## Regional Water Quality Committee

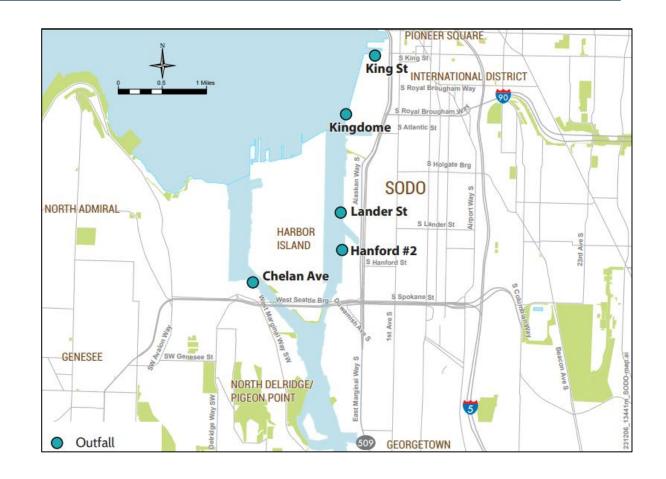
Follow-up to 2026 Sewer Rate Presentation:

Additional Information and Alternative Analysis on Mouth of Duwamish CSO

May 7, 2025

### Agenda

- CSO Consent Decree obligations for the Program
  - Timeline
  - Standard
- Identifying the Best Solution



#### MDCSO Consent Decree Milestones

- Requirement: Comply with federal and state laws
- Milestones\*:
  - Submit Engineering Report by Dec 31, 2026
  - Complete Bidding by July 31, 2029
  - Complete Construction by December 31, 2034

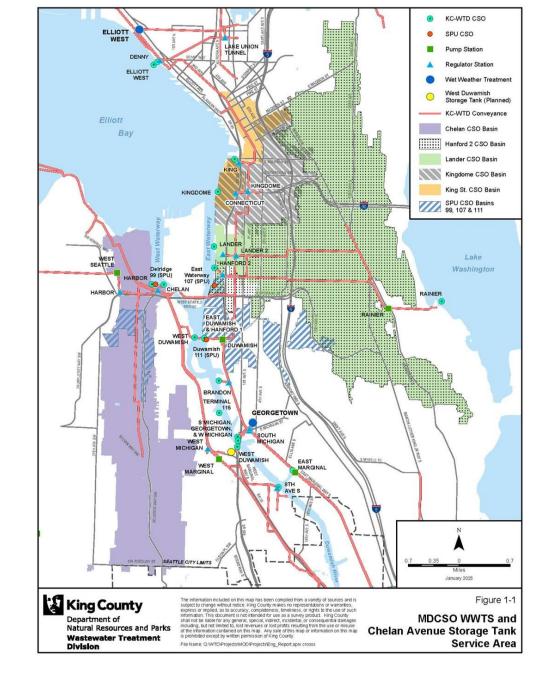
\*Note: A modification to the 2013 consent decree has been negotiated between the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology) and King County. Approval by the federal court is pending.

2013 Federal Consent Decree (Case 2:13-cv-00677). Clean Water Act

RCW 90.48.480, Chapters 173-245, 173-201A, 173-204 WAC

#### Service Area

- Program to deliver wet weather facilities to meet regulations and reduce combined sewer overflows from areas in West Seattle, SODO, and Beacon Hill
- High Capacity needs (240 million gallons/day) - similar to secondary treatment capacity at South Plant during wet weather conditions



#### **Engineering Report Development Process**

We are here

PHASE 1

Review Planning Level Alternatives PHASE 2

Identify and Narrow Sites and Formulate System Alternatives PHASE 3

System Alternatives Evaluation PHASE 4

BASA Identification PHASE 5

Engineering Report Development

Strategic Initiatives, Communications, and Engagement

PHASE 1 will review concepts from previous CSO long term control planning work and other applicable work. Utilizing the results of planning work, concepts will be identified to advance for further analysis.

PHASE 2 will identify the representative sites for the possible WWTS and outfall and develop preliminary design requirements for the system alternatives to support the formulation of alternatives.

PHASE 3 will confirm/refine the system alternatives for evaluation, perform the evaluation, and identify the apparent top system alternatives. **PHASE 4** will refine the alternatives for evaluation and identify the best apparent system alternative (BASA).

PHASE 5 will develop the Engineering Report for submission to the Washington State Department of Ecology (Ecology) for regulatory compliance.

## Alternatives Evaluation Process Overview – CSO LTCP

Since the 2012 Long Term Control Plan (LTCP), WTD has narrowed from over **60 planning level concepts.** 

Alternatives considered wide range of CSO control methods:

- Wet weather treatment stations
- Storage tanks/tunnels
- Green stormwater infrastructure
- Sewer separation

2012 LTCP Amendment
Alternatives



2022 Modeling

New Alternatives
(Tunnels to existing facilities)

## Informational Interviews/Briefings to Organizations

Alliance for Pioneer Square

Georgetown Community Council

**Duwamish Tribe** 

**Duwamish River Community** 

Puget Soundkeeper Alliance

Coalition

Seattle Ballpark Public

Manufacturing and Industrial

**Facilities District** 

Council (MIC)

InterIm CDA

Washington Conservation Action

**SODO Business Improvement** 

Chinatown International District BIA

Area (BIA)

Chinese Information and

City of Seattle Indigenous

Service Center

**Advisory Council** 

Approximately 60 organizations identified to engage and assess interest in Program briefings, potential partnership, involvement in workforce effort.

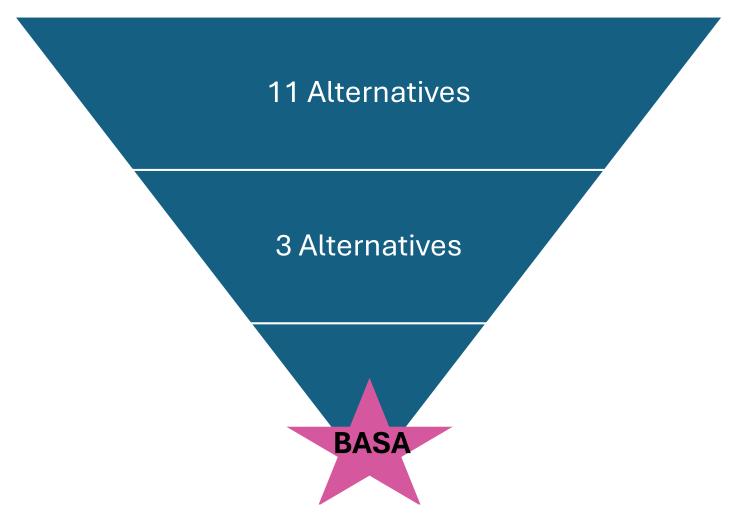
#### **Alternatives Evaluation Criteria**

Summary of criteria for evaluating facility configurations:

- Tier 1
  - Community and Social Impact
  - Environmental Impacts
  - Operations and Maintenance
  - Schedule
  - Cost / Cost Risk
- Sub-tier 2 focuses on increasing detail around the Tier 1 criteria

Tier 1	Tier 2	Criteria			
1		1.0 Community, Social Justice, and Good Neighbor			
	1.1	1.1 Short-term Construction Impacts			
	1.2	1.2 Potential Negative Long-term Community Impacts			
2		2.0 Environmental Impacts			
	2.1	2.1 Adverse Impacts to Wetlands, Streams, and/or Shorelines			
	2.2	2.2 Impacts to Fish, Wildlife, and Endangered Species and Habitat Improvement Sites			
	2.3	2.3 Interaction with Sites Containing Contaminated Soil, Groundwater, and Sediments			
	2.4	2.4 Impacts to Cultural Resources			
	2.5	2.5 Ability to incorporate Stormwater Treatment			
	2.6	2.6 Net Embodied Carbon			
	2.7	2.7 Impacts to Tribal treaty rights			
3		3.0 Operations and Maintenance			
	3.1	3.1 Treatment Station Site Flexibility			
	3.2	3.2 Conveyance Operations			
	3.3	3.3 Outfall Operations			
4		4.0 Schedule			
	4.1	4.1 Permitting Complexity			
	4.2	4.2 Mitigation Complexity			
	4.3	4.3 Consistency with Code Requirements			
	4.4	4.4 Ability to Acquire Property/Easements			
	4.5	4.5 Schedule Impacts of Property/Easement Acquisition			
5		5.0 Cost / Cost Risk			
	5.1	5.1 Reduce Construction Risk			
	5.2	5.2 Minimize Initial Capital Costs			

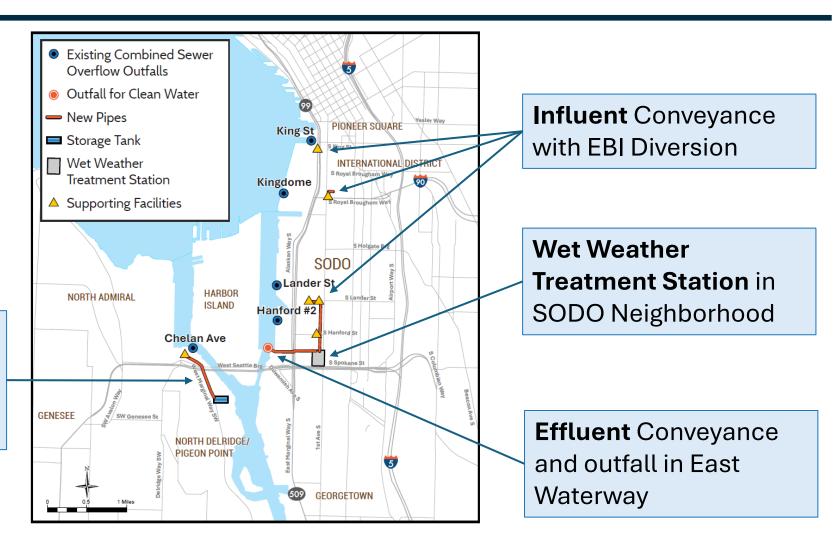
# Alternatives Evaluation Process Overview – MDCSO Program



#### Recommended Best Apparent System Alternative

- Multiple Projects
- Control 5 CSOs
- East Waterway
   Cleanup pollution
   source control

Chelan Storage Facility and associated conveyance in West Seattle (Industrial District West)



### Progressing Scope Definition & Cost Estimates

MDCSO Program Estimate Class Timelines						
AACEi Estimate Type	Class 10	Class 5	Class 4	Class 3		
Accuracy Range	-50% / +300% (or more)	-50% / +100%	-30% / +50%	-20% / +30%		
Timeline	2018 - Sept. 2023	Sept. 2023 - Present	Oct. 2025 - Jan. 2026	Feb. 2026 - Aug. 2026		
Status	Prior Estimate	Current Estimate	Future Estimate	Future Estimate		
Example Scope Definition Items	Concept alternatives	Recommended system configuration	Confirm facility sites	<ul><li>Design criteria</li><li>Geotechnical investigations</li><li>GC Estimate</li></ul>		

#### Next Steps

- Develop and deliver Engineering Report to Ecology August 2025
- SEPA Environmental Review
- Notify affected property owners
- Implement public outreach around BASA
- Advance design development



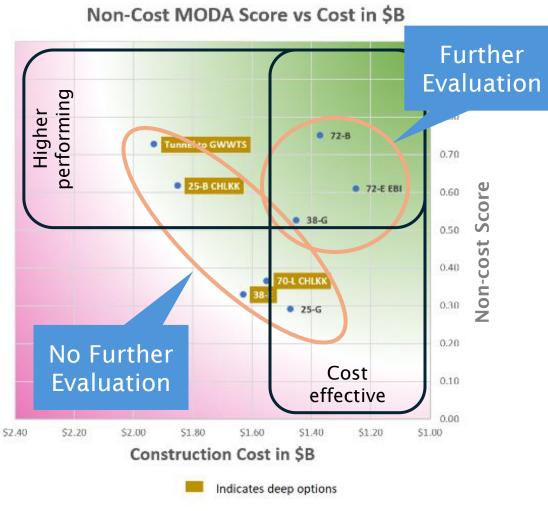
Georgetown Wet Weather Treatment Station

## Thank you

Stan Hummel, CSO Delivery Unit Manager



### 11 Alternatives Scoring Summary



- Alternatives divided into groupings
- Recommended for Further Evaluation
- Not recommended for further Evaluation
  - Constrained Not recommended for further Evaluation