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February 2, 2021

### MEMORANDUM

**TO:** Council Members

**FROM:** Council staff

**SUBJECT:** Update on Anadromous Fish Habitat and Hatchery Review

#### **BACKGROUND:**

**Presenter:** Mark Fritsch, Leslie Bach, Maureen Hess and Erik Merrill

**Summary:** The Anadromous Fish Habitat and Hatchery Project Review process will begin in early February. Staff will provide a brief status report on the review process, schedule, and efforts to refine project objectives and deliverables for the 134 projects.

**Relevance:** Section 4h(10)(D) of the Northwest Power Act directs the Council to review projects proposed for funding by Bonneville to implement the Council's Fish and Wildlife Program. The Council engages in this review process with the assistance of the Independent Scientific Review Panel (ISRP). The Council and Bonneville work together to develop the information necessary to make the review process successful.

**Workplan:** Fish and Wildlife Division: Program Implementation (2014 Program and 2020 addendum); Project review.

**Background:** The [Anadromous Fish Habitat and Hatchery Project Review](#) is the last category of this review cycle. Staff anticipates that there will be approximately 134 projects in this review. These projects include hatchery operation and maintenance (O&M), fish screen O&M, habitat restoration and the monitoring and evaluation activities associated with these project types.

On February 2<sup>nd</sup> the Council sent a review guidance letter and proposal form template to the project sponsors to initiate the review. This reflects a culmination of work by Council and Bonneville staffs to confirm the list of projects in this category and to update the proposal form template to capture key aspects related to this specific set of projects and to further refine requested information to get a better understanding of methods used by the sponsors to achieve their objectives.

This review is limited to projects that are currently being funded under the Program (i.e., ongoing projects). The general guidance for this review is to use Fiscal Year 2021 project budget as the sideboards for the work proposed. This aligns to Bonneville's Strategic Plan. Bonneville's statements have indicated that they intend to manage Fish and Wildlife Program costs at or below the rate of inflation, inclusive of any new obligations. However, sponsors of ongoing projects may wish to describe new work elements, phases, or objectives for their projects based on adaptive management or new priorities, considering budget constraints.

This is the largest group of projects (134) in the current review cycle (please see Attachment 1); therefore, additional time was added to several steps of the review process to assist the project sponsors and the Independent Scientific Review Panel.

Following is the review schedule that reflects a rescheduled start date and the allowance of additional time in key steps. You will note that the overall time frame has increased from the "standard" nine months to 14 months.

**Schedule\***

<b>Anadromous Fish Habitat and Hatchery Review Steps</b>	<b>Date</b>
Review Process Start Date	February 2, 2021
Review Materials Due	May 3, 2021
Project Sponsor Presentations	Sequenced over several weeks in June and July 2021
ISRP Preliminary Report	September 23, 2021
Public Comment begins	September 24, 2021
Responses Due	November 22, 2021
Final Report	February 10, 2022
ISRP Presentation to Council	February 2022
Public Comment ends	February 21, 2022
Committee Recommendations	March 2022
Council Recommendations	April 2022

*\* Dates for Committee and Council recommendations may change, but sponsors will be notified if that happens.*

## Attachment 1: Anadromous Fish Habitat and Hatchery Project Review List.

	Project #	Project Title	Sponsor
1	1983-350-00	Nez Perce Tribal Hatchery Operations and Maintenance (O&M)	Nez Perce Tribe
2	1983-350-03	Nez Perce Tribal Hatchery Monitoring and Evaluation (M&E)	Nez Perce Tribe
3	1983-435-00	Umatilla Hatchery Satellite Facilities Operations and Maintenance (O&M)	Umatilla Confederated Tribes (CTUIR)
4	1983-436-00	Umatilla Passage Operations and Maintenance (O&M)	Westland Irrigation District
5	1984-021-00	John Day Habitat Enhancement	Oregon Department of Fish and Wildlife
6	1984-025-00	Grande Ronde Fish Habitat Improvement	Oregon Department of Fish and Wildlife
7	1987-100-01	Umatilla Anadromous Fish Habitat-Umatilla Tribe	Umatilla Confederated Tribes (CTUIR)
8	1988-022-00	Umatilla Fish Passage Operations	Umatilla Confederated Tribes (CTUIR)
9	1988-053-03	Hood River Production Monitoring and Evaluation (M&E)-Warm Springs	Confederated Tribes of Warm Springs
10	1988-053-04	Hood River Production Monitor and Evaluation (M&E)-Oregon Department of Fish and Wildlife (ODFW)	Oregon Department of Fish and Wildlife
11	1988-053-07	Hood River Production Operations and Maintenance (O&M)-Warm Springs	Confederated Tribes of Warm Springs
12	1988-053-08	Hood River Production Operations and Maintenance (O&M) and Powerdale	Oregon Department of Fish and Wildlife
13	1988-053-15	Hood River Artificial Production-Parkdale	Confederated Tribes of Warm Springs, Oregon Department of Fish and Wildlife
14	1988-120-25	Yakima River Management & Data - Yakima/Klickitat Fisheries Project (YKFP)	Yakama Confederated Tribes
15	1988-120-35	Klickitat River Management, Data and Habitat-Yakima/Klickitat Fisheries Project (YKFP)	Yakama Confederated Tribes
16	1989-024-01	Evaluate Umatilla Juvenile Salmonid Outmigration	Oregon Department of Fish and Wildlife
17	1989-035-00	Umatilla Hatchery Operations and Maintenance (O&M)	Oregon Department of Fish and Wildlife
18	1990-005-00	Umatilla Hatchery Monitoring and Evaluation (M&E)	Oregon Department of Fish and Wildlife
19	1990-005-01	Umatilla Basin Natural Production Monitoring and Evaluation (M&E)	Umatilla Confederated Tribes (CTUIR)
20	1990-055-00	Idaho Steelhead Monitoring and Evaluation (M&E) Studies	Idaho Department of Fish and Game (IDFG)
21	1991-028-00	Pit Tagging Wild Chinook	National Oceanic and Atmospheric Administration
22	1992-009-00	Yakima Phase II Fish Screens Operations and Maintenance (O&M) with Washington Department of Fish and Wildlife (WDFW)	Washington Department of Fish and Wildlife (WDFW)
23	1992-026-01	Grande Ronde Model Watershed	Grande Ronde Model Watershed Foundation

24	1992-026-04	Grande Ronde Salmonid Life Cycle Monitoring Project	Oregon Department of Fish and Wildlife
25	1992-062-00	Lower Yakima Valley Riparian Wetlands Restoration	Yakama Confederated Tribes
26	1993-060-00	Select Area Fisheries Enhancement	Clatsop County Fisheries, Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife (WDFW)
27	1993-066-00	Oregon Fish Screens Project	Oregon Department of Fish and Wildlife
28	1994-015-00	Idaho Fish Screening Improvement	Idaho Department of Fish and Game (IDFG)
29	1994-018-05	Asotin Creek Enhancement and Restoration	Asotin County Conservation District
30	1994-018-06	Tucannon Stream and Riparian Restoration	Columbia Conservation District (SWCD)
31	1994-042-00	Trout Creek Operations and Maintenance (O&M)	Oregon Department of Fish and Wildlife
32	1994-050-00	Salmon River Habitat Enhancement	Shoshone-Bannock Tribes
33	1995-063-25	Yakima River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Yakama Confederated Tribes
34	1995-063-35	Klickitat River Monitoring and Evaluation-Yakima/Klickitat Fisheries Project (YKFP)	Yakama Confederated Tribes
35	1995-064-25	Policy, Plan and Technical Support of Washington Department of Fish and Wildlife (WDFW)-Yakima/Klickitat Fisheries Project (YKFP)	Washington Department of Fish and Wildlife (WDFW)
36	1996-035-01	Yakama Reservation Watershed Project	Yakama Confederated Tribes
37	1996-040-00	Mid-Columbia Reintroduction Feasibility Study	Yakama Confederated Tribes
38	1996-042-00	Restore Salmon Creek Anadromous Fish	Colville Confederated Tribes
39	1996-043-00	Johnson Creek Artificial Propagation Enhancement	Nez Perce Tribe
40	1996-046-01	Walla Walla River Basin Fish Habitat Enhancement	Umatilla Confederated Tribes (CTUIR)
41	1996-077-02	Lolo/Selway River Watershed Restoration	Nez Perce Tribe
42	1996-083-00	Grand Ronde Watershed Restoration	Umatilla Confederated Tribes (CTUIR)
43	1996-086-00	Clearwater Focus Program	Idaho Governor's Office of Species Conservation
44	1997-013-25	Yakima River Operations and Maintenance (O&M) for Hatcheries and Acclimation Sites-Yakima/Klickitat Fisheries Project (YKFP)	Yakama Confederated Tribes
45	1997-013-35	Klickitat River Operations and Maintenance (O&M) for Hatcheries and Acclimation Sites-Yakima/Klickitat Fisheries Project (YKFP)	Yakama Confederated Tribes
46	1997-015-01	Imnaha River Steelhead Status and Smolt Monitoring	Nez Perce Tribe
47	1997-051-00	Yakima Basin Side Channels Land Acquisition	Yakama Confederated Tribes
48	1997-056-00	Klickitat Watershed Enhancement	Yakama Confederated Tribes
49	1997-060-00	Clearwater Focus Watershed Restoration Coordination	Nez Perce Tribe

50	1998-007-02	Grande Ronde Supplementation Operations and Maintenance (O&M) and Monitoring and Evaluation (M&E) on Lostine River	Nez Perce Tribe
51	1998-007-03	Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River	Umatilla Confederated Tribes (CTUIR)
52	1998-016-00	Escapement and Productivity of Spring Chinook and Steelhead	Oregon Department of Fish and Wildlife
53	1998-019-00	Wind River Watershed	Underwood Conservation District (UCD), US Forest Service (USFS), US Geological Survey (USGS), Washington Department of Fish and Wildlife (WDFW)
54	1998-021-00	Hood River Fish Habitat	Confederated Tribes of Warm Springs
55	1998-028-00	Trout Creek Watershed Restoration	Jefferson County Soil and Water Conservation District (SWCD)
56	1999-017-00	Protect and Restore Lapwai Creek Watershed	Nez Perce Tribe
57	2000-015-00	Upper John Day Conservation Lands Program	Confederated Tribes of Warm Springs
58	2000-031-00	Enhance Habitat in the North Fork John Day River	Umatilla Confederated Tribes (CTUIR)
59	2000-038-02	Walla Walla River Hatchery Operations and Maintenance (O&M)	Umatilla Confederated Tribes (CTUIR)
60	2000-039-00	Walla Walla River Basin Monitoring and Evaluation (M&E)	Umatilla Confederated Tribes (CTUIR)
61	2001-021-00	15 Mile Creek Riparian Buffers	Wasco County Soil and Water Conservation District (SWCD)
62	2002-034-00	Riparian Buffers in Wheeler County	Wheeler County Soil and Water Conservation District (SWCD)
63	2002-035-00	Riparian Buffers in Gilliam County	Gilliam County Soil and Water Conservation District (SWCD)
64	2002-053-00	Asotin Creek Salmon Population Assessment	Washington Department of Fish and Wildlife (WDFW)
65	2002-059-00	Yankee Fork Salmon River Restoration	Shoshone-Bannock Tribes
66	2002-060-00	Nez Perce Harvest Monitoring on Snake and Clearwater Rivers	Nez Perce Tribe
67	2002-061-00	Potlatch River Watershed Restoration	Latah Soil and Water Conservation District (SWCD)
68	2002-068-00	Evaluate Stream Habitat- Nez Perce Tribe Watershed Monitoring and Evaluation (M&E) Plan	Nez Perce Tribe
69	2002-070-00	Lapwai Creek Anadromous Habitat	Nez Perce Soil and Water Conservation District (SWCD)
70	2002-072-00	Red River/Newsome Creek Watershed Restoration	Nez Perce Tribe
71	2003-007-00	Lower Columbia River Estuary Ecosystem Monitoring	Lower Columbia Estuary Partnership
72	2003-011-00	Columbia River Estuary Habitat Restoration	Lower Columbia Estuary Partnership
73	2003-022-00	Okanogan Basin Monitoring & Evaluation Program (OBMEP)	Colville Confederated Tribes
74	2003-023-00	Chief Joseph Hatchery Program	Colville Confederated Tribes

75	2003-039-00	Monitor and Evaluate (M&E) Reproductive Success and Survival in Wenatchee River	National Oceanic and Atmospheric Administration, Washington Department of Fish and Wildlife (WDFW)
76	2007-083-00	Grande Ronde Supplementation Monitoring and Evaluation (M&E) on Catherine Creek/Upper Grande Ronde River	Umatilla Confederated Tribes (CTUIR)
77	2007-127-00	East Fork of South Fork Salmon River Passage Restoration	Nez Perce Tribe
78	2007-156-00	Rock Creek Fish and Habitat Assessment	Yakama Confederated Tribes
79	2007-217-00	Walla Walla River Passage Operations and Maintenance (O&M)	Gardena Farms Irrigation District #13
80	2007-224-00	Okanogan Subbasin Habitat Program (OSHIP)	Colville Confederated Tribes
81	2007-268-00	Idaho Watershed Habitat Restoration-Custer District	Custer Soil and Water Conservation District (SWCD)
82	2007-393-00	Protect and Restore Northeast Oregon	Nez Perce Tribe
83	2007-394-00	Upper Salmon Basin Habitat Restoration	Idaho Governor's Office of Species Conservation
84	2007-395-00	Protect and Restore Lochsa Watershed	Nez Perce Tribe
85	2007-396-00	Walla Walla Basinwide Tributary Passage and Flow	Walla Walla Basin Watershed Council
86	2007-397-00	John Day Watershed Restoration	Confederated Tribes of Warm Springs
87	2007-398-00	Yakima Basinwide Tributary Passage and Flow	Washington Resource Conservation and Development
88	2007-399-00	Upper Salmon Screen Tributary Passage	Idaho Department of Fish and Game (IDFG)
89	2007-401-00	Kelt Reconditioning and Reproductive Success Evaluation Research	Columbia River Inter-Tribal Fish Commission (CRITFC)
90	2007-402-00	Snake River Sockeye Captive Propagation	Idaho Department of Fish and Game (IDFG)
91	2008-102-00	Okanogan Habitat Acquisition and Restoration	Colville Confederated Tribes
92	2008-104-00	Land & Water Acquisition	Colville Confederated Tribes
93	2008-202-00	Protect and Restore Tucannon Watershed	Umatilla Confederated Tribes (CTUIR)
94	2008-203-00	Assess Reintroduction of Steelhead in Butte, McKay & Willow Creeks	Umatilla Confederated Tribes (CTUIR)
95	2008-206-00	Instream Flow Restoration	Umatilla Confederated Tribes (CTUIR)
96	2008-207-00	Umatilla Tribe Ceded Area Stream Corridor Conservation & Protection	Umatilla Confederated Tribes (CTUIR)
97	2008-301-00	Habitat Restoration Planning/Design/ within boundaries of Warm Springs Reservation, lower Deschutes River, Oregon	Confederated Tribes of Warm Springs
98	2008-306-00	Deschutes River Fall Chinook Research and Monitoring	Confederated Tribes of Warm Springs
99	2008-307-00	Deschutes River Sockeye Development	Confederated Tribes of Warm Springs
100	2008-311-00	Natural Production Management and Monitoring	Confederated Tribes of Warm Springs
101	2008-458-00	Steelhead Kelt Reconditioning	Yakama Confederated Tribes
102	2008-503-00	Studies into Factors Limiting the Abundance of Okanogan and Wenatchee Sockeye Salmon	Columbia River Inter-Tribal Fish Commission (CRITFC)

103	2008-603-00	Pahsimeroi River Habitat	Idaho Governor's Office of Species Conservation
104	2008-604-00	Lower Clearwater and Potlatch Watersheds Habitat Improvements	Idaho Governor's Office of Species Conservation
105	2008-608-00	Idaho MOA/Fish Accord Water Transactions	Idaho Department of Water Resources (IDWR), Idaho Governor's Office of Species Conservation
106	2008-904-00	Salmon River Basin Nutrient Enhancement	Shoshone-Bannock Tribes
107	2008-905-00	Supplementation Projects	Shoshone-Bannock Tribes
108	2008-906-00	Crystal Springs Planning and Operations/Maintenance	Shoshone-Bannock Tribes
109	2008-907-00	Genetic Assessment of Columbia River Stocks	Columbia River Inter-Tribal Fish Commission (CRITFC)
110	2009-001-00	Upper Columbia Spring Chinook and Steelhead Acclimation	Yakama Confederated Tribes
111	2009-002-00	Status and Trend Annual Reporting	Yakama Confederated Tribes
112	2009-003-00	Upper Columbia Habitat Restoration	Yakama Confederated Tribes
113	2009-004-00	Monitoring Recovery Trends in Key Spring Chinook Habitat Variables and Validation of Population Viability Indicators	Columbia River Inter-Tribal Fish Commission (CRITFC)
114	2009-009-00	Basinwide Supplementation Evaluation	Columbia River Inter-Tribal Fish Commission (CRITFC)
115	2009-012-00	Willamette Bi-Op Habitat Restoration	Oregon Watershed Enhancement Board
116	2009-014-00	Biomonitoring of Fish Habitat Enhancement	Umatilla Confederated Tribes (CTUIR)
117	2009-026-00	Walla Walla Juvenile and Adult Passage Improvements	Umatilla Confederated Tribes (CTUIR)
118	2010-001-00	Upper Columbia Programmatic Habitat	Upper Columbia Salmon Recovery Board
119	2010-003-00	Lower South Fork Clearwater/Slate Creek Watershed Restoration	Nez Perce Tribe
120	2010-004-00	CREST Estuary Habitat Restoration	Columbia River Estuary Study Taskforce (CREST)
121	2010-026-00	Chinook and Steelhead Genotyping for Genetic Stock Identification (GSI) at Lower Granite Dam	Idaho Department of Fish and Game (IDFG)
122	2010-028-00	Estimate Adult Steelhead Abundance in Small Streams Associated with Tucannon & Asotin Populations	Washington Department of Fish and Wildlife (WDFW)
123	2010-030-00	Project to provide VSP Estimates for Yakima Steelhead MPG	Yakama Confederated Tribes
124	2010-031-00	Snake River Chinook and Steelhead Parental Based Tagging	Idaho Department of Fish and Game (IDFG)
125	2010-033-00	Study Reproductive Success of Hatchery and Natural Origin Steelhead in the Methow	Washington Department of Fish and Wildlife (WDFW)
126	2010-034-00	Upper Columbia Spring Chinook and Steelhead Juvenile and Adult Abundance, Productivity and Spatial Structure Monitoring	Washington Department of Fish and Wildlife (WDFW)
127	2010-050-00	Evaluation of the Tucannon endemic stock	Washington Department of Fish and Wildlife (WDFW)



128	2010-057-00	Snake Basin Steelhead Assessments	Idaho Department of Fish and Game (IDFG), Nez Perce Tribe
129	2010-070-00	WA Estuary MOA Project Scoping &	WDFW
130	2010-072-00	Lemhi River Restoration	Idaho Governor's Office of Species Conservation
131	2010-073-00	Columbia Land Trust Estuarine Restoration	Columbia Land Trust
132	2010-077-00	Tucannon River Programmatic Habitat Project	Snake River Salmon Recovery Board
133	2010-086-00	Protect and Restore the Crooked and American River Watersheds	Nez Perce Tribe
134	2012-015-00	Cowlitz Indian Tribe Estuary Restoration Program	Cowlitz Indian Tribe