

Application for Federal Assistance SF-424

* 1. Type of Submission:

- ☒ Preapplication
☐ Application
☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received:

03/07/2018

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: Washington Department of Ecology

* b. Employer/Taxpayer Identification Number (EIN/TIN):

91-6001063

* c. Organizational DUNS:

7813478280000

d. Address:

* Street1:

PO Box 47600

Street2:

* City:

Olympia

County/Parish:

* State:

WA: Washington

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

98504-7600

e. Organizational Unit:

Department Name:

Department of Ecology

Division Name:

Office of Chehalis Basin

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

Mr.

* First Name:

Gordon

Middle Name:

* Last Name:

White

Suffix:

Title: Interim Director

Organizational Affiliation:

* Telephone Number: 360-407-6977

Fax Number: 360-407-6902

* Email: gordon.white@ecy.wa.gov

Application for Federal Assistance SF-424

* 9. Type of Applicant 1: Select Applicant Type:

A: State Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

* 10. Name of Federal Agency:

National Marine Fisheries Service, NOAA, Dept of Commerce

11. Catalog of Federal Domestic Assistance Number:

11.463

CFDA Title:

Habitat Conservation

* 12. Funding Opportunity Number:

NOAA-NMFS-HCPO-2018-2005502

* Title:

NOAA Coastal Resilience Grants Program (FY 2018)

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Early_Action_Reaches_NOAA_Application.pdf

Add Attachment

Delete Attachment

View Attachment

* 15. Descriptive Title of Applicant's Project:

Chehalis Basin Strategy, Aquatic Species Restoration Plan, Early Action Reach Demonstration Projects

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

Application for Federal Assistance SF-424**16. Congressional Districts Of:**

WA-003, WA-006, WA-010

* a. Applicant

WA-10

* b. Program/Project

3, 6, 10

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment

Delete Attachment

View Attachment

17. Proposed Project:

* a. Start Date:

07/01/2018

* b. End Date:

06/30/2020

18. Estimated Funding (\$):

* a. Federal	2,000,000.00
* b. Applicant	3,000,000.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	5,000,000.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**☐ a. This application was made available to the State under the Executive Order 12372 Process for review on☒ b. Program is subject to E.O. 12372 but has not been selected by the State for review.☐ c. Program is not covered by E.O. 12372.*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes☒ No

If "Yes", provide explanation and attach

Add Attachment

Delete Attachment

View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:

Mr.

* First Name:

Erik

Middle Name:

* Last Name:

Fairchild

Suffix:

* Title:

Chief Financial Officer

* Telephone Number:

360-407-7005

Fax Number:

360-407-7153

* Email:

federalgrants@ecy.wa.gov

* Signature of Authorized Representative:



* Date Signed:

3/5/18

Project Title: Chehalis Basin Strategy, Aquatic Species Restoration Plan, Early Action Reach Demonstration Projects

Project Location: Chehalis Basin within Grays Harbor, Lewis, and Thurston Counties, Washington

Requested NOAA Funding: \$2,000,000

Proposed Non-Federal Match: \$3,000,000

Overall Project Cost: \$5,000,000

Project Partners: Washington Departments of Fish and Wildlife and Ecology; Grays Harbor, Lewis, and Thurston County Conservation Districts, Chehalis Basin Lead Entity, Confederated Tribes of the Chehalis Reservation (Chehalis Tribe), Quinault Indian Nation. Other stakeholders will include Washington Department of Transportation, Grays Harbor, Lewis, and Thurston Counties, Chehalis Basin Land Trust, and Capitol Land Trust.

The Chehalis Basin is the second largest watershed in Washington with over 2,700 square miles encompassing six counties, the Chehalis Tribe Reservation, and the Quinault Indian Nation's federally-protected fishing areas. The basin has been subject to multiple catastrophic flood events that result from intense rainstorms, or atmospheric rivers – the five highest recorded floods have all occurred in the past 30 years (1986, 1990, 1995, 2007 and 2009). Extreme drought conditions in summer have resulted in low flows and high temperatures and have reduced water availability. As a result, aquatic habitats are seriously degraded. Climate modeling predicts that these extreme conditions will occur more frequently in the future, damaging the aquatic ecosystem and human communities – with an estimated further 50% decline in Spring Chinook population by 2080.

Solutions to the flooding issues in the basin have been studied for decades, but the Governor and Washington State Legislature have directly and substantially funded a dual-purpose focus, since catastrophic flooding in 2007, to result in a comprehensive Chehalis Basin Strategy¹ that integrates flood damage reduction and aquatic species habitat restoration to promote resilient communities and ecosystem. The resiliency goals are to avoid and reduce flood damages to the communities and restore natural floodplain, riverine, and wetland habitats that can withstand extreme conditions and recover quickly from disturbances. A key component of the strategy is the *Aquatic Species Restoration Plan* (ASRP), now ready for early action implementation projects in five tributary sub-basins: 1) South Fork Chehalis; 2) Newaukum; 3) Skookumchuck; 4) Satsop; and 5) Wynoochee (see attached map). One reach will be selected within each sub-basin for project design.

Investment in these early action reaches is well supported. A substantial body of scientific research and comprehensive modeling provides a strong foundation for expected ecosystem benefits, even when considering future climate impacts. Equally important is the powerful collaboration among the many partners and stakeholders participating in the Strategy and ASRP. Partnerships with private landowners is key to demonstrating that significant restoration can occur in a manner that also supports the needs and interest of landowners. Those relationships have been developed, and we propose to design and implement five Early Action demonstration projects that showcase a variety of restoration and protection actions coupled with measures that promote floodplain resiliency and

¹ Chehalis Basin Strategy website: <http://chehalisbasinstrategy.com/>

protects agricultural and residential landowners while improving the communities' economic viability. Lessons learned from these projects will be incorporated into other on-going state initiatives including the Washington Coastal Resiliency Project and the Floodplains by Design program.

The requested funding would be used to support the following tasks:

1. Development of conceptual plans for habitat elements and property or infrastructure protection.
2. Collaboration with landowners and the community on the results of engineering analyses, potential benefits, and trade-offs.
3. Development of draft and final project designs and bid documents.
4. Permit and regulatory approval acquisition, and agency/tribal coordination.
5. Construction contracts for project implementation.
6. Landowner and stakeholder tours of project sites and constructed features.
7. Post-construction monitoring.

Task	Timeline
Conceptual Design and Analysis	August – November 2018
Preliminary Designs	December 2018 - April 2019
Permitting	April – November 2019
Final Designs	July – December 2019
Construction Advertisements	January – March 2020
Project Construction	June – October 2020
Post-Construction Monitoring	November 2020 – November 2021

The expected outcomes and metrics to document the benefits of these projects will include:

1. Demonstrate techniques to remove, relocate, or reconfigure agricultural and residential structures and infrastructure to be protected from future flood, erosion, or debris damages. *Metrics:* number of structures removed or protected, change in rate of erosion of fields, change in sediment and debris deposition, number of landowners engaged and participating.
2. Demonstrate effectiveness of riparian plantings, floodplain reconnections, and large wood to restore natural processes including shading, food web support, large wood recruitment, channel migration, sediment deposition, groundwater recharge, and formation of in-channel and off-channel habitats. *Metrics:* number of miles made accessible to fish species, number of acres/miles of stream and floodplain treated, number of pieces of wood/mile, change in groundwater levels pre and post-construction.

Species to Benefit: Spring and Fall Chinook, Chum, and Coho Salmon and their Essential Fish Habitats, Southern Resident Orcas, Winter Steelhead and Cutthroat Trout, Pacific Lamprey, Oregon Spotted Frog, Red-legged Frog, American Beaver, and other aquatic species that contribute to the overall basin and nearshore food web.

Permits Required: USACE Section 404, Rivers and Harbors Act Section 10, Hydraulic Project Approval, Water Quality Certification, ESA compliance, Section 106 compliance, NEPA and SEPA compliance, Aquatic Land Use Authorization, Shoreline Permits, Land Use Review, Site Development/Grading.

Figure 1
Early Action Reaches

