Hidden Lake Dam Removal and Boeing Creek Restoration Project Updates

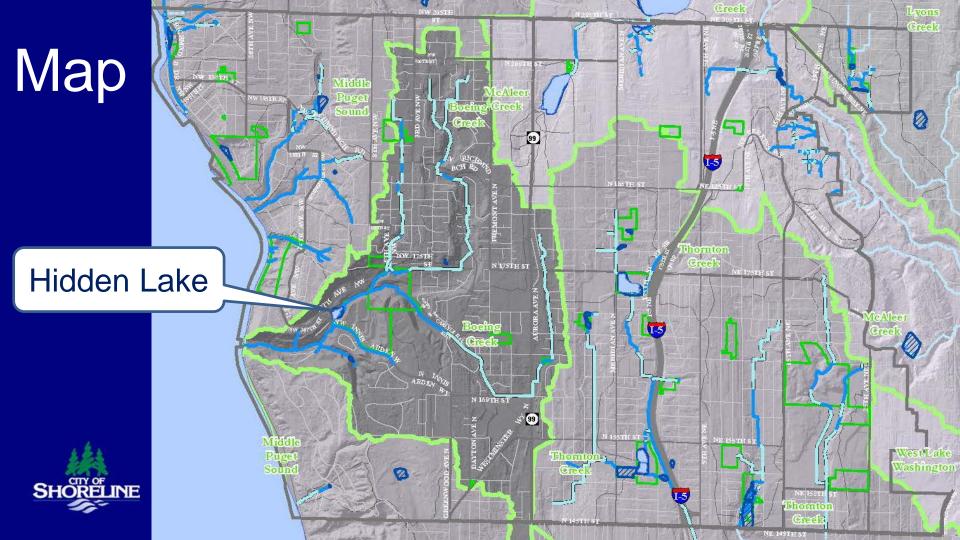
October 2, 2017



Overview

- Background
- Project Updates
- Updated Staff Recommendation
- Discussion





Hidden Lake Current Status



- Last sediment removal in 2013
- Lake expected to fill with sediment by 2020 to 2025
- "No action" not viable due to flood risk

Background

Brief history of Hidden Lake and dam

- Early 20th century private fishing pond origin
- 1996 re-established by King County
- Sedimentation issues
- 2014 Feasibility Study
- 2016 Alternatives Analysis

Background

Priority tasks after May 2016 selection of Alternative 4:

- Further develop Alternative 4 concepts, especially for downstream areas
- Pursue grants
- Monitor Hidden Lake sedimentation
- Collect Boeing Creek flow data





HIDDEN LAKE DAM REMOVAL AND BOEING CREEK RESTORATION PROJECT AREAS

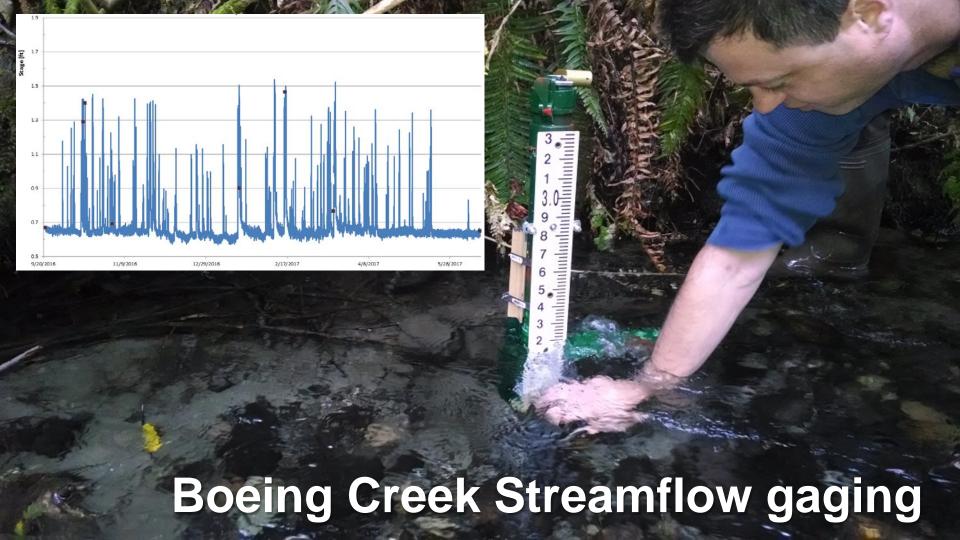
0 250 500 1,000 Feet



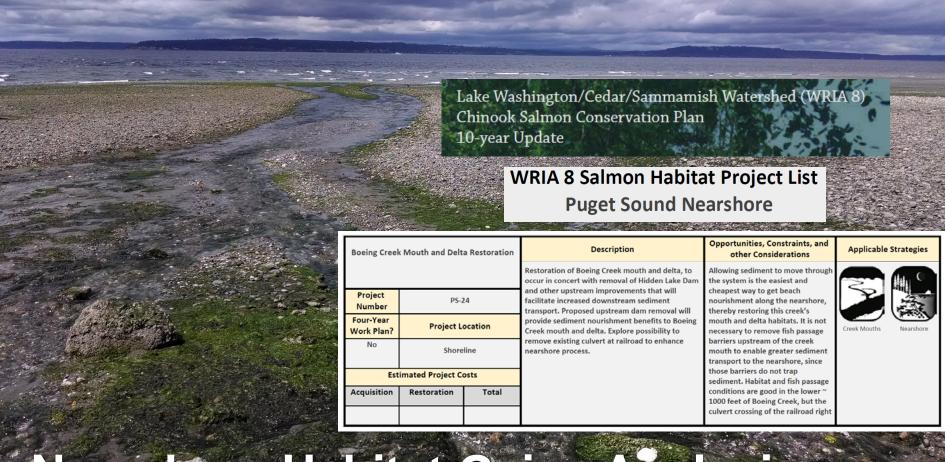
Updates

Since May 2016 (last Council discussion):

- Boeing Creek streamflow gaging
- Hidden Lake sediment monitoring
- Nearshore Habitat Gains Analysis
- Grants
- Lower Boeing Creek Fish Passage Concept
- Surface Water Master Plan Update







Nearshore Habitat Gains Analysis

Grant applications



(Funding unlikely)



\$300,000 for design





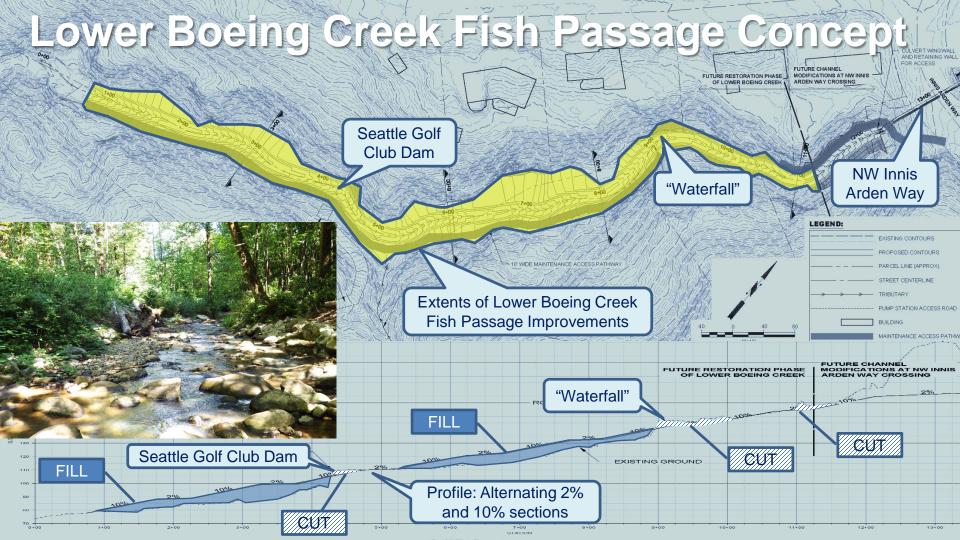




HIDDEN LAKE DAM REMOVAL AND BOEING CREEK RESTORATION PROJECT AREAS

0 250 500 1,000 Feet







Lower Boeing Creek Fish Passage Concept

Results:

- \$6,000,000+ cost
- Unprecedented length and steepness
- Risks construction and maintenance
- Impacts to critical areas
- Unclear benefits to habitat, fish



Surface Water Master Plan Update

- Prioritizations for 40 CIP projects
 - Hidden Lake Dam Removal ranked #5
 - Boeing Creek Restoration ranked #22
- 2018-2023 proposed 6-year CIP funding
 - Hidden Lake Dam Removal: \$2,270,877
 - Boeing Creek Restoration: \$56,275

Updated Staff Recommendation

Necessary to account for:

- Costs, risks, uncertainties of Boeing Creek Restoration concept
- Ongoing need to remove Hidden Lake Dam
- Long-term need to replace NW Innis Arden Way culverts
- Resource availability and limitations



Updated Staff Recommendation

Hidden Lake Dam Removal Project:

- Proceed as scheduled
- Include replacement of NW Innis Arden Way culverts in design phase



Updated Staff Recommendation

Boeing Creek Restoration Project:

- Discontinue further development of project concepts
- Share results of analysis with lower Boeing Creek stakeholders



Next Steps

- 2017: finish NW Innis Arden Way culvert replacement concepts
- 2018-2019: Design and permitting
- 2020: Hidden Lake Dam Removal
- Ongoing: Monitor Hidden Lake sedimentation and Boeing Creek flows, pursue grants



Questions?



Painting of Boeing Creek in Shoreview Park by artist and Shoreline resident Paul Lewing

