

FLOODPLAIN RESILIENCE PLAN

Planning and Sustainability Commission Work Session

October 25, 2022

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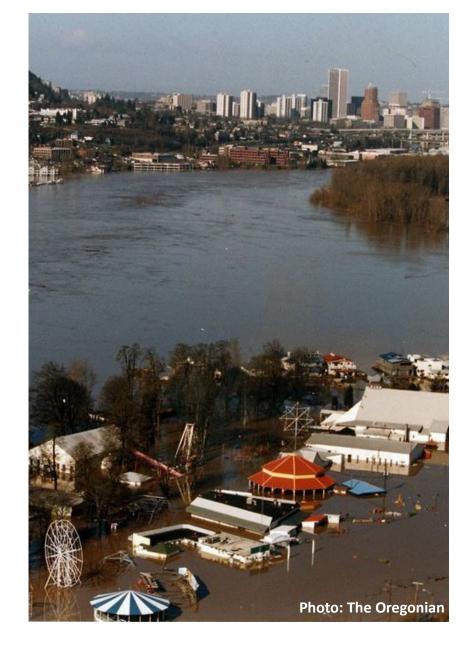
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Agenda

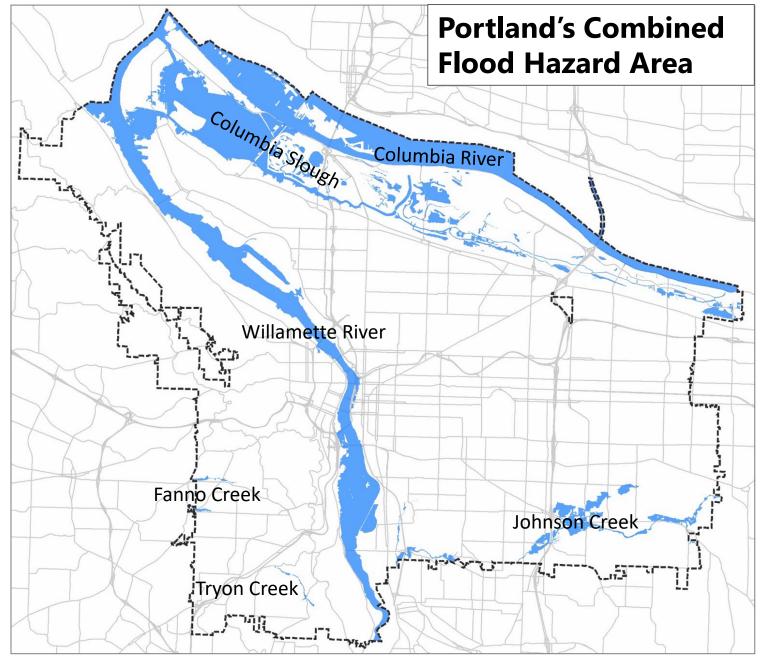
- I. FEMA BiOp Additional Background
- II. Potential Effects of Plan Proposals
- III. Public Testimony Summary
- IV. Columbia Corridor Non-Industrial Lands
- V. Building Code Updates
- VI. Mitigation Banks
- VII. Staff Recommended Amendments





FEMA BiOp – Additional Background







Plan Purpose/Goals

- Maintain access to floodplain insurance and disaster relief funds
- Reduce future flood risk
- Expand habitat for Portland's threatened and endangered species
- Continue implementation of City's Floodplain Management Update Work Plan





				ACTION REQUIRED	
ELEMENT #	DESCRIPTION	DIRECTIVE	FEMA	CITY OF PORTLAND	
1	Notice, Education, and Outreach	Notify NFIP communities and develop an education and outreach strategy for RPA implementation	X		
2	Interim Measures	Implement immediate actions to reduce loss of floodplain habitat and functions until Elements 3-6 are implemented	Х	X	
3	Mapping Flood and Flood-Related Hazards	Implement FEMA program standards to better identify and map flood and flood-related erosion hazard areas	X		
4	Floodplain Management Criteria	Revise FEMA's regulatory floodplain management criteria to avoid, minimize, and mitigate the adverse effects of floodplain development on habitat functions and processes	X	X	
5	Data Collection and Reporting	Collect and report floodplain development information for all NFIP participating communities	Х	X	
6	Compliance and Enforcement	Ensure that participating communities comply with revised floodplain management criteria	Х		



Element #	DESCRIPTION	DIRECTIVE	CITY OF PORTLAND ACTIONS
2	Interim Measures	Implement immediate actions to reduce loss of floodplain habitat and functions	 Element #2 included specific actions FEMA should take to reduce impacts in the short-term, including: Min vegetation requirements Riparian buffer area Mitigation of new impervious surface Increased flood storage mitigation City Response Floodplain Resilience Plan incorporate min vegetation requirements and riparian buffer area. City Stormwater Management Manual effectively addresses mitigation of impervious surfaces (BES). Title 24 updates will address flood storage mitigation (BDS).



Element #	DESCRIPTION	DIRECTIVE	HOW FLOODPLAIN RESILIENCE PLAN RESPONDS
3	Mapping Flood and Flood- Related Hazards	Implement FEMA program standards to better identify and map flood and flood-related erosion hazard areas	Although this element is directed to FEMA, it recognizes the significant limitations of existing FEMA 100-year floodplain maps. City Response Incorporation of the new Modeled Willamette River 1996 Flood Extent addresses the limitations of the FEMA 100-year floodplain maps.



Element #	DESCRIPTION	DIRECTIVE	HOW FLOODPLAIN RESILIENCE PLAN RESPONDS
4	Floodplain Management Criteria	Revise FEMA's regulatory floodplain management criteria to avoid, minimize, and mitigate the adverse effects of floodplain development on habitat functions and processes	FEMA's approach to meeting the directives of this element - i.e., long-term compliance with the ESA - is described in FEMA's October 2021 Implementation Plan. City Response • Floodplain Resilience Plan proposed regulatory updates aim to meet expected FEMA floodplain management criteria • Floodplain Resilience Plan proposals are consistent with guidance FEMA's October 2021 draft Implementation Plan and the FEMA BiOp.



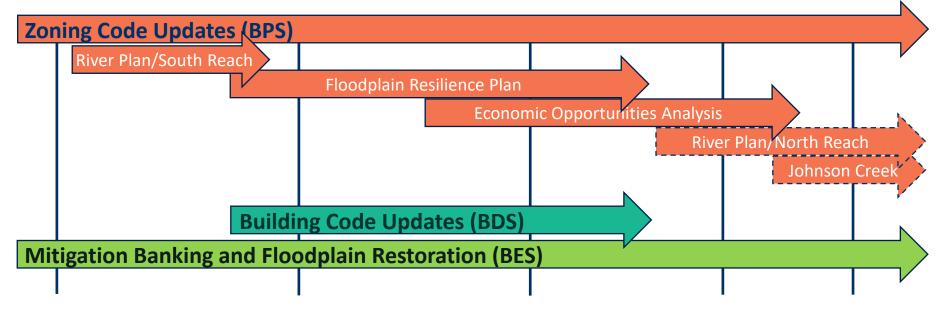
Element #	DESCRIPTION	DIRECTIVE	HOW FLOODPLAIN RESILIENCE PLAN RESPONDS
5	Data Collection and Reporting	Collect and report floodplain development information for all NFIP participating communities	In response to this element, FEMA will need to ensure ongoing data collection for floodplain development within NFIP communities. City Response BDS will be required to provide additional data on floodplain development annually (at minimum) to FEMA.



FEMA TIMELINE



CITY WORK PLAN COMPONENTS & SCHEDULE





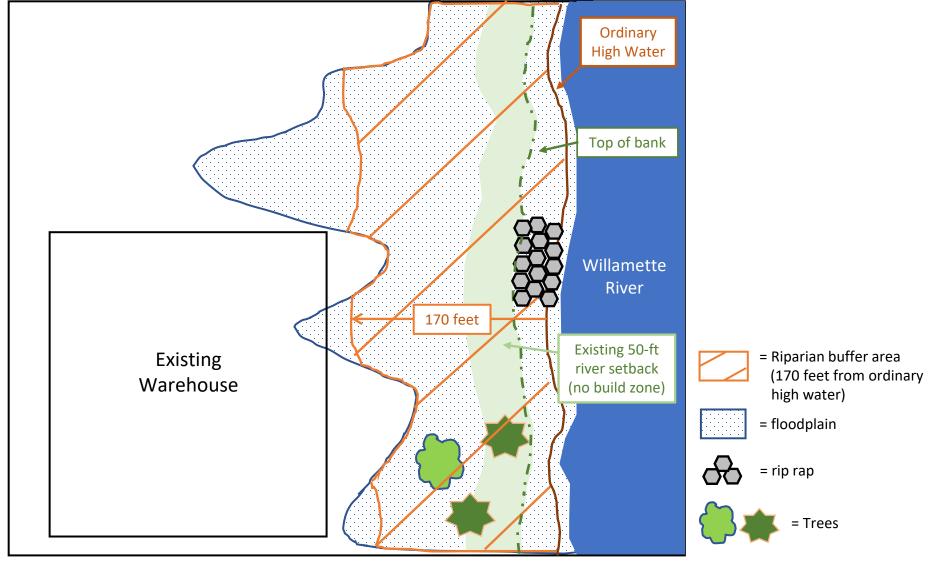
Potential Effects of Plan Proposals

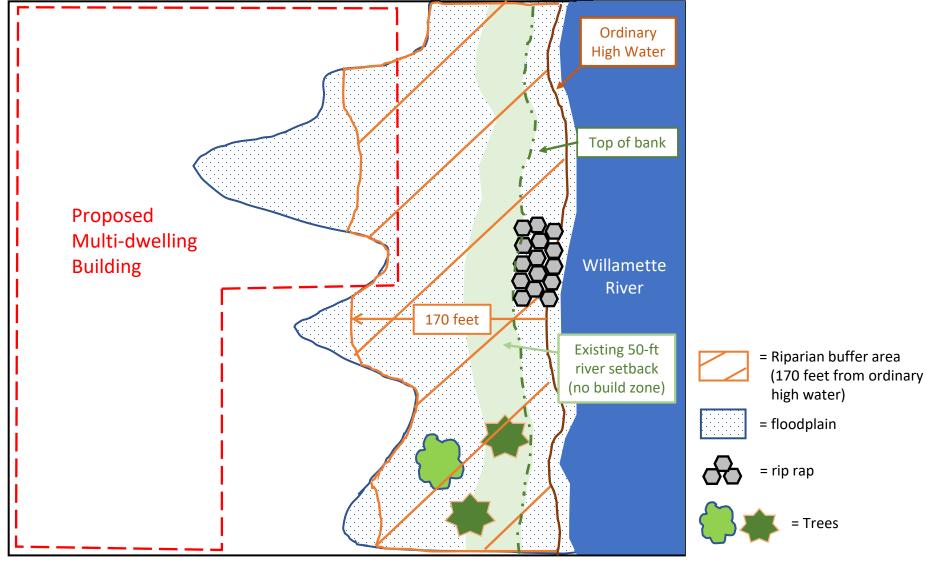


Parcels Effected, by **Zoning Designation**

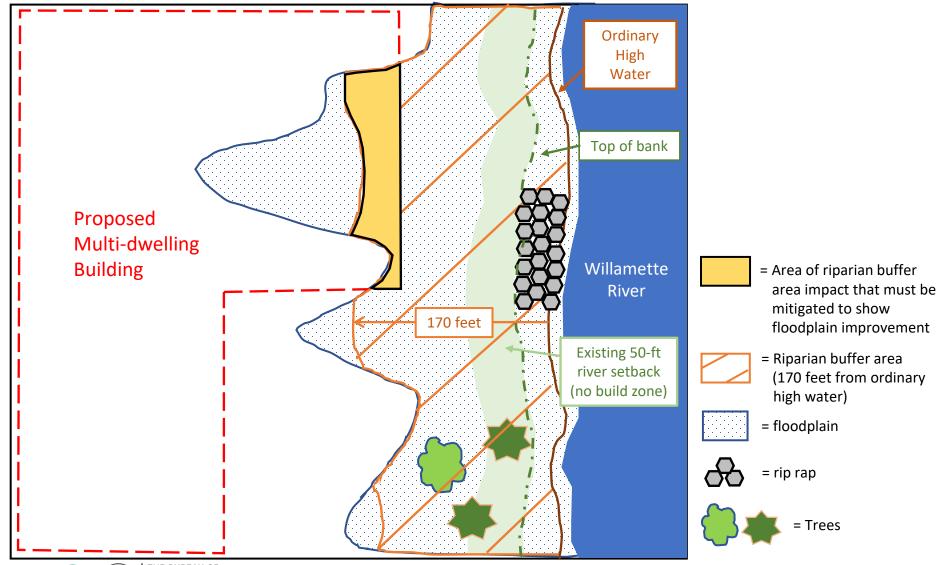
Zoning Category	# Tax Lots	%	Acres	%
Single Dwelling Residential	570	38.4%	866.9	14.1%
Multi-Dwelling Residential	<mark>139</mark>	9.4%	<mark>221.8</mark>	<mark>3.6%</mark>
Commercial/Mixed Use	<mark>207</mark>	<mark>13.9%</mark>	<mark>469.0</mark>	<mark>7.6%</mark>
Employment/Industrial	53	3.6%	100.8	1.6%
Campus Institutional	4	0.3%	113.2	1.8%
Open Space	<mark>509</mark>	34.3%	4,281.5	69.6%
Multnomah County	3	0.2%	100.3	1.6%
TOTA	L 1,485	100%	6,153.4	100%

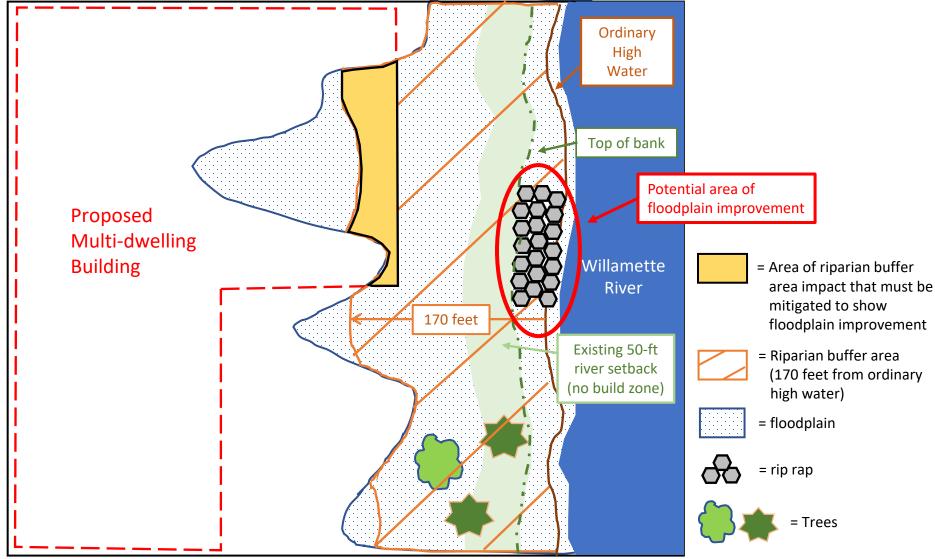






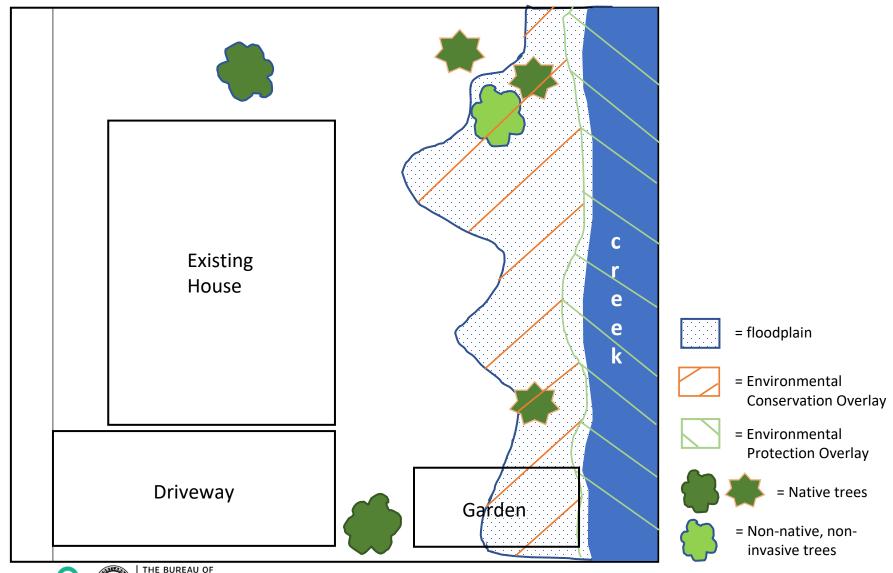




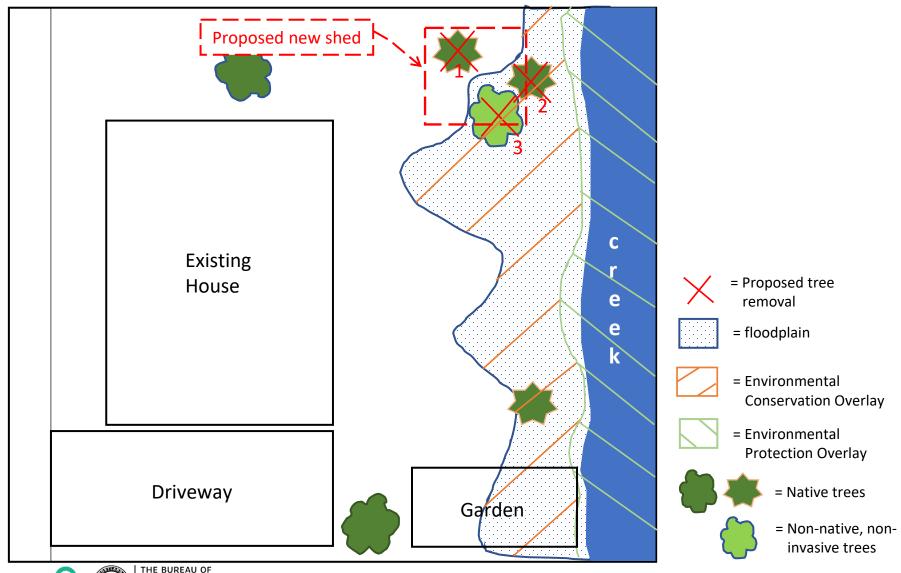


Waterways Other than Willamette River

Environmental Overlay Zones



Waterways Other than Willamette River Environmental Overlay Zones



Public Testimony Summary



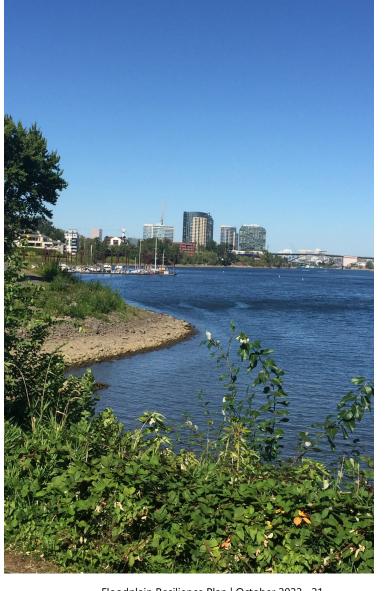
Testimony Summary

Testimony (53 total)

- 46 submitted written testimony
- 5 submitted oral testimony
- 2 submitted both oral and written

Comments

- Climate change response is critical
- Include all Discussion Draft components
- Expedite work in industrial areas/ Complete EOA work faster
- Slow project until more from FEMA





Columbia Corridor Non-Industrial Lands



Columbia Corridor Non-Industrial Lands

- Discussion Draft proposed Environmental Conservation overlay expansion (~77 acres)
- Columbia Corridor Industrial Lands (CCIL) Ezone Project started
- CCIL Ezone Project evaluating new/modified e zones
 - Approx. 68% being considered for Environmental Protection overlay (~53 acres)





Building Code Updates



Building Code Updates

Existing Title 24 Chapter 24.50 Requirements

- Apply to Metro Title 3 map
- "Balance cut/fill", or a 1:1 ratio for excavation to fill placement
- 1:1 ratio applies to all of the floodplain





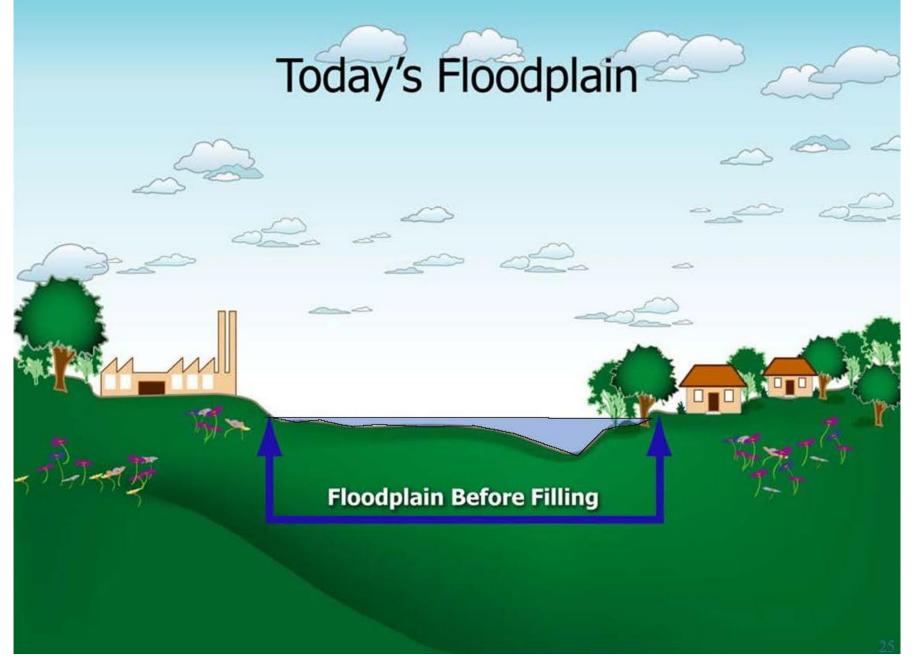
Building Code Updates

FEMA BiOp Directives

- Require excavation for fill and structures
- Increase excavation to offset development along the river
 - High hazard area (2:1)
 - Riparian buffer area & undeveloped floodplain (1.5:1)
- Excavation required in remainder of the floodplain (1:1)

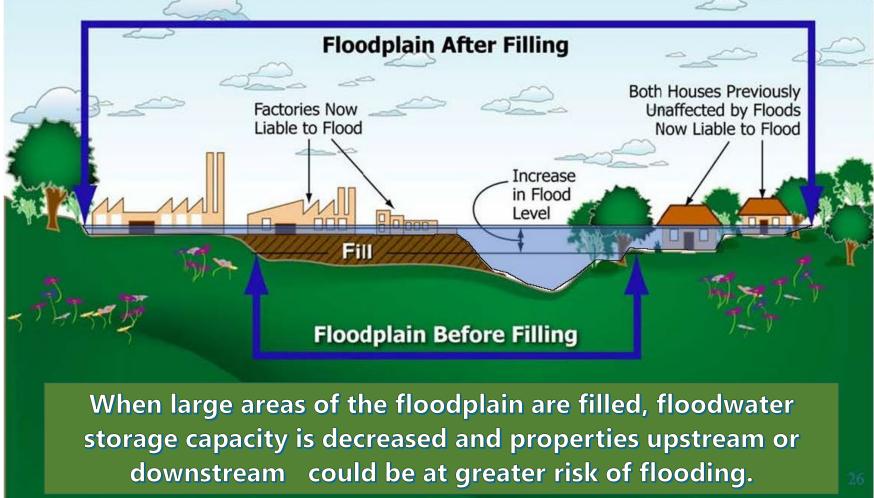








Today's Floodplain Is Not Necessarily Tomorrow's Floodplain





Title 24 Chapter 24.50

Current Schedule

- Now through 2022 Scoping
- Early 2023 Engagement through stakeholder groups and other outreach
- Proposed code amendments will be available for public review prior to City Council hearing
- Spring 2023 (target) City
 Council hearing(s) and adoption





Mitigation Banks





Mitigation Banking

Mitigation banks are projects that restore properties for the purpose of providing improved ecological function. The restoration and protection of these areas generate transferrable mitigation credits, that can be used to offset specific types of impacts (wetlands, streams, etc) resulting from development of other sites. Bank projects are approved and regulated by agencies at the federal, state, and sometimes local level; once approved, credits are generated as milestones are met, and released by regulatory staff.

These differ from In Lieu Fees because mitigation bank projects are built and approved prior to the development impact.

Mitigation Banking Operational and Management Models – Case Studies Report. 2019. Cascade Environmental for the City of Portland.





Staff Recommended Amendments



Staff Recommended Amendments

Two categories of amendments (see Attachment B)

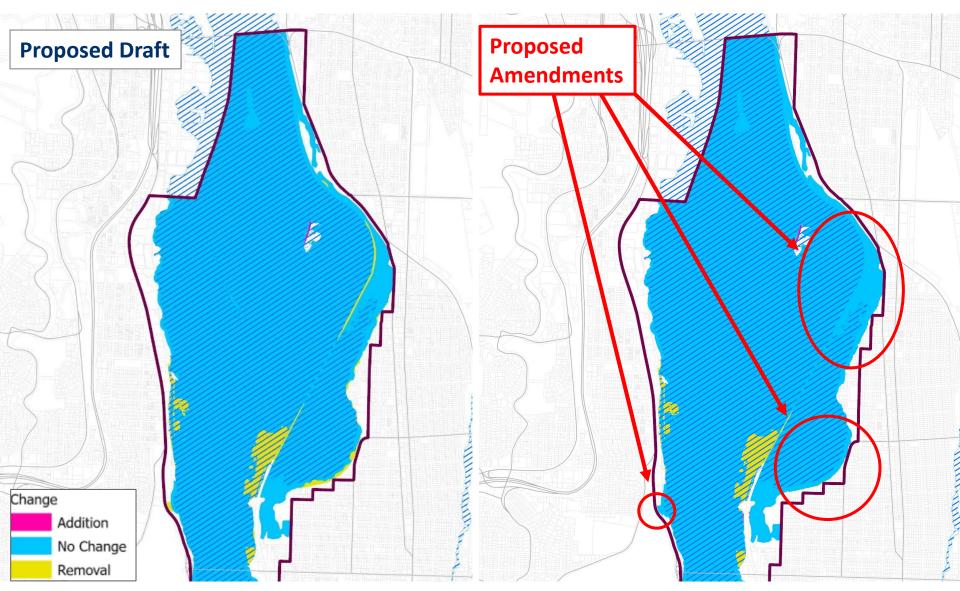
- Map amendments
- Zoning Code amendments

Staff-identified amendments for discussion

 A-1, Modification to the extent of River Environmental Overlay Zone in South Reach

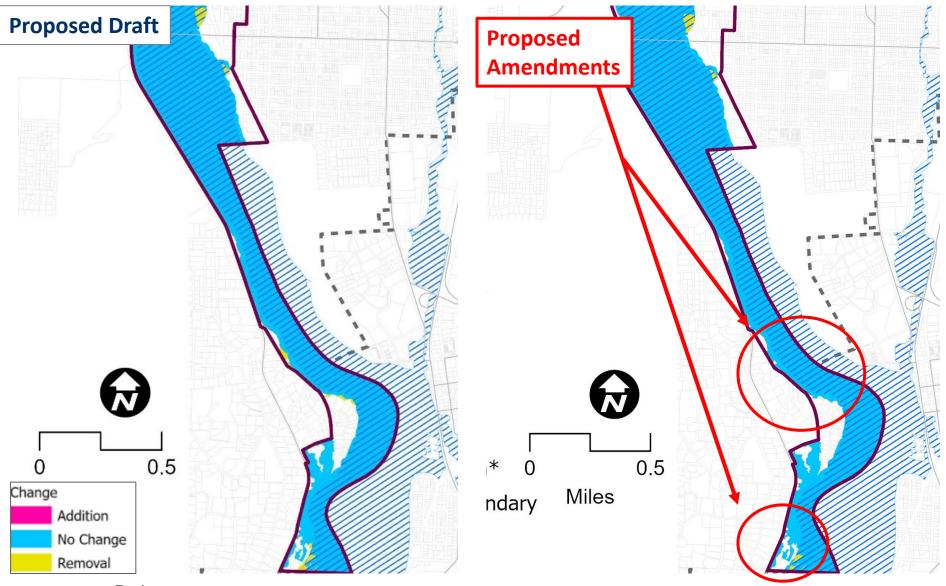


A-1, S Reach River Environmental Modification





A-1, S Reach River Environmental Modification



Questions/Discussion

Public Engagement

Before Discussion Draft (Nov 2021)

- Community Involvement Committee (CIC)
- Outreach to tribal governments

Discussion Draft (Nov 2021 – July 2022)

- 3 virtual open houses
- Comments through Map App
- Presented to/met with neighborhood assocs and stakeholder groups
- 3 focus groups, incl. 2 with BIPOC community members

Proposed Draft

Responded to 50 calls and 15 emails

