

Draft Cleanup Action Plan

R.G. Haley Site



Public Meeting
February 28, 2018



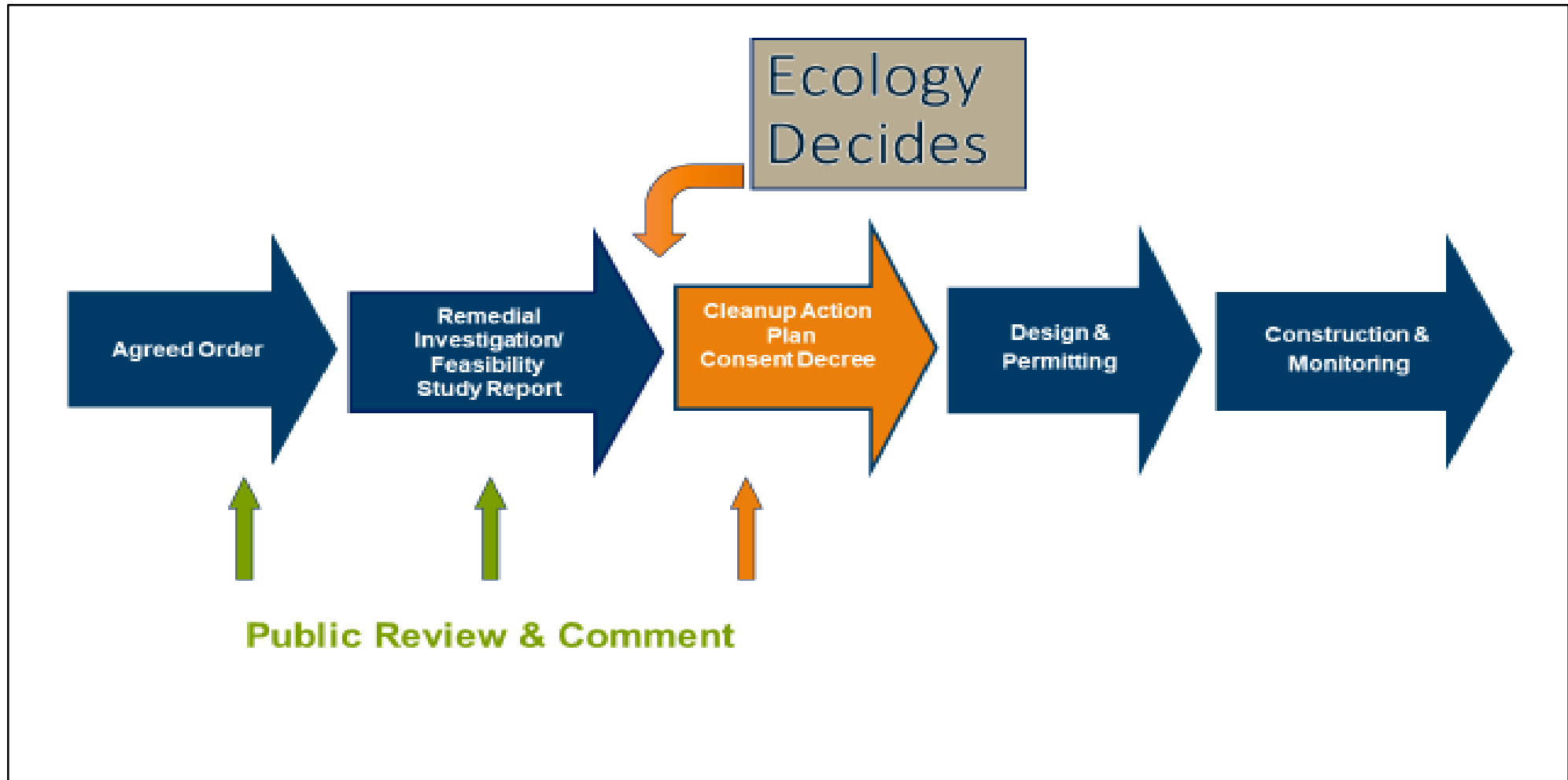
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Why We're Here Today:

Public Comment Period:

- **Cleanup Action Plan**
- Agreed Order
- SEPA Determination
- Public Participation Plan

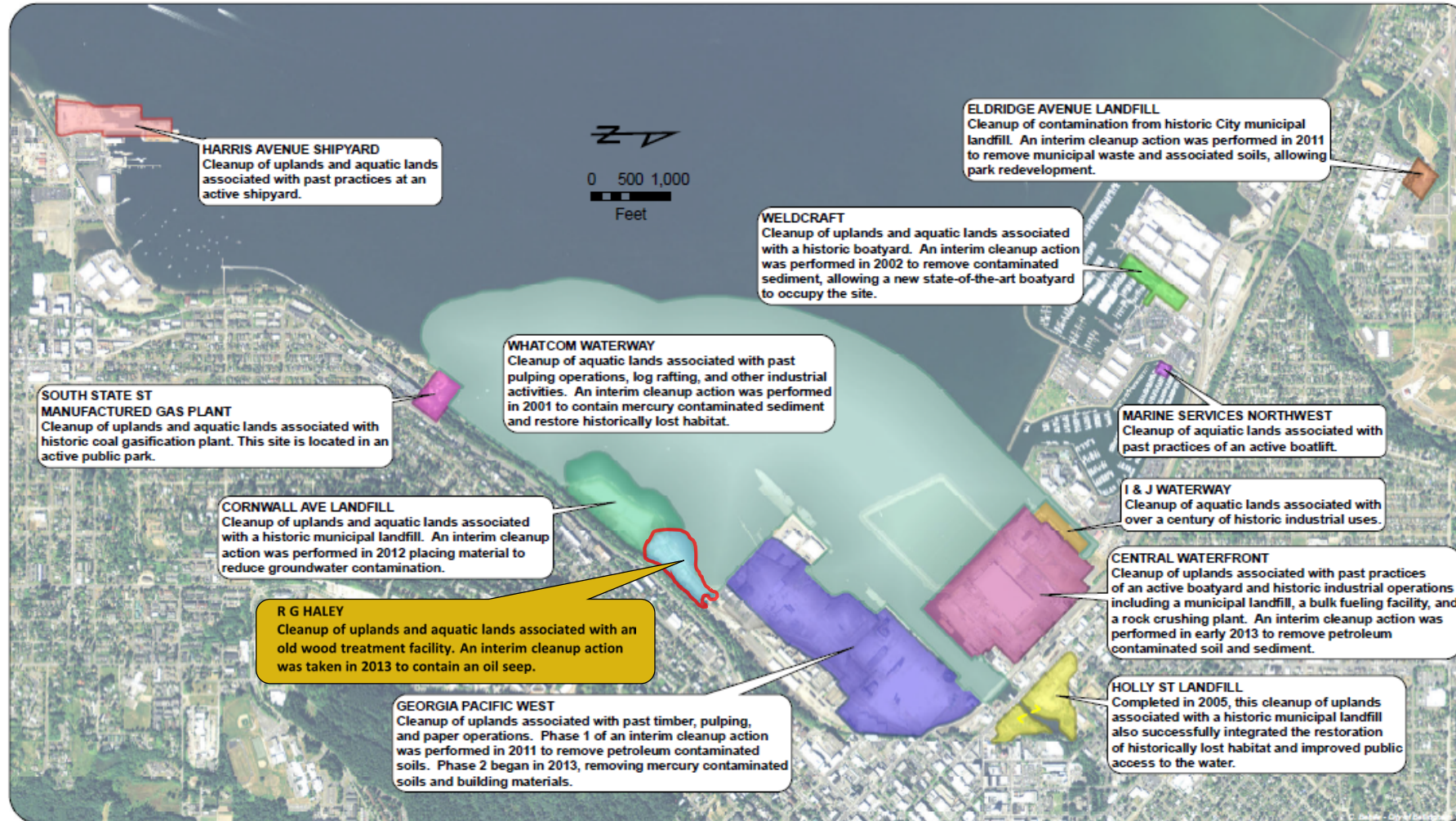




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Bellingham Bay MTCA Sites

5/2/2014




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Site History



Key Contaminants and Affected Media

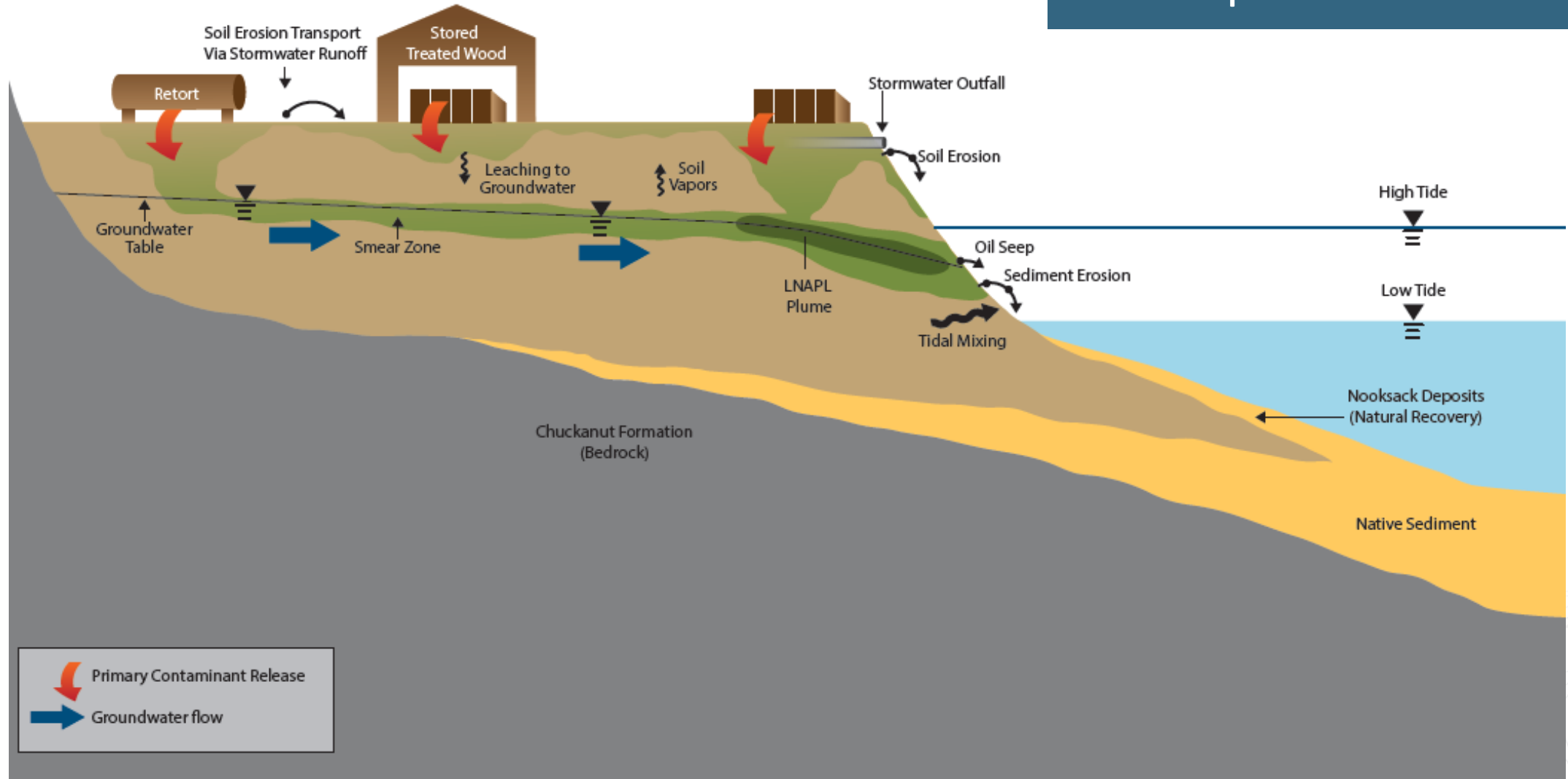
An aerial photograph of an industrial facility. In the foreground, there is a large body of water, possibly a reservoir or a large pond, with several wooden structures or rafts floating in it. The facility itself consists of several large, rectangular buildings with light-colored roofs, some of which appear to be made of metal. There are also smaller structures and what looks like a parking lot or storage area with various vehicles and equipment. A road or path curves around the facility. In the background, there is a highway with a few cars visible. The overall scene suggests a large-scale industrial or manufacturing site.

- Petroleum
- Pentachlorophenol
- Dioxins
- cPAHs

Affected Media:

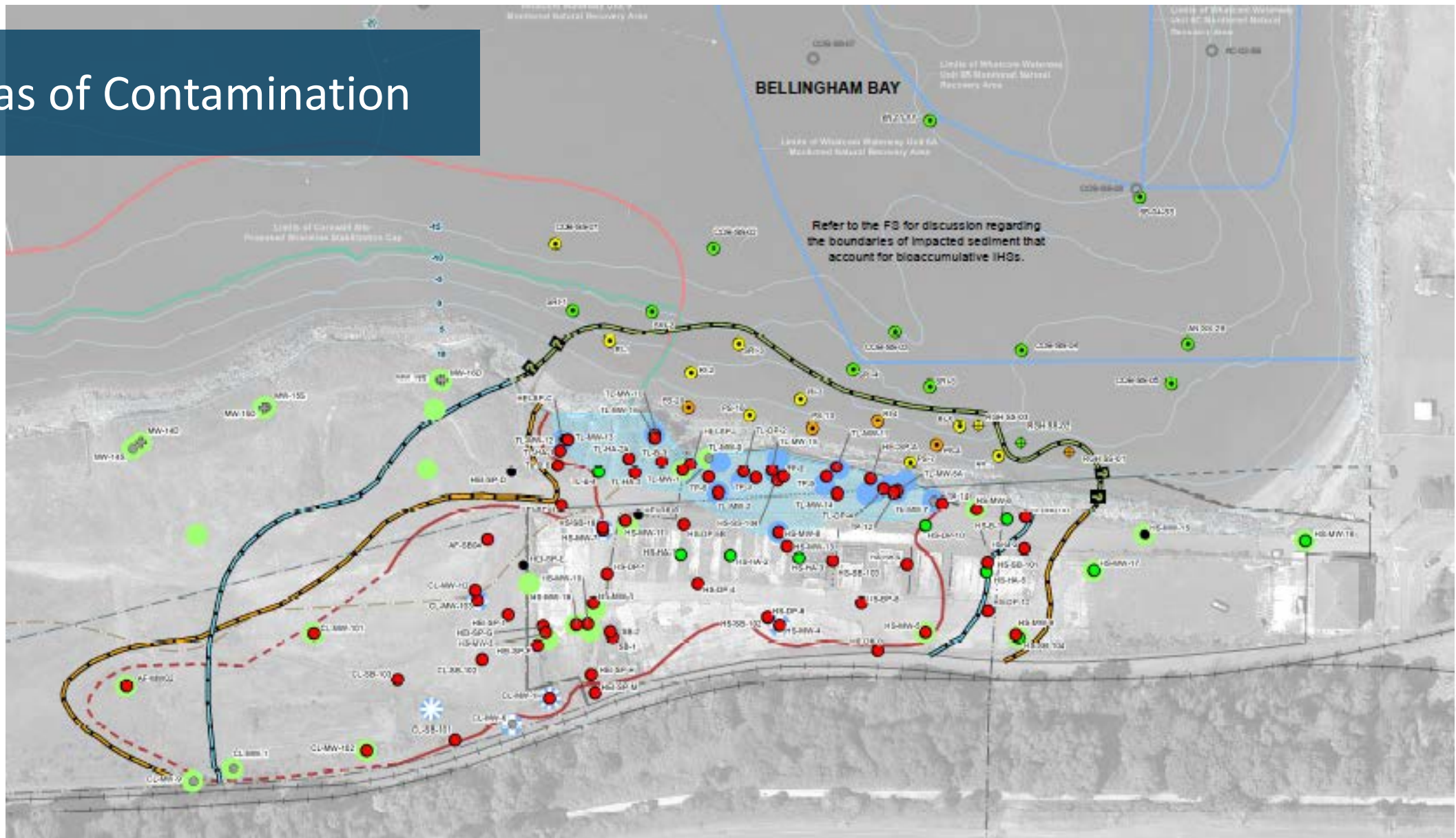
- Soil/Soil Vapor
- Groundwater
- Sediment

Conceptual Site Model



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Areas of Contamination

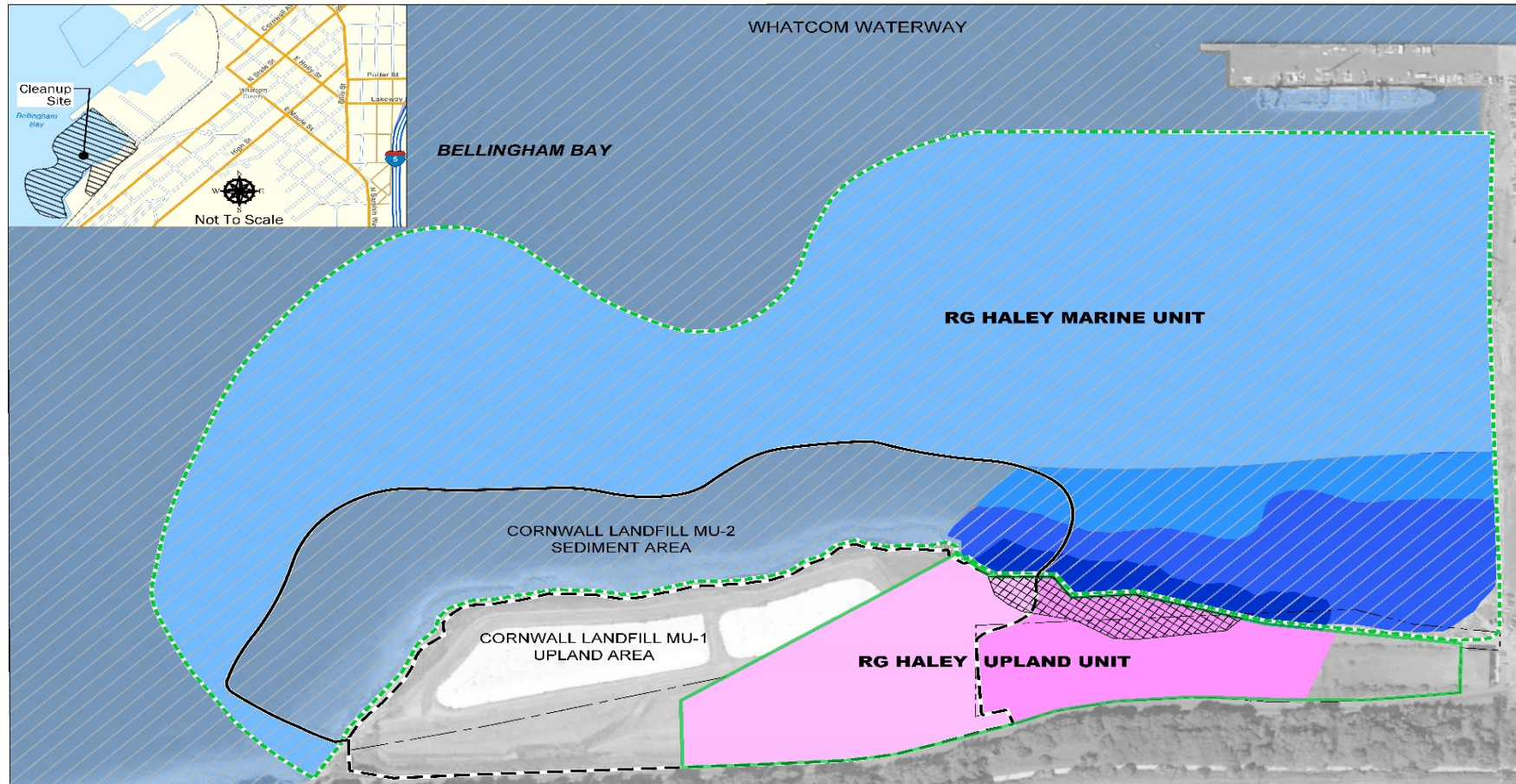


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Post RI Sampling



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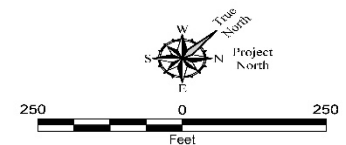


OVERLAPPING CLEANUP SITES

- RG Haley Upland Unit Boundary
- RG Haley Marine Unit Boundary
- Cornwall Landfill MU-1 Upland Area Boundary
- Cornwall Landfill MU-2 Sediment Area Boundary
- Whatcom Waterway Sediment Site

RG HALEY CLEANUP PLAN

- RG Haley Low-Permeability Soil Cap
- Combined RG Haley/Cornwall Low-Permeability Soil Cap
- Soil Solidification
- Sediment Removal and Cap
- Sediment Cap
- Enhance Naturally-Accumulating Sediment Cap
- Monitor Naturally-Accumulating Sediment Cap



Cleanup Plan
RG Haley Site
Bellingham, WA



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Feasibility Study – Evaluate Cleanup Alternatives

Remedial Technologies



Assemble Alternatives

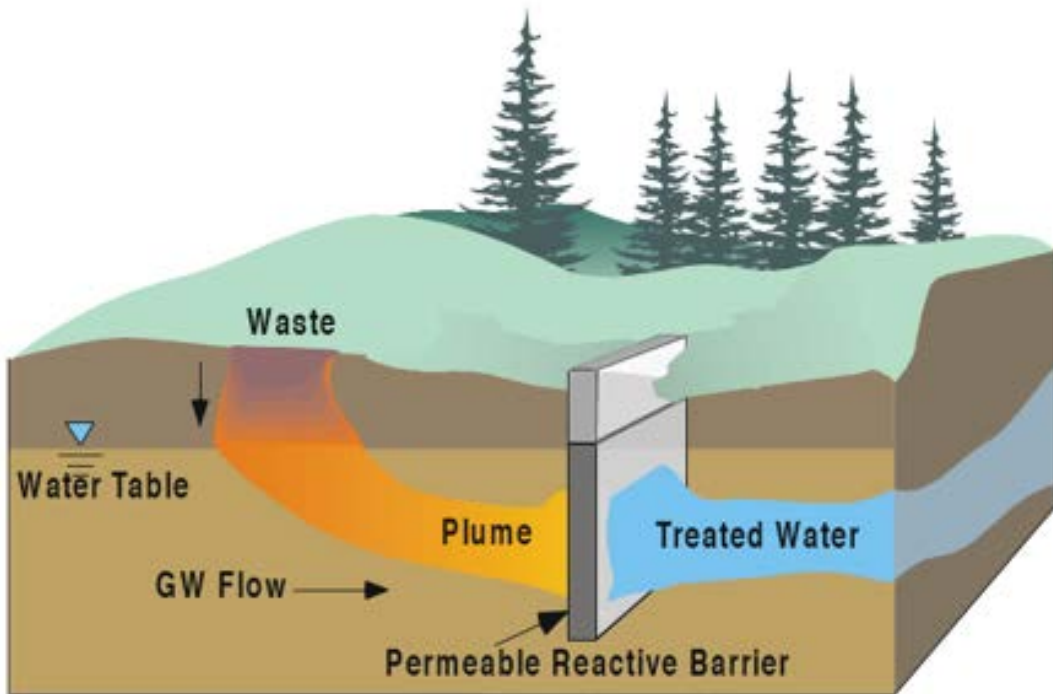
Alternatives cost range:
\$14M - \$180M



Vertical Shoreline Barrier



Vertical Shoreline Barrier



Oil Removal



In-Situ Soil Treatment



Soil Removal / Incineration



Upland Cap



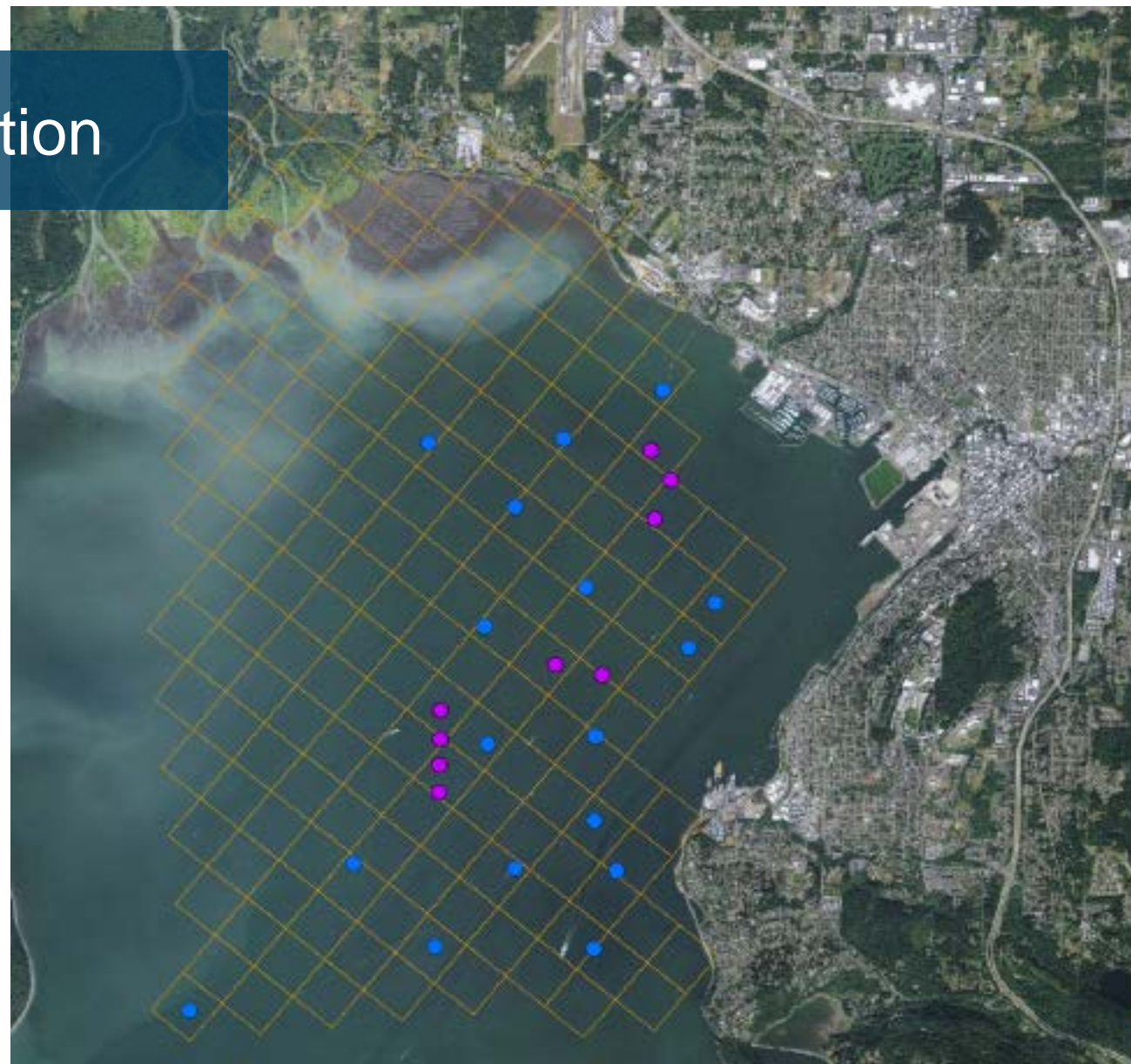
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Sediment Removal:



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Natural Sedimentation



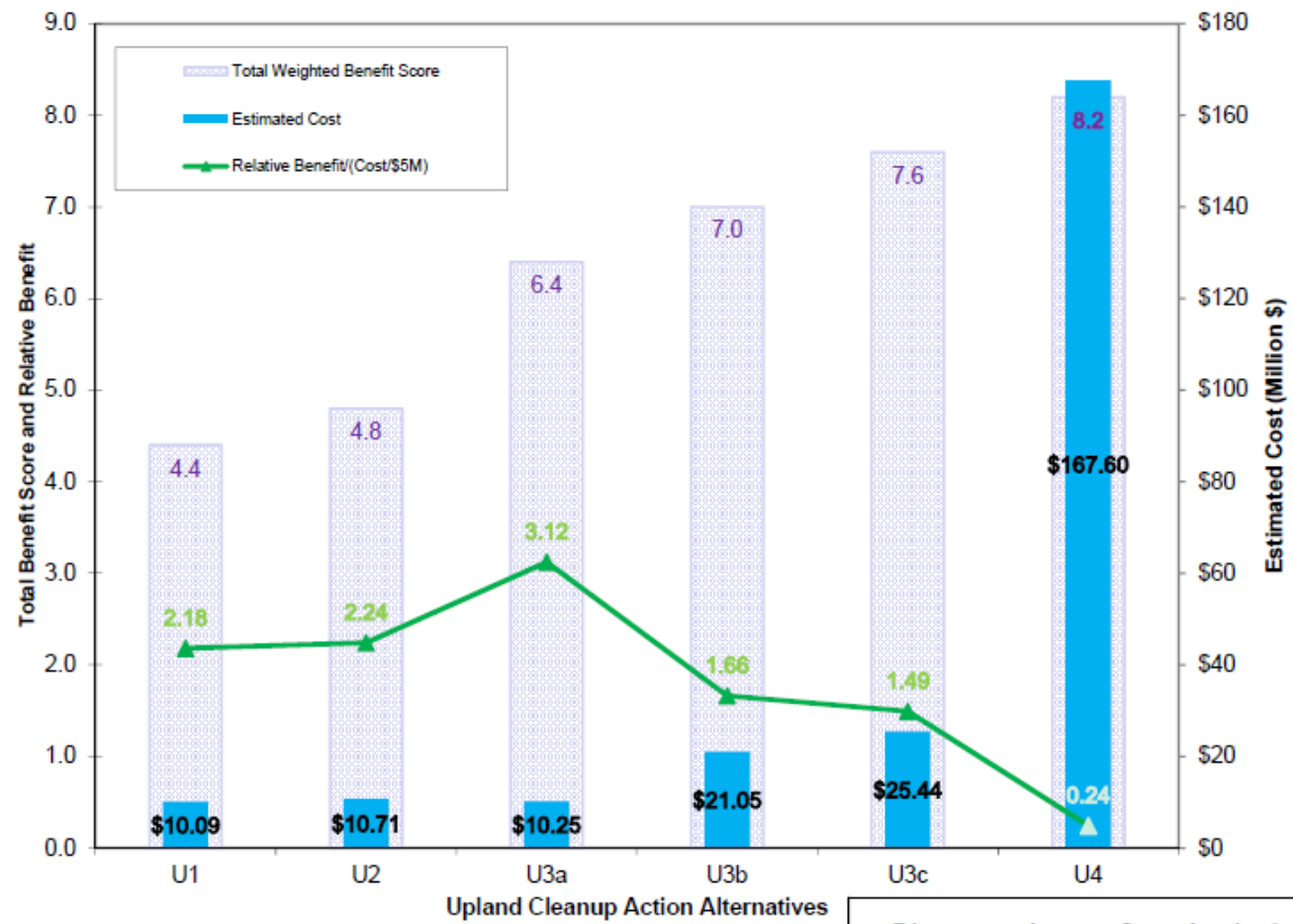
Bellingham Bay

Legend

- Station locations
- Station with type of turbidity


0 5 10 20
Kilometers



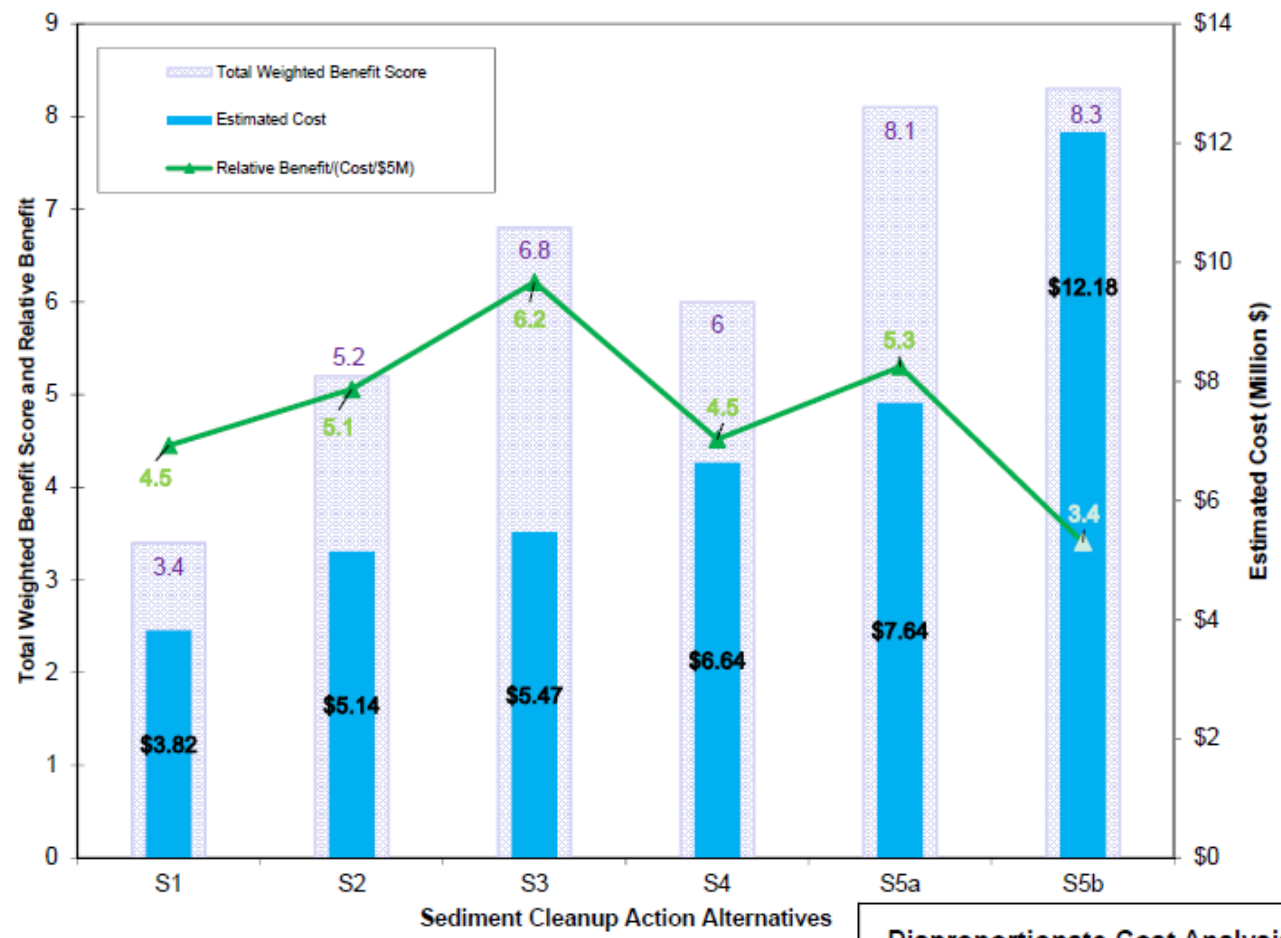


Disproportionate Cost Analysis - Upland

RG Haley Site
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GEOENGINEERS  **Figure 9-24**



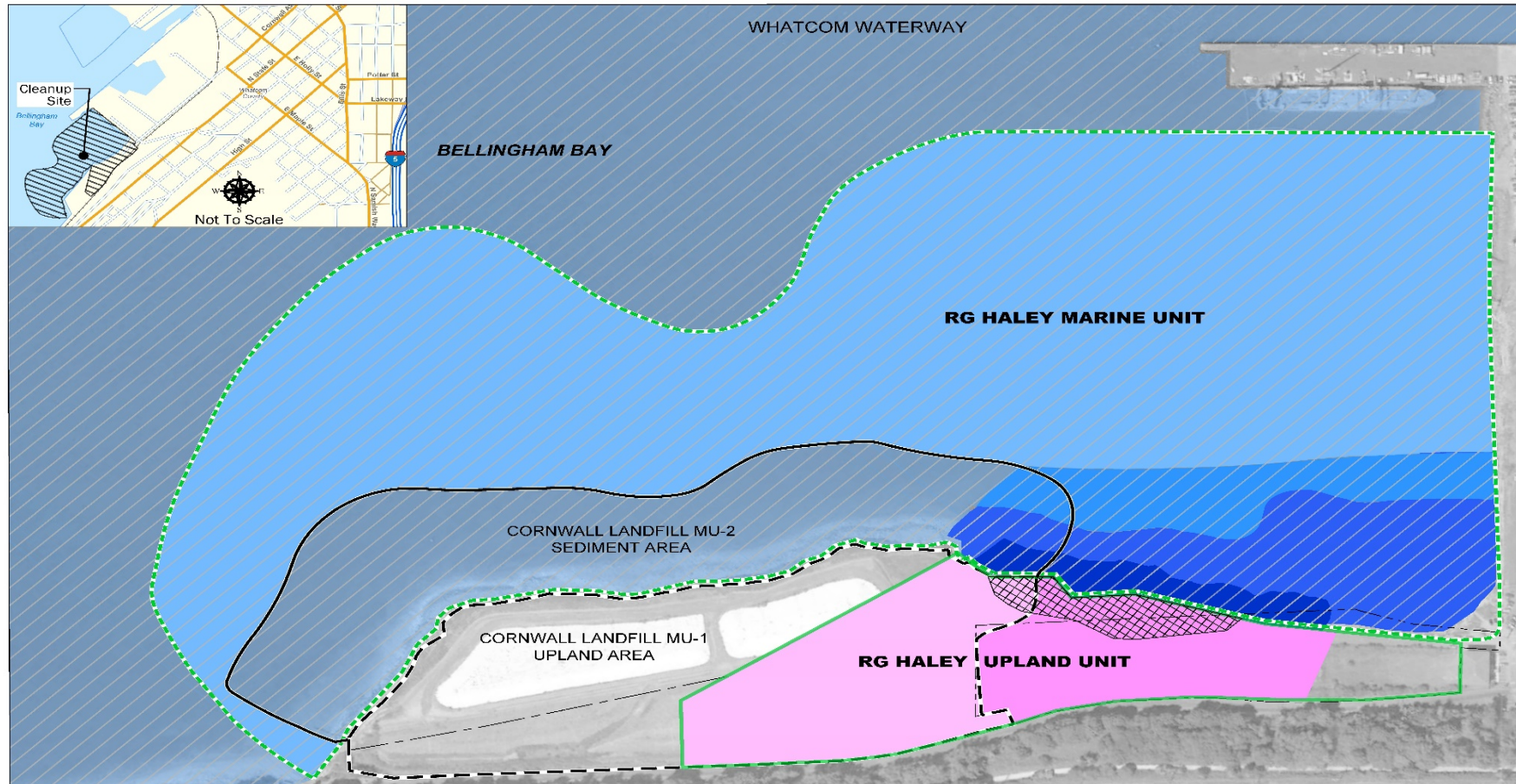


Disproportionate Cost Analysis - Sediment

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GEOENGINEERS  **Figure 9-25**




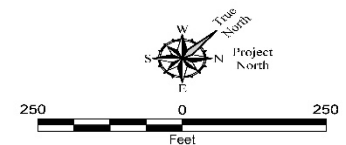


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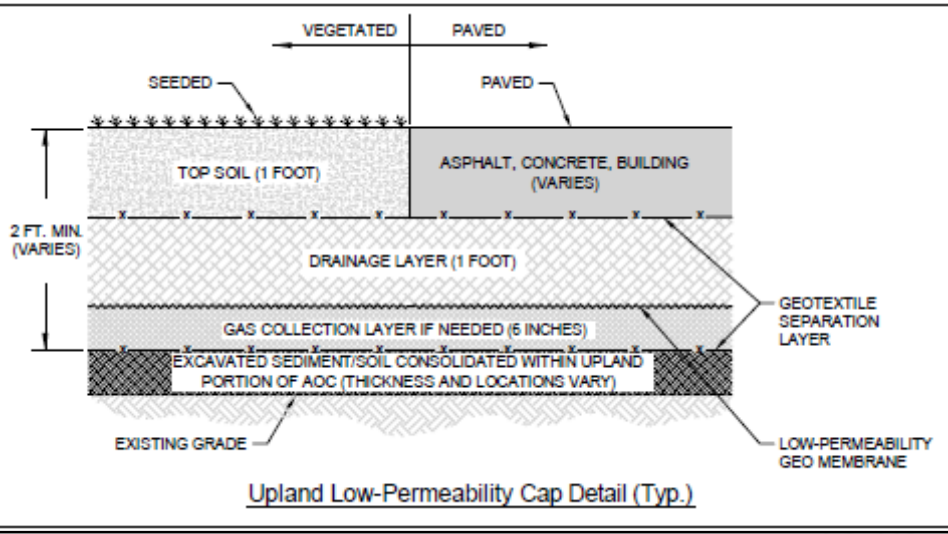
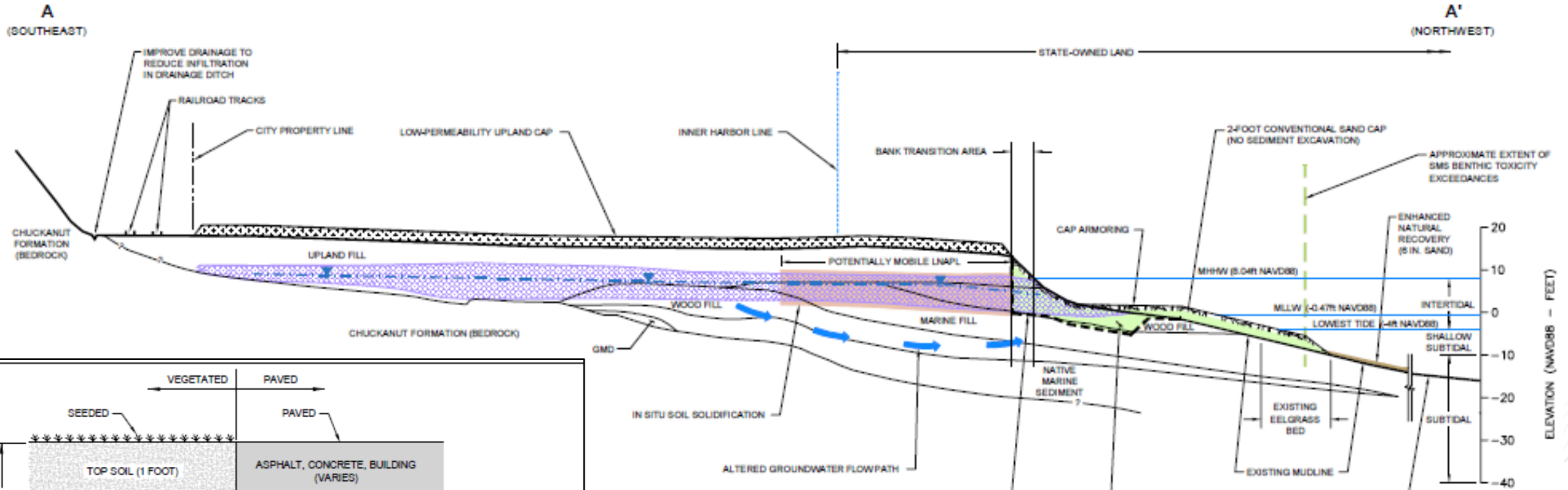


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Preferred Alternative From FS



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Coordination with Cornwall Site

- Integrated upland gas control and capping systems in overlap area
- Sequencing of aquatic cleanup elements
- Implementation of cleanup actions for both sites likely to be implemented as a single construction project



Next Steps

- Finalize the CAP and AO (after public comment): April 2018
- Engineering Design: April 2018 – April 2019
- Permitting: January 2019 - ??

How to Comment:

Comment Period: February 20 – March 21, 2018

- Online
 - Bit.ly/RGHaley-CAP-comments
- Use comment card on sign-in table
- Mark Adams – Site Manager
 - 3190 160th Avenue SE
 - Bellevue, WA 98008-5452
 - (425) 649-7107
 - Mark.Adams@ecy.wa.gov

