

2014 AQUATIC SETTLEMENT AGREEMENT AND WORKGROUP ACTION PLAN

A) Annual Report and Webpage

1. Distribute Aquatic Settlement Agreement Annual Report to ASWG, BIA and NMFS **March 30, 2014**
2. Final Annual Report approved by ASWG and NMFS **April 30, 2014**
3. Annual Report filed with FERC **May 28, 2014**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2014**
5. Maintain/Update public website **Throughout 2014**

B) White Sturgeon MP

1. Continue rearing juvenile sturgeon **Throughout 2014**
2. Develop sturgeon stocking plan **Dec 2013/Jan 2014**
3. Juvenile sturgeon tagging/marking **Feb-March 2014**
4. Release juvenile sturgeon with public participation **March-June 2014**
5. Larvae and brood collection for 2015 release **Jun-Aug 2014**
6. Rearing of juvenile sturgeon for 2015 release **Jun-Dec 2014**
7. Monitoring and Evaluation Program Contract Development **July 2014**
8. Technical participation in regional forums **Throughout 2014**
9. Incorporate White Sturgeon MP activities into Aquatic SA Annual Report to FERC **Mar 2014**

C) Bull Trout MP

1. Stranding surveys as necessary (only implemented at reservoir elevations below 773' MSL; Up to five) **Throughout 2014**
2. PIT tag bull trout captured during HCP broodstock actions at Wells Dam **Throughout 2014**
3. Enumerate bull trout in Wells Dam count windows **Year-round 2014**
4. Monitor (via counts) for sub-adults at Wells Dam (>10/year triggers additional measures) **Throughout 2014**
5. ESA bull trout incidental take report to the FWS for review and approval **February 2014**
6. ESA bull trout incidental take report to the FERC **May 27, 2014**
7. PIT tag and enumerate bull trout captured at the Twisp Weir. **May-Aug 2014**
8. Bull trout salvage during ladder maintenance **Jan/Dec 2014**
9. Recovery planning participation/regional coordination **Throughout 2014**
10. Incorporate 2014 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to FERC **Mar 2014**

D) Water Quality MP

1. 2013 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **Jan 12 2014**
2. 2013 Gas Abatement Plan Report approval **Feb 12 2014**
3. 2013 Gas Abatement Plan Report filed with FERC **Feb 28 2014**

4. Update the QAPP at the request of the ASWG **throughout 2014**.

5. 2014 Gas Abatement Plan approval **Feb 12 2014**
6. 2014 Gas Abatement Plan filed with FERC for approval **Feb 28 2014**
7. 2014 Bypass/spill Operation Plan to HCP CC and ASWG for comment **Dec 17 2013**
8. 2014 Bypass/spill Operations Plan approval **Feb 12 2014**
9. 2014 Bypass/spill Operations Plan to FERC for approval **Feb 28 2014**
10. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2014**

11. Real-time temperature monitoring (hourly with web-accessibility) **Throughout 2014**
12. HPA and JARPA inspection with WDFW and USACE **March 2014**
13. 2013 Water Temperature Report to ASWG and HCP CC for comments **Feb 28 2014**
14. 2013 Water Temperature Report approval **March 28 2014**
15. 2013 Water Temperature Report to FERC for approval **April 30 2014**

16. Water Quality Attainment Plan (WQAP) implementation **Throughout 2014**

17. Develop a Reasonable and Feasible Measures Plan for WQAP implementation **August 2014**

18. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **June 2014**

19. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2014**

20. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to FERC **Mar 2014**

E) Pacific Lamprey MP

1. Passage and Enumeration Study draft Report **Feb 2014**
2. Passage and Enumeration Study Report to ASWG and NMFS for approval **Mar 2014**
3. Passage and Enumeration Study Report to FERC **Mar 2014**
4. Determine if future actions/studies are needed in 2014-2015 **May 2014**
5. Pending results: Fish ladder lamprey operations (reduced head differential) **Aug-Nov 2014**
6. Upstream passage literature review **TBD** as needed within 6 months of ASWG request
7. Fishway inspection **Jan 2014 and Dec 2014**

8. Carpenter Island boat launch construction salvage and monitoring **As needed 2014**
9. Ladder salvage during winter maintenance **Jan/Dec 2014**
10. Regional participation in forums and technical information sharing **Throughout 2014**
11. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to FERC **Mar 2014**

F) Aquatic Nuisance Species MP

1. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2014**
2. Zebra mussel monitoring with substrate mats and plankton tows **Apr-Oct 2014**
3. Crayfish incidental captures database management **Throughout 2014**
4. Crayfish monitoring **Aug-Sep 2014**
5. Milfoil monitoring adjacent to recreation sites **Summer 2014**
6. Regional coordination **Throughout 2014**
7. Incorporate ANS MP activities into Aquatic SA annual Report to FERC **Mar 2014**

G) Resident Fish MP

1. Resident Fish Abundance Study Plan development (year two study) **Jan 2014**
2. Resident Fish Abundance Study Plan approval by ASWG **Feb 2014**
3. 2013 Pikeminnow Report to ASWG and HCP CC for review **Feb 2014**
4. 2013 Pikeminnow Report incorporated into Aquatic SA Annual Report to FERC **Mar 2014**
5. 2014 Pikeminnow control activities **Mar – Nov 2014**
6. Resident Fish Abundance Study **Throughout 2014**
7. Draft Resident Fish Abundance Study Report to ASWG **Dec 2014**
8. Regional coordination **Throughout 2014**
9. Incorporate Resident Fish MP Activities into Aquatic SA Annual Report to FERC **Mar 2014**