Lower Columbia Estuary Partnership
BIL Workplan FY24

October 1, 2023, through September 30, 2024

Submitted to: Yvonne Vallette, EPA Region 10 Project Manager
Prepared by: Dr. E. Elaine Placido, Executive Director

Submitted May 2023

Contents

Comprehensive Conservation and Management Plan Goals:

The Estuary Partnership Management Plan was developed from 1996 to 1999 using extensive scientific research, analysis, and historical data.[1] The 1999 Management Plan identified 43 actions, including environmental goals and objectives, to address seven priority issues:

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

The Estuary Partnership Board of Directors updated specific actions (Chapter 5 of the 1999 Management Plan) in 2001, to set a new target for habitat restoration. In 2011 the CCMP was again updated to incorporate nearly sixteen years of experience implementing the Management Plan, add climate change adaptations, set new targets, and streamline actions. The result of the 2011 update was a set of 17 actions that give concise directions for the region and provide specific targets. The Management Plan is a long-range regional plan; many actions need to be sustained for years to ensure the long-term health of the ecosystem. The Estuary Partnership builds on current efforts, provides a regional framework, develops new tools, and fills gaps in science. The approach is intended to restore habitat while advancing science and improving river conditions as we learn.

Management Plan Goals:

- Increase habitat and habitat function for multiple species; restore 25,000 acres of habitat by 2025.
- Conserve land to protect water quality and habitat; reduce impacts from land use practices; reduce armored shoreline by 10% by 2025; maintain impervious surface at no more than 15%.
- Reduce or remove contaminants and clean up contaminated sites to improve water quality.
- Provide education and engagement activities and provide data and information for a range of audiences; reach 5,000 students each year and host at least ten volunteer events each year.
- Convene and coordinate partners to enhance regional strategies and partnerships and heighten protection of the lower Columbia River.

As in protecting the lower Columbia River and estuary, the actions do not have end dates. The Board of the Estuary Partnership periodically assesses Estuary Partnership activities, successes and challenges and adopts a six-year implementation plan to guide day-to-day activity and define financial strategies.

Management Plan Actions:

The Management Plan is a comprehensive Regional Plan, implemented through coordinated effort. The actions within the Management Plan fall into two categories – shared actions and Estuary Partnership actions. Within those two categories, actions are further grouped by program area.

Shared Actions

Habitat Restoration

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.

ACTION 2**:** Protect, conserve, and enhance priority habitats, particularly wetlands, on the mainstem of the lower Columbia River and in the estuary.

ACTION 3: Monitor status and trends of ecosystem conditions.

ACTION 4: Establish and maintain Columbia River flows to meet ecological needs of the lower Columbia River and estuary.

ACTION 5**:** Avoid the introduction of non-native invasive species.

ACTION 6: Manage human-caused changes in the river morphology and sediment distribution within the Columbia River channel and estuary to protect native and desired species.

Land Use Practices

ACTION 7: Develop floodplain management and shoreland protection programs.
ACTION 8: Reduce and improve the water quality of stormwater runoff and other non-point source pollution.

ACTION 9: Ensure that development is ecologically sensitive and reduces carbon emissions.

Water Quality and Contaminant Reduction

ACTION 10: Expand and sustain regional monitoring of toxic and conventional pollutants.

ACTION 11: Reduce conventional pollutants.

ACTION 12: Cleanup, reduce or eliminate toxic contaminants, particularly contaminants of regional concern.

Estuary Partnership Actions

Education and Stewardship

ACTION 13: Provide information about the lower Columbia River and estuary that focuses on water quality, endangered species, habitat loss and restoration, biological diversity, and climate change to a range of users.

ACTION 14: Create and implement education and volunteer opportunities for citizens of all ages to engage in activities that promote stewardship of the lower Columbia River and estuary.

ACTION 15: Identify and improve public access to the river.

Regional Coordination and Synchronicity

ACTION 16: Facilitate and assist federal, tribal, state, and local governments' protection of the lower Columbia River and estuary.

ACTION 17: Create and maintain a regional entity (Lower Columbia Estuary Partnership) to advocate for the lower Columbia River and estuary and unify and coordinate Management Plan implementation.

Proposed Project Types:

The Estuary Partnership proposed to focus on several broad project types during the life of the BIL funding, those project types include:

- Habitat Restoration Projects: These are projects of varying size and complexity that are intended to identify, protect, conserve, and enhance priority habitats throughout the estuary.
- Water Trail Non-Motorized Boat Access and Infrastructure Projects: These are projects focused on education and stewardship, with emphasis on improving public access to the river.
- Stormwater and Green Infrastructure Projects: These projects will implement a variety of project types intended to improve water quality and reduce contaminates.

- Assessment and Monitoring: These projects are intended to provide data on the status and trends of ecosystem conditions in the estuary; expand regional monitoring of toxic and conventional pollutants; and expand knowledge and understanding of the value of blue carbon in the estuary.
- Environmental Education: These are a variety of projects that may take place throughout the estuary and will focus on communities and schools that are identified as disadvantaged. Education programs engage students and community members to promote stewardship and increase knowledge about the estuary.

Environmental Justice:

The Estuary Partnership completed its proposed Equity Plan to inform our work within and benefiting overburdened and disadvantaged communities, in April 2023. The Estuary Partnership has proposed to use a combination of metrics used by the EPA, CEQ, the State of Washington, Title 1a eligibility, and mapped Tribal lands in our definition.

Defining disadvantaged communities within the study area requires a set of indicators that mirror the diversity and scale of the communities within the region as well as the range of social, environmental, climate change, and economic burdens that face the people that live here. Therefore, the Estuary Partnership will utilize a combination of the EJScreen Supplemental Demographic Index, the CEQ CEJST indicators, Washington's health disparities methodology, Tribal areas, and Title I Schools. The indicators we will use within the study area are:

- A community is within a census tract that meets or exceeds the 80th percentile for all these indicators, averaged:
    - Percent low-income;
    - Percent limited English speaking;
    - Percent less than high school education;
    - Percent unemployed;
    - Low life expectancy.
    - No Access to Private vehicle;
    - Population Age 65+ Living Alone;
    - Population with a Disability.
- A community is within a census tract in which any one of these burdens are met:
- Climate Change – if a community is at or above the 90th percentile for:
    - Expected agriculture loss rate, or
    - Expected building loss rate, or
    - Expected population loss rate, or
    - Projected flood risk, or
    - Projected wildfire risk.
    - AND is at or above the 65th percentile for low income.
- Energy – if a community is within a census tract that:
    - IS at the 90th percentile for energy cost or PM2.5 in the air.
    - AND are at or above the 65th percentile for low income.
- Health – if a community is within a census tract that:
    - IS at or above the 90th percentile for asthma OR diabetes OR heart disease OR low life expectancy.
    - AND is at or above the 65th percentile for low income.
- Housing – if a community is within a census tract that:
    - Experienced historic underinvestment OR is at or above the 90th percentile for housing cost OR lack of green space OR lack of indoor plumbing OR lead paint.
    - AND is at or above the 65th percentile for low income.
- Legacy pollution – if a community is within a census tract that:

    - Has at least one abandoned mine land OR Formerly Used Defense Sites OR are at or above the 90th percentile for proximity to hazardous waste facilities OR proximity to Superfund sites (National Priorities List (NPL)) OR proximity to Risk Management Plan (RMP) facilities.
    - AND is at or above the 65th percentile for low income.
- Transportation – if a community is within a census tract that:
    - IS at or above the 90th percentile for diesel particulate matter exposure OR transportation barriers OR traffic proximity and volume.
    - AND is at or above the 65th percentile for low income.
- Water and wastewater – if a community is within a census tract that:
    - IS at or above the 90th percentile for underground storage tanks and releases OR wastewater discharge.
    - AND is at or above the 65th percentile for low income.
- Workforce development – if a community is within a census tract that:
    - IS at or above the 90th percentile for linguistic isolation OR low median income OR poverty OR unemployment.
    - AND fewer than 10% of people ages 25 or older have a high school education (i.e., graduated with a high school diploma).
- Title I Schools – Eligible to participate in the Title I Schools Program.
- Tribal areas

Mapping of the study area with the definitions applied is publicly available at Equity Plan Map.

Projects: FY24 – October 2023 through September 2024

The Estuary Partnership will be continuing most of the projects that were initiated during the first two years of BIL funding. A new project area for communications about the project with communities and stakeholders was added. The following are descriptions of the projects that will begin or continue during Year 3 (FY24).

Inventory of Carbon Sequestration Potential

Across multiple phases, the **Inventory of Carbon Sequestration Potential** project will, in collaboration with Oregon Health Sciences University (OHSU), identify which habitat types found within the reference and restored wetland emit the most methane and/or store the most carbon.

The Project supports CCMP Actions:

- Habitat Restoration Action 1
- Habitat Restoration Action 2
- Habitat Restoration Action 3
- Land Use Practices Action 9
- Education and Stewardship Action 13
- Regional Coordination and Synchronicity Action 17

The Project Support BIL/IIJA by:

- Assessing habitat types for carbon sequestration potential to address climate change and resilience and assist in regional climate adaptation approaches.
- The Project will be undertaken in the Lower Columbia River Estuary, which is home to more than 8 million people, including Native peoples of the Chinook, Wasco, Cowlitz, Yakama, and other Chinookan speaking peoples. The lower 146 miles of the river include the highly urbanized areas within the Longview Metropolitan Statistical Area and the Portland-Vancouver-Salem Combined Statistical Area (US Census Bureau 2021)[i] as well as rural areas in the lower section of the Estuary. The result of the project will provide opportunities to increase climate resilience within a wide range of disadvantaged communities throughout the lower Columbia.
- **New Or Ongoing Project:** New Project
- **Program Capacity Needs to delivery BIL Supported Activities:**
    - Hiring 1 FTE Research Scientist
- **Brief Description:** Inventory of the carbon sequestration potential of reference and restored wetland habitats to identify which habitat types emit and/or store carbon and to what extent.
- **Leads, Partners, Roles:**
    - Dr. Sarah Kidd – Senior Scientist at the Estuary Partnership will lead the monitoring and research team which will include:
        - Sneha Rao Manohar – Research Scientist, Estuary Partnership
        - Ian Edgar – Research Scientist, Estuary Partnership
- **Opportunities for Coordination with other Key Stakeholders:**
    - Research support
- **Anticipated Outputs or Deliverables:**
    - Monitoring infrastructure needed to assess the capture and release of methane within the estuary.
    - Testing methods
    - Assessment of carbon sequestration and methane release within the diverse habitats of the lower Columbia

- **Estimate Milestones:**
    - July 2023 - Begin data collection within reference habitats.
    - July 2024 – Begin data collection in additional habitats.
    - July 2025 – Develop inventory of potential carbon stores and methane releases across the lower river.
- **Anticipated Long-Term Outcomes:**
    - Identification of carbon sequestration potential by wetland habitat types
    - Identification of habitats to target for preservation and/or restoration to increase carbon sequestration in the lower river.
    - Increased technical assistance and community engagement of disadvantaged communities.
- **Budget:**
    - Total Budget - $1.5 million
    - FY24 Budget - $299,697

Habitat Restoration: Ridgefield Pits/Daybreak Pits

The Ridgefield Pits/Daybreak Pits habitat restoration project represents a major habitat restoration project in a watershed that has already been impacted by significant habitat degradation and loss from urbanization and surface mining activities. The East Fork Lewis River and its tributaries are on Washington State's impaired waters list for warm water temperatures and bacteria pollution problems.[ii] The project, which will be a highly collaborative project supported by multiple funding sources, will work to complete final design and permitting; focus on outreach, stakeholder, and political support; and culminate in construction in 2024/25.

The Project supports CCMP Actions:

- Habitat Restoration Action 2
- Habitat Restoration Action 6
- Land Use Action 8
- Land Use Action 9
- Education and Stewardship Action 13
- Education and Stewardship Action 14
- Education and Stewardship Action 15

The Project Supports BIL/IIJA by:

- The Project will be undertaken in the East Fork Lewis River a tributary to the Columbia River.
- Census blocks along the north side of the project site are above the 80th percentile for unemployment, while blocks directly to the west sit well above the 90th percentile including one block that is at the 97th percentile or 20% actual rate of unemployment.
- The Project will create jobs related to construction and habitat restoration.
- The Project will help combat the climate crisis by restoring healthy habitat that multiple listed species of fish utilize and by restoring a natural floodplain that will provide increased climate resilience for human communities, as well.
- **New Or Ongoing Project:** New Project
- **Brief Description:** This is a large habitat restoration project that will restore portions of the East Fork Lewis River that shifted during flood conditions to run through several surface mines. The Project will include funding from multiple sources, BIL/IIJA funds will provide support for design, permitting, construction, community outreach and education, and partnership with members of the Cowlitz, Chinook, and other indigenous peoples with connections to the East Fork Lewis River.
- **Leads, Partners, Roles:**

    - Chris Collins and Paul Kolp, Estuary Partnership Habitat Restoration Leads, will serve as Project Managers.
    - Other potential funders and partners include Clark County, WA; WA Department of Ecology; Lower Columbia Fish Recover Board (LCFRB); WA Recreation and Conservation Office (RCO); Clark County PUD; WA Department of Fish and Wildlife; neighboring landowners; and industrial landowners.
- **Opportunities for Potential Coordination with other Key Stakeholder Groups:**
    - Cowlitz Indian Tribe
    - Chinook Nation
    - Lower Columbia Fish Recovery Board
    - Washington State Department of Ecology – Floodplains by Design
    - Washington Recreation and Conservation Office
    - Clark County Clean Water Commission
    - East Fork community groups
- **Anticipated Outputs or Deliverables:**
    - Restoration of X miles of river
    - Number of jobs created
    - Number of outreach meetings hosted
    - Number of trees planted
    - Number of participants in community environmental education opportunities
- **Estimate Milestones:**
    - July 2023 through 2024 – Complete permitting and design work
    - July 2024 through July 2026 – Construction and revegetation
- **Anticipated Long-Term Outcomes:**
    - Improved habitat conditions for fish, wildlife, and people
    - Improved water quality
    - Improved floodplain function
- **Budget:**
    - FY 24 Budget - $129,800
    - Total Budget - $777,062

Upper Gibbons Creek Watershed Projects

The Upper Gibbons Creek Watershed Consolidated Projects represent a cross functional approach to complete a series of collaborative projects including construction of stormwater infiltration infrastructure, habitat restoration, riparian planting, and other water quality improvements to increase climate resilience, restore habitat, and engage community members. As of mid-2023 this project has taken on two distinct focus areas, the first is at Washougal High School where a large Stormwater Retrofit project is being implemented and the second is at the neighboring Mable Kerr Park. Both project focus areas increase water quality in the Gibbons Creek Watershed.

The Project supports CCMP Actions:

- Land Use Action 8
- Land Use Action 9
- Water Quality and Contaminant Reduction Action 11
- Water Quality and Contaminate Reduction Action 12
- Education and Stewardship Action 13
- Education and Stewardship Action 14
- Education and Stewardship Action 15
- Regional Coordination and Synchronicity Action 16

The Project Supports BIL/IIJA by:

- The Project will create jobs related to construction and public access to the estuary.
- The Project will help improve climate resilience for the community and improve habitat for multiple listed species in Gibbons Creek.
- **New Or Ongoing Project:** New Project
- **Brief Description:** This project will see a variety of cross functional and collaborative projects including construction of stormwater infrastructure to address urban runoff, habitat restoration, riparian planting, and community education, in the upper Gibbons Creek watershed.
- **Leads, Partners, Roles:**
    - Chris Hathaway, Community Programs Director, will lead Stormwater and Community Programs work on the Project.
    - Doug Kreuzer, Restoration Ecologist, will lead the Restoration Team work on the project.
    - Wolf Water Resources will complete the engineering and design of components of the project.
    - Juncus Studio will complete landscape architecture services for the project.
    - Additional contractors and consultants will be engaged to complete other design components, permitting, surveys, engineering, and construction.
    - Partners are anticipated to include the Washougal School District, the City of Washougal, WA Department of Ecology, private landowners, and businesses in the project area.
- **Opportunities for Potential Coordination with other Key Stakeholders:**
    - Chinook Nation
    - Cowlitz Indian Tribe
    - City of Washougal
    - Washougal School District
    - Local community groups
- **Anticipated Outputs or Deliverables:**
    - Construction of stormwater facilities
    - Completion of habitat and riparian restoration
    - Number of outreach meetings hosted
    - Number of community members that attend environmental education or volunteer opportunities
- **Estimate Milestones:**
    - Currently in progress through Early 2024– Completion of engineering, design, permitting, potential early construction on stormwater components
    - July 2023 through July 2024 – construction of habitat restoration components
    - July 2024 through July 2025 – complete construction, revegetation, and riparian planting
- **Anticipated Long-Term Outcomes:**
    - Improved public access
    - Improved water quality
- **Budget:**
    - Total Budget – $459,436
    - FY 24 Washougal HS Stormwater Project Budget - $19,415
    - FY24 Mable Kerr Budget - $30,140

Clark County Urban Streams Project

The Clark County Urban Streams Project will include a variety of collaborative projects on Burnt Bridge and Salmon creeks in Clark County. The projects will include a variety of riparian planting and community engagement and education work to increase climate resilience, restore habitat, and engage community members.

The Project supports CCMP Actions:

- Land Use Action 8
- Water Quality and Contaminant Reduction Action 11
- Water Quality and Contaminate Reduction Action 12
- Education and Stewardship Action 13
- Education and Stewardship Action 14
- Education and Stewardship Action 15
- Regional Coordination and Synchronicity Action 16

The Project Supports BIL/IIJA by:

- The Project will create jobs related to construction.
- The Project will help improve climate resilience for a disadvantaged community impacted by high rates of unemployment and linguistic isolation. Portions of the area of Vancouver where the two project sites are located are above the 80th percentile for unemployment, while neighboring census tracts see unemployment over the 90th percentile (93rd and 98th percentiles). Linguistic isolation neighboring Burnt Bridge Creek is above the 80th percentile.
- **New Or Ongoing Project:** Ongoing Project
- **Brief Description:** This project combines two streams that have been ongoing sites for riparian restoration in the Vancouver Metropolitan Area. The project will expand the riparian planting and community outreach components in both creeks, and fund assessments to evaluate other potential restoration efforts.
- **Leads, Partners, Roles:**
    - Chris Hathaway, Community Programs Director, will lead Stormwater and Community Programs work on the Project.
    - Valerie Pufahl, the Environmental Education Manager will lead educational and community engagement activities on the Project.
- **Anticipated Outputs or Deliverables:**
    - Completion of habitat and riparian restoration – including number of acres restored/planted and number of trees planted
    - Number of outreach meetings hosted
    - Number of community members that attend environmental education or volunteer opportunities
- **Estimate Milestones:**
    - July 2022 through July 2027– Riparian planting, revegetation and maintenance, community engagement and education, assessment of additional activities
- **Anticipated Long-Term Outcomes:**
    - Improved public access
    - Improved water quality
    - Improved climate resilience
- **Budget:**
    - Total Budget - $270,000
    - FY24 Budget - $89,231.69

Habitat Restoration – Multiple Projects

Habitat restoration project funding in BIL will provide funds for project identification, development, design, permitting, and completion of a variety of potential habitat restoration projects throughout the lower Columbia estuary. This project area will also be used to leverage state and local funds for larger projects.

The Project supports CCMP Actions:

- Habitat Restoration Action 2
- Habitat Restoration Action 6
- Land Use Action 8
- Land Use Action 9
- Education and Stewardship Action 13
- Education and Stewardship Action 14
- Education and Stewardship Action 15

The Project Supports BIL/IIJA by:

- The Projects will be undertaken in the mainstem and in tributaries to the Columbia River.
- The Projects will create jobs related to construction and habitat restoration.
- The Projects will help combat the climate crisis by restoring healthy habitats that multiple listed species of fish utilize and by restoring a natural floodplain that will provide increased climate resilience for human communities, as well.
- **New Or Ongoing Project:** New Projects
- **Brief Description:** habitat restoration projects that will restore habitat that has been impacted by a development in the watershed. The Projects will include funding from multiple sources, BIL/IIJA funds will provide support for design, permitting, construction, community outreach and education, and partnership with members of the Cowlitz, Chinook, and other indigenous peoples.
- **Leads, Partners, Roles:**
    - Chris Collins and Paul Kolp, Estuary Partnership Habitat Restoration Leads, will serve as Project Managers.
    - Other potential funders and partners include local governments in Washington and Oregon; WA Department of Ecology; Lower Columbia Fish Recover Board (LCFRB); WA Recreation and Conservation Office (RCO); WA Department of Fish and Wildlife; communities; and industrial landowners.
- **Opportunities for Potential Coordination with other Key Stakeholder Groups:**
    - Cowlitz Indian Tribe
    - Chinook Nation
    - Lower Columbia Fish Recovery Board
    - Washington State Department of Ecology – Floodplains by Design
    - Washington Recreation and Conservation Office
    - Oregon Watershed Enhancement Board
    - Columbia regional and community groups
- **Anticipated Outputs or Deliverables:**
    - Restoration of X miles of river
    - Number of jobs created
    - Number of outreach meetings hosted
    - Number of trees planted
    - Number of participants in community environmental education opportunities
- **Estimate Milestones:**
    - July 2022 through July 2023 – Focus on outreach, stakeholder, and political support, permitting, and design
    - July 2023 through 2024 – Complete permitting and design work
    - July 2024 through July 2026 – Construction and revegetation
- **Anticipated Long-Term Outcomes:**
    - Improved habitat conditions for fish, wildlife, and people

    - Improved water quality
    - Improved floodplain function
- **Budget:**
    - Total Budget - $595,500
    - FY24 Budget - $113,430

Environmental Education

The Estuary Partnership's Environmental Education Team completes a variety of riparian planting and community engagement and education work to increase climate resilience, restore habitat, and engage community members in both Oregon and Washington. The goal of the project will be to increase Environmental Education programming in disadvantaged communities that feel disproportionate impacts from climate change.

The Project supports CCMP Actions:

- Land Use Action 8
- Water Quality and Contaminant Reduction Action 11
- Water Quality and Contaminate Reduction Action 12
- Education and Stewardship Action 13
- Education and Stewardship Action 14
- Education and Stewardship Action 15
- Regional Coordination and Synchronicity Action 16

The Project Supports BIL/IIJA by:

- The Project will help improve climate resilience for a disadvantaged community impacted by high rates of unemployment and linguistic isolation. Portions of the lower Columbia experience high rates of unemployment and underemployment, linguistic isolation, and low educational attainment.
- **New Or Ongoing Project:** Ongoing Project
- **Brief Description:** The project will expand the riparian planting, community outreach, and environmental education components in communities throughout the lower Columbia region.
- **Leads, Partners, Roles:**
    - Valerie Pufahl, Community Programs Education Team Manager, will serve as project manager on this project.
- **Anticipated Outputs or Deliverables:**
    - Number of schools and students engaged in environmental education programs.
    - Number of community members that attend environmental education or volunteer opportunities.
- **Estimate Milestones:**
    - June 2022 through July 2027– Riparian planting, revegetation and maintenance, community engagement and education, assessment of additional activities
- **Anticipated Long-Term Outcomes:**
    - Increased knowledge of local ecology and climate change
    - Improved climate resilience
- **Budget:**
    - FY24 Budget – $59,279
    - Total Budget - $218,217

FY24 Budget Narrative:

Budget breakdown by project area:

	Environmental Education	Clark County Urban Streams	Washougal HS Stormwater	Mable Kerr Gibbons Creek	Ridgefield Pits	Habitat Restoration	Inventory of Carbon Sequestration	Stormwater Green Infrastructure	Total Yr. 3
Subtotal Salary:	$42,250.00	$63,403.00	$10,000.00	$10,000.00	$75,000.00	$45,000.00	$ 75,821.48	$50,000.00	$371,474
Fringe:	$10,140.00	$15,216.72	$2,400.00	$2,400.00	$18,000.00	$10,800.00	$18,197.16	$12,500.00	$89,154
Subtotal Personnel:	$52,390.00	$78,619.72	$12,400.00	$12,400.00	$93,000.00	$55,800.00	$94,018.64	$62,500.00	$460,628
			$0.00	$0.00	$0.00	$0.00	$15,000.00		$15,000
Subtotal Equipment:			$0.00	$0.00	$0.00	$0.00	$15,000.00		$15,000
Supplies	$1,000.00		$0.00	$0.00	$0.00	$0.00			$1,000
Subtotal Supplies:	$1,000.00		$0.00	$0.00	$0.00	$0.00			$1,000
Transportation	$608.00	$500.00	$250.00	$250.00	$1,000.00	$500.00	$2,000.00	$500.00	$5,608
Subtotal Transportation:	$608.00	$500.00	$250.00	$250.00	$1,000.00	$500.00	$2,000.00	$500.00	$5,608
Contractual			$5,000.00	$14,750.00	$24,000.00	$49,000.00	$175,076.00	$98,500.00	$366,326
Subtotal Contractual:			$5,000.00	$14,750.00	$24,000.00	$49,000.00	$175,076.00	$98,500.00	$366,326
Indirect	$5,389.00	$8,111.97	$1,765.00	$2,740.00	$11,800.00	$8,130.00	$13,601.86	$ 8,900.00	$60,438
Total :	**$59,279.00**	**$ 89,231.69**	**$19,415.00**	**$30,140.00**	**$129,800.00**	**$113,430.00**	**$299,696.50**	**$171,400.00**	**$909,000**

Full Budget for FY24:

Estuary Partnership FY24 BIL Personnel:	FY24
Community Programs Director	$ 40,000
Environmental Education Manager	$ 20,000
Environmental Educator (I,II,III, or Coord)	$ 67,250
Stormwater Project Manager	$ 25,000
Community Program Principal Restoration Ecologist	$ 11,403
CP Field Technician	$ 2,000
Restoration Project Manager	$ 80,000
Restoration Ecologist (RE, PRE)	$ 38,500
Field Technician - Science	$ 11,500
Senior Scientist	$ 20,000
Research Scientist	$ 50,821
Research Technician	$ 5,000
Total Salary:	**$ 371,474**
Fringe:	$ 89,154
Total Personnel:	**$ 460,628**
Equipment:	$ 15,000
Subtotal Equipment	**$ 15,000**
Supplies:	$ 1,000
Subtotal Supplies:	**$ 1,000**
Transportation:	$ 5,608
Subtotal Transportation:	**$ 5,608**
Contractual:	
Permitting, Design, other Technical Work	
Washougal Stormwater Project	$ 5,000
Mable Kerr Project	$ 14,750
Ridgefield Pits	$ 24,000
Stormwater/Green Infrastructure	$ 98,500
Habitat Restoration	$ 49,000
Research and Monitoring	
Inventory of Carbon Sequestration	$ 175,076
Subtotal Contracts:	**$ 366,326**
Indirect	$ 60,438
Total for FY24	**$ 909,000**

Contractual:

Several project areas may potentially use contracts to complete work during this Fiscal Year. In the current budget there is a total of $290,326 for FY24. Included in that total are:

- $175,076 for the Inventory of Carbon Sequestration data analysis, is a continuation of a contract awarded during the current year.
- Several small contracts at various project sites between $5,000 and $25,000 that will be competitively awarded.

[i] https://www.census.gov/geographies/reference-maps/2020/demo/state-maps.html
[ii] https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Total-Maximum-Daily-Load-process/Directory-of-improvement-projects/East-Fork-Lewis-River