

FLOODPLAIN MANAGEMENT UPDATE

Development Review Advisory Committee (DRAC)

June 15, 2023

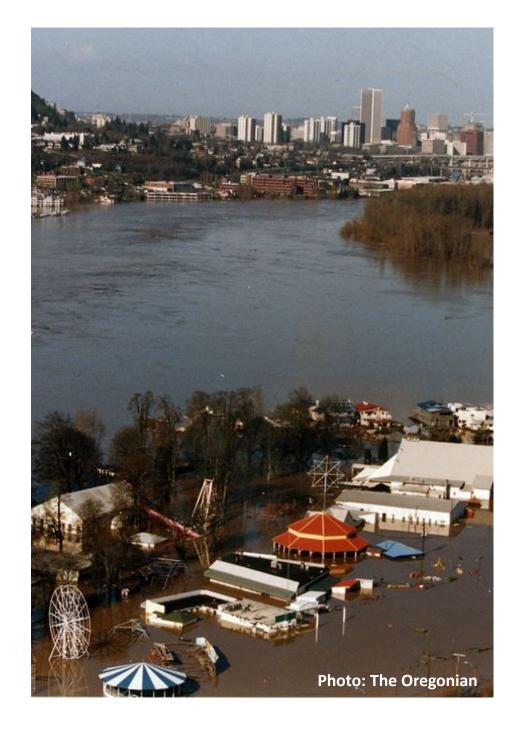
Jeff Caudill Environmental Planner, BPS Jason Butler-Brown Site Development Manager, BDS





Agenda

- I. Background
- II. BPS Floodplain Resilience Plan
- III. BDS Building Code Update Project
- IV. Next Steps/Schedule
- V. Q&A

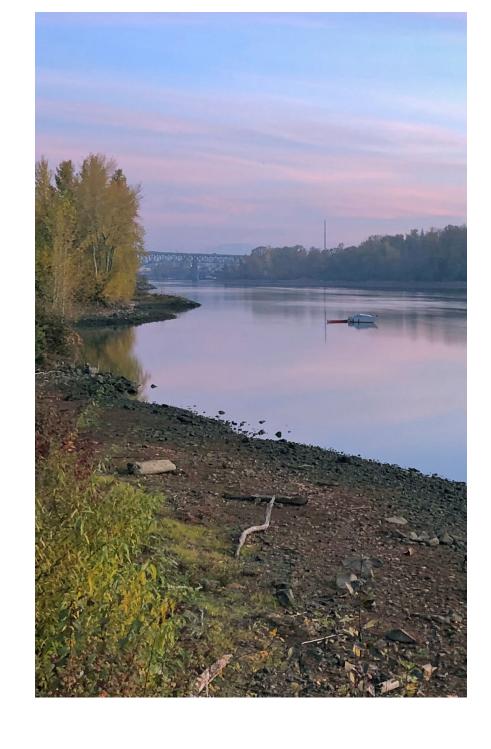






Project Goals

- Maintain access to flood insurance and disaster relief funds
- Reduce future flood risk
- Expand habitat for Portland's threatened and endangered species



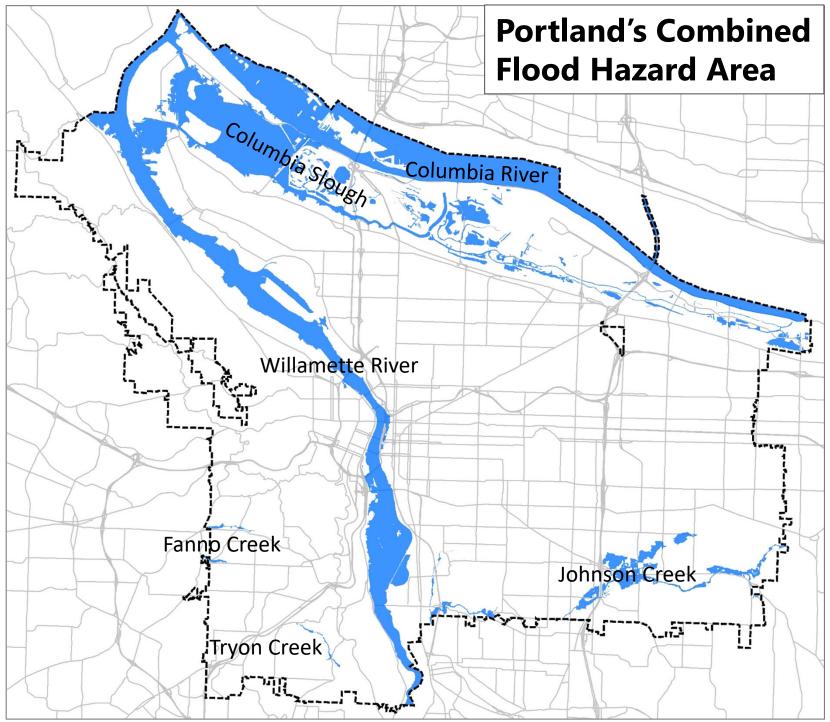




Background











FEMA's National Flood Insurance Program (NFIP)

- Provides flood insurance in floodplains
- Minimum requirements must be met
- Community Rating System (CRS) participation reduces insurance rates when voluntary measures are taken





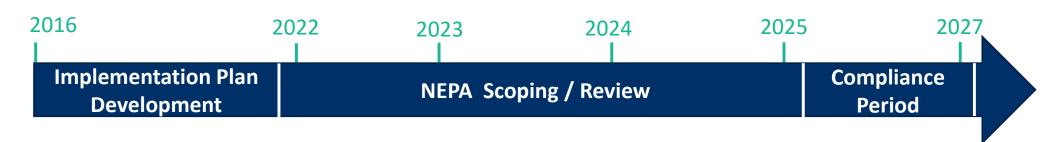
National Flood Insurance Program (NFIP) Oregon Biological Opinion

- Determined 16 threatened and endangered salmon and steelhead impacted
- FEMA Implementation Plan to comply with the Biological Opinion released in October 2021

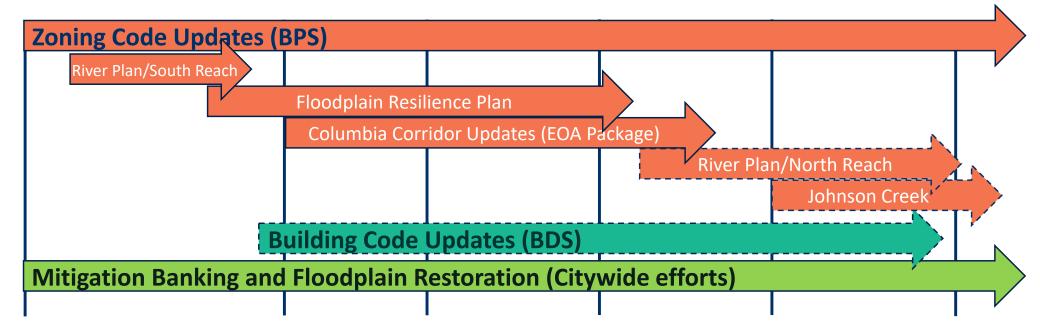




FEMA BIOP TIMELINE



CITY WORK PLAN COMPONENTS & SCHEDULE







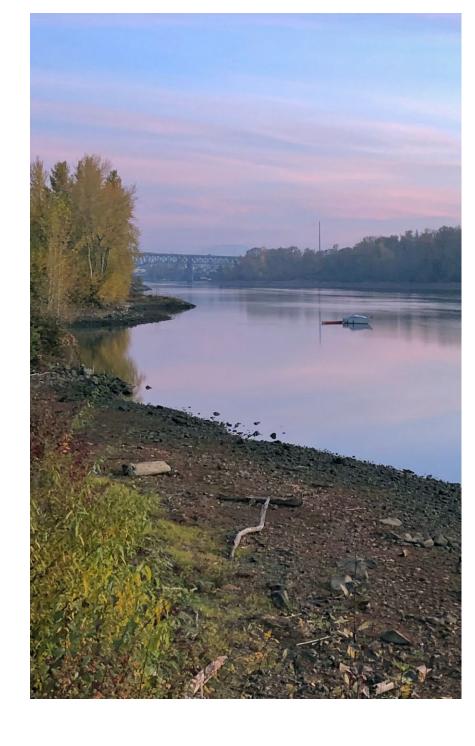
Floodplain Resilience Plan





Zoning Code (Title 33) Updates

- Establish riparian buffer area in Willamette Central Reach
- Apply environmental zones to undeveloped floodplains
- Update tree and vegetation requirements throughout the city in the floodplain







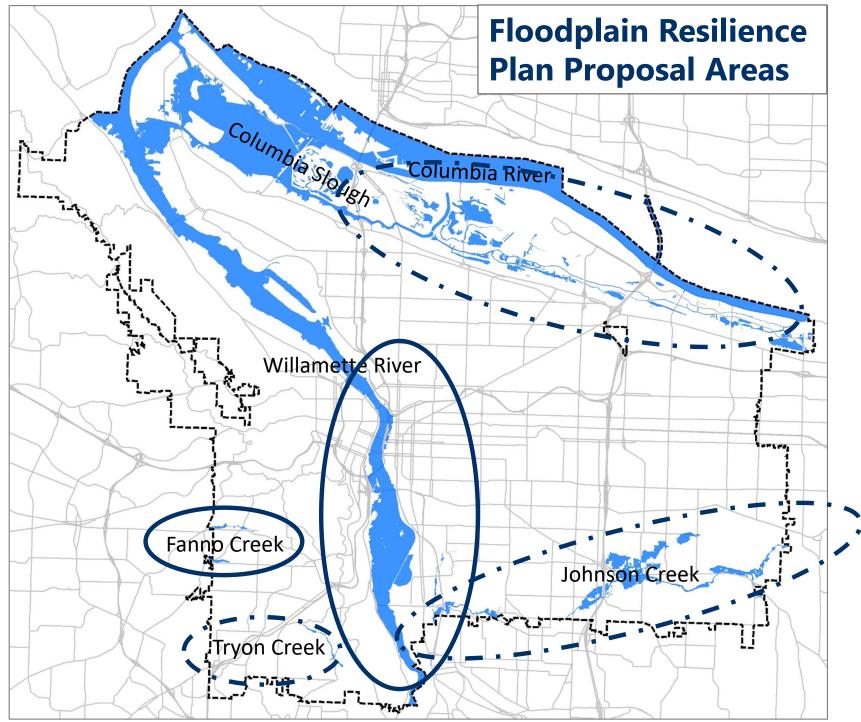
Riparian Buffer Area

- Often extends beyond required setback, but not always
- Not a no-build zone but additional mitigation required
- Mitigation
 - Improvements onsite or off-site to offset development impacts
 - Extent/type of improvements depend on scale of impact













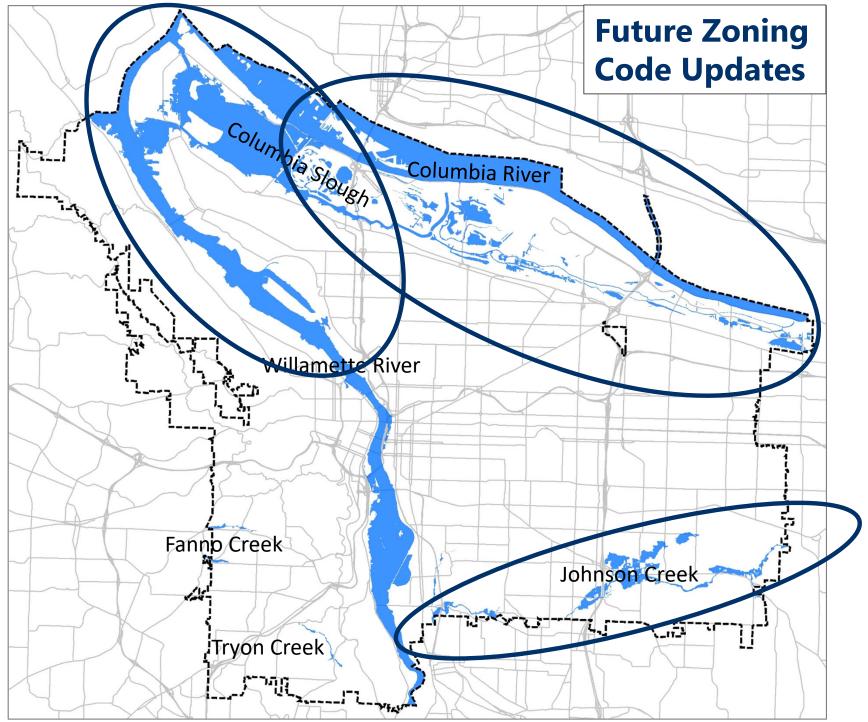
Schedule

Early Aug	Release of Floodplain Resilience Plan Recommended Draft
Aug 30	City Council hearing for Title 33 and Title 24
Sept-Oct	Deliberations, amendments, and adoption













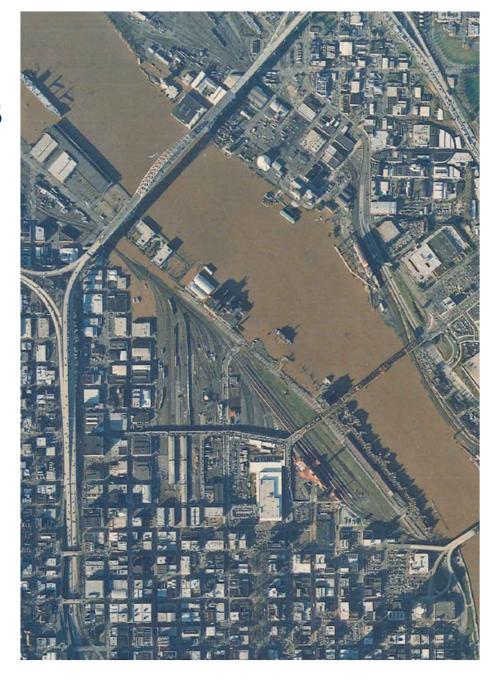
Building Code (Title 24) Updates





Building Code (Title 24) 24.50 Flood Hazard Areas

- Review existing flood storage requirements
- Review proposed code changes
 - FEMA regulatory code review updates
 - FEMA BiOp flood storage
 - Updated February 1996 Flood Inundation Area map
- Review future work



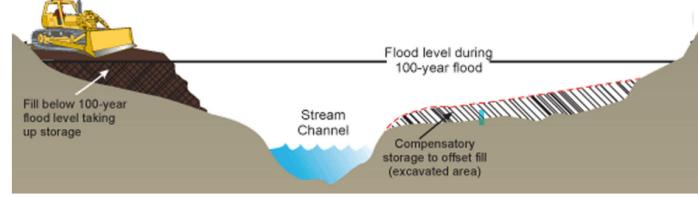




Building Code (Title 24) 24.50 Flood Hazard Areas

Current Flood Storage - "Balanced cut and fill"

- Compensation for lost flood storage volume from fill placement is required at a ratio of 1 to 1.
- Applies to the flood hazard areas shown on the Metro Title 3 map.
- Requires flood storage compensation within same flood hazard area. Except Johnson Creek Flood Zones which requires compensation on the same site.



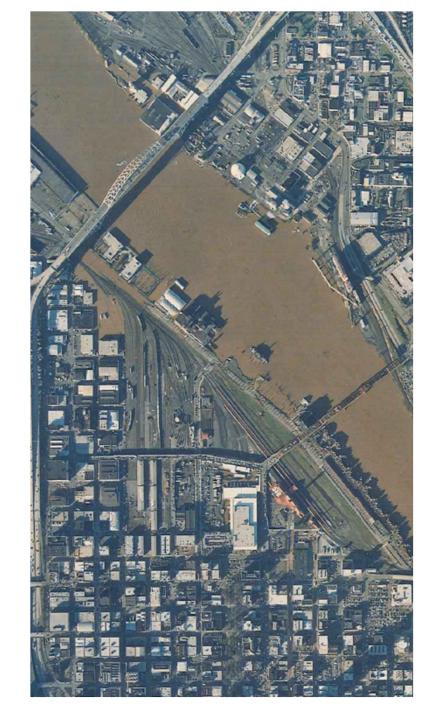




FEMA Regulatory Review - align with State Model Code

Changes include:

- Additional definitions.
- Clarifying permit submittal and inspection requirements.
- Requiring a covenant for certain enclosed spaces below the design flood elevation.
- Requiring a development permit for exempt (e.g. accessory) structures in the floodplain.





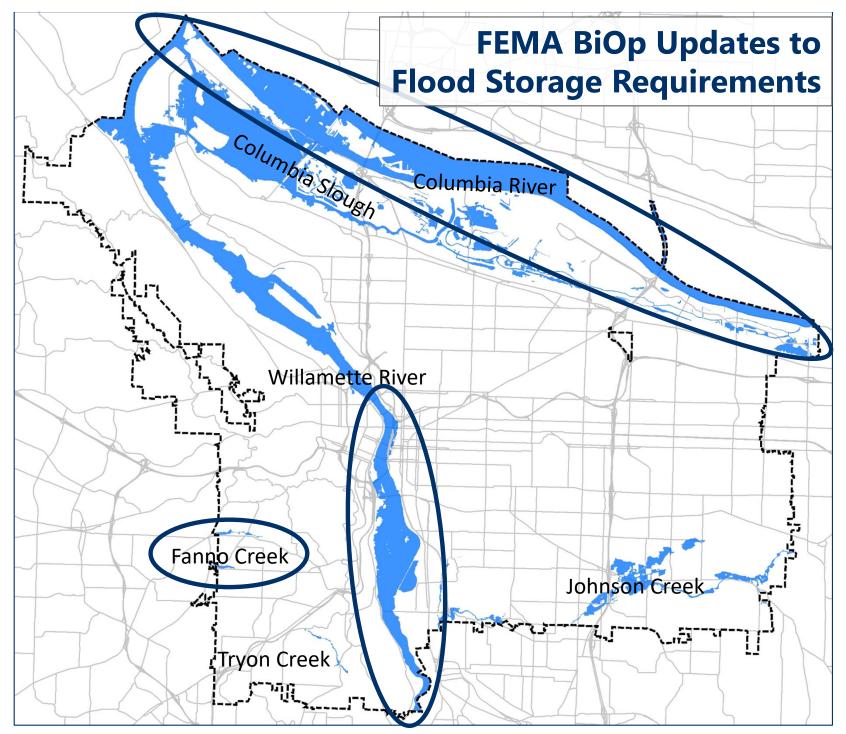


- Adopting compensation for lost flood storage volume from fill and structure placed below the 100-year flood elevation.
- Flood storage compensation means removal of soil, rock, or permanent structure below the flood elevation.
- Applies to
 - Columbia River Flood Zones,
 - Willamette River Central and South Reach Flood Zones, and
 - Fanno Creek Flood Zones.





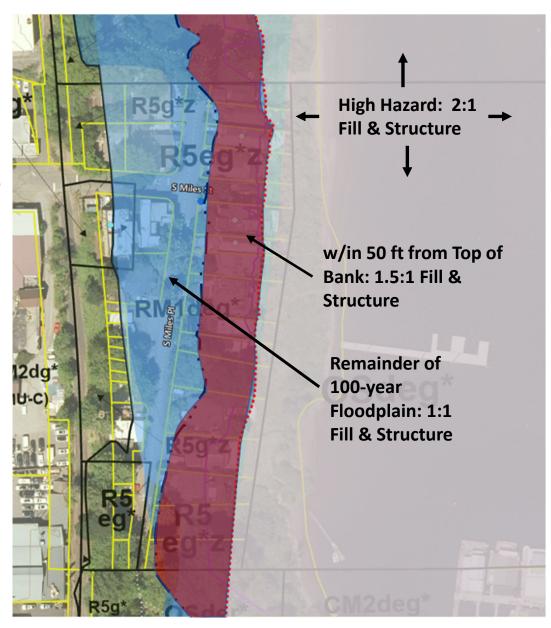








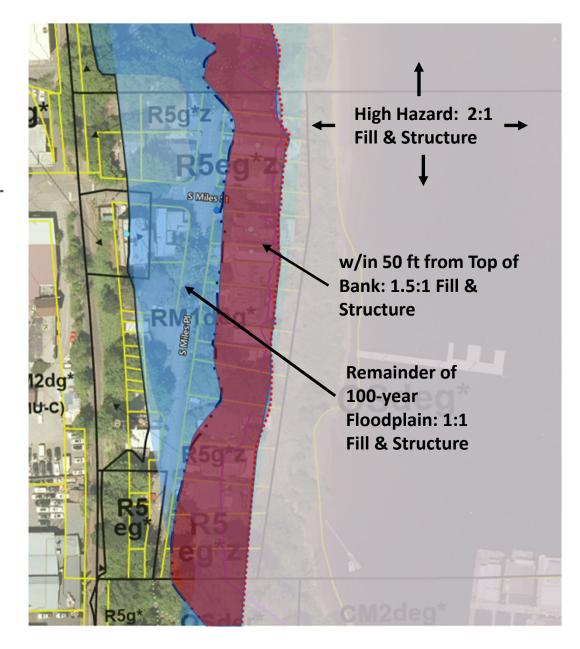
- Increased ratios of flood storage compensation in the 100-year floodplain:
 - High Hazard Area, the landward extent of 10-year Floodplain and the Floodway at a ratio of 2 to 1.
 - Within 50 ft of Top of Bank at a ratio of 1.5 to 1.
 - Within the remainder of the 100year floodplain the ratio will be 1 to 1.







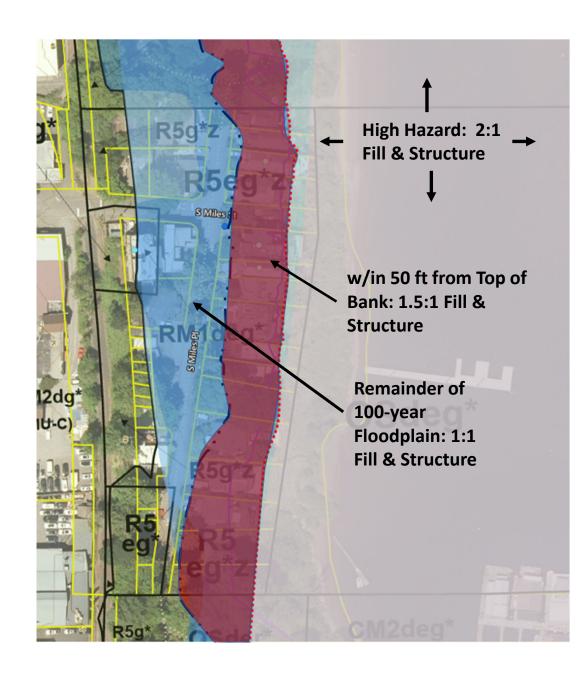
- Retain current requirements for February 1996 Flood Inundation Area for fill placement at a ratio of 1 to 1.
- Allow use of flood storage mitigation bank credits within the same flood hazard area.
- Does not apply to Industrial Lands: Heavy Industrial (IH), General Industrial 2 (IG2), or General Employment 2 (EG2) zoning.







- Does not apply to South Waterfront.
- Allow certain land use approvals to vest permits in flood storage requirements.

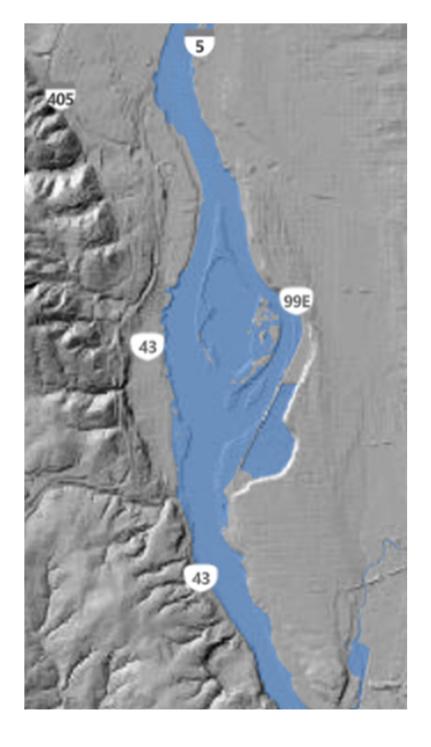






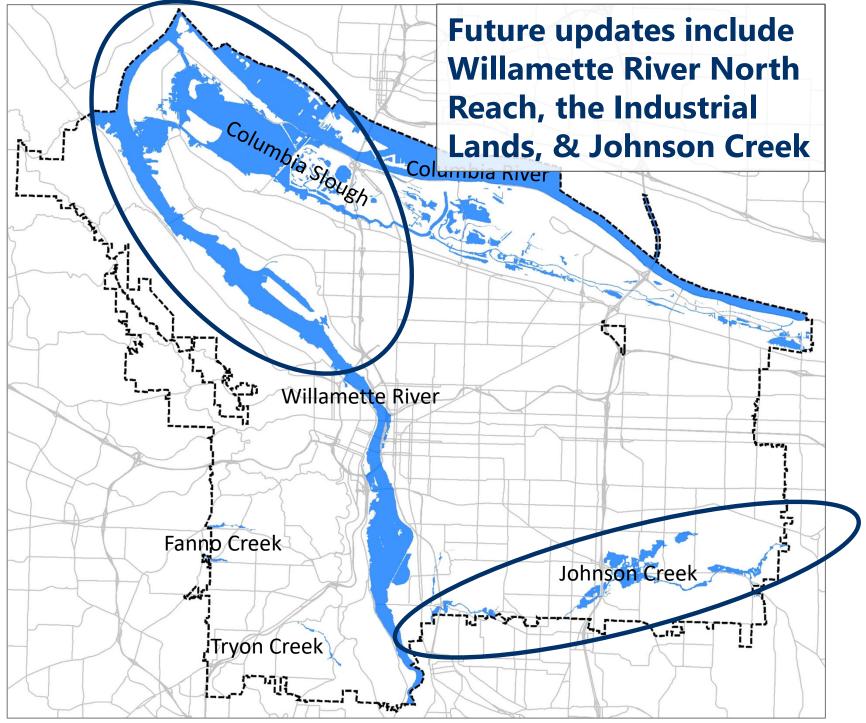
Updated February 1996 Flood Inundation Area map.

 Updating Metro Title 3 Map to include new modeled Willamette River 1996 Flood Inundation Area for the Central and South Reach.













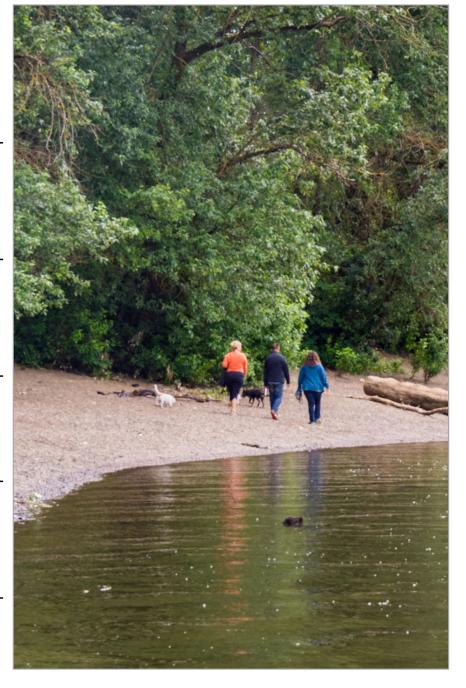
Next Steps / Schedule





Schedule

	D. I.I.
	Public comment on
Jul 10-Aug 1	proposed Title 24
	updates
	Release of Floodplain
Early Aug	Resilience Plan
	Recommended Draft
	City Council hearing
Aug 30	for Title 33 and Title 24
	Deliberations,
Sept-Oct	amendments, and
	adoption







Anticipated Code Implementation

April 2024

Title 24 - Regulatory review changes and updates to February 1996 Flood Inundation Area map.

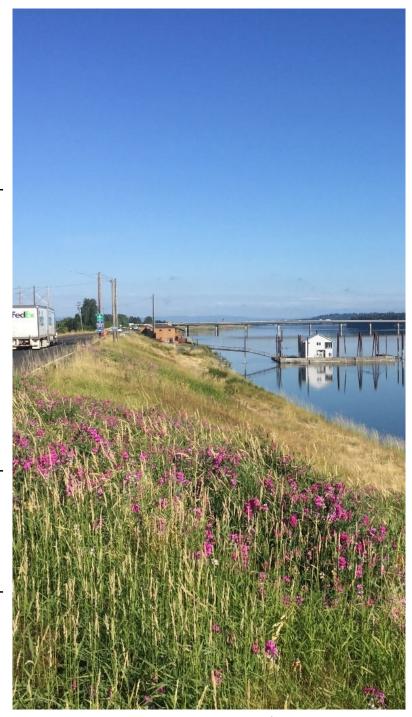
Title 33 – Technical code changes ("clean up")

2025

October Title 33 and Title 24 FEMA BiOp changes







Questions?

