

**2023 AQUATIC SETTLEMENT AGREEMENT AND WORKGROUP ACTION PLAN
APPROVED MARCH 8, 2023**

A) Annual Report and Webpage

1. Distribute 2022 Aquatic Settlement Agreement (SA) Annual Report to Aquatic SWG, BIA and NMFS **March, 2023**
2. Final Annual Report approved by Aquatic SWG and NMFS **May 2023**
3. Annual Report filed with FERC **May 31, 2023**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2023**
5. Maintain/Update public website **Throughout 2023**

B) White Sturgeon MP

1. Continue rearing BY2022 juvenile sturgeon **January-June 2023**
2. BY2022 Juvenile sturgeon tagging/marking and SAP screening **February 2023**
3. Incorporate 2022 White Sturgeon MP activities into Aquatic SA Annual Report to the FERC **May 2023**
4. 2022 Reproductive Assessment Report **February 2023**
5. Release n ~ 325 (≥ 200 g) juvenile sturgeon (BY2022) with Educational Outreach **May/June 2023**
6. Evaluation of Adult Passage Measures **June 2023**
7. Phase II larvae collection for BY2023 **June-July 2023**
8. Rearing of BY2023 juvenile sturgeon for 2024 release **June-December 2023**
9. Technical participation in regional forums **Throughout 2023**

C) Bull Trout MP

1. Enumerate bull trout in Wells Dam count windows **Throughout 2023**
2. Monitor (via counts) for sub-adults at Wells Dam (>10 /year triggers additional measures) **Throughout 2023**
3. ESA bull trout Incidental Take Report to the FWS for review and approval **April 2023**
4. Incorporate 2022 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to the FERC **May 2023**
5. Continue Bull Trout Movement and Life History Investigation, Tag n = 60, >450 mm FL Bull Trout at Wells Dam and the Twisp Weir **January-April 2023**
6. Track study fish throughout study range **Continue tracking from fall 2022-fall 2023**
7. Provide annual update to Aquatic SWG on PIT tag detection histories for 2022/2023 tagged adults **Ongoing**
8. Bull trout Movement and Life History Investigation draft report **December 2023**
9. Bull trout salvage during ladder maintenance **January 2023/December 2023**
10. Recovery planning participation/regional coordination **Throughout 2023**

D) Water Quality MP

1. 2022 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **January 2023**
2. 2022 Gas Abatement Plan Report approval **February 2023**
3. 2022 Gas Abatement Plan Report filed with the FERC **February 2023**
4. Update the QAPP at the request of the Aquatic SWG **Throughout 2023**
5. 2023 Gas Abatement Plan and Bypass Operating Plan Draft for review **January 2023**
6. 2023 Gas Abatement Plan approval **February 2023**
7. 2023 Gas Abatement Plan filed with the FERC for approval **February 2023**
8. Draft 10-year Water Quality Attainment Plan Report **June 2023**
9. Biological monitoring of resident and salmonid fishes for Gas Bubble Trauma **April-August 2023**
10. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2023**
11. Real-time temperature monitoring at n = 6 locations (hourly with web-accessibility) **Throughout 2023**
12. 2022 Water Temperature Report to Aquatic SWG and HCP CC for comments **March 2023**
13. 2022 Water Temperature Report approval **May 2023**
14. 2022 Water Temperature Report to the FERC **May 2023**
15. Water Quality Attainment Plan (WQAP) implementation **Throughout 2023**
16. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **Throughout 2023**
17. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2023**
18. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to the FERC **May 2023**
19. Participate in the implementation of final EPA issued water temperature TMDL **Throughout 2023**

E) Pacific Lamprey MP

1. Continued implementation of Adult Approach and Passage Study **January – July 2023**
2. Draft Adult Approach and Passage Report to Aquatic SWG **September – November 2023**
3. Update PIT Tag Detection “last seen table” History tables **December 2023**
4. Juvenile lamprey PIT tagging and migration monitoring Methow River at Carlton RST and annual update of PIT tag detection histories to Aquatic SWG **March-August 2023**
5. Ladder salvage during winter maintenance **January 2023 and December 2023**
6. Regional participation in forums and technical information sharing **Throughout 2023**
7. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to the FERC **May 2023**
8. Update lamprey literature review document libraries **November 2023**

F) Aquatic Nuisance Species MP

1. Apply ANS Best Management Practices for all in-water construction work **Throughout 2023**
2. Verify condition of ANS signs at boat launches and add Northern Pike signage **Throughout 2023**
3. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2023**
4. Zebra mussel monitoring with substrate mats and plankton tows **June-October 2023**
5. Crayfish incidental captures database management **Throughout 2023**
6. Crayfish monitoring **October 2023**
7. Northern Pike monitoring – eDNA and ASWG approved suppression **March-October 2023**
8. Update, as needed, the Northern Pike Rapid Respose and Erradication Plan **Throughout 2023**
9. Cyanobacteria monitoring and if needed public health advisories **Thougout 2023**
10. Regional coordination e.g. Northwest Regional Northern Pike Coordination Forum **Throughout 2023**
11. Incorporate 2022 ANSMP activities into Aquatic SA Annual Report to the FERC **May 2023**

G) Resident Fish MP

1. 2022 Pikeminnow Report to Aquatic SWG and HCP CC for review **January 2023**
2. 2021 Pikeminnow Report incorporated into Aquatic SA Annual Report to the FERC **May 2023**
3. Resident Fish Electrofishing monitoring **April-August 2023**
4. 2023 Pikeminnow control activities **March-November 2023**
5. Regional coordination including Yakama Nation/CRITFC if lamprey found in stomach analysis or other monitoring **Throughout 2023**
6. Incorporate Resident Fish MP activities into Aquatic SA Annual Report to the FERC **May 2023**
7. Draft 2024 Resident Fish Assemblege Study Plan to Aquatic SWG for review **December 2023**