

# WATER CANADA

**INSIDE:**



(page 27)

## Pick Your Poison

Do We Have More Contaminants Than Answers?

**Where Rail Meets  
Water: Lessons from  
Lac-Mégantic (page 8)**

**What's Turning  
Winnipeg's Water  
Brown? (page 20)**

**Diagnosing Urban  
Stream Syndrome  
(page 26)**



8



12



18

## WATERCANADA

NOVEMBER/DECEMBER 2013

VOLUME 13 NUMBER 6

### FEATURES

#### 8 When Rail Meets Water

The Lac-Mégantic tragedy highlights the environmental risks of transporting oil.

BY SAUL CHERNOS

#### 12 Executive Roundtable

We asked municipal directors how they're planning to make their cities resilient to extreme weather.

BY KERRY FREEK

#### 18 Pilots Take Flight

A wastewater plant's new facility moves emerging technologies from bench-scale testing to the real deal.

BY KERRY FREEK

### DRINKING WATER

#### 20 Flow Woes

Solving the mystery of Winnipeg's brown water.

BY CLARK KINGSBURY

### WASTEWATER

#### 22 A Light at the End of the Tunnel

After years of public brawls over a plan for sewage treatment, is Victoria's Capital Regional District finally ready to move forward?

BY BRAD DENSMORE

### CONVEYANCE

#### 25 No Surprises

Canadian cities experience watermain breaks all the time, but councillors are still shocked by their frequency and the disruptions they cause. Is it time they had a reality check?

BY CLARK KINGSBURY  
AND RACHEL PHAN

### WATER RESOURCES

#### 26 Diagnosis: Stream Sickness

How urban stream syndrome causes natural waterways to function more like sewers—and what can be done to fix it.

BY ANGELA WALLACE

### ANNUAL BUYER'S GUIDE

27 A comprehensive directory of water products, services and resources.

### COLUMNS

#### 42 Lessons Learned and Lessons to Come

The evolving liability for contamination.

BY BILL MCNAUGHTON  
AND RICK COBURN

#### 44 Groundbreakers

Confluvium maps the world's rivers.

BY KERRY FREEK

#### 46 Rules and Regs

Are we handling water emergencies too well?

BY KLAS OHMAN

#### 47 Giveaway

ALLEN SMUTYLO's Governor General Literary Award nominated The Memory of Water.

#### 48 Ask the Expert

KWOK-KEUNG AU on effective alternatives to chlorine.

#### 50 Put It to a Vote

After a city-wide referendum, Regina is moving forward with a P3 for its wastewater treatment plant.

BY M. E. POWELL

#### 58 H2Opinion

We're all connected by water, says BRENT KULBA.

### DEPARTMENTS

#### 5 Editor's Note

Nowhere near done.

BY KERRY FREEK

#### 7 Front Bivalves with benefits,

a pollution paradox, and JOHN RALSTON SAUL on the environment and economy.

#### 52 News Jobs, awards, acquisitions, and new contracts.

#### 55 Events World Water-Tech North America, Canadian Brownfields, Meeting of the Minds, and more.



42



44



58