WASTEWATER SYSTEMS EFFLUENT REGULATIONS



Newfoundland Labrador

March 19, 2016

Wastewater

- **Definitions**
- **Wastewater:** is composed of industrial, commercial, institutional and domestic wastes including blackwater & greywater.
- **Effluent:** wastewater that is deposited from a wastewater system
- **Influent:** means wastewater entering a wastewater system

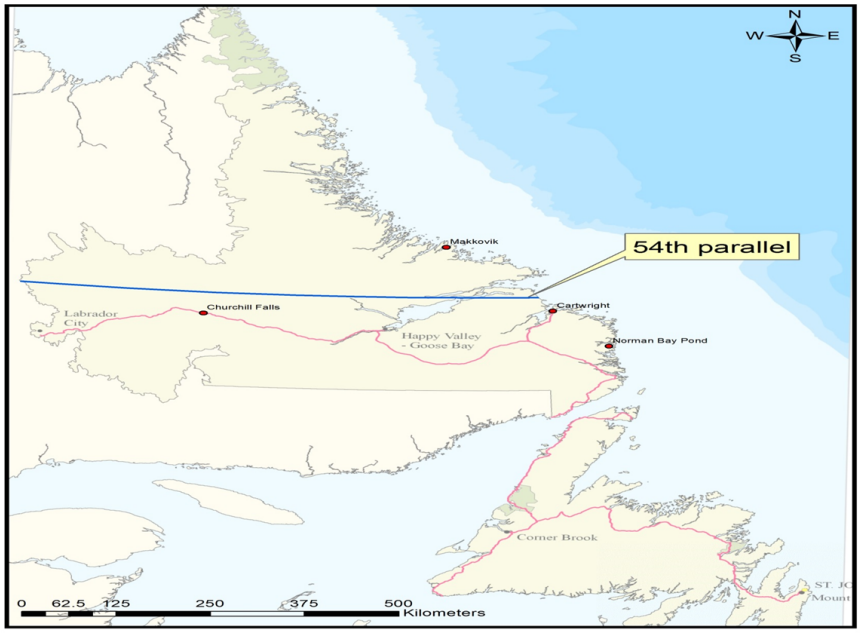
What is WSER?

- Wastewater Systems Effluent Regulations
- Established (July 18, 2012) under the (Federal) Fisheries Act to regulate wastewater outflows
- Sets minimum effluent quality standards achieved through secondary wastewater treatment
- Defines sampling, monitoring, record keeping & reporting requirements
- Will help protect rivers, lakes and oceans with a workable set of rules for Canada's approximately 4000 wastewater treatment systems.

Application

- Applicable to wastewater systems that collect, or are designed to collect, an average volume of 100 m^3/d or more of influent.
- Not Applicable to -
- Wastewater systems located in the far north (Nunavut, the Northwest Territories), north of 54th parallel in Newfoundland & Labrador & Quebec
- Systems on the site of industrial, commercial or institutional facilities that are designed to collect less than 50% of blackwater and greywater combined.
- Mills as defined in the Pulp and Paper Effluent Regulations

Geographic exception in NL



Wastewater in NL

- Approx. 760 sewer outfalls in the province of Newfoundland & Labrador
- WSER applies to the outfall not the community

Outfalls reports submission status

- 506 outfall reports completed by communities and submitted to Municipal Affairs
- 259 outfalls in 65 communities with no reports submitted
- 390 outfalls out of 506 do not require registration or monitoring
- 116 out of 506 outfalls require registration and
  103 outfalls have registered with Environment Canada

Outfalls reports submission status

- Around 23 communities in Eastern Region have not completed and submitted any sewage outfall report to MA so far:

• Bonavista • Burin • Elliston • Fermeuse • Fox Harbour • Garnish • Grand Le Pierre • Green's Harbour • Heart's Content	• Heart's Delight-Islington • Holyrood • Lamaline • Little Bay East • Little St. Lawrence • Marystown • Paradise • Point May	• Salmon Cove • Spaniard's Bay • St. Bernard's-Jacques Fontaine • Trepassey • Upper Island Cove • Whiteway

Outfalls reports submission status

- 6 communities in Eastern Region, based on reports submitted, that are required to register with Environment Canada and have not registered outfalls so far:
  - Harbour Grace
  - Norman's Cove – Long Cove
  - Petty Harbour – Maddox Cove
  - Southern Harbour
  - Trinity Bay North
  - Winterton

Process to be compliant

- Communities to determine if the outfall is 100 m3 or not, if less than 100m3/day – no registration required
- This roughly equates to 294 people based on an estimated 340L per person per day.

Monitoring

- Monitoring involves both measuring flow and collecting samples. The data should be reported regularly to Environment Canada.
- After collecting 12 months of data, Environment Canada will analyze the results and provide communities with a temporary authorization to operate the outfall.

Monitoring

- The analysis will also include a risk assessment, which will determine whether the outfall is high risk (compliant by 2020), medium risk (compliant by 2030), low risk (compliant by 2040).
- MA will work with communities to develop wastewater treatment solutions to ensure compliance with the WSER by the deadlines prescribed by Environment Canada.
- Communities should contact their respective MA regional offices for assistance regarding completion of reports and registration with EC

Funding

- Funding for Flow Meters is eligible under MCW and MYCW program of MA. However this year's applications are now closed. Gas Tax may be used with approval of GT Secretariat.
- Monitoring Costs are not eligible.
- Wastewater treatment infrastructure is an eligible category under the Provincial-Territorial Base Fund, the Green Infrastructure Fund and Gas Tax Fund. The Federal budget made a commitment to the renewal of a 10-year Building Canada Infrastructure Program which the province anticipates will cover WWT.

Contact Information

- **Environment Canada** is the primary interface for administration of regulations in the province.
- General wastewater contact:
    - email ec.eaux-usees-wastewater.ec@canada.ca. or
    - **EC Wastewater toll free line 1-800-668-6767 and 819-420-7727**
- DOEC (NL) are not administering the regulations
    - Community reports from their outfall database can be provided by contacting DOEC.
- WSER is available online at:
    - http://laws-lois.justice.gc.ca/PDF/SOR-2012-139.pdf
- For more information and online reporting system, visit:
    - www.ec.gc.ca/eu-ww

WSER

Thank you

Any Questions?