



# Millrace Research Project

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Initial Question:

What tree saplings are growing near the millrace and what does that mean for the future tree diversity of the millrace?



1: Millrace Output

*The Polluted*

2: Millrace Pond

*The Sublime*

3: Knight Campus

*The Planned*



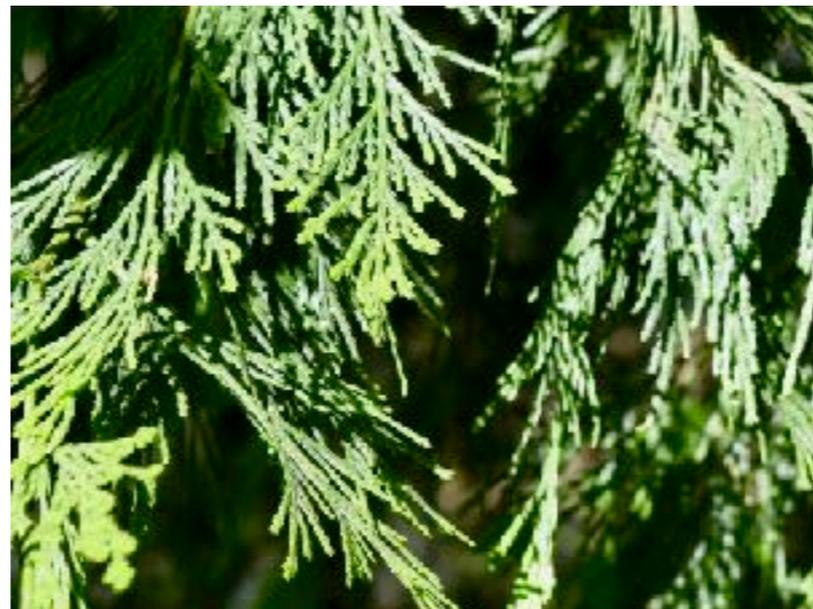
# 1: Millrace Output



Big Leaf Maple



Oregon Ash



Incense Cedar



Cedar Sapling

## 2: Millrace Pond

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## 2: Millrace Pond

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Canada Geese



Mallards

# 3: Knight Campus

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Revised Question:

Why are saplings found in only certain areas of the millrace?

## Considerations

Reproductive Cycles

Water Quality and Quantity

Human Involvement

Invasive Species

# Reproductive Cycles

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*The incense cedar does not grow particularly quickly, usually only gaining between 12 and 24 inches of height in a season*

“Incense Cedar Growth Rate”, Home Guides



*Trees of the Ash species ... average about 2 feet of growth per year for the first part of their life when planted*

“Ash Tree Growth Rate”, Home Guides

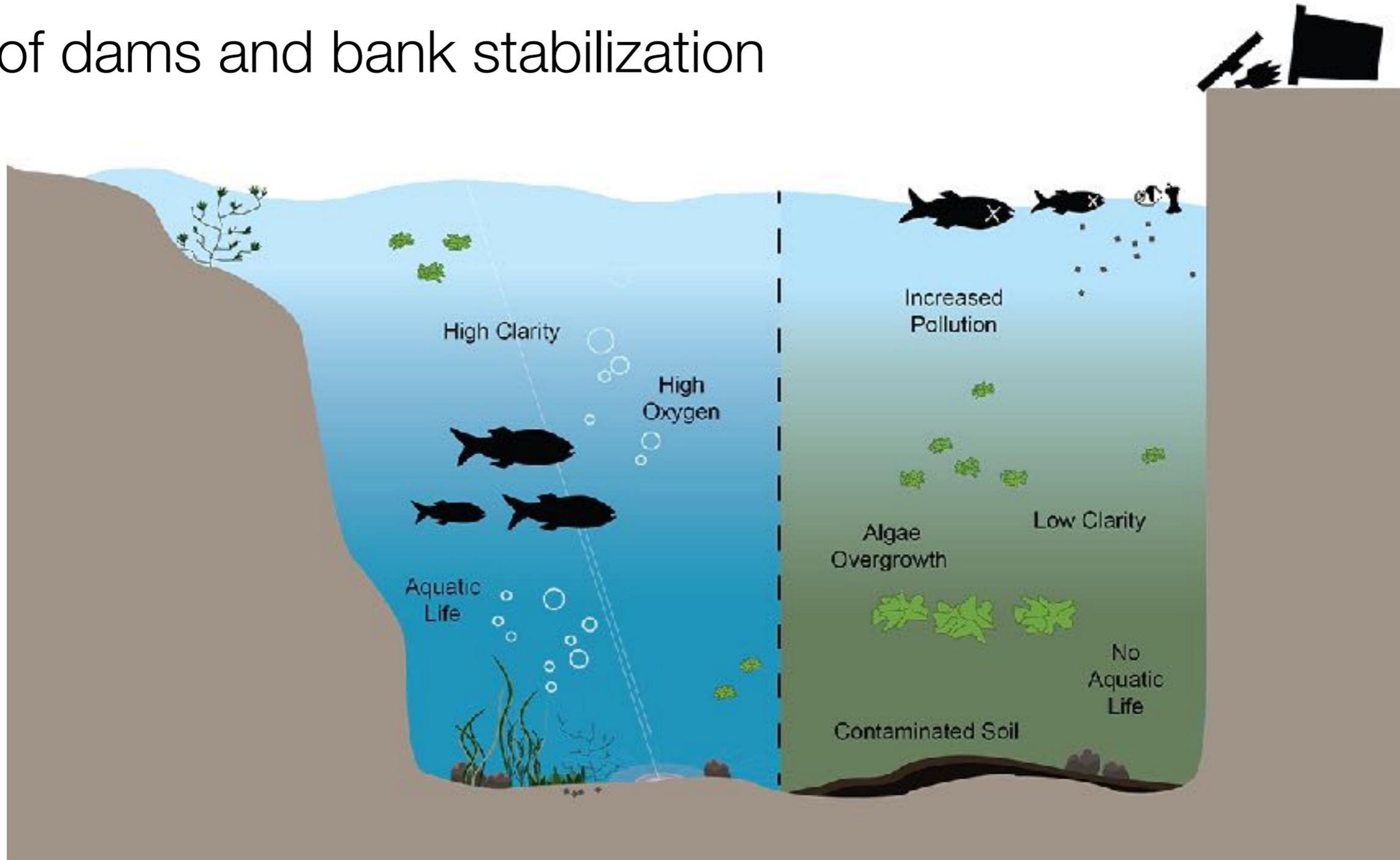


# Water Quality and Quantity

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Is the millrace polluted?

Affects of dams and bank stabilization



# Human Involvement

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# Invasive Species

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## Blackberries!

*Populations of Himalayan blackberry...colonized forest gaps, but in areas where the tree canopy remained intact (>55% coverage), these species were less common.*

Botinal Services and Ecological Assessments  
Willamette Vegetative Habitat Survey and  
Assessment, 2013



Future Question:

How does blackberry growth influence tree growth in riparian habitats?

# The future for the Millrace...

Beautification?

Re-wilding?

Restoration?

