

# Implementation Strategy July 1, 2025 – June 30, 2035

**Purpose:** The 10-Year Implementation Strategy of the Lower Columbia Estuary Partnership (Estuary Partnership) will clearly tie back to issues addressed in the CCMP, including those habitats and species prioritized for protection and or restoration efforts, as well as other areas of focus that are identified in the CCMP including but not limited to water quality, stormwater, environmental education, science, monitoring, and maintaining the Estuary Partnership. The Implementation Strategy will also identify long-term financial sustainability objectives and financial strategies to accomplish the Actions of the CCMP.

The Implementation Strategy serves as a guidance document that addresses the basic requirements for the Habitat Protection and Restoration Strategy with the EPA Program Guidance FY25-FY28 (October 2024) and expands upon those habitat restoration specific activities to include the full suite of CCMP Actions and incorporates the results of the Estuary Partnership's Vulnerability Assessment completed in 2016-17 prior to the last Implementation Plan.

The second component of the Strategy is to identify a plan to achieve long-term financial sustainability to implement strategies that support the Actions of the CCMP through diverse resources and partners. This section of the Implementation Strategy will meet the requirements of Financial Strategy as outlined in the EPA Program Guidance FY25-FY28 (October 2024).

# Strategy Components:

#### Estuary Partnership Priority Issues:

- biological integrity
- habitat loss and modification
- impacts from human activity
- conventional pollutants
- toxic contaminants
- institutional constraints
- public awareness and stewardship

The seven priority issues are interrelated. The Estuary Partnership's fundamental goal is to achieve a high level of biological integrity for the lower Columbia River and estuary. That integrity has been degraded by human activity and growth over the last hundred plus years. The degradation is evidenced by habitat loss and modification, conventional pollutants (such as elevated temperature, increased dissolved gas, bacteria, and sediment), and toxic contaminants in fish tissue and sediments. Institutional constraints from multiple jurisdictions and lack of public awareness and stewardship make protection of the river challenging.

#### Estuary Partnership Goals in this 10-Year Implementation Window:

- Increase habitat and habitat function for multiple species; recover 30% (10,382 acres) of historic extent for priority habitats by 2030, and 40% (22,480 acres) of historic habitat coverage of priority habitats by 2050.
- Develop an inventory of ecosystem services potential by habitats across the lower river.
- Reduce or remove contaminants and clean up contaminated sites to improve water quality; work with policy makers to secure long-term funding and support for toxics monitoring in the lower river and larger basin.
- Provide education and engagement activities and provide data and information for a range of audiences; reach 3,000 students each year during 20,000 hours of river and environmental education programming; engage with 250 volunteers annually; and expand learning and engagement by creating community outreach and education plans for at least 50% of Estuary Partnership restoration and stormwater projects.
- Convene and coordinate partners to enhance regional strategies and partnerships and heighten protection of the lower Columbia River, including hosting Science to Policy Summits, Columbia River Estuary Conferences, and participating in a range of local, regional, and national collaborations and conversations.

# Habitat Restoration Targets:

# Identify relevant habitat types and key species in the study area;

The Estuary Partnership updated its Habitat Restoration Targets in collaboration and consultation with the members of the Science Work Group in 2016. The results of the multiyear effort identified the Priority Habitats within each Hydrogeomorphic Reach (A through H) of the lower Columbia. The goals of the CCMP reflect the goals identified below in the Future Habitat Coverage with Targets table. The methodology is based on the goal of recovering 30% of historic extent for priority habitats as a short term goal, by 2030, and 40% of historic habitat coverage of priority habitats as a longer term goal, by 2050. The targets include the additional aspect of no conversion of other native habitats. We believe these targets will be protective of common species and put us on the trajectory of protecting biological integrity.

The Estuary Partnership completed a historical landcover change analysis in 2013, is in the process of updating that analysis (expected to be complete by October 2025), and consistent with CCMP Goals for Actions 1 and 2, will once again update the landcover dataset in 2035. Additionally, the Estuary Partnership completed a detailed sea level rise analysis and interactive map in 2018. The Estuary Partnership may adjust habitat targets based on our assessment of sea level rise impacts as well as the updated landcover data analysis when it is completed in 2025.

Reach	Priority Habitats						
	1	2	3	4			
A	herbaceous tidal wetland	wooded tidal wetland					
В	wooded tidal wetland	herbaceous tidal wetland					
С	wooded tidal wetland	herbaceous tidal wetland					
D	herbaceous tidal wetland	wooded tidal wetland	forested	herbaceous			
Е	herbaceous	forested	shrub-scrub	herbaceous tidal wetland			
F	forested	herbaceous	herbaceous wetland	shrub-scrub			
G	forested	herbaceous	herbaceous wetland				
H	wooded wetland						

Table 1. Priority habitats (in order) by Hydrogeomorphic Reach

	Future Habitat Coverage with Targets							
Reach	30% Target					40%	Target	
	Priority	Other	Total	% <b>of</b>	Priority	Other	Total	% of
	Habitat	Habitat	Habitat	Historic	Habitat	Habitat	Habitat	Historic
Α	3,483	11,825	15,308	82	4,644	11,825	16,469	88
В	10,122	12,032	22,154	83	10,122	12,032	22,154	83
С	7,689	10,806	18,495	59	10,252	10,806	21,058	67
D	5,108	2,097	7,205	43	6,644	2,097	8,741	52
E	4,706	2,700	7,406	45	6,274	2,700	8,974	54
F	17,872	7,976	25,848	42	21,046	7,976	29,022	47
G	9,974	2,991	12,965	40	11,888	2,991	14,879	45
н	1,132	4,301	5,433	81	1,337	4,301	5,638	84
All	60,085	54,728	114,813	54	72,205	54,728	126,933	60

#### Sea level rise and recurring extreme weather events stressors and impacts on living resources;

The impacts of recurring extreme weather events like hotter drier summers and milder winters are already affecting the Columbia estuary, and they are predicted to have profound impacts in the future. Ecosystems, and the wide range of services they provide to all species, including humans, are threatened in multiple ways by changing precipitation patterns, more extreme storms, sea level rise, warming temperatures, and more.

Major impacts that are observable in the lower Columbia include changes to streamflow and flow timing; precipitation rates, intensity, and timing; higher temperatures; longer, drier summers, and increased flooding with sea level rise and river stages.

The Estuary Partnership will continue to study and implement actions to address the impacts of changing atmospheric conditions<sup>1</sup> including;

- Identifying, protecting, and enhancing cold-water refuge areas for salmon survival
- Assessing the impacts of sea level rise and increased riverine flooding on lower Columbia wetlands
- Working with communities and partners to assess, identify, and generate solutions that address vulnerabilities and increase resilience

<sup>&</sup>lt;sup>1</sup> <u>https://www.estuarypartnership.org/our-work/research/climate-resiliency</u>

- Identifying opportunities to increase the understanding of harmful algal blooms in area waterways and assess actions to address
- Consider restoration techniques such as living shorelines, hyporheic exchange, and nature-based solutions
- Develop an inventory of greenhouse gas sequestration potential by habitats across the lower river.

### Key Strategies to Implement the CCMP 2025-2035

The following table identifies how the Estuary Partnership will implement the Actions identified in the CCMP. The table expands upon the Actions of the CCMP and includes; include the proposed action plan timeframe, and where appropriate, key milestones for completion; estimate the range of potential costs of the overall action and identify the possible sources of funding; targets; and performance measures.

Within the CCMP each Action includes statements identifying key activities – they are referred to as the "how" statements, and identification of lead implementors and partners. The Estuary Partnership's role is also identified. In this implementation plan table if the Estuary Partnership is not a lead implementer or reporter, that is noted.

The performance measures are intended to provide quantitative data that the Estuary Partnership can track over the implementation period to assess progress for meeting overall CCMP targets.

Action:	Proposed action plan timeframe, and where appropriate, key milestones for completion;	Estimate the range of potential costs of the overall action and identify the possible sources of funding;	Targets, including protection and restoration targets (if applicable): Note: All CCMP Targets included.	Performance measures- (What the Estuary Partnership will track annually)
Action 1: Inventory habitat types and attributes in the lower Columbia River and estuary and prioritize those that need protection and conservation; identify habitats and environmentally sensitive lands that should not be altered. Update periodically to reflect emerging science and issues.	<ol> <li>Habitat maps updated by 2034</li> <li>Map ecosystem services of estuarine habitats in the lower Columbia potential by 2030.</li> <li>Update Landcover Dataset by October 2025, with update by 2035</li> <li>Refine regional ecosystem services calculators, ongoing</li> </ol>	1. Habitat Map data ~ \$100,000 to update in 2034. Potential Funding sources - EPA, State of OR, State or WA. 2. Greenhouse gas sequestration potential mapping ~\$275,000/year assessment and analysis phase (2024- 2027), ~ \$100,000 - \$250,000 for mapping, ongoing costs not identified. Funded 2024-2026 EPA BIL, future potential funders EPA, States, competitive funding sources. 3. ~\$50,000- \$100,000/year to update ecosystem services calculators. Not currently funded, potential future funders EPA, competitive funding sources.	<ol> <li>Update the map of habitats every ten years.</li> <li>Develop a map that estimates greenhouse gas sequestration potential by 2030.</li> <li>Maintain and update criteria and tools to identify priority species and maps of their priority habitats.</li> <li>Update and maintain maps that provide information and tools related to vulnerabilities in the estuary due to recurring extreme weather events, accelerated land loss, and sea level rise.</li> </ol>	<ol> <li># of staff/contractors' hours spent in assessment and/or analysis of ecosystem services in the estuary</li> <li>\$ spent on assessment and analysis of ecosystem services in the estuary, and source of funds.</li> <li># of staff/contractor hours spent in habitat assessment.</li> <li>\$ spent on habitat assessment.</li> <li># of reports provided, and to whom, on assessment, analysis, mapping addressed in this action.</li> </ol>

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ACTION 2: Protect, conserve, restore, and enhance priority habitats, particularly wetlands, on the mainstem and within tributaries of the lower Columbia River and in the estuary.	1. All activities are ongoing. 2. Complete the landcover dataset update in 2025, and in 2035 (Action 1).	<ol> <li>Project development, collaboration, funding development ~</li> <li>\$100,000 - \$250,000 per year. Not currently fully funded. Potential future funding sources</li> <li>EPA, BPA, competitive funding sources.</li> <li>Individual project site feasibility, assessment, design ~</li> <li>\$200,000 and up. Site specific. Various local, state, and federal competitive funding sources.</li> <li>Individual project site construction and maintenance ~\$250,000 and up. Site specific. Various local, state, and federal competitive funding sources.</li> </ol>	<ol> <li>No net loss of native habitats from the 2009 baseline;</li> <li>Recover 30% (10,382 acres) of the historic coverage of priority* native habitats by 2030; and</li> <li>Recover 40% (22,480 acres) of the historic coverage of priority native habitats by 2050.</li> <li>Priority native habitats include; herbaceous tidal wetland, wooded tidal wetland, forested, herbaceous, shrub- scrub. Priority is identified by river reach A through H.</li> </ol>	<ol> <li># acres of each habitat type restored annually, further identified by location and what entity accomplished.</li> <li># acres of each habitat type protected or conserved annually, further identified by location and what entity accomplished.</li> <li>Total # acres restored, protected or conserved annually.</li> <li>Cumulative acres restored, protected or conservative reported annually.</li> <li>Total \$ annually of restoration, protection or conservation annually, further identified by funding source.</li> </ol>
ACTION 3: Monitor status and trends of ecosystem conditions and effectiveness of management actions.	<ol> <li>Complete annual ecosystem monitoring at 3- 5sentinel sites annually.</li> <li>Complete action effectiveness monitoring at all sites in accordance with approved monitoring plans - annually.</li> <li>Expand the use of UAV to make monitoring more efficient and effective as appropriate</li> </ol>	1.Annual cost to maintain a 4-5 person monitoring team to complete all AEM and EMP monitoring plans, including travel ~\$1.5m. Currently funded by BPA and specific project funders for monitoring plan implementation. 2.Annual UAV costs including inventory maintenance, insurance, certifications, maintenance ~ \$100,000 to \$250,000/year. Currently funded by BPA and project funders.	<ol> <li>Assess at least</li> <li>additional projects</li> <li>representing a broad</li> <li>geography,</li> <li>restoration method,</li> <li>and type of habitat in</li> <li>the habitat</li> <li>effectiveness</li> <li>monitoring program</li> <li>by 2035.</li> <li>Continue to</li> <li>sample and analyze a</li> <li>full suite of indicators</li> <li>at fixed sentinel</li> <li>locations that</li> <li>represent the</li> <li>estuarine-tidal</li> <li>freshwater gradient</li> <li>through 2035 as part</li> <li>of the ecosystem</li> <li>monitoring program.</li> </ol>	<ol> <li># of acres monitored annually by EMP.</li> <li># sites monitored annually by EMP, further identified by location.</li> <li># acres monitored annually by AEM.</li> <li># of sites monitored annually by AEM, further identified by location.</li> <li># and location of sites where UAVs were used for monitoring.</li> <li># of acres monitored annually using a UAV.</li> </ol>
ACTION 4: Establish and maintain Columbia River flows to meet ecological needs of the lower Columbia River and estuary.	Implementation and reporting by other partners.	NA	1. Increase the amount of water dedicated to meeting minimum flows between 1999 and 2035.	NA

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ACTION 5: Avoid the	Implementation and	NA	1. Update the	NA
introduction and reduce	reporting by other		inventory of invasive	
the prevalence of non-	partners.		species by 2035.	
native invasive species.			2. Provide programs	
			and technical	
			assistance to	
			encourage the	
			restoration and	
			protection of native	
			species with high	
			cultural value such as	
			wapato, cattail, and	
			lamprey.	
			3. Make state lists of	
			banned plants and	
			invasive species	
			accessible to a range	
			of issuers and users,	
			e.g. nurseries, etc.,	
			and update banned	
			list every five years.	
ACTION 6:	Implementation and	NA	1. Develop a sediment	NA
Manage human-caused	reporting by other		transport model for	
changes in river	partners.		the lower river to	
morphology and	partiers.		inform appropriate	
sediment distribution				
			locations for dredge	
within the Columbia			material placement.	
River channel to protect			2. Inventory and map	
native and desired			in-water structures	
species.			that affect flow as	
			part of the shoreline	
			inventory every five	
			years.	
ACTION 7:	1. Update the Estuary	1. Included in the	1. Reduce by 10%	Included in Action 1.
Develop floodplain	Partnership Shoreline	costs of Action 2, ~	armored or structured	
management and	Inventory by October	\$100,000 to update in	shoreline by 2030.	
shoreland protection	2025, update by	2034. Potential	2. Reduce by 30%	
programs	2035. (Assumes	Funding sources -	non-water dependent	
	coverage with update	EPA, State of OR,	structures in the	
	of Landcover Dataset,	State or WA.	floodplain and	
	Action 1)		floodway by 2030	
			3. Map and make	
			publicly available a	
			200-year floodplain	
			map by 2030.	
			4. Update the Estuary	
			Partnership shoreline	
			inventory every ten	
			years.	
		I	yours.	

ACTION 8: Reduce and improve the water quality of stormwater runoff and other non-point source pollution	<ol> <li>Complete stormwater retrofits annually at schools and other public spaces.</li> <li>Install native trees and shrubs with stormwater retrofit projects - ongoing.</li> </ol>	1. ~ \$100,000 per year for community outreach, project development and proposal development. Currently funded (2024-2026) by CRBRP Stormwater program funds. Future funding sources include EPA, States, local governments, other competitive sources. 2. ~ \$250,000 and up for individual stormwater retrofit project's. Currently funded by CRBRP Stormwater funds, States, local governments. Expect a similar mix of funding sources in the future. 3. ~ \$50,000 and up, annually, for native trees and shrubs. Currently funded by project funders.	<ol> <li>Increase on-site retention by 35% by 2035.</li> <li>Increase regenerative and environmentally sustainable practices on farms, roadway rights-of-way, and forestry lands by 2035.</li> <li>Complete at least 2 stormwater retrofit projects annually, beginning in 2024</li> </ol>	<ol> <li># of projects completed</li> <li>2. # of High School parking lot project # of schoolyard- based projects</li> <li>3. # of sq. ft. of impervious surface treated by green infrastructure</li> <li>4. # of sq. ft. of green infrastructure built</li> <li>5. # of sq. ft. of impervious surface removed</li> <li>6. # of plants planted</li> <li>7. # of trees planted</li> <li>8. # of classroom lessons provided # of students engaged</li> <li>9. # of education and outreach materials created</li> <li>10. # of people involved in project design meetings/events</li> <li>11. # of people involved in project construction (depave, etc.)</li> <li>12. # of native trees and plants installed with stormwater retrofit projects.</li> <li>13. \$ spent annually on stormwater retrofit projects (total), further identified by source of funding.</li> </ol>
ACTION 9: Ensure that development is ecologically sensitive, reduces greenhouse gas emissions, and reduces "heat island" effects	<ol> <li>Complete Action 1, Landcover dataset updates.</li> <li>Maintain habitat restoration and science programs that are current with industry standards and best practices - ongoing.</li> <li>Complete surveys of fish passage barriers - 2025.</li> </ol>	1. Costs of landcover dataset updates are in Action 1. 2. Professional development of restoration practitioners ~ \$20,000 to \$100,000 per year. Partially funded by EPA. Future funding from EPA or other competitive sources. 3. ~\$200,000 - \$500,000 per year in project development, community outreach, proposal development. 30% is funded by EPA BIL and EPA funds. 4. ~\$100,000 for fish passage barrier survey in 2025. Funded by LCFRB.	<ol> <li>Decrease impervious surface in tracts with high disparity by 5% by 2035.</li> <li>Increase by 10% mass transit, carpooling, walking, and bicycle commuting in the metro area by 2030.</li> <li>Reduce by 30% the ratio of converted land to population growth by 2030.</li> <li>Increase coverage of open space and trees and shrubs in urban areas by 35% by 2035.</li> </ol>	1. # hours spent by staff and contractors on project and proposal development.

Action 10: Expand and sustain regional monitoring of toxic and conventional pollutants.	<ol> <li>Complete annual ecosystem monitoring at 3-5 sites annually. (Action 3)</li> <li>Complete action effectiveness monitoring at all sites in accordance with approved monitoring plans. (Action 3)</li> <li>Complete updates to the monitoring strategy every ten years.</li> <li>Work with regional partners to secure long-term toxics monitoring.</li> <li>Work with the Science Work Group and other collaborators annually to ensure regional dissemination of status and trends.</li> </ol>	<ol> <li>-*\$1.2million -</li> <li>\$2million annually to support a monitoring team including personnel, travel, and equipment. Currently funded by BPA and project funders.</li> <li>Future funding is expected to remain with BPA and additional competitive funding sources.</li> <li>-*\$25,000 - \$50,000 annually to host the SWG and disseminate information via web based platforms.</li> <li>Currently funded by BPA and EPA. Future funding is expected to remain with BPA and EPA.</li> <li>-*\$250,000 and up depending on scope and scale, to support a long-term toxics monitoring program in the lower Columbia.</li> <li>Currently partially funded by an EPA</li> <li>CRPRP grant ending in 2025. Future funding uncertain.</li> </ol>	<ol> <li>Update the monitoring strategy through a collaborative process by 2035 and every ten years thereafter.</li> <li>Review and update a regional list of priority contaminants targeted for reduction by 2030.</li> <li>Regularly monitor and analyze the full suite of priority contaminants at a minimum of 30 sites by 2030 and report on impact on ecosystem and human health.</li> <li>Identify trends in contaminants and impacts of reduction actions by 2035 to adaptively manage.</li> <li>Decrease by 50%</li> </ol>	<ul> <li>1. # of toxics monitoring locations sampled each year.</li> <li>2. # staff/contractor hours spent in monitoring.</li> <li>3. List of toxics sampled/tested for in lower river annually.</li> </ul>
Action 11: Reduce conventional pollutants.	implementation and reporting by other partners.		<ol> <li>Decrease by 50% the number of streams that do not meet water quality standards by 2030.</li> <li>Reduce discharges by 25% from nonpoint sources by 2035.</li> <li>Put in place trading opportunities among dischargers by 2035</li> </ol>	

Action 12:	1. Participate with the	1. ~\$25,000 -\$50,000	1. Clean up a	1. # sites where trash,
Clean up, reduce, or	States and other	for staff time to	minimum of five "hot	marine debris, or derelict
eliminate toxic	regional authorities	collaborate with	spots" by 2030.	vessels were removed,
contaminants,	on marine debris and	partners. Currently	2. Render hazardous	annually.
particularly	derelict vessel	funded by EPA. Future	waste sites harmless	2. # of staff/contractor
contaminants of	workgroups, clean up,	funding from EPA or	by 2050.	hours on marine debris or
regional concern.	and removal.	other competitive	3. Reduce sales of	derelict vessel workgroups
-		sources.	products containing	or clean up actions.
		2. ~\$20,000 -	contaminants	3. \$ spent on marine debris
		\$200,000 for	(fertilizers, pesticides,	or derelict vessel
		community and	personal care	workgroups or clean up
		volunteer events to	products) by 2030.	actions.
		address marine debris	4. Expand regional	
		and trash removal.	pharmaceutical	
			takeback programs	
			with law enforcement	
			and medical providers	
			by 2030.	
			5. Hold pesticide and	
			fertilizer take back	
			programs in multiple	
			locations annually.	
			6. Remove marine	
			debris at a minimum	
			of 40 sites by 2035.	
			7. Remove another	
			10% of mapped	
			derelict vessels by	
			2030.	
			8. Remove chlorine	
			from wastewater	
			treatment and	
			industrial processes	
			by 2040	

ACTION 13:	1. Provide regular	°~\$120,000 -	Reports, publications,	1. # of subscribers to
Provide information	reports to the SWG on	\$200,000 annually to	and information:	eUpdate and Columbia
about the lower	ecosystem trends and	support a full	1. Issue a state of the	Connections newsletter.
Columbia River and	health, at least	communications		2. % of opened eUpdate
			estuary report that tracks indicators and	and Newsletters.
estuary that focuses on	annually.	team, website, newsletters, eUpdate,		
water quality,	2. Provide data,	•	reports natural	3. % of projects with a
endangered species, habitat loss and	mapping, reports, and other information	partners	resource trends and	communications plan,
		communications,	Estuary Partnership	annually.
restoration, biological	through accessible	social media, and	activities every five	4. # people attending
variability, and the	websites, easy to use	other outreach	years. 2. Publish technical	Science to Policy Summit
effects of recurring	written materials,	strategies. Currently,		and topic, when held.
extreme weather events	story maps, and other	it is partially funded by	analyses of topics	5. # people attending
on the estuary to a range	methods.	EPA.	including toxic	Columbia River Estuary
of users	3. Produce and	°~\$5,000 - \$10,000	contaminants by	Conference,
	circulate an eUpdate	per project to create,	2027 and every ten	topics/speakers, when
	and Columbia Connections	implement and	years thereafter.	held.
		manage a	3. Publish the	
	newsletter, monthly.	communications	inventory and status	
	4. Increase the	strategy. Currently	of habitat restoration	
	percentage of opens	funded by EPA and	efforts in the region	
	for the eUpdate and	other project funders.	annually.	
	Newsletter.	Future funding is tied	4. Consistently	
		to competitive funding	distribute information	
		sources for	to consumers and	
		restoration,	land users through	
		stormwater, and	various means, e.g.,	
		education programs.	media, print	
			materials, websites, workshops.	
			-	
			Exchange and sharing of information:	
			1. Host at least one	
			Science to Policy	
			Summit every two	
			years. 2. Host or co-host a	
			regional scientific	
			workshop or	
			conference at least	
			every three years.	
			3. Update technical information on	
			website annually.	

ACTION 14:	1. Complete annual	1. ~ \$500,000 -\$1.2m	1. Provide a minimum	1. # hours of the following:
Create and implement	plans for school-	for annual planning	of 20,000 hours of	a) k-12 in classroom
education and volunteer	based programming	and implementation -	river and	science education, further
opportunities for	2. Complete annual	Environmental	environmental	identified by location
community members of	plans for volunteer	Education and On-	education programs	b) k-12 field trips and
all ages to engage in	planting and other	Water Canoe	to at least 3,000	service learning, further
				_
activities that promote	volunteer events	programming.	students in K-12	identified by location and school.
stewardship of the	annually.	Currently funded by	grade annually.	2. # of individual in
lower Columbia River	3. Develop and	EPA, WA, and other	2. Organize a minimum of ten	
and estuary	maintain a suite of science and other	competitive sources.	volunteer	classroom lessons,
		Future funding from		annually
	environmental	EPA, WA, competitive	opportunities	3. # of individual students
	education	sources.	engaging a minimum	served
	opportunities for	2. ~ \$50,000 -	of 250 volunteers	4. # of schools served
	lending, access via	\$350,000 for planning,	contributing 750	annually 5. # of volunteers who
	the web, or other	organizing, facilitating	hours of volunteer	
	methods, with an	volunteer events.	time annually.	participate annually in
	annual review of	Currently funded by	3. Update curriculum	programming
	offerings.	States and other	at least once a year.	6. # of trees and shrubs
	4. Support	competitive sources.	4. Create community	planted annually by:
	professional	Future funding from	outreach and	a) students in classroom
	development to	EPA, States,	education plans for at	activities
	ensure that Estuary	competitive sources.	least 50% of	b) volunteers - adults and
	Partnership	3. ~\$25,000 -	restoration projects	youth - in volunteer
	Environmental	\$150,000 to develop	that identify	program activities
	Educators are able to	and maintain	opportunities for	7. % of restoration projects
	interact with and	curriculum. Currently	education and public	with an accompanying
	provide materials that	funded by competitive	stewardship; include	education/communications
	represent the current	sources. Future	accessibility plan (if	plan
	state of the art, reflect	funding from EPA, WA,	appropriate); create	8. # hours spent by staff in
	best practices, and	competitive sources.	listservs, social	professional development
	meet state goals.	4. ~\$20,000 -	media, and other	9. # of hours spent in
	5. Support a robust	\$100,000 for	opportunities for	project and proposal
	collaborative program	professional funded.	community learning	development
	that encourages	Currently it is only	and engagement.	
	community and	partially funded by		
	partner engagement	EPA and other		
	in project and	competitive sources.		
	proposal	Future funding from		
	development.	EPA, WA, competitive		
		sources.		
		5. 3. ~\$100,000 -		
		\$300,000 per year in		
		project development,		
		community outreach,		
		proposal		
		development.		
		Currently		
		approximately 30% is		
		funded by EPA BIL and		
		EPA funds. Future		
		funding by EPA or		
		other competitive		
		sources.		

ACTION 15:	1. Annual website	1. ~\$10,000 for annual	1. Update the Water	1. # Wayfinding signs on
Identify and improve	updates for the water	website and mapping	Trail website at least	Water Trail installed.
public access to the	trail	updates.	annually.	2. # of Water Trail sites
river.	2. Continue to install	2.~\$50,000 -	2. Install Water Trail	maintained or cleaned for
	water trail wayfinding	\$100,000 to complete	wayfinding signs at	volunteer events.
	signs, complete by	the wayfinding project	locations of interest,	3. # of swimming sites
	October 2027.	for the water trail.	campgrounds, and	maintained or cleaned for
	<ol><li>Complete one</li></ol>	Currently not funded.	other sites by 2027.	volunteer events
	swimming area or	Future funding from	<ol><li>Conduct at least</li></ol>	4. # of paddling events
	beach cleanup as part	EPA or other	one cleanup or	5. # of people engaged in
	of the volunteer	competitive source.	maintenance of a	paddling
	program, each year,	3. ~\$250,000 -	Water trail site	6. # of Big Canoe program
	beginning in Summer	\$450,000 for annual	annually as part of the	partners, further identified
	2025.	on water paddling	volunteer program.	by organization
		program including	<ol><li>Conduct at least</li></ol>	7. # of sites tested prior to
		staffing, safety	one cleanup or	harvest of first foods
		equipment and	maintenance of a	
		training, supplies for	swimming area along	
		individual programs,	the Willamette, as	
		mileage, and partner	part of the volunteer	
		stipends. Currently	program, annually.	
		funded by competitive	5. Conduct at least	
		sources. Future	twenty-five paddles	
		funding by	annually with partners	
		competitive sources.	and community	
		4. ~\$10,000 - \$20,000	members.	
		for site testing for	6. Complete testing at	
		harvest of culturally	one site used for	
		important foods.	harvest of culturally	
		Currently not funded.	important first foods	
		Future funding by	at least annually.	
		competitive sources.		

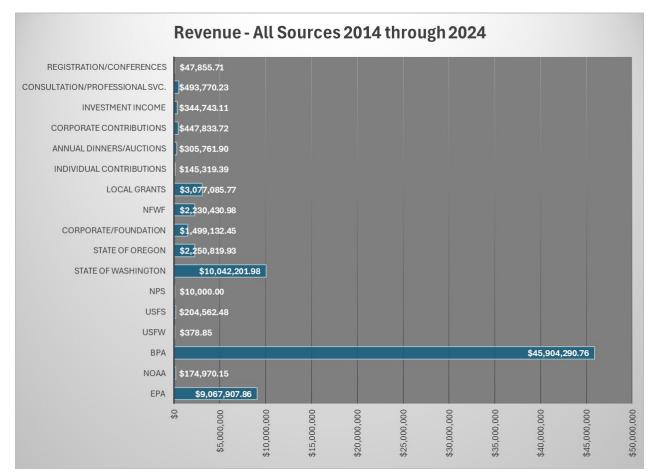
Action 16:	1. Host and facilitate	1. ~\$20,000 annually	1. Implement	1. # of hours and # of
Facilitate and assist	quarterly Science	to support the work of	projects annually in at	meetings of Science Work
federal, tribal, state,	Work Group	the Science Work	least five counties	Group meetings.
and local governments	2. Maintain web-	Group. Currently	that advance habitat	2. # of attendees at each
protection of the lower	based science	funded by EPA and	restoration or water	Science Work Group
Columbia River and	repository, maps,	BPA, future funding is	quality goals of the	meeting and affiliation.
estuary.	tools, and resources.	expected to remain	states and federal	3. List of local, state,
	3. Participate in local,	through those	government.	regional work groups or
	state, regional work	sources.	2. Provide expertise	collaboratives that staff
	groups and	2. ~\$12,000 - \$50,000	to a minimum of two	participate in, further
	collaboratives that	annually to maintain	other organizations	identified by # of meetings,
	coordinate with our	and update web based	annually concerned	position held (if
	programming.	repositories. EPA	with lower river	applicable).
		funded, future funding	resources such as	
		expected to remain	Vancouver Lake	
		with EPA or other	Partnership, Oregon	
		competitive sources.	Abandoned and	
		3. ~\$150,000 -	Derelict Vessels	
		\$250,000 annually for	Workgroup, Lower	
		GIS and mapping	Columbia Solutions	
		program. Currently	Group, EPA Columbia	
		funded by EPA, BPA,	River Toxics	
		and other competitive	Reduction Working	
		funding sources.	Group, and others.	
		Future funding from		
		mix of competitive		
		funding sources.		
		4. ~\$120,000 annually		
		to support staff		
		participation in		
		workgroups and		
		collaboratives.		
		Currently funded by		
		EPA, BPA and other		
		competitive funding		
		sources. Future		
		funding from mix of		
		competitive funding		
		sources.		

		4 44 000 000		
ACTION 17:	1. Host quarterly	1. ~\$1.200,000 -	1. Assess current	1. # proposals written and
Create and maintain a	meetings of the Board	\$3,000,000 to fully	activity and progress	funded, including total \$
regional entity (Lower	of Directors,	staff and fund the	regularly and define a	value, and purpose of
Columbia Estuary	Executive Committee,	Estuary Partnership.	ten-year strategy to	project.
Partnership) to	and other committees	Currently funded by	implement activities	2. # of Board and
advocate for the lower	of the Board.	EPA, the States, and a	in the Management	Committee meetings, # of
Columbia River and	2. Complete an	mix of competitive	Plan.	attendees, # hours for each
estuary and unify and	annual EPA workplan	funds. Anticipate	2. Develop a funding	meeting.
coordinate	no later than April of	future funding to	strategy to support	3. Total \$ value of program
Management Plan	each year.	maintain that mix.	the implementation	work completed in all areas
implementation.	3. Complete an	2. ~\$10,000 annual	strategy.	including habitat
	annual operating	performance reporting	3. Update the status	restoration, science and
	budget and staffing	for EPA and other	of implementation	monitoring, stewardship,
	plans by April of each	funders. Currently	strategy activities	environmental education,
	year.	funded by EPA and	annually.	stormwater and green
	4. Host or participate	other competitive	4. Maintain or grow	infrastructure, on-water
	in a range of local,	sources, expect this	state and federal	programs, water trail,
	state, regional, and	funding mix to	National Estuary	communications and
	national level	continue.	Program funding.	community outreach,
	collaborative	3. ~\$100,000 -	5. Maintain diversified	general administration.
	partnerships to meet	\$250,000 annually to	funding.	4. Total \$ value of all
	the goals of the	support project and	6. The Columbia River	proposals submitted,
	CCMP, the 10-year	proposal	Basin Restoration	awarded, or declined for
	implementation, and	development.	Program is	each program area
	the broader goals of	Currently only partially	reauthorized	including habitat
	the National Estuary	funded by EPA. Future	regularly.	restoration, science and
	Program.	funding by EPA and	7. Make annual	monitoring, stewardship,
	5. Complete annual	competitive sources.	federal appropriations	environmental education,
	performance	competitive sources.	requests.	stormwater and green
	measurement		1040000	infrastructure, on-water
	assessments and			programs, water trail,
	reports.			communications and
				community outreach,
				general administration and
				-
	1			capacity.

# Financial Strategy:

#### Current Funding Serving the Estuary Partnership;

Over the last ten year period, from July 1, 2014, through June 30, 2024 the Estuary Partnership realized over seventy-six million dollars in revenue. That revenue comes from a variety of sources, but predominately from government grants, which provided over sixty-seven million dollars during the same time period – or about 88% of total revenue during the period. Below is the breakdown of funding from all sources:





When funding is broken into major categories, and BPA is considered separately as rate payer-sourced funds, the above chart illustrates the significant differences in funding between categories. It is also important to note that over seventyfour million dollars of revenue was from restricted sources, meaning it was connected to an approved scope of work and budget and did not offer flexibility in how those funds were expended. Those restricted funds accounted for 97.6% of revenue realized during the period. When funds that were realized as payment

for professional services the Estuary Partnership provided and registration for conferences are also removed from consideration – a total of just over one million dollars 1.6% of total revenue over the period was unrestricted.

Additionally, while the CCMP is a requirement of the EPA and a component to the Estuary Partnership's position as a National Estuary Program and all work that the Estuary Partnership accomplishes is in furtherance of our goals within the CCMP, only 11% of the total funding over the ten year period came from the EPA and even less of that EPA funding were Base funds. In practice the EPA Base funding the Estuary Partnership receives from the EPA supports the administrative and operational functions of the organization and little else. This would potentially be one of the few sources of funding that could support project and proposal development if it were more robust, or if there were other sources of funding to support the administrative and operational needs of the organization.

#### Priorities for Funding;

The Estuary Partnership will prioritize funding for projects that support the implementation of activities that meet the goals of the CCMP. In addition to a guiding interest in working to achieve the goals of the CCMP, the Estuary Partnership will prioritize funding that:

- Provides funding for communications and outreach with communities and partners;
- Provides funding for integrated, cross team collaboration on projects- environmental education components on habitat restoration projects, for example;
- Supports establishment of long-term monitoring in the lower river;
- Provides funding for the administrative and operational costs associated with implementing the work of the Estuary Partnership;

#### Short- and Long-Term Resource Needs;

- Short Term Five years or less:
  - Unrestricted revenue to pursue project development and proposal writing
  - o New vehicles
  - Funding to support limited duration personnel for seasonal and limited duration projects after BIL sunsets
  - Water trail funding
  - Ongoing replacement of technology laptops, towers, servers, software, peripherals
  - Funding for professional development
- Long-Term Five to ten years or longer:
  - Review of personnel policies and benefits to attract and retain a new generation of employees
  - New office space lease that better accommodates parking, storage, security, interior office/structural needs for the team-based workforce
  - Funding to support habitat restoration projects that may be further afield, beyond the boundaries of the study area

Need:	Strategies:	Timeline:	Goals:
Increase Unrestricted Funding	<ul> <li>Work to build giving campaigns</li> <li>Increase individual giving</li> </ul>	<ul> <li>Current (2/2025) through mid-2026.</li> <li>Current (2/2025) through end-2026.</li> </ul>	<ul> <li>Increase campaign revenue by 25% by 2027 and 40% by 2030.</li> </ul>
	<ul> <li>Build major donor program</li> <li>Review and reconsider annual event approach</li> </ul>	<ul> <li>Engage with a major donor consultant. Early 2026.</li> <li>Build campaign and secure first major donor by early 2027.</li> </ul>	<ul> <li>Increase individual giving by 20% by 2027 and 40% by 2030.</li> <li>Secure major donor by early 2027.</li> </ul>

#### Strategies and Timelines to Develop Additional Resources:

		<ul> <li>Review annual event following 2025 39<sup>th</sup> anniversary.</li> </ul>	<ul> <li>Increase annual event revenue by 30% by 2028.</li> </ul>
Diversify State Funding Sources	<ul> <li>Work with state agencies to identify shared mission and identify potential funding sources</li> </ul>	<ul> <li>Throughout the 25-27 biennium, work with both states.</li> </ul>	Secure funding through one additional state agency by 2028.
Increase Professional Services Income	<ul> <li>Respond to RFPs for services – Education, restoration, stormwater, other programming</li> </ul>	Current and ongoing	• Secure multi-year contracts for at least two program areas by 2027.
Increase funding for administration and operations	<ul> <li>No longer write proposals for awards that do not allow indirect cost recovery</li> </ul>	• Explore the viability of this approach in 2026.	• All funders will support the 15% de minimis rate.
Additional project and proposal development funding	<ul> <li>Increase EPA Base funding to full appropriation</li> <li>Write proposals for organizational capacity</li> </ul>	<ul> <li>Work with delegation and ANEP to accomplish</li> <li>Identify and apply for organizational capacity grants beginning in 2025.</li> </ul>	<ul> <li>Secure full funding by 2026.</li> <li>Secure organizational capacity funds by mid-2026.</li> </ul>

#### Strategy Implementors and Sources of Funding:

While the Estuary Partnership is driven by the goal of implementing the CCMP, not all of the resource development work that has to happen to ensure the long-term sustainability of the organization can be sustained by EPA Base funding. To accomplish the work that needs to be undertaken to diversify funding and secure organizational sustainability, the Executive Director and the Communications & Development Manager will work in partnership with other staff and consultants.