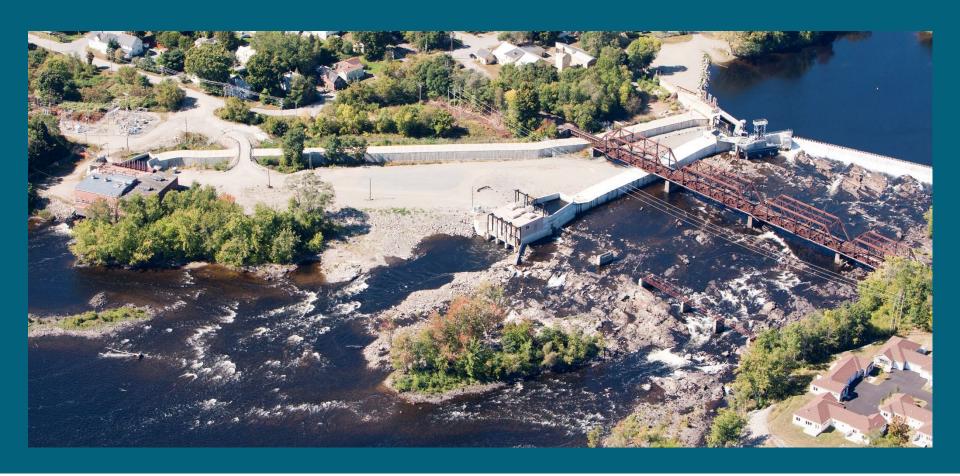
Session 12: Preparing for Fish Passage Projects





What is effective fish passage?

Fish Passage

Fish

Water

Effective

Safe

Timely

- □ Very site specific
- Involves multiple interrelated factors
- Requires study and experimentation
- Innovative maturing technology
- Design is iterative...Often with revaluation of the concept



Start Early
Consult Expertise
Invest in Information

Information

FISH

Relevant Species
Design Population

Migration Seasons

WATER

Fishway Operational River Flows Headpond and Tailwater Elevations

Order of Unit and Gate Discharge

Fishway Attraction Flow

Fishway Internal Velocities

SITE SPECIFICS

Surveys – Location, Drawings, Topography, Bathymetry

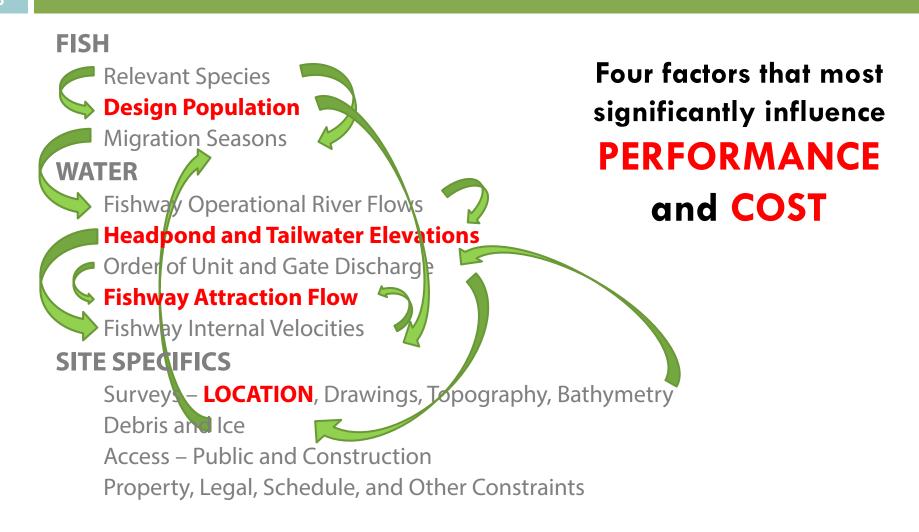
Debris and Ice

Access – Public and Construction

Property, Legal, Schedule, and Other Constraints

Four factors that most significantly influence PERFORMANCE

Information



Information

FISH



Relevant Species

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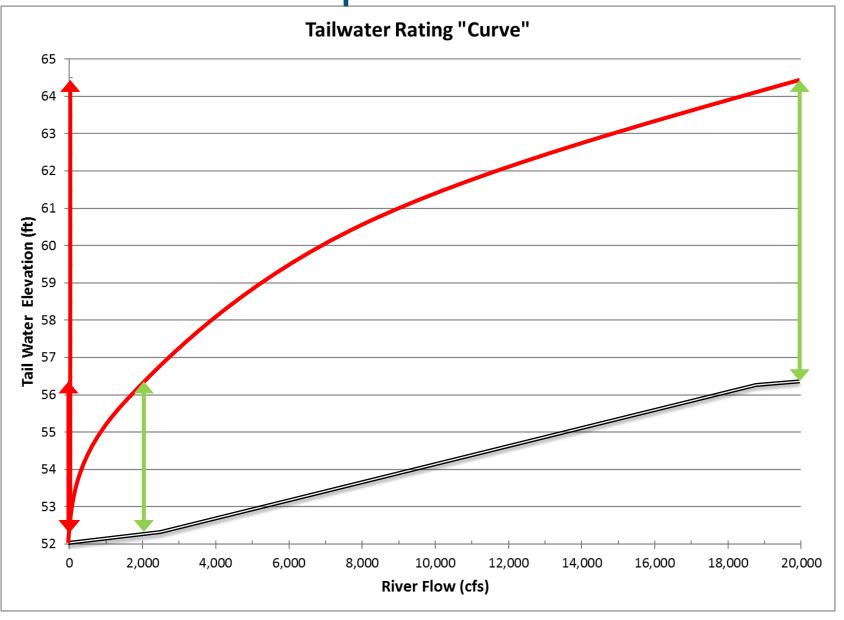
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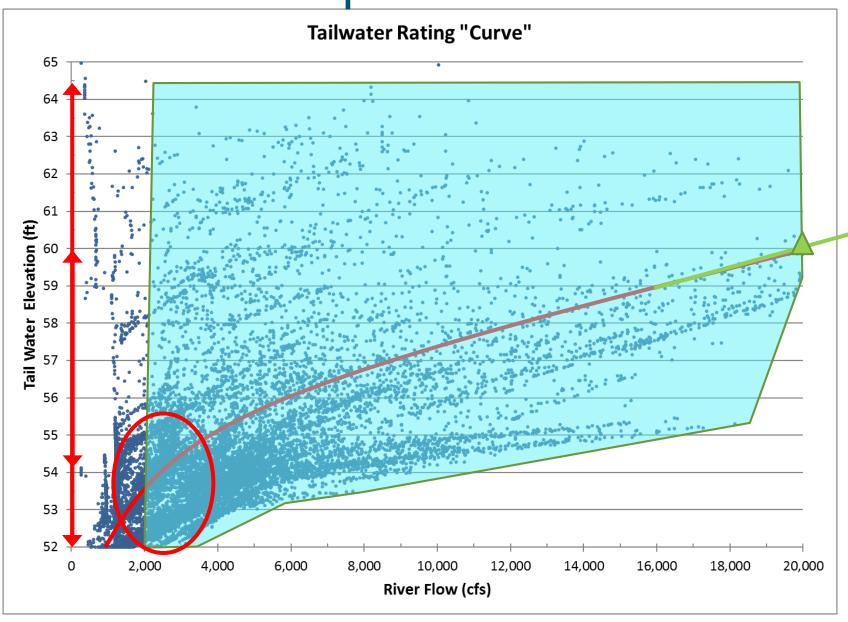
Property, Legal, Schedule, and Other Constraints



Tailwater Example



Tailwater Example



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Start Early

The best time to plant a tree is 20 years ago...

the next best time is tomorrow.

What should I do tomorrow?

- 1. Talk to First Nations and Regulators
- 2. Think Data Acquisition
 - Turn it ON
 - Archive Data
 - Check Calibration
- 3. Build your Library Find Drawings and Reports
- 4. Start Surveys
 - Vertical Datum
 - Topography
 - Bathymetry
- 5. Develop Study Plans

Start Early
Consult Expertise
Invest in Information

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Headpond Elevation Duration Curve

Upstream Fish Passage Season (May 1 - October 31)

