



What's New and What's the Same Comparing *The Waterworks and Sewage Works Regulations* & *The Water Regulations, 2002*

This document is intended to provide an abbreviated overview of the primary changes that have been incorporated into *The Waterworks and Sewage Works Regulations* from the previous *The Water Regulations 2002* and is not meant to replace reference to the actual regulation. **Red font is used to help identify notable new features of *The Waterworks and Sewage Works Regulations*.** Please refer to *The Waterworks and Sewage Works Regulations* or the Water Security Agency for any question on requirements or legal interpretation.

Title – Section 1

The *Waterworks and Sewage Works Regulations* replace *The Water Regulations, 2002*. These regulations will focus on waterworks and sewage works only. Shoreline alteration and industrial works provisions have been removed to other regulations (*The Environmental Management and Protection General Regulations*).

Definitions – Section 2

Removed references to 'industrial effluent works' as the requirements for management of effluents discharged from Industrial Effluent Works (now Industrial Waste Works under EMPA, 2010) to water will be managed through the Saskatchewan Environmental Code or the EMPA General Regulations, or directly via permits.

Minor clarifications made to definitions for;

- "collection system", "design flow", "drinking water", "permittee", "pump house", "surface water treatment plant", and "water pipeline".

"Mechanical Treatment Facility" revised to clarify that it "does not include facilities employing only non-aerated lagoons".

"Person" definition expanded to better align with accepted definitions for added clarity.

"Surface water treatment plant" revised to provide clarity that surface water treatment plants include water plants that treat source water derived from groundwater under the direct influence of surface water.

New Definitions added for:

- “CBOD₅” added to facilitate application of the Canada-Wide Strategy for Municipal Waste Water Effluents.
- “Regional Sewage Works” as these are a new type of sewage works being developed in the province, not owned by a municipality, but handling sewage.
- “Sewage Treatment Facility” to capture the treatment portion of a sewage works.
- “Table” added to the Tables used in the Appendix of the *Waterworks and Sewage Works Regulations*.

Interpretation of “person responsible for a waterworks or sewage works” - Section 3

- Simplified and clarified the definition by taking out reference to various parties in relation to the permittee as these are assumed in the definition.

Part II Sewage Works

- This is a new part within the regulation to allow in part for conformance to the new focus of *The Waterworks and Sewage Works Regulations* being on waterworks and sewage works only.

Division 1 General

Interpretation of Part – Section 4

- Simplified and clarified the definition of “permittee” for this part including activities pursuant to section 24 of *The Environmental and Management Protection Act 2010* and as outlined in Table 1 of the Act.

Sewage Works Design Standard – Section 4(b)

- Updated the reference to the latest Sewage Works Design Standard EPB 503.

Designation of Sewage Works – Section 5

- Defines types of sewage works covered by this regulation. Previously *The Water Regulations, 2002* defined in part what was regulated by mentioning what was not directly regulated.
- Includes the **new category of regional sewage works** that are now being constructed in certain areas of the province.

Compliance – Section 6

- Requires permittee to meet the requirements of this Part.

No Interconnection Between Sanitary Sewers and Storm Sewers – Section 7

- No change from previous regulation section 14.

Pumping Stations – Section 8

- Subsection 1 is the condition requiring mechanically forced air ventilation and is applicable to permits.
- Subsection 2 provides additional clarity on the need for backflow prevention on every water outlet that may come in contact with sewage in a sewage works under any conditions.

Division 2 Sewage Treatment Facilities

- New Division

Buffer Zone – Section 10 - New Section

- Defines “buffer zone” and establishes buffer zones as a formal regulatory requirement for all new or expanded facultative lagoons or mechanical treatment facilities. Requirements are set out in Table 1 of these regulations.
- Subsections 3 and 4 allow for certain flexibility in the buffer zone requirements and requires any alternate terms and conditions allowed pursuant to subsection 3 to be incorporated into the permittee’s permit.

Sewage Treatment Facilities – Section 11

- Enhanced effluent requirements to comply with the Canadian Council of Ministers of the Environment, Canada-wide Strategy for Municipal Waste Water Effluents (MWWE) and the federal Wastewater System Effluent Regulations (WSER).
- Subsection 2 contains revised CBOD₅ limit to correspond with MWWE requirements.
- Subsection 3 contains revised effluent quality requirement limits based on whether the sewage treatment facility discharges or will discharge to water frequented by fish in order to comply with MWWE and WSER requirements.

Facultative Lagoons – Section 12

- Outlines facultative lagoon requirements for both existing and new or expanded sewage works.
- References the new Table 2 which outlines Facultative Lagoon Design Requirements and Compliance Dates.
- No change from previous regulations for existing facultative lagoons that do not or will not discharge to fish bearing waters, do not or will not discharge via effluent irrigation and unless otherwise expanded or upgraded.

Report Required re any upset conditions – Section 13

- Upset reporting requirements for sewage works.

- No change from previous regulations (sec 17) with the exception of removing the previous regulations inclusion of industrial effluent works.

Disinfection of effluent – Section 14

- Effluent disinfection requirements for sewage works may be required by permit conditions and continues the requirement to report failure of or anticipated failure of disinfection equipment or the level of disinfection required by permit.
- No change from previous regulations (sec 18) with the exception of removing the previous regulations inclusion of industrial effluent works.

Records re sewage works – Section 15

- No change from previous regulations (sec 19) with the exception of removing the previous regulations inclusion of industrial effluent works.

Part III Waterworks

- This is a new part within the regulation to allow conformance to the new focus of *The Waterworks and Sewage Works Regulations* being on waterworks and sewage works only.

Division 1 General

Interpretation of Part – Section 16

- Simplified and clarified the definition of “permittee” as well as defining “waterworks design standard”.

Application of Part – Section 17

- Replaces former regulation section 20, only minor change is a slight clarification of subsection (d) to water pipelines by including the word, not otherwise “directly” connected.

Designation of Waterworks – Section 18

- Reference number changes only.

Compliance – Section 19

- Requires permittee’ to meet the requirements of this Part.

Division 2 Requirements for Suppliers of Water for Hygienic Use

Requirements for municipal waterworks and wells – Section 20

- No change from old regulations section 22.

Requirements for Other Waterworks – Section 21

- Clarified the intent and application of the regulations concerning pipelines through the addition of the word “directly”.

Division 3 Operation of Facilities Associated with Waterworks

Water Wells – Section 22

- Slight clarification to ensure the integrity of the well components and construction so as to prevent contamination of the source water.

Water Pipes – Section 23

- No change from previous regulation section 26.

Water Storage Reservoirs – Section 24

- **Subsection (2)(c) is a new inclusion for reservoirs** constructed after the coming into force of these regulations. Address’s reservoir draining methods and connections as well as reservoir access.
- **Subsection (4)(a) clarifies the requirements for manhole access covers to all reservoirs.**
- **Subsection (6) adds (c) and (d) provides additional clarification on reservoir construction and venting.**

Water treatment facilities and pump houses – Section 25

- Subsection (c) reworded to provide clarity around backflow prevention devices and the prevention of the flow of sewage into the water treatment facility or pump house under any conditions.
- Subsection (d) clarifies that water metering may be on either raw or treated water flows.

Division 4 Operation of Waterworks

Drinking water guidelines – Section 26

- Adopted and updated the reference to the latest version of the *Guidelines for Canadian Drinking Water Quality*, Summary Table, Health Canada, (August 2012).

Chemical treatment standards for water – Section 27

- Updated reference to the latest version of the National Standards Foundation document “Drinking Water Treatment Chemicals - Health Effects”, NSF/ANSI 60-2011.
- **Subsection (7) allows for the waterworks to provide disinfection by means other than as outlined in subsections (5) - “continuous disinfection by chlorination”, or in subsection (6) – free**

and total chlorine residual requirements; provided that the proposed method provides equivalent or better level of protection than that of chlorine.

- Subsection (8) requires that any changes allowed pursuant to subsection (7) must be included in the permittee's permit.
- Subsection (9) stipulates that where fluoride is added that it shall be maintained at a level of 0.7 mg/l or less.

Standards for constituents in water - new or altered waterworks – Section 28

- Minor wording changes for clarity.

Standards for microbial and bacteriological constituents in water - existing waterworks – Section 29

- Updated reference to the latest version of the Standard Methods for the Examination of Water and Wastewater.
- Subsection (2) requires bacteriological testing to meet specification 9223 from Standard Methods.
- Subsection (3) replaced reference to fecal coliforms with *Escherichia coli*.

Water turbidity standards - water for human consumptive use – Section 30

- Subsection (2)(b) for surface water treatment plants using membrane filtration systems, the compliance level is set to 99% of discrete measurements for each calendar month or if continuous monitoring then 99% of the time for each calendar month, and not to exceed 0.1 NTU for a period greater than 15 minutes; provides consistency with national guidelines.
- Subsection 2(f) allows for increased log removal or in-activations of *Cryptosporidium* and *Giardia* based on detected variations in source water quality and as set out in the permittee's permit conditions. Is meant to allow for response to historically noted elevated site specific *Giardia* and *Cryptosporidium* levels in the source water.

Chemical standards - water for human consumptive use supplied by existing waterworks – Section 31

- Subsection (3) provides a phase in period (July 1, 2020) for compliance with parameters which are new or significantly revised as listed in Table 3. The July 1, 2020 compliance date includes the following parameters, Bromate, Chlorate, Chlorite, Haloacetic Acids, and Microcystin-LR.
- Subsection (4) requires permittee's of waterworks not currently meeting the requirements set out in subsection (3) to provide a compliance plan by July 1, 2017 indicating how they plan to achieve compliance with the July 1, 2020 deadline.

Assessment and audit of water - water for human consumptive use – Section 32

- Minor wording clarifications and section numbering updating to coordinate with these regulations and with EMPA 2010.

Required notices - water for hygienic use – Section 33

- No change from former section 36.

What is required if unusual operational anomalies, etc. – Section 34

- Subsection (2)(c) requires the reporting of missing “on-site water quality testing records”.
- No other changes from previous reporting requirements.

Division 5 Water Samples and Tests

Interpretation of Division – Section 35

- Defines accredited laboratory for Division 5.

Accredited laboratory – Section 36

- Only minor clarification change to subsection (3) in relation to the Water Security Agency.

Testing, test results and notice of test results – Section 37

- Updated reference to the Bacteriological Follow-up Standard. Minor wording changes to conform to EMPA 2010 structure.

Required testing after completion, alteration, extension or repair/Fluoride in drinking water/Operational records to be kept – Sections 38/39/40

- No meaning or operational changes from *The Water Regulations, 2002* section 40/41/42.

Water assurance and quality control policy and record keeping - water for human consumptive use – Section 41

- Subsection (3) clarifies the requirements to report, if the monthly record review indicates that any of the following things have occurred; the quality of water from the waterworks has been adversely affected; any upset condition, bypass condition or event at the waterworks has not been reported in accordance with section 34; on-site water quality testing records are missing.

Annual notice to consumers – Section 42

- No changes from *The Water Regulations, 2002* section 44.

Part IV Certification

Division 1 Interpretation and Application of Part

Interpretation of Part – Section 43

- Related to Part IV Certification, no change from *The Water Regulations, 2002*.

Application of Part – Section 44

- Minor re-wording for clarity, no functional changes.

Division 2 Operator Certification Board; Sections 45 – 58

- No changes from *The Water Regulations, 2002* sections 47 – 60.

Division 3 Standards to be met by Operators to Obtain Certificates

Interpretation of Division – Section 59

- Referenced title of Saskatchewan Water and Wastewater Works Operator Certification Standards, EPB 539

Decision of Board / Classification of facilities / Division 4 Certificates / Minimum certificates that operators must hold / Minimum certificate exemption for certain municipal waterworks Section 60 – 63

- No changes from *The Water Regulations, 2002* sections 61(2)(b) – 63.1(1)
- Section 63(2) outlines reporting required by a permittee who is eligible for the operator certification exemption outlined under section 63(1). This subsection has been **reworded for clarity including an allowance for a required time period within which the permittee must report on the number of consumers to be served by the municipal waterworks or the municipal well that is connected to a distribution system.**

Minimum certificate exemption for certain water pipelines – Section 64

- No changes from *The Water Regulations, 2002* section 63.2.

Minimum certificate exemption for certain municipal sewage works – Section 65

- **Subsection (2) reworded for clarity including an allowance for a required time period within which the permittee must report on the number of consumers to be served by the municipal sewage works.**

Application for certificate or renewal / Board may investigate applicant / Issuance or refusal of certificate / Term of certificate and application to upgrade / Additional information re renewal of certificate / Amendment, cancellation, suspension of certificate Sections 66 - 71

- No changes from *The Water Regulations, 2002* sections 64 – 69, with the exception of the elimination of dates which are no longer applicable due to original phase in periods being passed.

Part V General

Required contents of easements / R.R.S. c.E-10.21 Reg 1 repealed / Coming into force – Sections 72 - 74

- Updated EMPA section references related to easements.
- Coordinates the coming into force of the regulations with EMPA 2010.

Former Water Regulations, 2002 section 72 moved to EMPA, 2010 Section 83 and expanded.

Former Water Regulations, 2002 Section 73 repealed as no longer applicable.

Table: Cross Reference Table equating Section Numbers Between the former *Water Regulations, 2002* and *The Waterworks and Sewage Works Regulations*

<i>The Water Regulations, 2002</i>		<i>The Waterworks and Sewage Works Regulations</i>	
Section Number	Description	Section Number	Description
1	Title	1	Title
2	Interpretation	2	Interpretation
3	Interpretation of "watercourse" and other terms used principally in Division 3 of Part IV of the Act		
4	Interpretation of "person responsible for a waterworks or sewage works"	3	Interpretation of "person responsible for a waterworks or sewage works"
		Part II	Sewage Works
		Division 1	General
2(1)	Interpretation	4	Interpretation of Part
2(1)(x)	"permittee"	4(a)	"permittee"
5(1)(a)	Guidelines adopted	4(b)	"sewage works design standard"
		5	Designation of sewage works
9(3)	Decision respecting permits	6	Compliance
6	Exempt discharges and works		
7	Requirements for applications for permits		
8	Application for permit to alter shoreline, etc.		
9	Decision respecting permits		
10	Notification to minister of completion by permittee of construction, etc., authorized by permit		
11	Amendment, suspension, cancellation of permits		
13	Applications for sewage works permit		
14	No interconnection between sanitary	7	No interconnection between sanitary

<i>The Water Regulations, 2002</i>		<i>The Waterworks and Sewage Works Regulations</i>	
Section Number	Description	Section Number	Description
	sewers and storm sewers		sewers and storm sewers
15	Pumping stations	8	Pumping stations
		Division 2	Sewage Treatment Facilities
None		9	Application of Division
None		10	Buffer Zone
16(2) and (3)	Wastewater treatment facilities	11	Sewage treatment facilities
16(4)		12	Facultative Lagoons
17	Report required re any upset conditions	13	Report required re any upset conditions
18	Disinfection of effluent	14	Disinfection of effluent
19	Required testing of sewage works and industrial effluent works	15	Records re sewage works
		Part III	Waterworks
		Division 1	General
12	Interpretation and compliance	16	Interpretation of Part
20	Application of Part	17	Application of Part
21	Certain works designated as waterworks	18	Designation of waterworks
9(3)	Decision respecting permits	19	Compliance
		Division 2	Requirements for Suppliers of Water for Hygienic Use
22	Requirements for municipal waterworks and wells	20	Requirements for municipal waterworks and wells
23	Requirements for other waterworks	21	Requirements for other waterworks
		Division 3	Operation of Facilities Associated with Waterworks
24	Information and materials for waterworks permits		
25	Water wells	22	Water wells
26	Water pipes	23	Water pipes
27	Water storage reservoirs	24	Water storage reservoirs

<i>The Water Regulations, 2002</i>		<i>The Waterworks and Sewage Works Regulations</i>	
Section Number	Description	Section Number	Description
28	Water treatment facilities and pump houses	25	Water treatment facilities and pump houses
		Division 4	Operation of Waterworks
29	Adoption of drinking water guidelines	26	Drinking water guidelines
30	Chemical treatment standards for water	27	Chemical treatment standards for water
31	Standards for constituents in water – new or altered waterworks	28	Standards for constituents in water - new or altered waterworks
32	Standards for microbial and bacteriological constituents in water – existing waterworks	29	Standards for microbial and bacteriological constituents in water - existing waterworks
33	Water turbidity standards – water for human consumptive use	30	Water turbidity standards - water for human consumptive use
34	Chemical standards – water for human consumptive use supplied by existing waterworks	31	Chemical standards - water for human consumptive use supplied by existing waterworks
None		31(4)	Creates an obligation for a waterworks owner to develop a plan to achieve compliance with newly developed drinking water quality standards found in Table 3.
35	Assessment and audit of water – water for human consumptive use	32	Assessment and audit of water - water for human consumptive use
36	Required notices – water for hygienic use	33	Required notices - water for hygienic use
37	What is required if unusual operational anomalies, etc.	34	What is required if unusual operational anomalies, etc.
		Division 5	Water Samples and Tests

<i>The Water Regulations, 2002</i>		<i>The Waterworks and Sewage Works Regulations</i>	
Section Number	Description	Section Number	Description
38	Accredited laboratory	36	Accredited laboratory
38(5)	Bacteriological Follow-up Protocol adoption	37(1)	Testing, test results and notice of test results
39	Testing, test results and notice of test results	37(2) – (9)	Testing, test results and notice of test results
40	Required testing after completion, alteration, extension or repair	38	Required testing after completion, alteration, extension or repair
41	Fluoride in potable water	39	Fluoride in drinking water
42	Operational records to be kept	40	Operational records to be kept
43	Water assurance and quality control policy and record keeping – water for human consumptive use	41	Water assurance and quality control policy and record keeping - water for human consumptive use
44	Annual notice to consumers	42	Annual notice to consumers
		Part IV	Certification
		Division 1	Interpretation and Application of Part
45	Interpretation of Part	43	Interpretation of Part
46	Application of Part	44	Application of Part
		Division 2	Operator Certification Board
47	Board continued	45	Board Continued
48	Membership of board	46	Membership of Board
49	Board of directors and chairperson	47	Board of directors and chairperson
50	Board not an agent of the Crown	48	Board not an agent of the Crown
51	Head office	49	Head Office
52	Meetings	50	Meetings
53	Responsibilities of board	51	Responsibilities of board
54	Powers of board	52	Powers of board
55	Borrowing powers	53	Borrowing powers
56	No Crown guarantee for loans by board	54	No Crown guarantee for loans by board
57	Investments of board	55	Investments of board
58	Fiscal year of board	56	Fiscal year of board
59	Audit	57	Audit
60	Annual report	58	Annual Report

<i>The Water Regulations, 2002</i>		<i>The Waterworks and Sewage Works Regulations</i>	
Section Number	Description	Section Number	Description
		Division 3	Standards to be met by Operators to obtain Certificates
61	Standards adopted	59	Interpretation of Division
61(2)(b)		60	Decision of board
62	Classification of facilities	61	Classification of facilities
		Division 4	Certificates
63	Minimum certificates that operators must hold	62	Minimum certificates that operators must hold
63.1	Minimum certificate exemption for certain municipal waterworks	63	Minimum certificate exemption for certain municipal waterworks
63.2	Minimum certificate exemption for certain water pipelines	64	Minimum certificate exemption for certain water pipelines
63.3	Minimum certificate exemption for certain municipal sewage works	65	Minimum certificate exemption for certain municipal sewage works
64	Application for certificate or renewal	66	Application for certificate or renewal
65	Board may investigate applicant	67	Board may investigate applicant
66	Issuance or refusal of certificate	68	Issuance or refusal of certificate
67	Term of certificate and application to upgrade	69	Term of certificate and application to upgrade
68	Additional information re renewal of certificate	70	Additional information re renewal of certificate
69	Amendment, cancellation, suspension of certificate	71	Amendment, cancellation, suspension of certificate
70	Provisions for which an administrative penalty may be imposed		Moved to EMPA, 2010 Section 88
71	Amount of administrative penalty		Moved to EMPA, 2010 Section 88
72	Information submitted to the minister deemed to be public information		Moved to EMPA 2010, section 83
73	Application fees for		Repealed - no longer

<i>The Water Regulations, 2002</i>		<i>The Waterworks and Sewage Works Regulations</i>	
Section Number	Description	Section Number	Description
	Division 2 – Part IV permits		applicable
		Part V	General
74	Required contents of easements	72	Required contents of easements
75	R.R.S. c.E-10.2 Reg 2 repealed		
		73	R.R.S. c.E-10.21 Reg 1 repealed
76	Coming into force	74	Coming into force
Table 1	Provisions respecting which Administrative Penalty May Be Imposed		
		Table 1 (section 10)	Facultative Lagoon and Mechanical Treatment Facility Buffer Zones
		Table 2 (section 12)	Facultative Lagoon Design Requirements and Compliance Dates
Table 2	Chemical Health Category	Table 3 (section 28 and subsections 31(1) and (3))	Standards for Water re certain Parameters and Compliance Dates
Table 3	Waterworks System Assessment Requirements for Municipal Waterworks	Table 4 (subsection 32(3))	Waterworks System Assessment Requirements for Municipal Waterworks subject to clause 17(1)(a) or Municipal Wells Connected to a Distribution System subject to clause 17(1)(b), Based on Water Treatment Plant Type and Number of Consumers Served
Table 4	Waterworks System Assessment Requirements for Pipelines	Table 5 (subsection 32(5))	Waterworks System Assessment Requirements for Pipelines subject to clause 17(1)(c) or (d), Based on Number of Service Connections