



Water Resources Management Division

Department of Environment & Conservation

## Drinking Water Quality Index Report

## How is this helpful?

Annette Tobin, P.Eng. Drinking Water Section March 24, 2010



#### **Quarterly and Annual Reports**

- Positively received
- Limited ability to interpret results
- Most consumers:

## "What is the quality of my drinking water?"

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#### **Quarterly and Annual Reports**

#### DWQI - communications tool

# Simplify the drinking water quality results without challenging the integrity of the data

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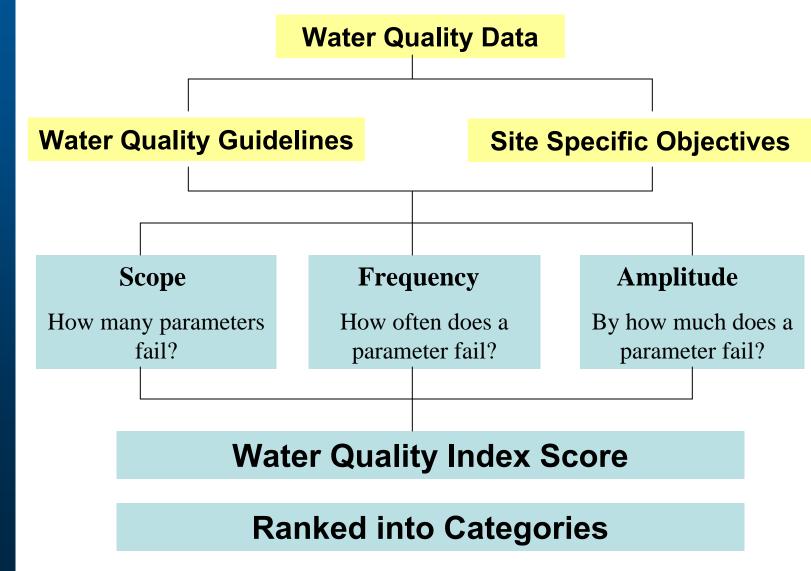
#### DWQI – What is it?

- Very simple and logical approach to reporting water quality data
- Provide meaningful summaries of data
- Transparent
- Customizable
  - Allows incorporation of expert opinion
- Based on Canadian Drinking Water Quality Guidelines
- Not a substitute for statistical analysis of water quality data

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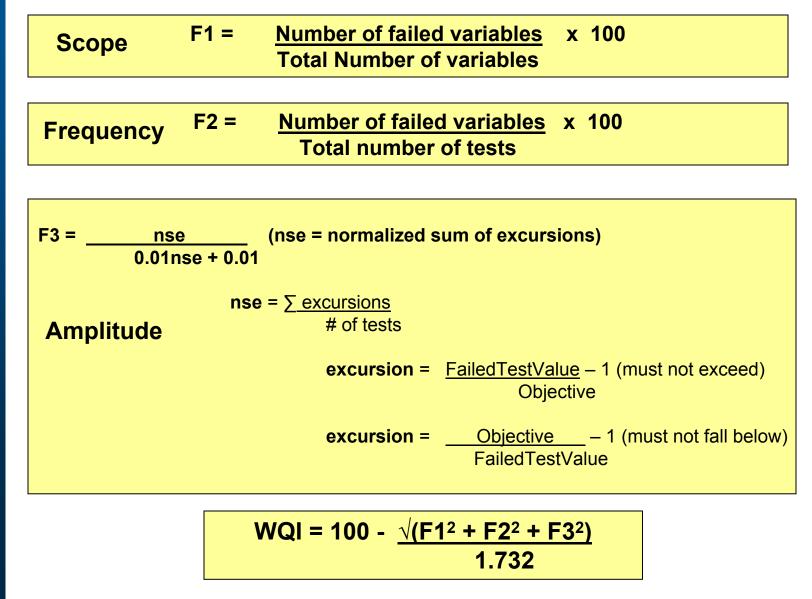
#### DWQI – How does it work?



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#### DWQI – How does it work?



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#### **DWQI - Categories**

Ranking	DWQI Value
Excellent	95 – 100
Very Good	89 – 94
Good	80 – 88
Fair	65 - 79
Marginal	45 - 64
Poor	0 - 44

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### Interpretation of Categories

- Excellent
  - Water quality is protected with a virtual absence of impairment; conditions very close to pristine levels; these index values can only be obtained if all measurements meet recommended guidelines virtually all of the time.
- Very Good
  - Water quality is protected with a slight presence of impairment; conditions are close to pristine levels.
- Good
  - Water quality is protected with only a minor degree of impairment; conditions rarely depart from desirable levels.
- Fair
  - Water quality is usually protected but occasionally impaired; conditions sometimes depart from desirable levels.

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#### Ranked with No Qualifiers

Based on the 6 most recent tap samples your drinking water quality is ranked as follows:

DWQI Score = 97

DWQI Ranking = **excellent** 

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#### Ranked with Aesthetic Qualifiers

Based on the 6 most recent tap samples your drinking water quality is ranked as follows:

DWQI Score = 92 DWQI Ranking = very good

AESTHETIC: The perceived water quality may be lower due to the exceedance of the following aesthetic parameters in your last sample: - COLOR, IRON, MANGANESE (Please see Tap Water report for details).

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#### Not Ranked Due to BWA

Based on the 6 most recent tap samples your drinking water quality is ranked as follows:

DWQI Score = Not Given

DWQI Ranking = Not Ranked

BOIL WATER ADVISORY: Drinking water quality was NOT ranked due to the presence of a Boil Water Advisory issued on September 19, 2006 for the following reason: No free chlorine residual detected in the system. (Please contact our regional Medical Officer of Health for more information).

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#### Not Ranked Due to DBPs

Based on the 6 most recent tap samples your drinking water quality is ranked as follows:

DWQI Score = Not Given

DWQI Ranking = Not Ranked

THM: Drinking water quality was NOT ranked due to the presence of the following THM value which exceeds the current guideline. THM Average = 123.5 ug/L (Please see THM report for details).

HAA: Drinking water quality was NOT ranked due to the presence of the following HAA value which exceeds the current guideline. HAA Average = 143.3 ug/L (Please see HAA report for details).

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#### Not Ranked Due to Contaminant

Based on the 6 most recent tap samples your drinking water quality is ranked as follows:

DWQI Score = Not Given

DWQI Ranking = Not Ranked

CONTAMINANT: Drinking water quality was NOT ranked due to the presence of the following contaminant in the last tap sample: ARSENIC (Please see Tap Water report for details).

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#### How is this helpful?

#### Ranked Supplies

 Provides input to the town as to the quality of the drinking water.



#### Unranked Supplies

 Helps to identify the major issues in a community's drinking water quality.



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#### What can I do to change it?

- Address the issues identified in the "Not Ranked"
- When the issue is addressed and corrected, the water supply will be ranked in the drinking water quality reports



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#### Where to get help?

#### **Eastern Region:**

Floyd Barnes (729-4817)

Annette Tobin (729-7634)

#### **Central Region:**

Paul James (292-4220)

Ben Hammond (729-1159)

#### Western Region:

Labrador Region:

Christa Ramsay (637-2542)

Grace Gillis (896-5542)

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#### Questions?



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