Sap Flow of Shrub Willows on the Solvay Settling Basins in Upstate New York

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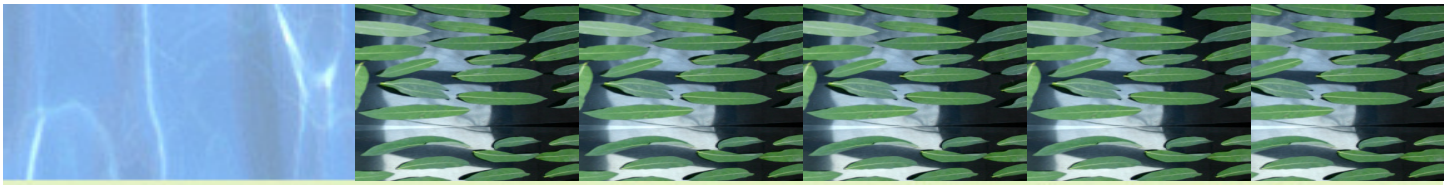
Outline

- Solvay settling basin background
- Objectives
- ET covers
- Why willow
- Materials and methods
  - Sap flow method
- Sap flow data
  - Single stem sap flow
  - Stand level sap flow
  - Precipitation
- Conclusion
  - Influence of willow varieties
  - Influence of season

Background

Solvay Process Company Facility and Erie Canal, early 1900s

- Soda ash (Na_2CO_3) manufacturing using the Solvay method between 1884 – 1986
- Raw materials locally available
  - limestone, salt, water
- For 1 ton soda ash, about 10 m^3 Solvay waste, deposited as 5% solid slurry
- Resulted in 600 ha of settling basins



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