

Drinking Water Program Update

SWWA 2021

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Acting Executive Director

Environmental and Municipal Management Services

Saskatoon
November 5, 2021



Shawn Jaques

President & CEO (interim)

Thon Phommavong

Vice President (acting)
Regulatory

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Executive Director (acting)
Env&Mun Management Services

Roger Miller

Manager
Environmental
Services South

Greg Holovach

Manager
Environmental
Services North

Justin Hay

Manager (acting)
Engineering &
Approvals

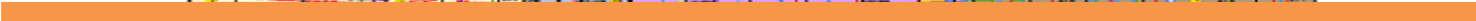


Flin Flon

Meadow Lake

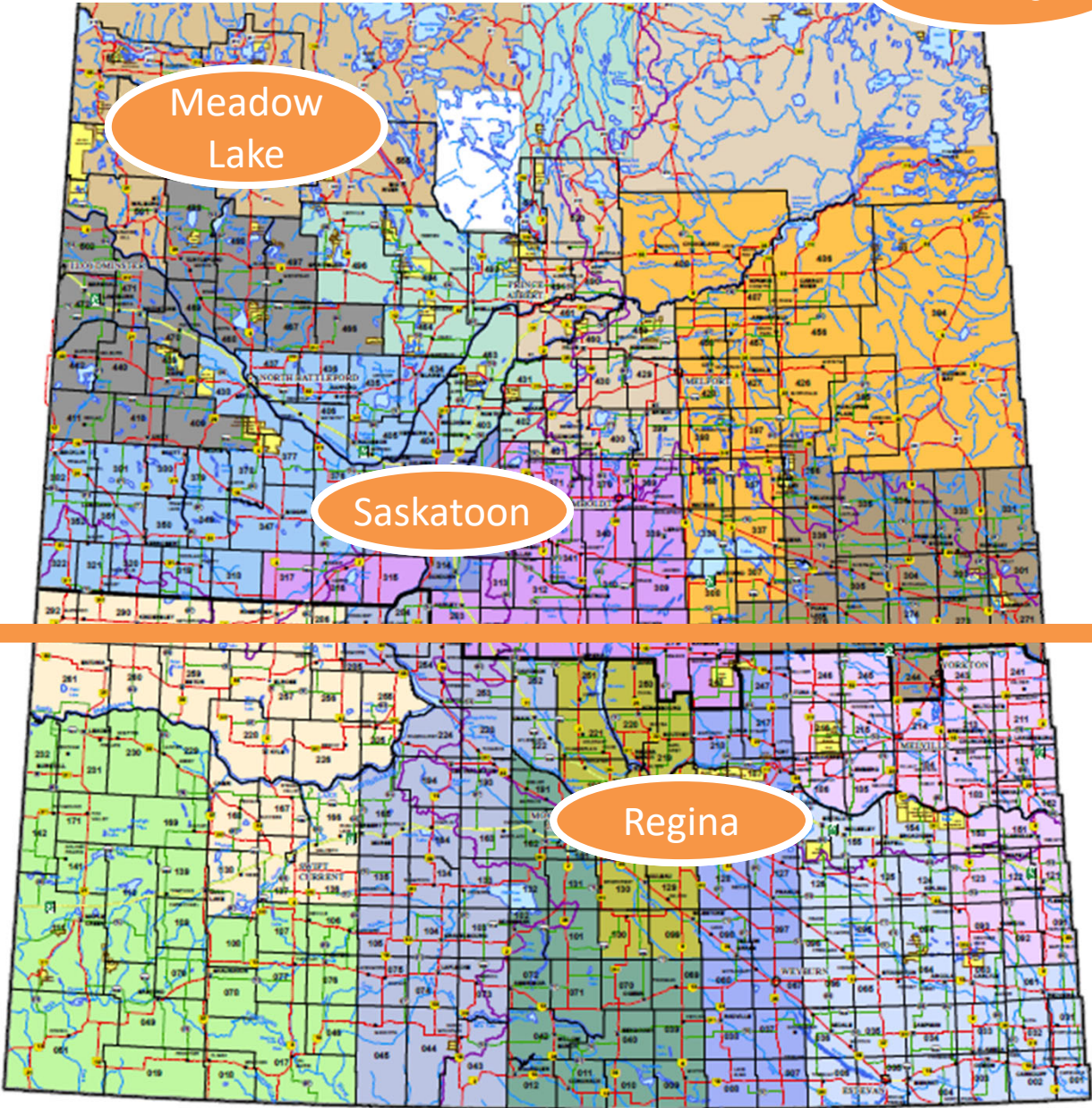
NORTH

Saskatoon



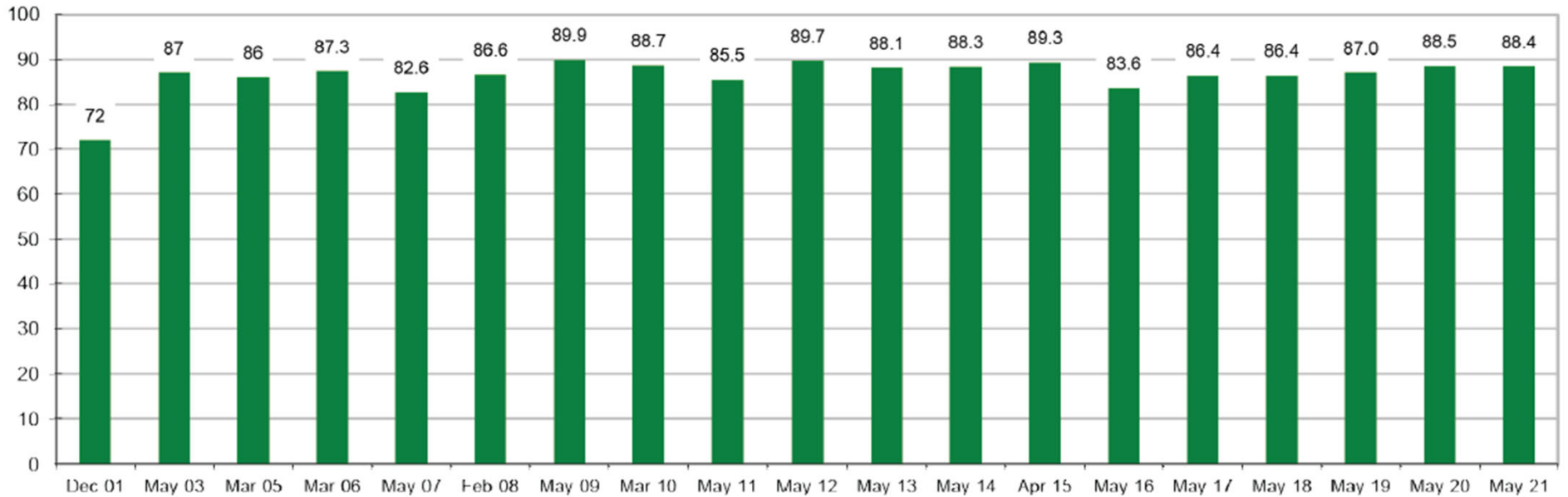
SOUTH

Regina



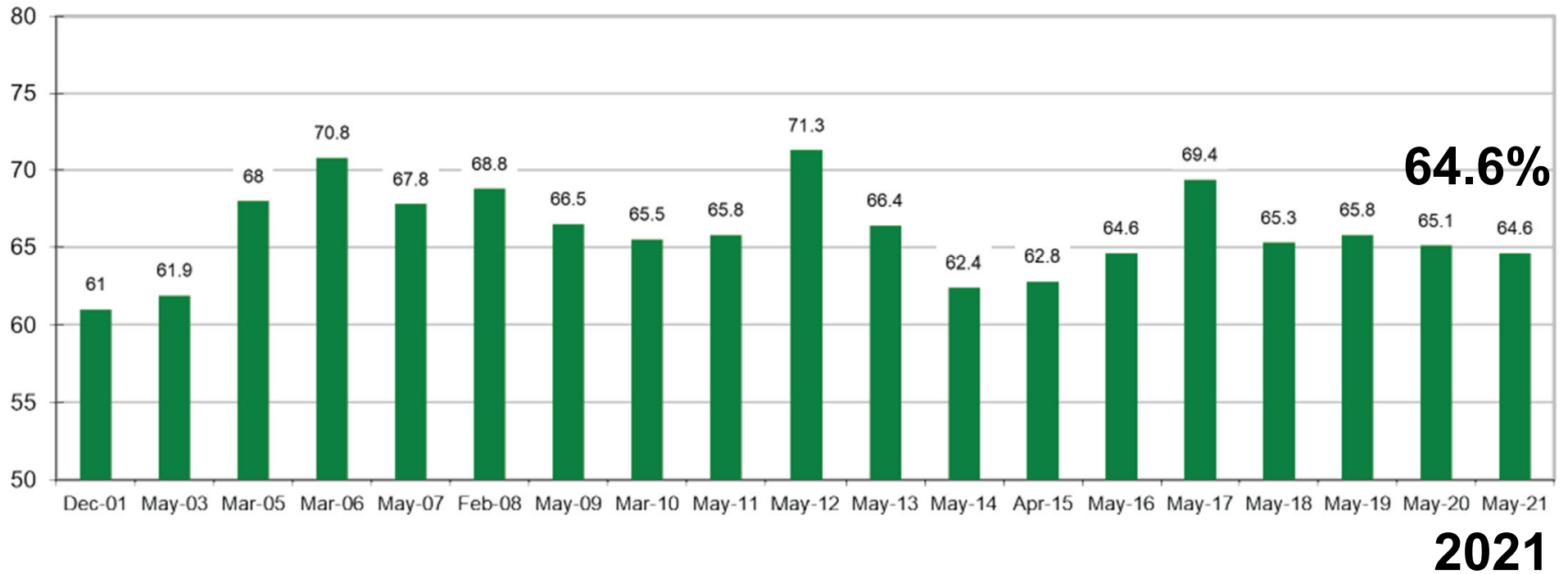
Most SK residents indicate they are confident in the quality of their tap water

88.4%

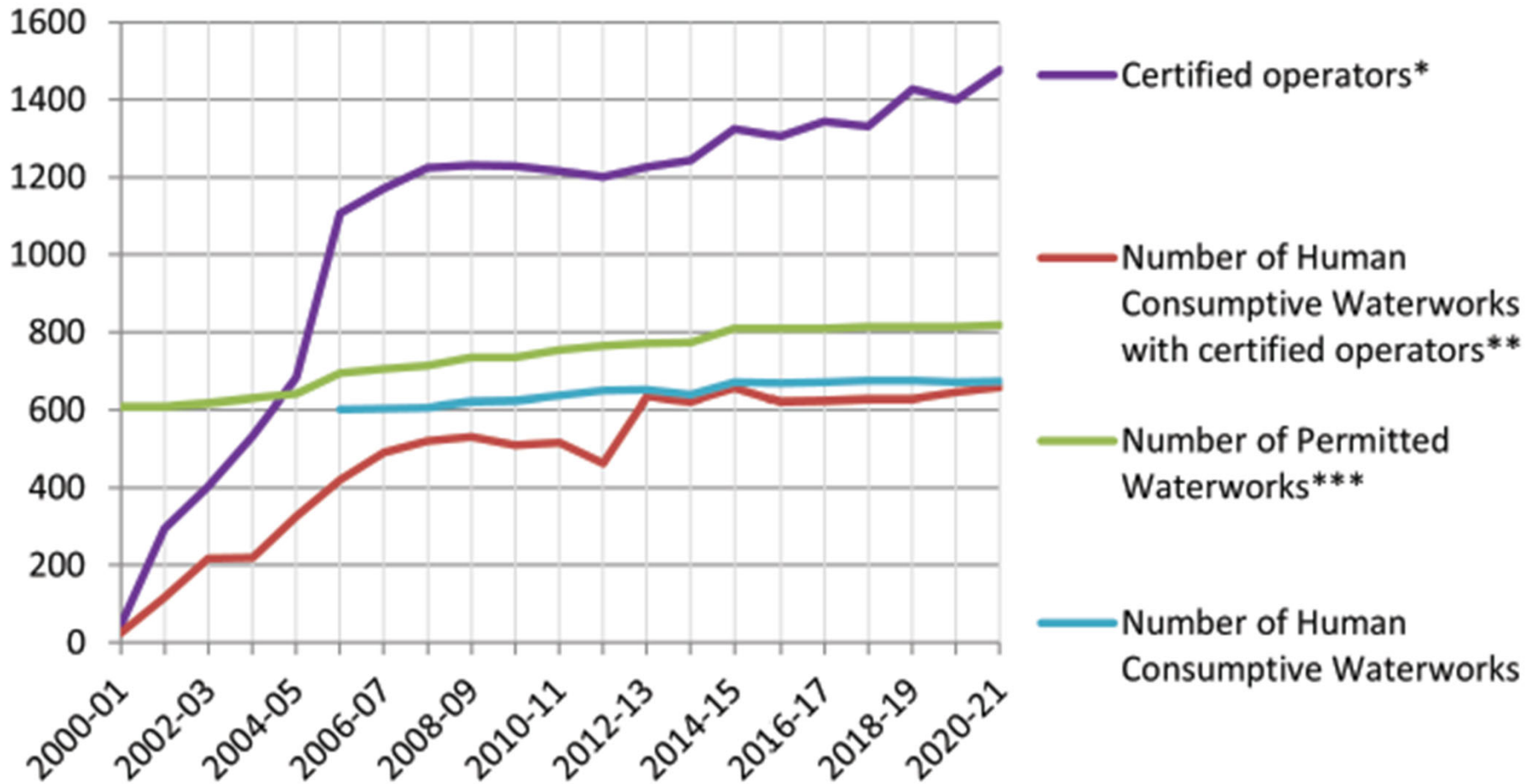


2021

% of SK residents willing to pay more for their drinking water

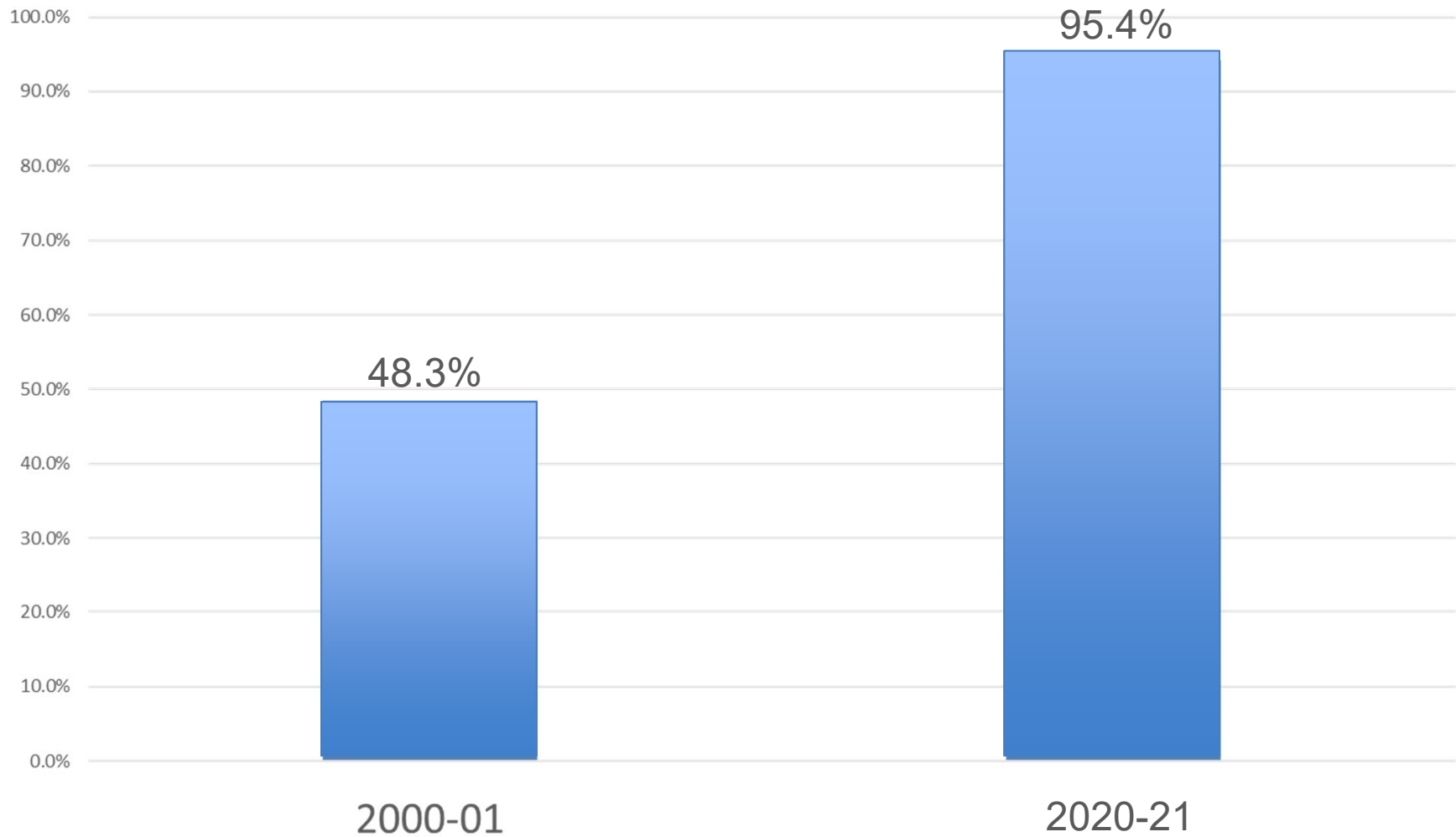


Works Operated/Supervised by Certified Operators



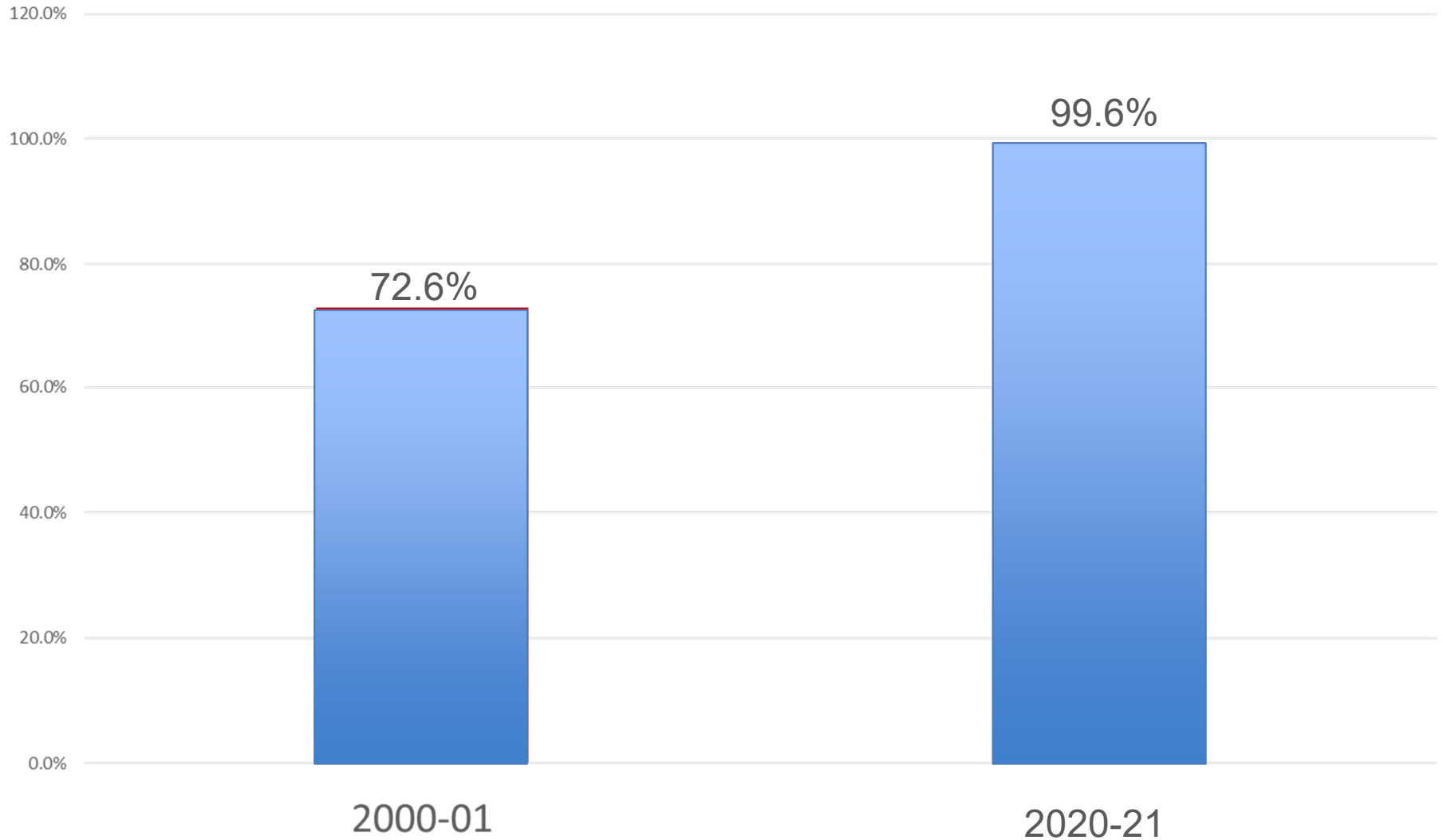


Compliance with Disinfection Standard





Compliance with Bacti Standard

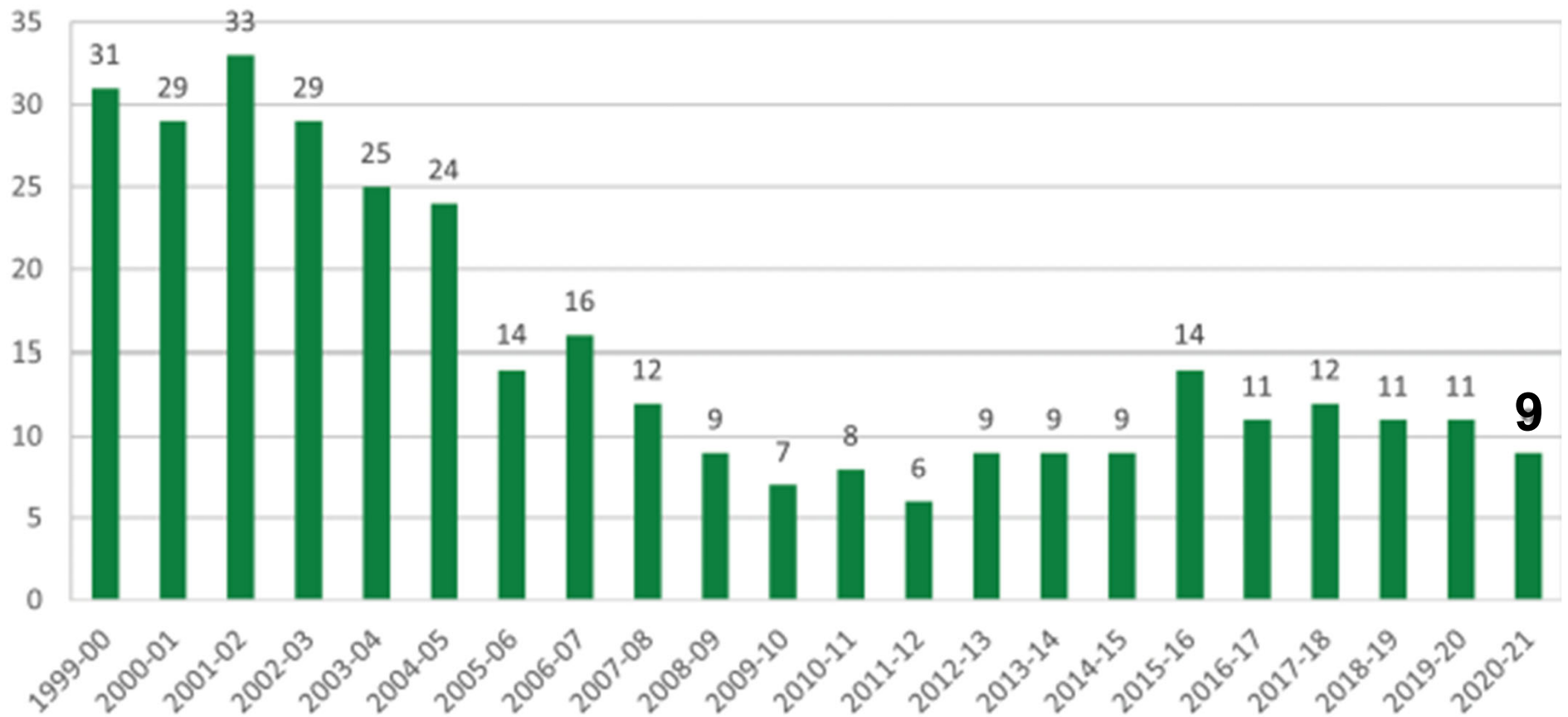




Health and Toxicity Parameters

Fiscal Year	Submission Compliance Rate	Standards Compliance Rate
2020-21	84	90
2019-20	88	85
2018-19	86	93
2017-18	90	90
2016-17	88	90

Lack of Minimum Water Treatment Process



Non-Compliance found during 904 Waterworks Inspections during 2020-21

Inspection Element	#
Disinfection continuous at plant	76
Disinfection Free chlorine > or = 0.1 mg/L leaving the plant	148
Monitoring daily chlorine	60
Reservoirs in good repair	25
Water treatment plant in clean and orderly condition	14
A total chlorine residual not <0.5 mg/l or a free chlorine residual not <0.1 mg/l in the distribution system	90
Bacteriological testing after completion, alteration, extension or repair	5
Reporting of chlorine upsets	37
Record keeping	1



Other Interesting Stats

- 870 PDWAs issued in 2020-21: Line breaks or pressure loss in the distribution systems most common reason
- 119 permits to construct or upgrade waterworks (65) and sewage works (54)
- 63 Code Notifications (watermain and sewage mains)
- 904 Waterworks inspections
- 589 Sewage works inspections
- 20,658 routine bacteriological samples submitted
- On average, Sask residents use about 262 L of water per day



Upcoming Studies

- Lead: Health Canada guideline value to protect the health of most vulnerable members of society such as infant and children has been established at 0.005 mg/L.
- Health concerns include:
 - neurological and behavioural effects including lower IQ;
 - Increase blood pressure or kidney problems



Upcoming Studies

- Boron: Health Canada guideline value to protect the health of most vulnerable members of society such as infant and children has been established at 2.0 mg/L.
- WSA undertaking study to provide detailed information on the exposure



Thank You!

