DEPARTMENT OF ECOLOGY
State of Washington

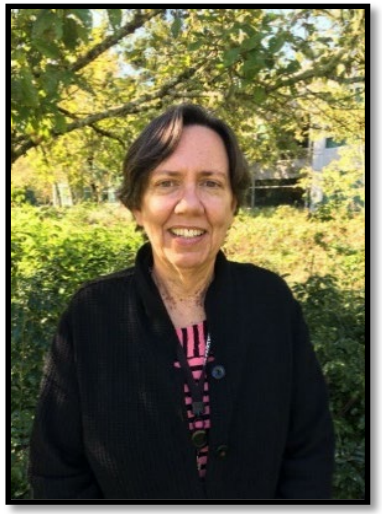
Hungry Whale Grocery Cleanup

Online Informational Meeting Wednesday, June 22, 2022, 5:00 pm

Presentation Team

Rebecca Lawson
Southwest Region Section Manager
Toxics Cleanup Program

Andrew Smith
Unit Supervisor/Site Manager
Hungry Whale Grocery Site



Nancy Davis
Facilitator

Agustina Cartagena-McLean
Spanish Translator/Traductora de español

Matt Fuller
Host

Hungry Whale Grocery Cleanup Online Informational Meeting

Outline

- Welcome and introductions
- Model Toxics Control Act (MTCA) cleanup process
- Hungry Whale Grocery cleanup site & proposed cleanup
- Questions/answers
- Comment period open through July 5

Comment Period open until July 5, 2022

- Remedial Investigation/Feasibility Study RI/FS
- Draft Cleanup Action Plan dCAP
- Agreed Order DE 20344
- State Environmental Policy Act Determinination of Non-significance

Website/Sitio web https://apps.ecology.wa.gov/cleanupsearch/site/4988

Comment online/Comentarios en línea: http://tcp.ecology.commentinput.com/?id=FjchP

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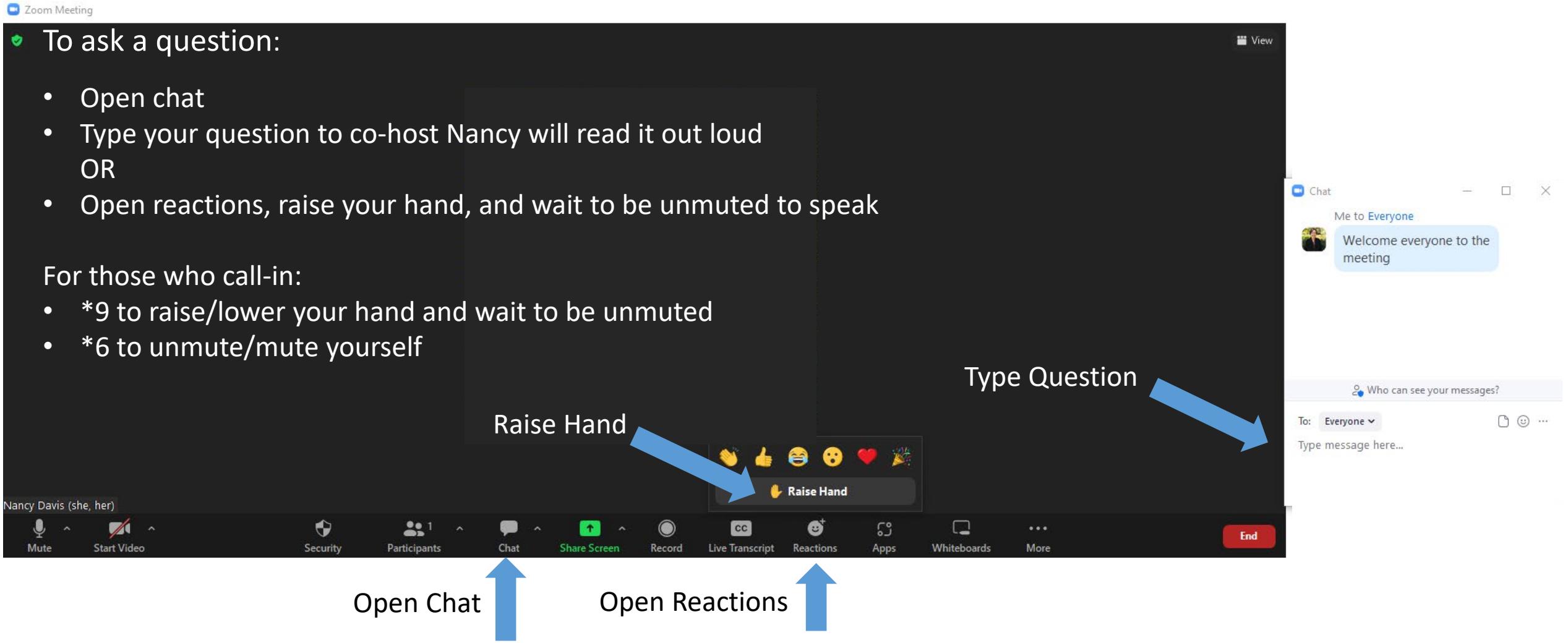
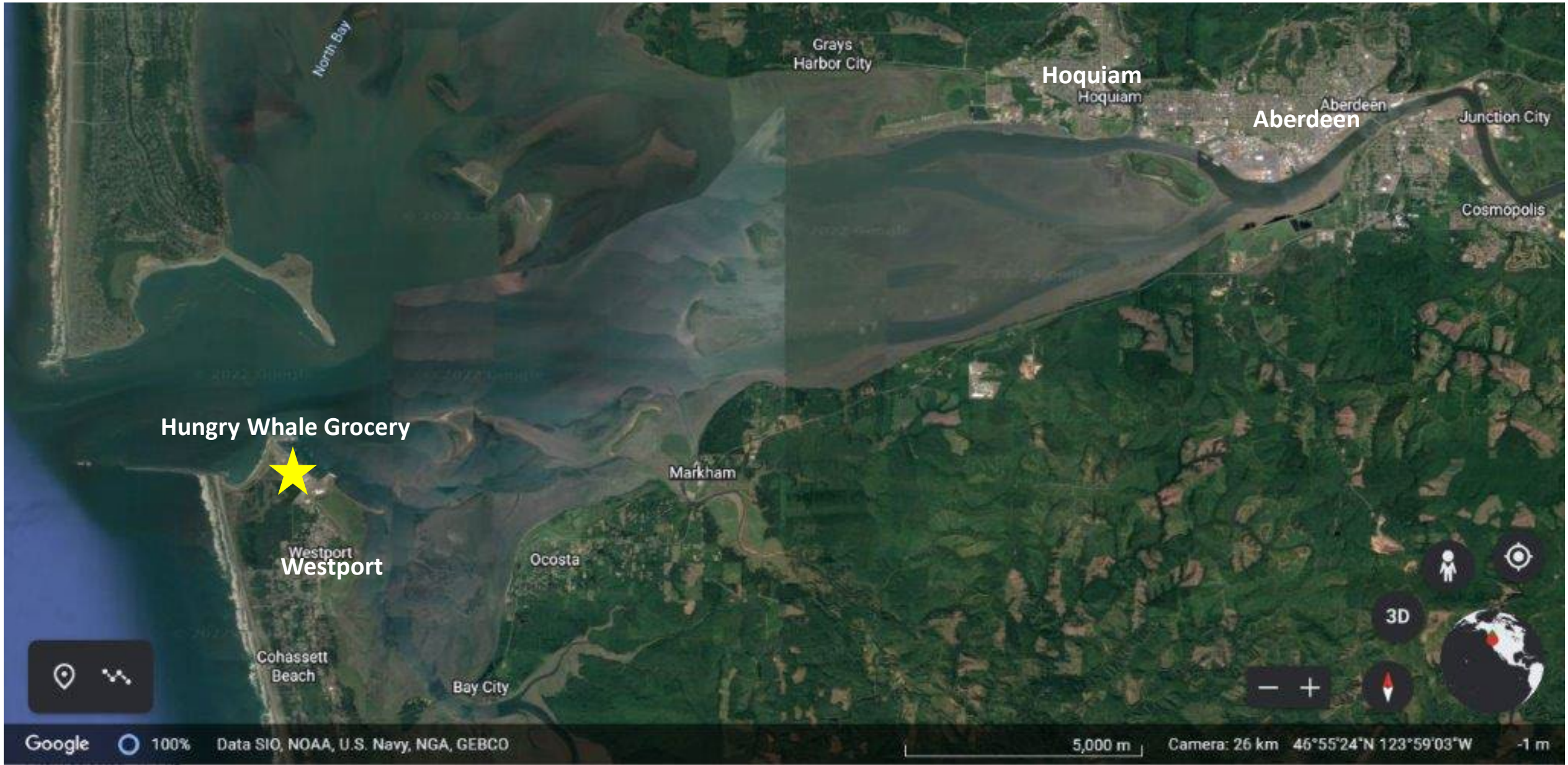
Fact Sheet: https://apps.ecology.wa.gov/cleanupsearch/document/112256

Participate in the Q & A

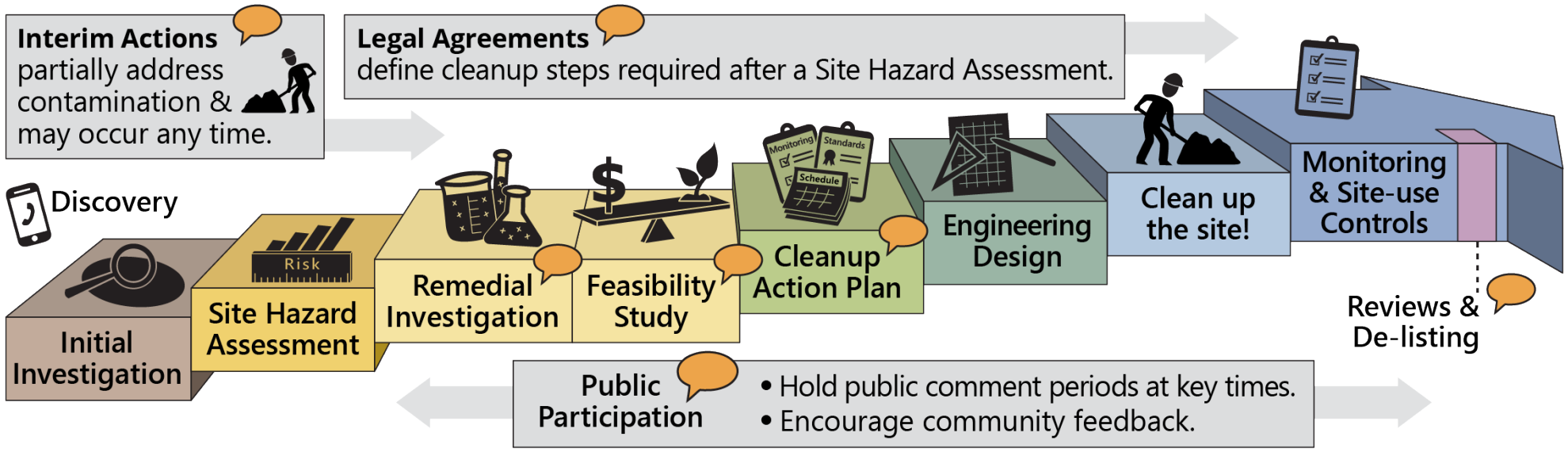


We will read questions and acknowledge raised hands in the order they are received. Please be patient.

Grays Harbor



The MTCA Cleanup Process (Model Toxics Control Act)



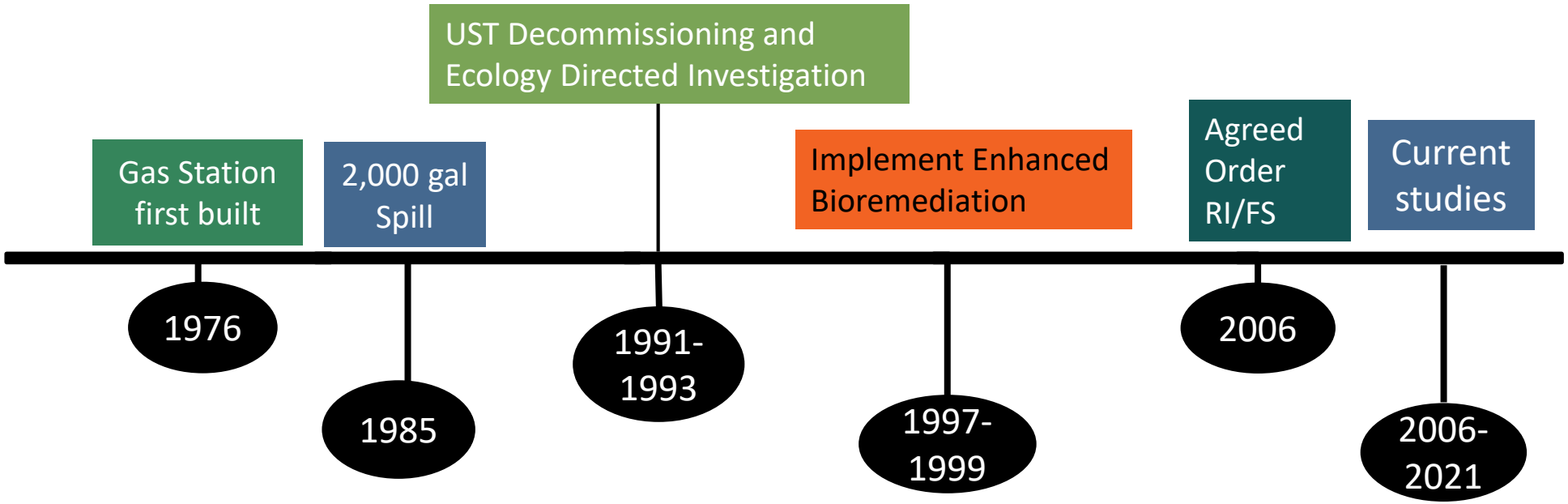
Hungry Whale Grocery Cleanup

Hungry Whale Grocery location in Westport

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, WESTPORT, WASHINGTON

Figure 1 in the Agreed Order

Site History of Hungry Whale Grocery



Hungry Whale Grocery Cleanup

1977

2016

Current Site Conditions

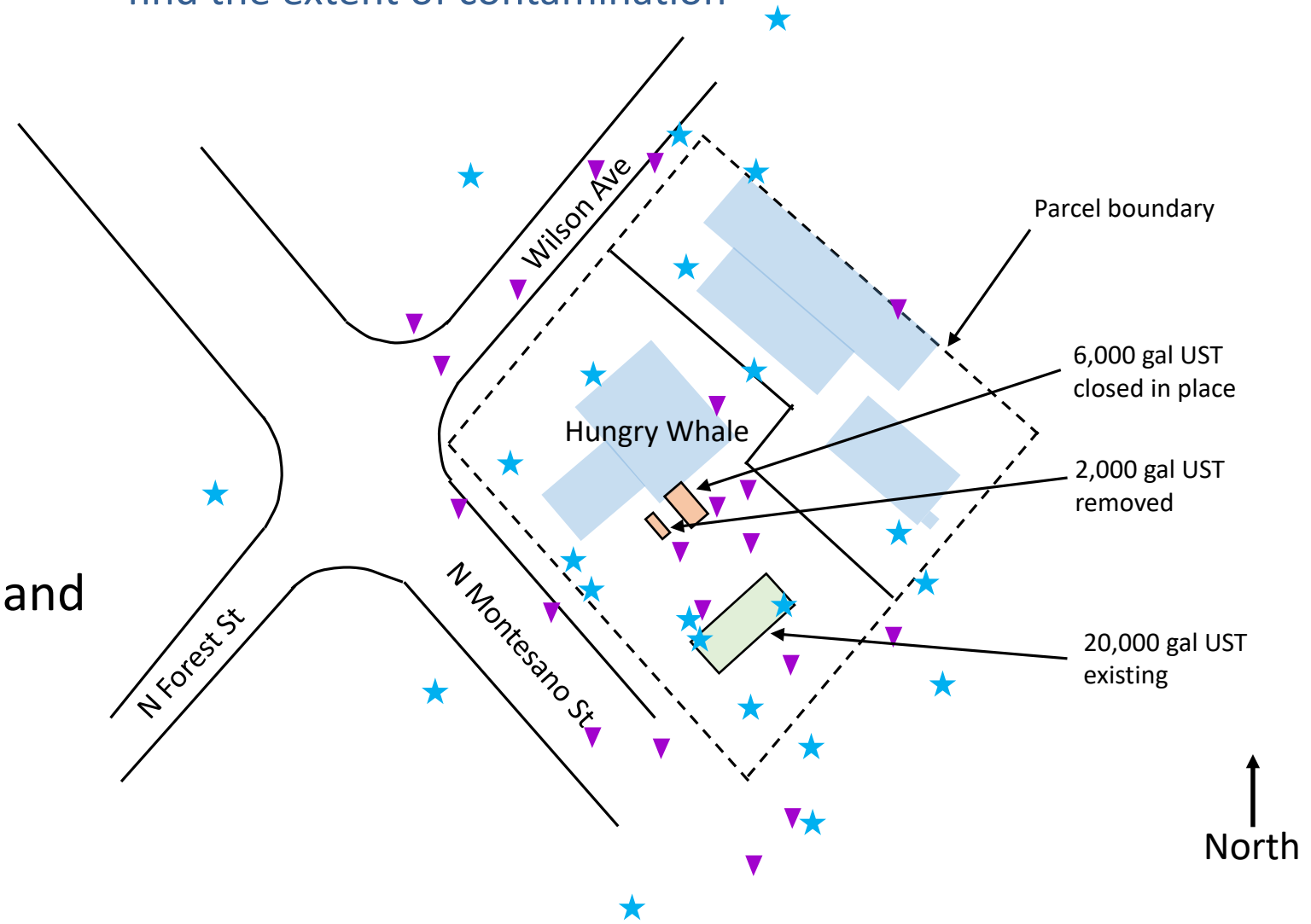
Remedial Investigation:

- identify the contamination
- find the extent of contamination

Sampling Locations

▼ Soil sampling (bore hole) to identify and find extent soil contamination.

★ Groundwater sampling (monitoring well) to identify and find extent groundwater contamination .



Remedial Investigation: soil and groundwater analyses to identify contaminants

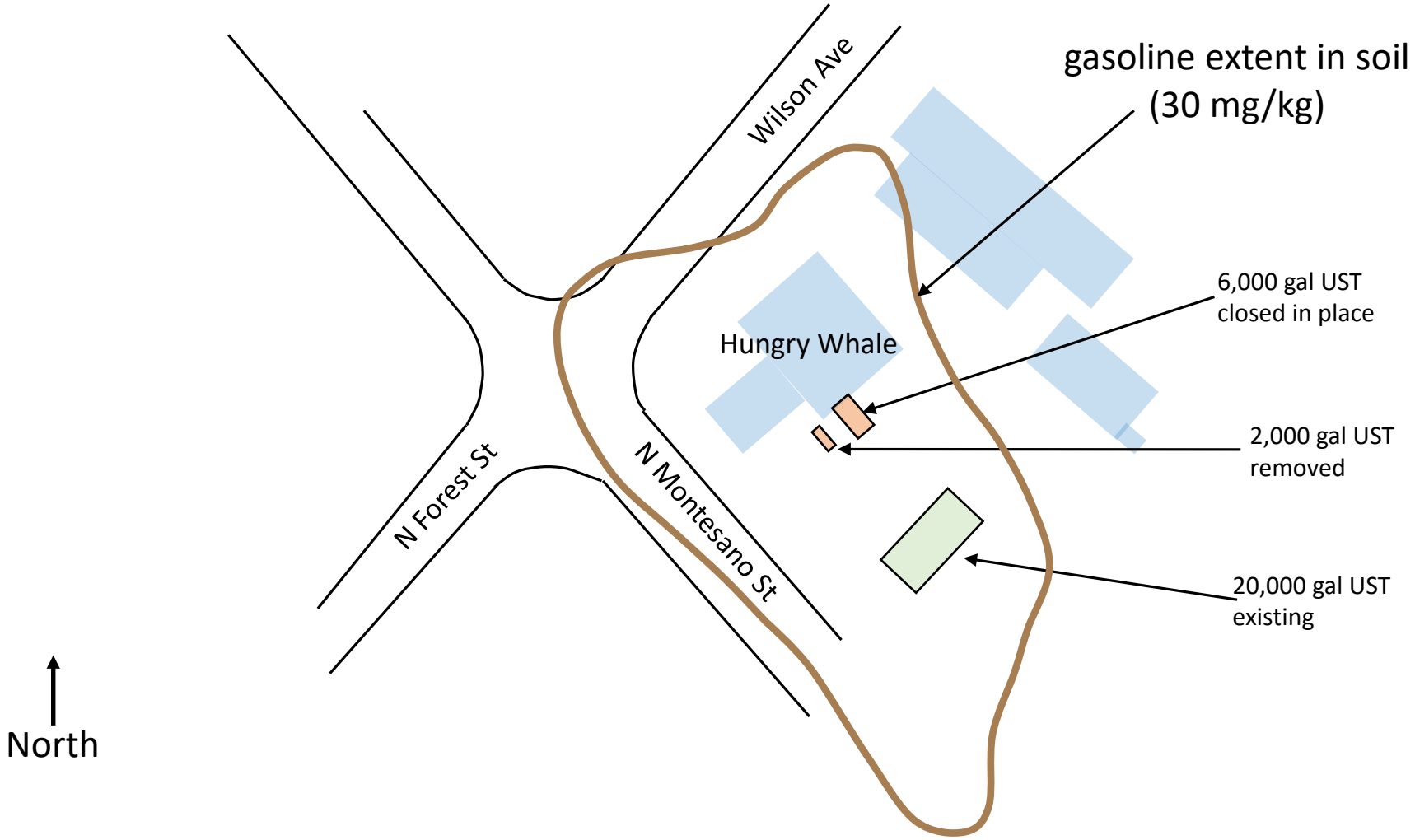
- Total Petroleum Hydrocarbons as gasoline
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Naphthalene
- MTBE
- EDC

Remedial Investigation: determine if contaminants are above MTCA cleanup levels

Results for soil

Media	Contaminant	MTCA Cleanup Level	Range of Results	Unit
Soil	TPH as Gasoline	30	42-16,000	mg/kg or part per million
	Benzene	0.03	0.05-29	mg/kg or part per million
	Toluene	7	9.9-580	mg/kg or part per million
	Ethylbenzene	6	9.3-230	mg/kg or part per million
	Xylenes	9	9.3-1,380	mg/kg or part per million
	Naphthalene	5	5.5-100	mg/kg or part per million

Remedial Investigation: determine extent of gasoline contamination in soil



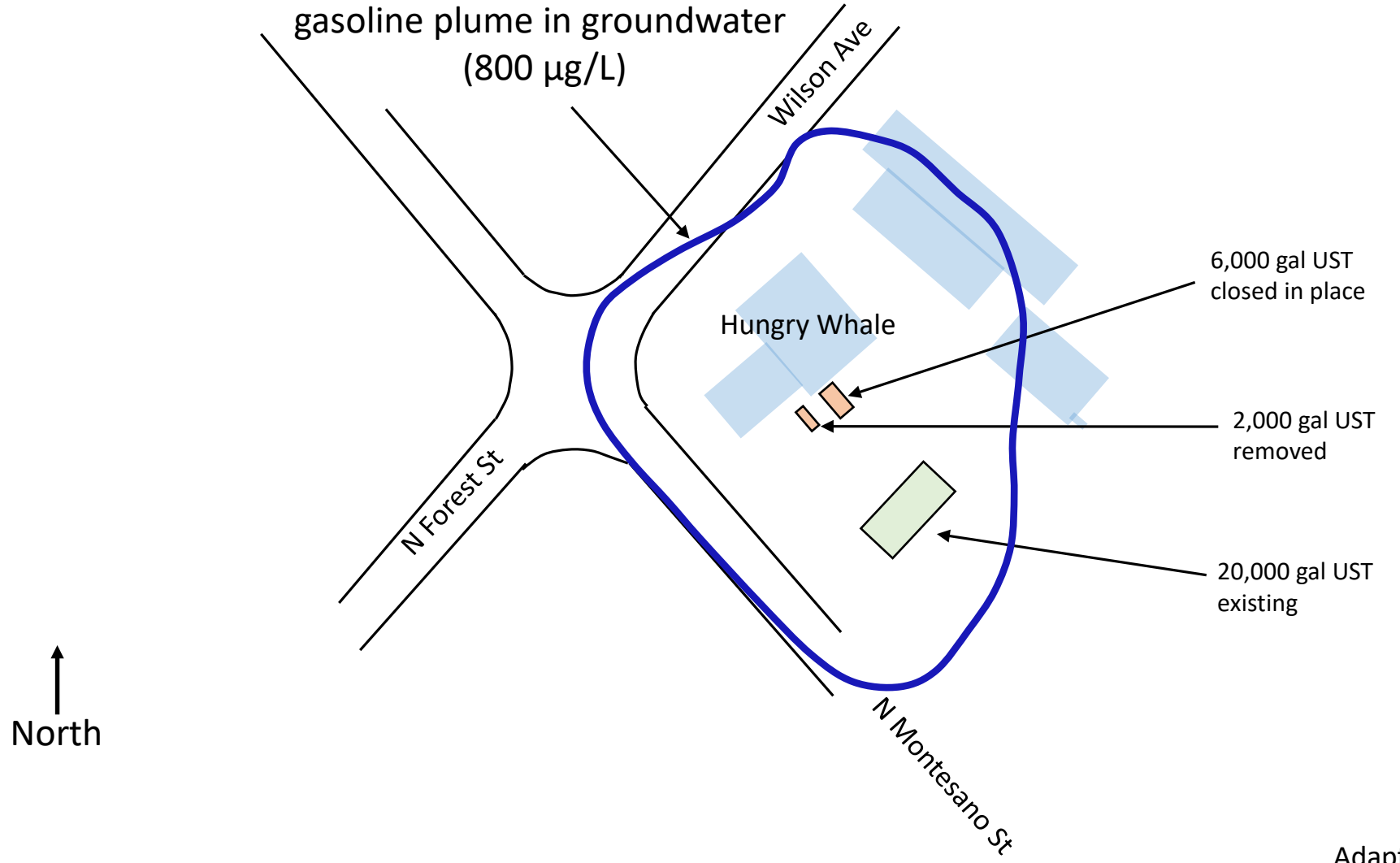
Adapted from Fig 3 in the dCAP

Remedial Investigation: determine if contaminants are above MTCA cleanup levels

Results for groundwater

Media	Contaminant	MTCA Cleanup Level	Range of Results	Unit
Groundwater	TPH as Gasoline	800	1,000-252,000	ug/L or part per billion
	Benzene	5	8.8-29,000	ug/L or part per billion
	Toluene	1,000	1,030-47,000	ug/L or part per billion
	Ethylbenzene	700	750-4,300	ug/L or part per billion
	Xylenes	1,000	1,101-29,600	ug/L or part per billion
	Naphthalene	160	720	ug/L or part per billion

Remedial Investigation: determine extent of gasoline contamination in groundwater



Adapted from Appendix F in the RI/FS

Feasibility Study: compare alternatives

- **Alternative 1** – In-Situ injection of carbon-based petroleum degradation product and conduct long-term groundwater monitoring.

- **Alternative 2** – Groundwater extraction and treatment and conduct long-term groundwater monitoring.

- **Alternative 3** –Select soil excavation (about 2800 yds^3) and conduct long-term monitoring.

- **Alternative 4** – Site-wide soil excavation (about 5200 yds^3), conduct long-term monitoring, and remove the building.

Feasibility Study: disproportionate cost analysis benefit score criteria

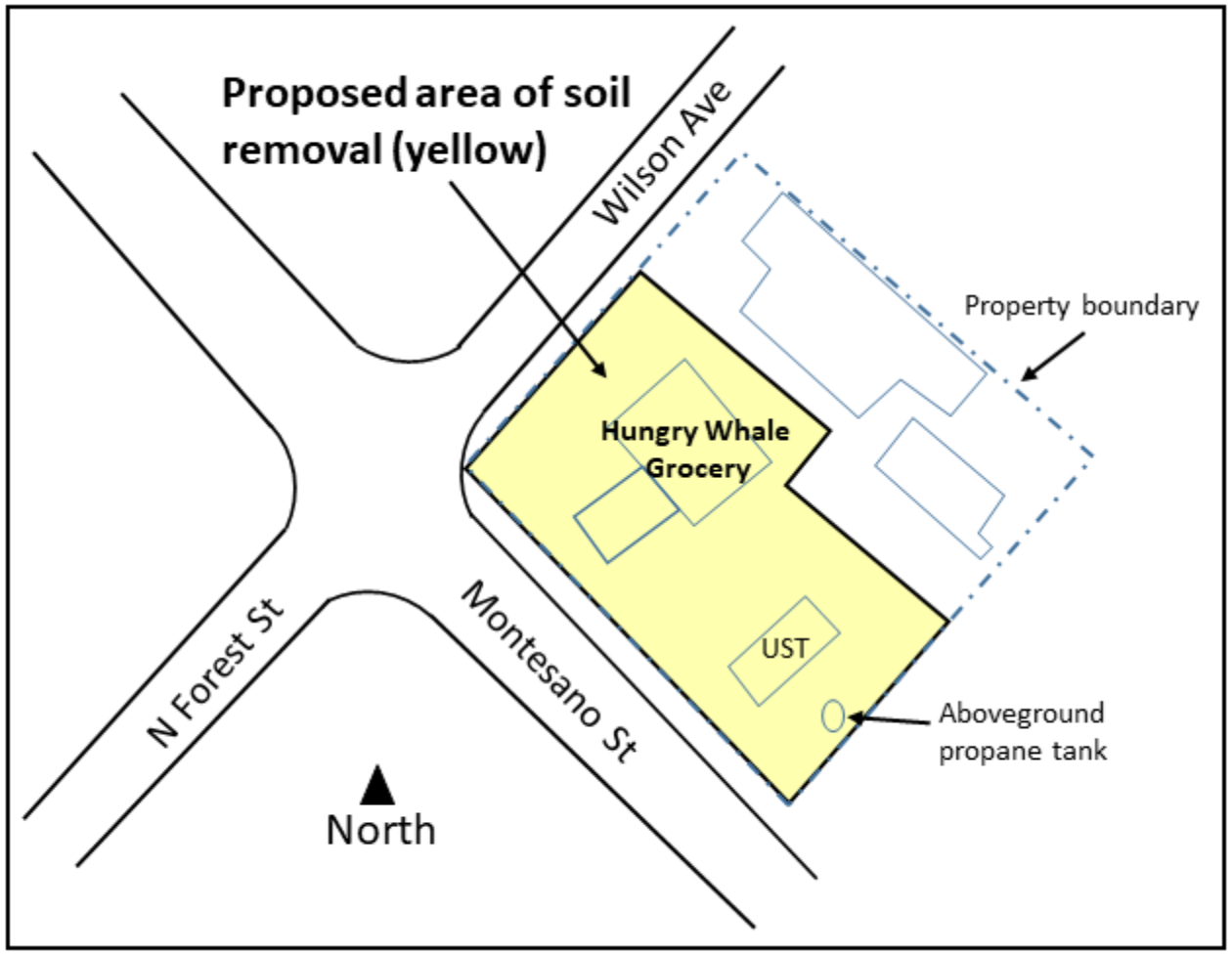
Criteria	Weighting
Protectiveness	30%
Permanence	20%
Long-term effectiveness	20%
Short-term risk	10%
Implementability	10%
Public concern	10%

Feasibility Study: disproportionate cost analysis comparison of alternatives

	1 In-Situ Injection	2 Groundwater Extraction and Treatment	3 Select Soil Excavation	4 Site-Wide Soil Excavation
Benefit Score	7.7	7.1	6.9	8.3
Cost (Millions)	$2.18	$1.13	$0.93	$1.54
Benefit to Cost Ratio	3.53	6.28	7.42	5.39

Proposed cleanup: draft Cleanup Action Plan (dCAP)

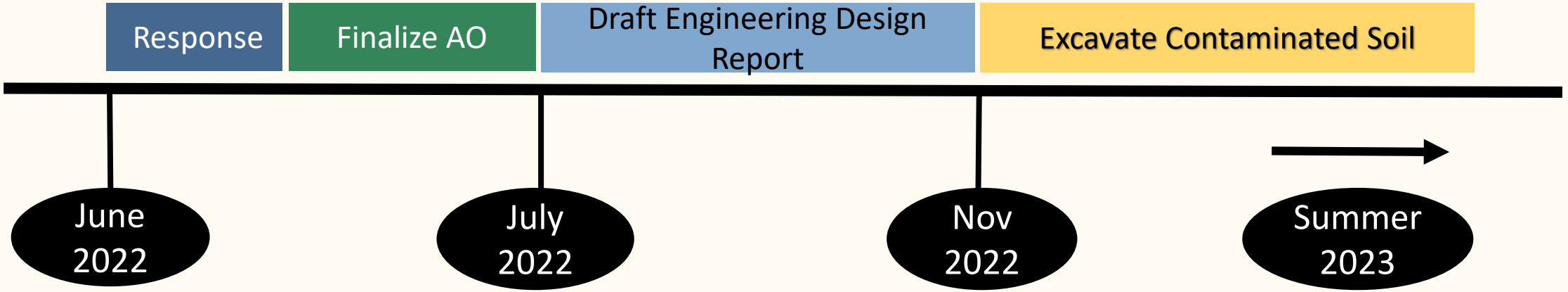
- *Remove structures* (convenience store, all USTs, and distributions systems)
- *Excavate contaminated soil* to about 2 to 12 ft below ground surface, removing about 5,200 yds^3 of soil
- *Pump groundwater from the excavation and treat* to remove contaminants
- *Discharge treated groundwater* to facility
- *Backfilling Excavation*
- *Monitor groundwater* to confirm decrease in contamination
- *Put institutional controls in place* with 5 year reviews.



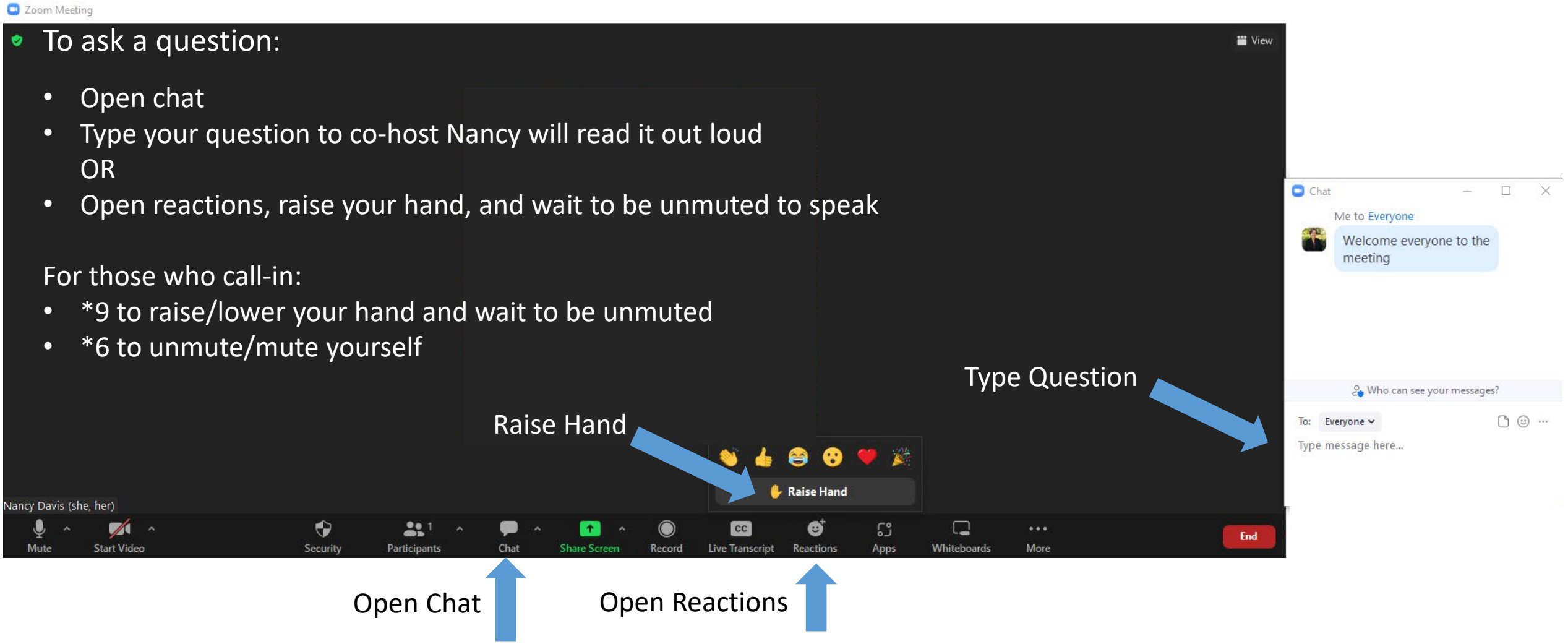
Next steps

End public comment period

Ongoing monitoring



Participate in the Q & A



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Fact Sheet: https://apps.ecology.wa.gov/cleanupsearch/document/112256