

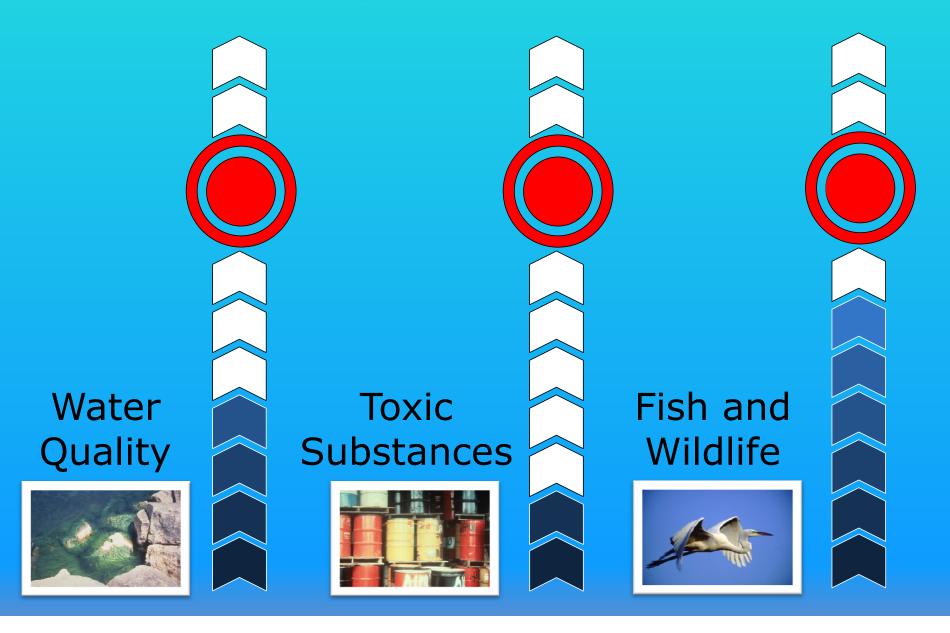
Just how bad was it?

1850s City of Hamilton drinking water supply sourced from Lake Ontario to avoid untreated sewage in Harbour

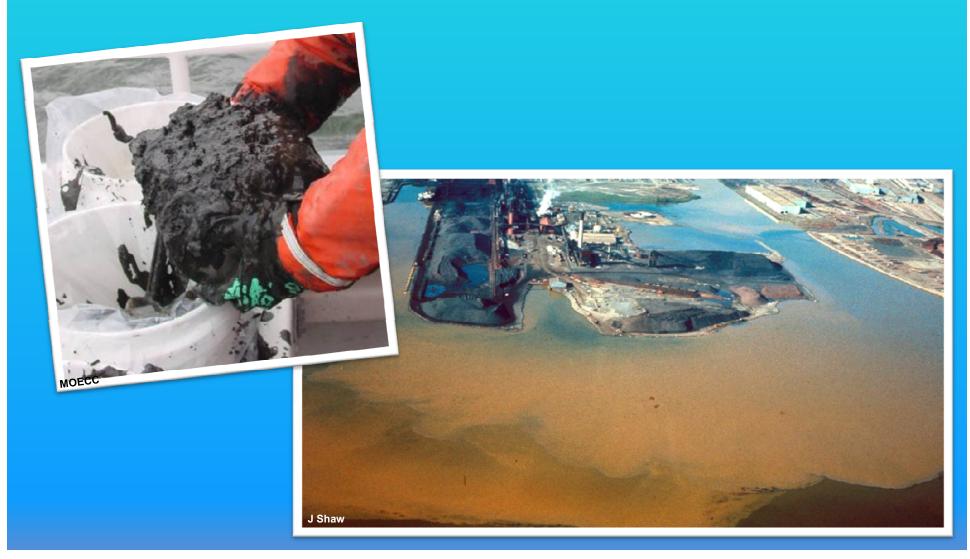
1958 "the world's largest and most beautiful septic tank"

"a stinking rotten quagmire of filth and poisonous waste"

Status of the Harbour



Toxic Substances and Sediment Remediation





Toxic Substances Priority Actions

- Randle Reef Remediation (2016-2022)
- ArcelorMittal Dofasco Boat Slip (2017-2019)
- PCBs in Strathearne Slip (ongoing)







Fish and Wildlife Priority Actions

- Cootes Paradise Restoration (2020...)
- Windermere Basin (2016 ...)
- Research and Monitoring (ongoing)

Water Quality











Flow Ratio to the Harbour

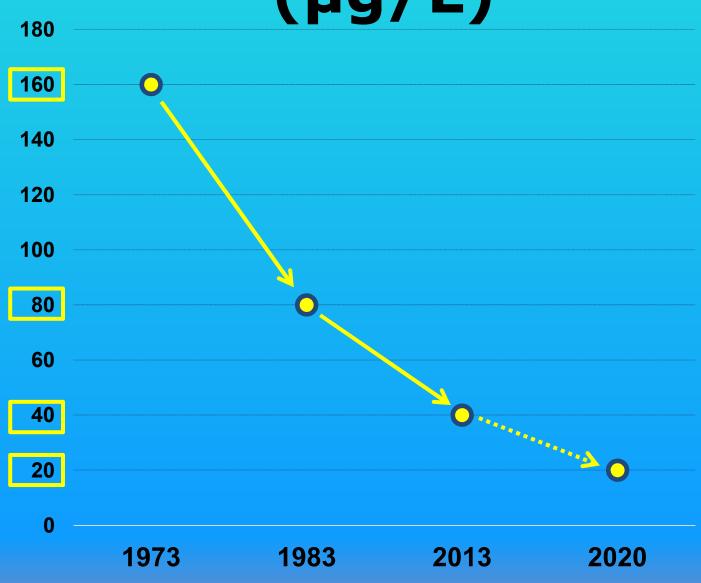




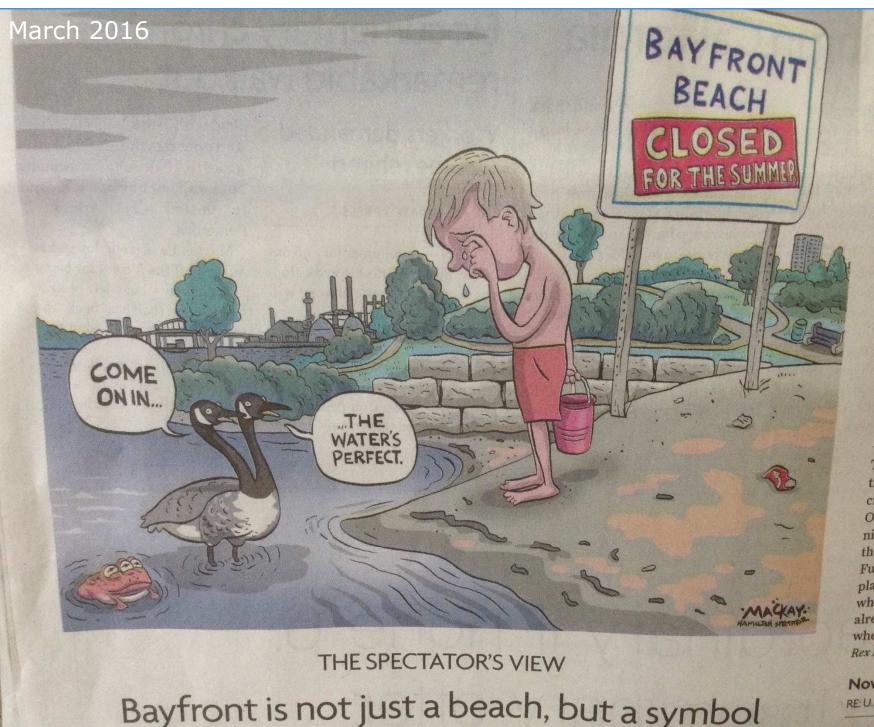
WWTPs = 50%

Watersheds = 50%

Total Phosphorus (µg/L)







we sp ence, an ness sake

Lower

Tyler Hyr

RE: Hamilt

The speed tell you it though the care just a c the posted with little re sources to p speed. Tim Mahoney,

Sore-loser

RE: Why were T

The letter writives in attacking crimes such as Obama, the sing nies, his stimulate kids on his Funny, but I've aplain about Mr. I whopping \$22 bit already been lost when they finally a Rex Meade, Dundas

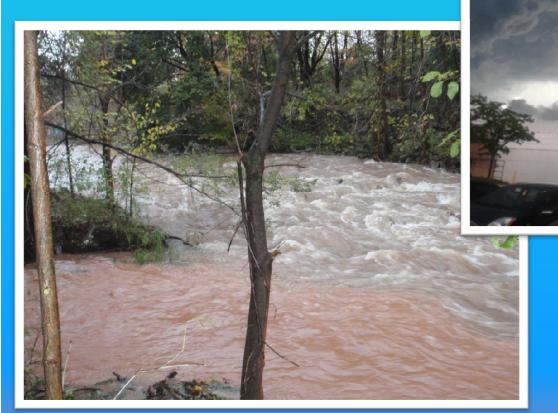
Now we've lost

RE: U.S. Steel retirees f

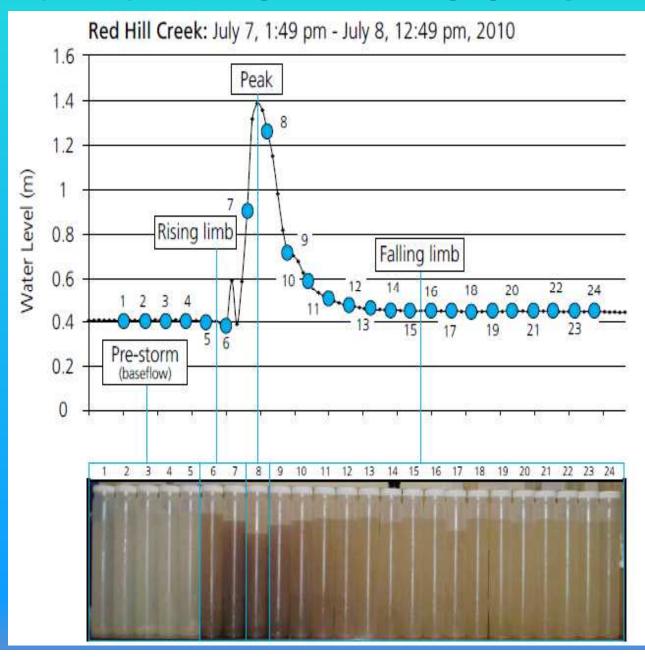
Watershed Challenges

Climate Change

 Phosphorus pulses from storms



What a Storm Looks Like



| CREEKS | Min daily load (kg/d) | Max daily load (kg/d) | Event of maximum loading | | |
|------------------|--------------------------|-----------------------|------------------------------------|--|--|
| Red Hill Creek | 0.1 | 841 | Sep 28-29, 2010 (54.8 mm) | | |
| Indian Creek | 0.1 | 152 | Nov 29-30, 2011 (40.2 mm) | | |
| Grindstone Creek | 0.2 | 334 | Mar 10-11, 2011 (22.1 mm + melt) | | |
| Desjardins Canal | 1.8 | 704 | Mar 11-12, 2011 (9.6 mm + melt) | | |
| Total | 2.2 | 2031 | | | |
| 1404 | | NA 1 1 . | | | |

| WWTPs | Skyway | Woodward + CSO | Total | Max creek loads relative to WWTP loads |
|---------------------|--------|-------------------|-------|---|
| Current load (kg/d) | 20 | 156 | 176 | 12 times greater |
| Final load (kg/d) | 17 | 82 | 99 | 20 times greater |

Credit: Tanya Long, OMOECC

Phosphorus from creeks

Maximum daily
TP load from
upgraded
wastewater
treatment plants





Water Quality Priority Actions

- Skyway WWTP upgrade (2016)
- Woodward WWTP upgrade (2016 2021)
- Dundas WWTP upgrade (2016 2021)
- Watershed Runoff Improvements (ongoing)

Watershed Task Group Reports (Fall 2016)



Hamilton Harbour

A Vibrant
Centrepiece in
Our
Community's
Life