

Permit to Operate a Hygienic Waterworks

Altered pursuant to section 28(1)(h) of *The Environmental Management and Protection Act, 2010*

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Permit No.: 00002543-13-00

ISSUED TO **The Ministry of Government Relations (the permittee)**, the person responsible for a waterworks that is used to provide water intended for hygienic use to the Northern Settlement of Uranium City. The permittee shall ensure that the water supplied by this waterworks is safe for hygienic use. This waterworks is located in Northern Settlement of Uranium City and at the water treatment works located at ISC – Blk/Par S-Plan 81B13033 Ext 0, in the Province of Saskatchewan.

PURSUANT to section 28(1)(h) of *The Environmental Management and Protection Act, 2010*, the Permit to Operate a Hygienic Waterworks No. 00002543-13-00 issued to the permittee on March 31, 2025, whose waterworks is located in Northern Settlement of Uranium City and at the water treatment works located at ISC – Blk/Par S-Plan 81B13033 Ext 0, in the Province of Saskatchewan, is hereby altered and amended, subject to the terms and conditions attached to this permit.

This permit takes effect on the 29th day of December, 2025.

This permit expires on the 31st day of December, 2045, unless cancelled or suspended before that date.

Issued



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Environment Officer
Water Security Agency

* This digital signature affixed to the permit is legally binding and is considered a sufficient electronic signature as required under *The Electronic Information and Documents Act, 2000*. The original copy is retained by the Water Security Agency and shall be considered the official record

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*, or *The Waterworks and Sewage Works Regulations*, as the case may be.
- 1.2 In the permit:
- (a) “Act” means *The Environmental Management and Protection Act, 2010*;
 - (b) “Regulations” means *The Waterworks and Sewage Works Regulations*;
 - (c) “Water Security Agency” means the delegated ministerial authority pursuant to the Act and the Regulations;
 - (d) “Environment officer” has the same meaning as defined in the Act;
 - (e) “Accredited laboratory” means a laboratory accredited pursuant to the requirements of the Canadian Association for Laboratory Accreditation in accordance with the parameters for which the laboratory has been accredited;
 - (f) “Positive bacteriological result” means a test result showing the presence of total coliforms, *Escherichia coli*, or 200 or more organisms per 100 milliliters as an overgrowth of background bacteria;
 - (g) “Hygienic use” means a use of water for hygienic purposes by humans, including the following uses and applications:
 - i. bathing and personal hygiene, but not including swimming; and
 - ii. showering;but does not include a human consumptive use;
 - (h) “Water Rights License” is a water rights license issued pursuant to section 50 of *The Water Security Agency Act*; and
 - (i) “Approval to Operate Works” is an approval to operate a raw water surface water/groundwater supply works that is issued pursuant to section 59 of *The Water Security Agency Act*.

Section Two: Alternative Supply of Safe Drinking Water

- 2.1 The permittee shall provide an alternate source of safe drinking water, which is suitable and safe for human consumption, to the consumers served by the hygienic waterworks.
- 2.2 Where the alternate source of safe drinking water is a centralized treated drinking water dispenser, the permittee shall provide the Water Security Agency with an annual report on the status of the operation and maintenance of the treatment device.

Section Three: Operation

- 3.1 The permittee shall comply with the Act and the Regulations, and the terms and conditions of this permit.
- 3.2 In the event of an inconsistency between the Act and this permit, or the Regulations and this permit, the more stringent requirement shall apply.
- 3.3 The permittee shall have a valid Water Rights License and a valid Approval to Operate Works issued pursuant to *The Water Security Agency Act*.
- 3.4 The permittee shall not alter the waterworks without approval from the Water Security Agency.
- 3.5 Where all or part of a distribution system is altered or repaired, the permittee shall after completion of the alteration or repair to the waterworks:
- (a) disinfect the portion of the distribution system that is altered or repaired, in accordance with the American Water Works Association Standard C651 *Disinfecting Water Mains*, or a standard that would offer an equivalent or greater level of protection of human health, before the commencement of its use; and
 - (b) take water samples from the distribution system that has been altered or repaired, and have the samples analyzed for the presence of bacteria.

Section Four: Sampling, Monitoring and Water Quality

- 4.1 The permittee shall cause water samples to be taken from the waterworks to test for bacteria and chlorine residuals, at the locations, times and frequencies set out in Appendix A.
- 4.2 The permittee shall ensure that the water provided to consumers does not exceed the bacterial limits set out in Appendix B. The permittee shall cause to be maintained the chlorine residuals as set out in Appendix B.

- 4.3 Subject to 4.4, the permittee shall have water samples analyzed by an accredited laboratory in accordance with the *Regulations*.
- 4.4 The permittee may perform water sampling and on-site analysis for the parameters indicated for “on-site testing” in Appendix A.
- 4.5 The permittee shall take water samples in accordance with the instructions provided by the institution or laboratory that provides the sampling bottles or containers.
- 4.6 The permittee shall ensure that all water quality monitoring and testing equipment is maintained and calibrated on a frequency as recommended by the manufacturer.

Section Five: Recordkeeping

- 5.1 The permittee shall maintain records containing the following information:
 - (a) total water pumped into the distribution system on a daily basis or the total raw water used;
 - (b) the types, dosages and total amounts of chemicals applied to the water for treatment;
 - (c) the locations from which samples for any tests conducted by the permittee of the waterworks were taken in accordance with this permit and the name of the person who conducted the sampling or testing and the results of those tests;
 - (d) any departures from normal operating procedures that may have occurred and the time and date that they occurred;
 - (e) any instructions that were given during operation of the waterworks to depart from normal operating practices and the name of the person who gave the instructions;
 - (f) any upset condition or bypass condition, the time and date of the upset condition or bypass condition and measures taken to notify others and resolve the upset condition or bypass condition;
 - (g) any condition of low disinfectant levels, the time, date and location of occurrence and measures taken to restore disinfectant levels to required values;
 - (h) the dates and results of calibrating any metering equipment and testing instruments; and
 - (i) the dates and types of maintenance performed on equipment and any actions taken to ensure the normal operation of the waterworks.
- 5.2 The permittee shall cause the operational records or logs mentioned in 5.1 to be recorded and maintained in the following manner:
 - (a) operational records or logs must be made in chronological order, with the dates, times and testing locations clearly indicated;
 - (b) entries in an operational record or log must only be made by the permittee, which includes by definition any principal or agent of a permittee;
 - (c) any person making an entry in an operational record or log must do so in a manner that allows the person to be unambiguously identified as the maker of the entry;
 - (d) operational records or logs must be maintained on a daily basis and retained for at least five years;
 - (e) any anomalies or instances of missing entries in an operational record or log must be accompanied by explanatory notes;
 - (f) operational records or logs must only contain data or information that is actually observed or produced;
 - (g) operational records or logs must not contain default values generated manually or by automated means; and
 - (h) operational records or logs maintained pursuant to clause (d) must be made available promptly on request of the Water Security Agency.
- 5.3 The permittee shall review the records and logs mentioned in 5.1 on a monthly basis to ensure that the operating parameters are being achieved and that the limits set out in Appendix B are not exceeded.
- 5.4 The permittee shall report the findings to the Water Security Agency as soon as is reasonably practicable after each review required by 5.3 should the reviews of the records and logs indicate that the quality of water from the waterworks has been adversely affected that any upset condition, bypass condition or event at the waterworks has not been reported, or that on-site water quality testing records are missing.

Section Six: Reporting and Consumer Reporting

- 6.1 The permittee shall submit the results of water sampling analysis performed in accordance with this permit to the Water Security Agency:
 - (a) in the case of a positive bacteriological result, within 24 hours following completion of the sampling analysis.

- 6.2 The permittee shall direct the laboratory performing its water sampling analysis to submit the results within the timeframes mentioned in 5.1 directly to the Water Security Agency, in a format in accordance with EPB 383 Water Security Agency and Ministry of Environment - Environmental Management System (SEEMS) Lab-Operator (LAB-OPR) Data File Format, in addition to submitting the written results to the permittee.
- 6.3 The permittee shall report to the Water Security Agency any known or anticipated upset condition, bypass condition or event at or affecting a waterworks that could adversely affect the quality of water produced by the waterworks.
- 6.4 The permittee shall immediately report to the Water Security Agency any instance where:
- (a) disinfection equipment fails;
 - (b) the level of disinfection identified in Appendix B is not achieved or is not anticipated to be achieved;
 - (c) any other parameter level identified in Appendix B is not achieved or is not anticipated to be achieved;
 - (d) there is a retirement, suspension, resignation, scheduled absence or termination of employment of any waterworks distribution or waterworks treatment operator, or any anticipated retirement, suspension, resignation or termination; and
 - (e) a system depressurization has occurred.
- 6.5 The permittee shall instruct its employees, agents and contractors performing work or service in relation to the waterworks of their obligation under section 34(1) of the *Regulations* and to report to the Water Security Agency any instance described in 6.4 and any known or anticipated upset condition, bypass condition or event at or affecting a waterworks that could adversely affect the quality of water produced by the waterworks.
- 6.6 The permittee shall, as soon as reasonably practical, report any of the events mentioned in 6.3 or 6.4 to the Water Security Agency.
- 6.7 The permittee shall, once per calendar year, provide the consumers supplied by the waterworks with a notification of:
- (a) the quality of water produced or supplied by the waterworks in comparison with the levels set out in this permit; and
 - (b) the permittee's compliance with sample submission requirements described in this permit.
- 6.8 Within 30 days after providing the consumer notification required by 6.7, the permittee shall provide a written copy of the notification to the Water Security Agency.
- 6.9 The permittee shall maintain records for all parameters that are specified to be tested "on-site" as indicated in Appendix A and make them available to the Water Security Agency upon request. For all other parameters, the permittee shall ensure that reporting is conducted in accordance with section 37 of the *Regulations*.
- 6.10 The permittee shall ensure that:
- (a) at least twice every year, the owner of every service connection is notified, in writing, respecting the restrictions on water use for the hygienic system;
 - (b) at least once every year, the owner of every service connection is supplied with self-adhesive advisory labels that:
 - (i) are acceptable to the Water Security Agency; and
 - (ii) are to be attached adjacent to taps within the structure so as to advise users that the water is not safe for human consumptive use;
 - (c) the waterworks, standpipes, fill pipes and other publicly accessible water sources found on the distribution system are continuously posted with a notice that the water is not safe for human consumptive use; and
 - (d) the Water Security Agency is advised at least once each year as to all measures taken to advise users that the water is not safe for human consumption.

Section Seven: Inspection

- 7.1 An environment officer may enter the waterworks at any time to conduct an inspection to ensure that the permittee is complying with this permit, the *Act* or the *Regulations*.
- 7.2 Upon the request of an environment officer, the permittee shall immediately provide any books, records, logs, graphs, papers, documents, or data, including any computer, digital or electronic records, logs, graphs, files or data maintained with respect to the waterworks.

Section Eight: General

- 8.1 A copy of this permit shall be posted in a conspicuous place at the waterworks.

- 8.2 The permittee shall provide each operator of the waterworks with a copy of this permit and the *Regulations*.
- 8.3 The Water Security Agency may cancel, alter or suspend this permit for the reasons and in the manner set out in the *Act*.
- 8.4 The permittee shall apply for renewal/alteration of this permit at least 60 days prior to its expiry.
- 8.5 In the event of any inconsistency between a previously issued Permit to Operate a Waterworks or Permit to Operate a Hygienic Waterworks, and the terms and conditions of this Permit to Operate a Hygienic Waterworks, the terms and conditions of this permit prevail.
- 8.6 This permit does not replace or supersede any approvals, licenses or authorizations that may be required due to municipal, provincial or federal legislation. The permittee shall maintain in force any and all such approvals, licenses or authorizations that may be required.
- 8.7 Where any notice or reporting is required to be given by the permittee, it shall be provided to:

Water Security Agency
Water Security Agency
Neil Hodges
Suite 601 – 800 Central Ave
Prince Albert SK S6V 6G1
Telephone: 306.960.6290
Email: Neil.Hodges@wsask.ca

After hours, weekends and holidays, the Water Security Agency can be contacted by calling the Upset Report Line at 1.844.536.9494.

Appendix A

**Permit to Operate a Hygienic Waterworks
Monitoring Schedule
Permit No.: 00002543-13-00**

Parameter(s)	Station Number	Testing Required	Limit ¹ Applied	Treated Water Sampling Locations and Minimum Sampling Frequency
		Yes	Yes	
1. Bacteriological Total Coliform <i>Escherichia Coli</i>	SK07MC0001	X	X	Twice (2) every month from representative locations in the distribution system. Samples must be collected at least 14 days apart. Repeat and Special samples resulting from follow-up to a contaminated regular sample, and "Other" samples are not considered as regular sample submissions.
	SK07MCXXXX	X	X	Once (1) every month from the central alternate water supply system. Samples must be collected at least 14 days apart.
2. Chlorine Residual (on-site testing)	N/A	X	X	At least once (1) per day for free residual in the water entering the distribution system; AND at the same frequency and locations as for bacteriological sampling, for free and total residuals.

¹ Limits for identified parameters are provided in Appendix B.

Appendix B

Permit to Operate a Hygienic Waterworks

Permit Limits

Permit No.: 00002543-13-00

The following Water Quality limits apply where identified in Appendix A.

Bacteriological:

Accredited laboratory may use method 9222 or 9223 as per *Standard Methods for the Examination of Water and Wastewater, 22nd edition, 2012*, to comply with the following limits:

- (a) total coliform levels of zero organisms detectable per 100 millilitres;
- (b) *Escherichia coli* levels of zero organisms detectable per 100 millilitres; and
- (c) background bacteria levels of less than 200 organisms per 100 millilitres or no overgrowth.

Chlorine Residual

- (a) free residual of not less than 0.1 milligrams per litre in the water entering a distribution system; and
- (b) a total chlorine residual of not less than 0.5 milligrams per litre or a free chlorine residual of not less than 0.1 milligrams per litre in the water throughout the distribution system.