



Public Meeting

Central Waterfront Cleanup Site

Draft Cleanup Action Plan

September 18, 2019



Meeting Purpose & Agenda

- Introductions, Meeting Purpose & Public Participation Overview lan Fawley - Ecology
- Ecology Role, MTCA Process & Requirements John Guenther - Ecology
- Site History & Sub-Areas
 - Ben Howard Port of Bellingham
- Contaminant Exposure Pathways & Current Conditions

Sylian Rodriguez, Julia Fitts – Anchor QEA

- Previous & Future Site Cleanup Work John Guenther - Ecology
- Closing & Next Steps John Guenther, Ian Fawley - Ecology
- Questions & Answers

Meeting Purpose

To present information on the Draft Cleanup Action Plan for the Central Waterfront Cleanup Site

- Describe State Cleanup Process
- Describe the site history and exposure pathways
- Describe current conditions
- Discuss previous cleanup work and the proposed cleanup action
- Outline the legal agreement between Ecology and the Port of Bellingham/City of Bellingham
- Opportunity for public to ask questions, obtain additional information and provide input

MTCA Process

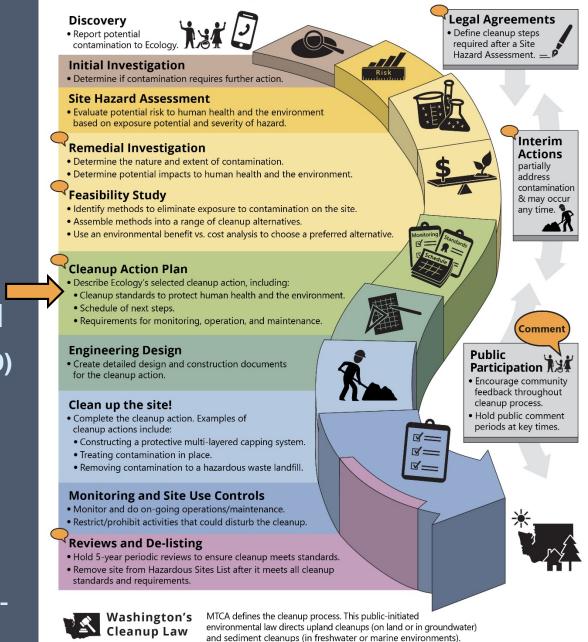


Second 30-Day Comment Period

(Sept 16 – Oct 15, 2019)

- Cleanup Action Plan
- Agreed Order Amendment
- State Environmental Policy Act – Determination of Non-Significance

ECOLOGY State of Washington's Formal Cleanup Process



Model Toxics Control Act (MTCA) Ecology enacts MTCA and regulates the cleanup process.

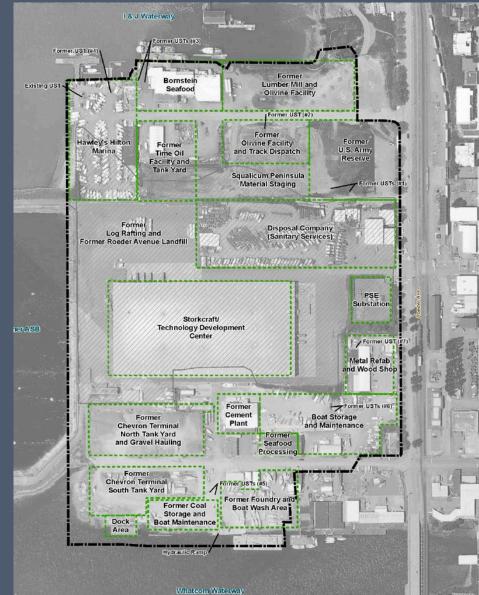
September 2019 Ecology Publication 19-09-166

Central Waterfront Site Location



Site History & Uses

- Municipal Landfill
- Lumber Mill
- Boat Maintenance/Storage
- Bulk Fuel Terminal
- Olivine Processing Plant
- Fueling Operations
- Foundry Operations
- Miscellaneous Industrial Uses

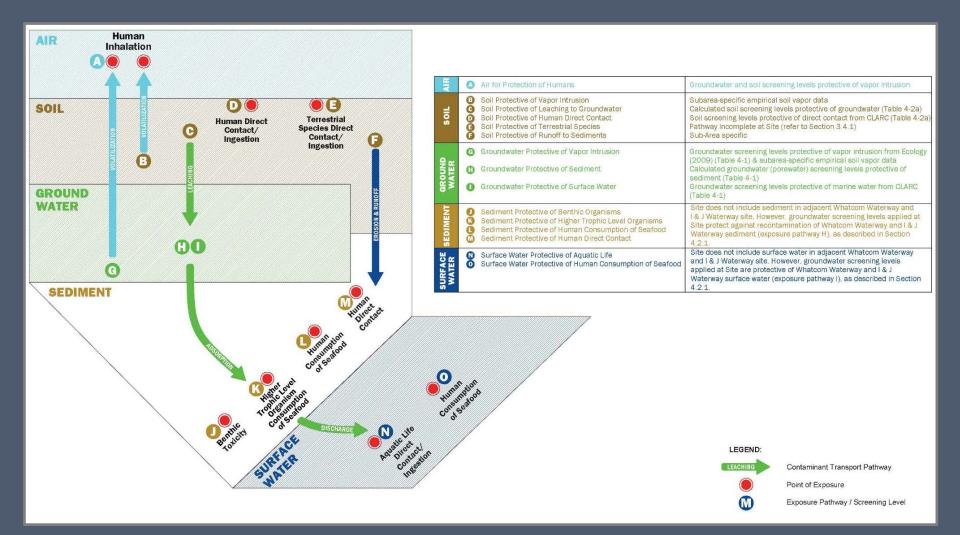


•• • "Sub-Areas"

- Hilton Ave Properties
- Landfill
- C Street Properties



Exposure Pathways



Hilton Ave Properties - Conditions

- Soil impacts from industrial activities
 - Petroleum
 - Volatile Organic Compounds (VOCs)
 - Metals
 - Polycyclic Aromatic Hydrocarbons (PAHs)



Landfill - Conditions

- Refuse and groundwater impacts from landfill
 - Refuse
 - Landfill Gas
 - Volatile Organic Compounds (VOCs)
 - Metals
 - Polycyclic Aromatic
 Hydrocarbons (PAHs)



C Street Properties - Conditions

- Soil and groundwater impacts from bulk fueling and boat yard activities
 - Petroleum
 - Metals
 - Polycyclic Aromatic Hydrocarbons (PAHs)
- Shoreline work completed as part of Whatcom Waterway Cleanup



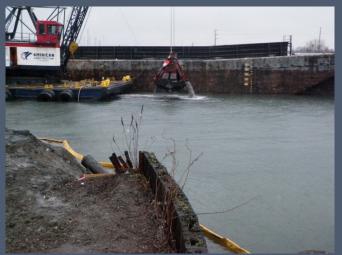
Elements of the Cleanup

- Clay Berm/ASB Construction
- UST Decommission
- Tissue Warehouse (capping)
- Whatcom Waterway
 Containment Wall, Dredging and Capping
- Chevron Independent and Interim Actions
- C Street Terminal Interim Action
- All American Marine Interim Action



Previous Cleanup Work

Whatcom Waterway Containment Wall, Dredging and Capping





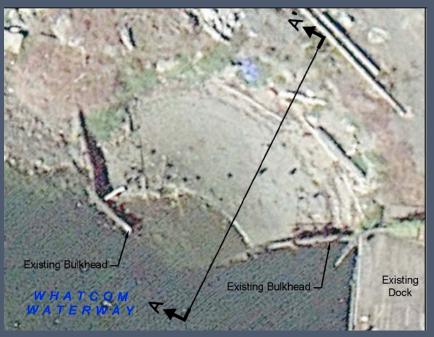




Previous Cleanup Work

Chevron Independent and Interim Actions







MTCA Cleanup Requirements

- Remedial Action Objectives
- Cleanup Standards
 - Chemical- and media-specific
 - Protective of human health and the environment
- Points of Compliance
 - Location where cleanup level must be attained
- Applicable, Relevant, and Appropriate Requirements
 - Local, state, and federal laws

Disproportionate Cost Analysis

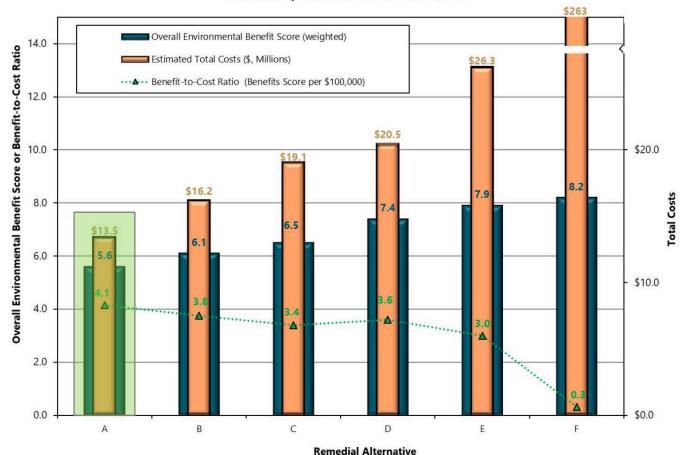
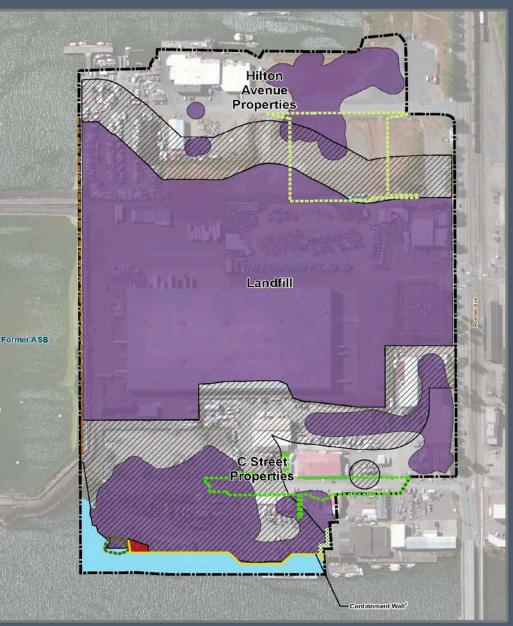


Figure 5-2 Relationship Between Benefits and Costs

Preferred Cleanup Action

- Soil / Refuse Cap
- Hotspot Soil Removal
- Landfill Gas Controls
- Monitored Natural Attenuation
- Contingent Groundwater Treatment



Next Steps

- Draft Cleanup Action Plan Public Comment Period
 - 30-day public comment ends October 15th
 - Ecology response to comments
 - Ecology Finalize Cleanup Action Plan based on comments received
- Cleanup Design & Permitting, 2019-2020
- Cleanup Construction, 2021
- Long Term Monitoring, 2021 and beyond

Ecology Wants Your Comments

Document Availability

Ecology's Web Site:

bit.ly/CentralWaterfront

Document Repositories

- Bellingham Library Main Branch
- Ecology's Bellingham Field Office 913 Squalicum Way
- Ecology's Northwest Regional Office Bellevue

Submit Comments by October 15, 2019

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Questions?

