



The Illinois Tollway
**DRIVING
THE FUTURE**

Illinois Tollway Chloride Offset Program



Presented by the Illinois Tollway
Environmental Unit
April 2017

Agenda



Environmental regulations

- Clean Water Act (CWA) uses designations and stream condition assessments

Environmental permitting

- CWA Section 401 Water Quality permits
- National Pollutant Discharge Elimination System permit

Moving forward

- Expand our toolbox to gain regulatory compliance

Environmental Regulations

General-use water quality standard for chlorides

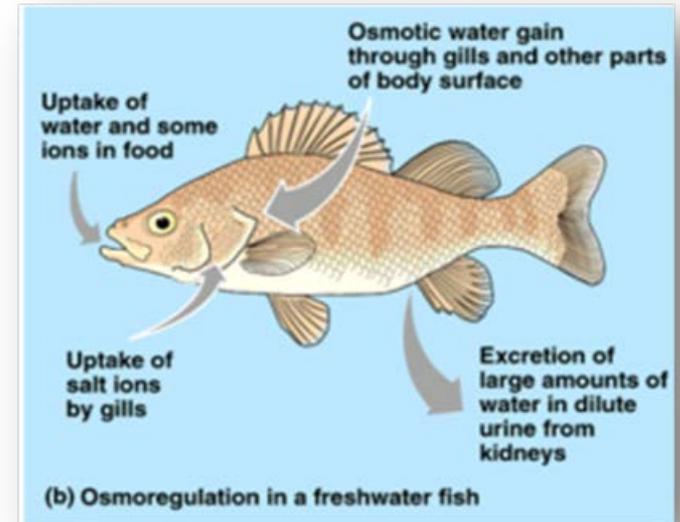
- Not to exceed 500 mg/L (~1 tsp/5 gal)

Impaired waters

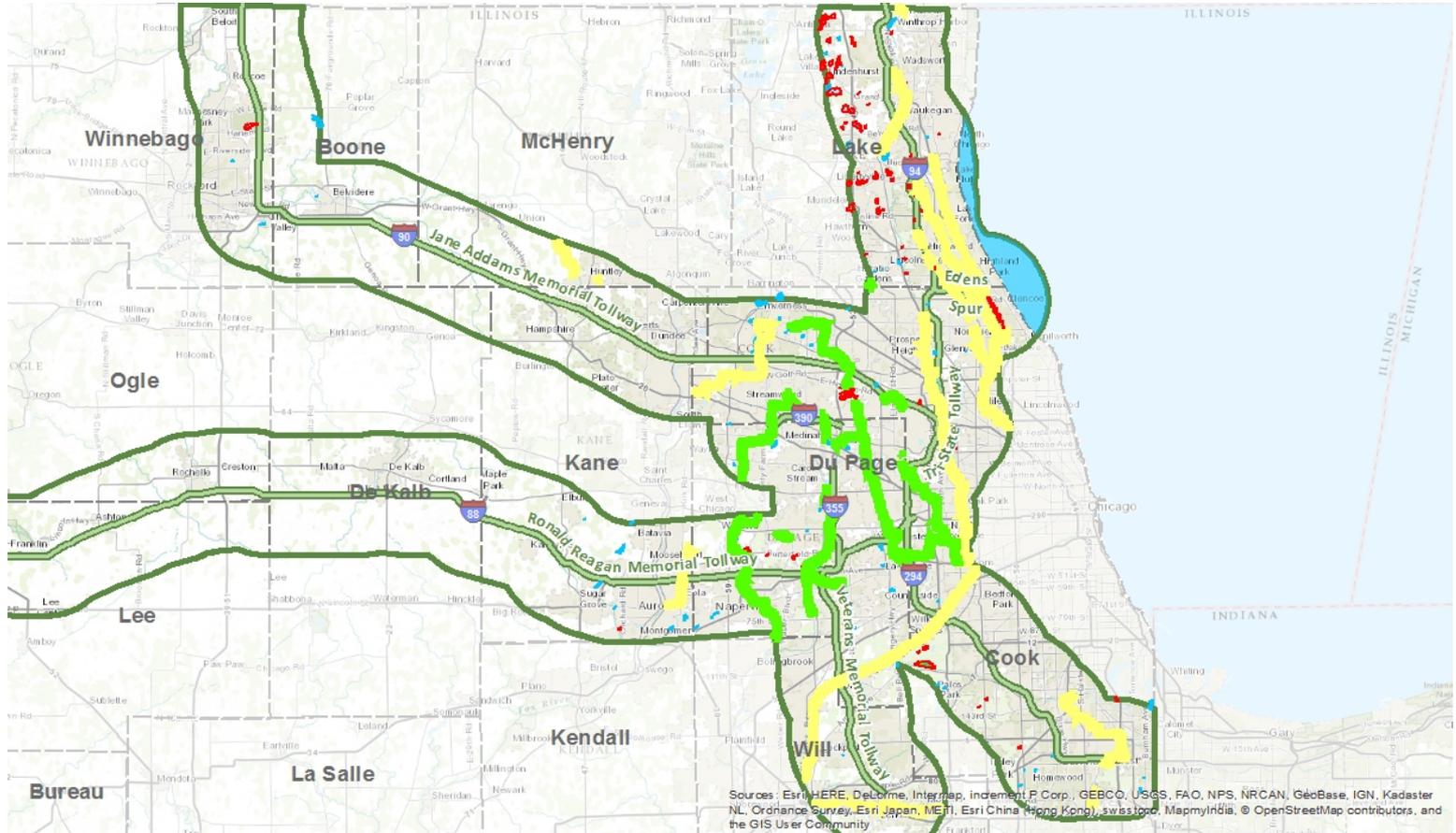
- Waters that are too polluted or otherwise degraded to meet water quality standards

Total maximum daily loads

- Pollution budget that includes calculation of maximum amount of a pollutant that can occur in a waterbody and allocates the necessary reductions to one or more pollutant sources



Chloride Affects On Local Area Stream



**MOVE
ILLINOIS**

The Illinois Tollway

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Environmental Permitting

Clean Water Act Section 401 Water Quality permits

Elgin O'Hare Western Access Project permit conditions

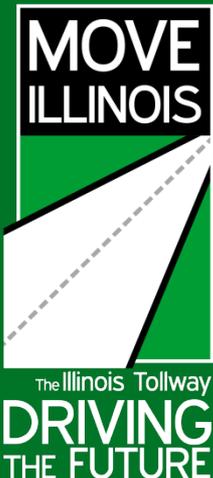
- Offset 4,860 tons per year of salt with local communities

Jane Addams Memorial Tollway (I-90) eastern segment permit conditions

- Offset 572 tons per year of salt with local communities

National Pollutant Discharge Elimination System permit

- Monitoring for pollutants associated with a TMDL



Our Expanded Toolbox

Current efforts

- Participate in watershed groups
- Provide internal staff updates and trainings
- Annual facility inspections



New efforts

- Pursue time-limited water quality standard (TLWQS)/water quality variance for chloride
- Pursue seasonal general-use water quality standards

Our Expanded Toolbox

Tools

- De-icing
 - Preventing the bonding of ice to pavement
- Pre-wetting
 - Application of a liquid chloride product to rock salt
 - Reduces loss by 30 percent
 - Mobile brine makers



Possible expansion

- Anti-icing
 - Application of a liquid chloride product to the pavement prior to a storm event



Thank you

Questions

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