Protection Act, 2010***

**Permit No.
00078039-00-00**

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File: 21050-50/WWW/Con/Mun/Radisson

To: Town of Radisson (Permittee).

PURSUANT to section 27(2)(a) of *The Environmental Management and Protection Act, 2010*, a permit for construction of works located at ISC Parcel Number 150828420 in SW-21-40-10-W3M is issued in accordance with the attached Terms and Conditions. This permit allows for the installation of a new 24,000 m³ storage cell, and all related appurtenances.

This Permit takes effect on the 9th day of August 2024.

This Permit expires on the 9th day of August 2027, unless cancelled or suspended before that date.

Issued for and on behalf of the Water Security Agency:

A handwritten signature in blue ink, appearing to read 'J-Hay'.

Justin Hay, P. Eng.
Manager – Water & Wastewater
Science and Licensing Division
Water Security Agency

Terms and Conditions

Section One: Definitions

- 1.1 All words and phrases have the same definitions as set out in *The Environmental Management and Protection Act, 2010*, and *The Waterworks and Sewage Works Regulations*, as the case may be.
- 1.2 In this Permit:
- (a) "Act" means *The Environmental Management and Protection Act, 2010*;
 - (b) "Regulations" means *The Waterworks and Sewage Works Regulations*;
 - (c) "Science & Licensing Division" means the Science & Licensing Division of the Water Security Agency;
 - (d) "Approvals Engineer" refers to the Approvals Engineer or Drinking Water Engineer of the Science & Licensing Division; and
 - (e) "Environment Officer" refers to the Environment Officer for the corresponding geographical administration area of the Science & Licensing Division.

Section Two: Construction

- 2.1 A copy of this cover letter and permit must be given to the person(s) supervising those performing the construction work, such as the contractor or employee.
- 2.2 Prior to commencing construction, the Permittee shall notify the Environment Officer.
- 2.3 The construction of the approved works for the Town of Radisson is to be completed in accordance with information provided to the Water Security Agency between August 7, 2024, and August 9, 2024, including:
- (a) "Application for Permit for Construction of Waterworks or Sewage Works" dated July 30, 2024;
 - (b) The design brief titled "Town of Radisson Wastewater Treatment Lagoon Upgrade" dated August 7, 2024;
 - (c) Issued for Construction drawings titled "Town of Radisson Wastewater Lagoon Upgrades" prepared by Pinter & Associates, dated August 7, 2024;
 - (d) Geotechnical Report titled "Proposed Sewage Lagoon Expansion and Sewage Lift Station" dated October 30, 2009; and
 - (e) Any other application correspondence or information relating to this project which were received by the Water Security Agency.
- 2.4 There shall be no changes to or deviations from the approved application materials without the prior written consent of the Water Security Agency. Any proposed change or deviation shall be submitted in writing to the Standards and Approvals Section of the Water Security Agency for approval.
- 2.5 Pressure and leakage testing for all piping, valves and appurtenance shall be completed and passed prior to the operation.
- 2.6 The Permittee shall ensure that there is a hazardous confined space entry plan prepared prior to any worker entering hazardous confined space.
- 2.7 The Permittee shall contact the Environment Officer prior to any planned and/or emergency bypass of the existing lift stations. If an emergency bypass is required, the Environment Officer must be contacted immediately.

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- 2.8 The Permittee shall ensure that no discharge from the lagoon system takes place due to construction without prior approval from the Water Security Agency.
- 2.9 The proposed 600 mm thick clay liner is to limit seepage to no more than 150 mm/year. The clay liner shall be constructed under the supervision of a Professional Engineer licensed to practice in Saskatchewan and shall follow recommendations found in the Geotechnical Report. A minimum of two samples shall be taken from the cell for hydraulic conductivity testing. A post construction report and documentation on QA/QC performed on the lagoon construction along with compaction test results shall be forwarded to the Approvals Engineer with the Water Security Agency within 60 days of completion of the project.
- 2.10 The Permittee shall develop and implement a groundwater monitoring program for the sewage treatment facility. This plan is to be approved by the Environment Officer. The groundwater monitoring wells shall be installed, and initial groundwater characterization shall be determined prior to the operation of the upgraded sewage lagoon. Installation shall be in accordance with the Water Security Agency document *WQ117 Protocols for the Installation and Sampling of Monitoring Wells*. The minimum number of wells to be installed is three (3); however, more wells may be required, depending on the Groundwater Monitoring plan. Ongoing monitoring will be required as shown in the Permit to Operate a Sewage Works.
- 2.11 All land access and control agreements, easements, etc. shall be acquired by the Permittee prior to the commencement of any construction and on-going maintenance of the installed works.
- 2.12 The Permittee shall submit a post-construction report to the Water Security Agency within 60 days of the completion of the project.
- 2.13 The permitted works shall be in accordance with the Water Security Agency EPB 503 "Sewage Works Design Standard."
- 2.14 Upon completion of construction, the Permittee shall:
- (a) notify the Environment Officer; and
 - (b) submit "as-constructed" drawings to the Approvals Engineer within 60 days of project commissioning; and
 - (c) submit operation and maintenance manuals for new upgrades to the Environment Officer within 30 days of project commissioning.

Section Three: General

- 3.1 This Permit takes effect on the date shown on the Permit.
- 3.2 The Permittee shall complete construction of the works in accordance with the Permit by the date shown on the Permit.
- 3.3 If the Permittee is unable to complete the construction by the expiry date shown on the Permit, the Permittee shall advise the Approvals Engineer in writing, not less than thirty (30) days prior to the Permit expiry date, stating the reasons for non-completion and requesting an extension of the Permit.
- 3.4 Copies of our EPB documents can be found online at:
<https://publications.saskatchewan.ca/#/categories/5426>.

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- 3.5 **This project may require permits from other divisions of the Water Security Agency or from other agencies or regulators before construction may commence.** The issuance of a Permit for Construction indicates only that a project meets the construction requirements set out in *The Waterworks and Sewage Works Regulations*, and the applicable Water Security Agency construction guidelines (found at the link above). The project must meet the requirements set out in other relevant acts, regulations, and codes, such as The National Building Code of Canada, Canadian Electric Code, etc. Please note that our review is not a detailed engineering review of the application.
- 3.6 This Permit is not an authorization or approval to operate the works without first obtaining a separate permit to do so in accordance with the Act and Regulations.
- 3.7 This Permit does not replace or supersede any approvals, licenses or authorizations that may be required from municipal, provincial, or federal legislation. The Permittee will maintain in force all such approvals, licenses or authorizations that may be required.
- 3.8 This approval is subject to cancellation, alteration or suspension as provided by the Act.
- 3.9 Where any notice or reporting is required to be given by the Permittee, it shall be provided to:
- (a) in the case of the Approvals Engineer:
 - Science & Licensing Division
 - Water Security Agency
 - Park Plaza
 - 300 - 2365 Albert Street
 - REGINA SK S4P 4K1
 - Telephone: (306) 787-0726
 - Fax: (306) 787-0780
 - (b) in the case of the Environment Officer:
 - Science & Licensing Division
 - Water Security Agency
 - 10 – 3904 Millar Ave.
 - SASKATOON SK S7P 0B1
 - Phone: (306) 230-3184
 - Fax: (306) 933-6820