

# **2019 AQUATIC SETTLEMENT AGREEMENT AND WORKGROUP ACTION PLAN**

**FINAL APPROVED MARCH 13, 2019**

## **A) Annual Report and Webpage**

1. Distribute 2018 Aquatic Settlement Agreement Annual Report to Aquatic SWG, BIA and NMFS **March 15, 2019**
2. Final Annual Report approved by Aquatic SWG and NMFS **April 30, 2019**
3. Annual Report filed with FERC **May 28, 2019**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2019**
5. Maintain/Update public website **Throughout 2019**

## **B) White Sturgeon MP**

1. Continue rearing BY2018 juvenile sturgeon **Jan-June 2019**
2. Draft 2018 Adult Indexing and Monitoring and Evaluation Report **March 2019**
3. Approval of 2018 Adult Indexing and Monitoring and Evaluation Report **April 2019**
4. BY2018 Juvenile sturgeon tagging/marking **May 2019**
5. Release n ~ 100 ( $\geq 200$  g) juvenile sturgeon (BY2018) with public participation **June 2019**
6. Phase II larvae collection for BY2019 **June-July 2019**
7. Rearing of BY2019 juvenile sturgeon for 2020 release **June-December 2019**
8. Juvenile & Adult indexing/monitoring **June-September 2019**
9. Technical participation in regional forums **Throughout 2019**
10. Incorporate White Sturgeon MP activities into Aquatic SA Annual Report to FERC **March 2019**

## **C) Bull Trout MP**

1. SOA: Stranding surveys at reservoir elevations below 773' MSL; Up to five **May 2019**
2. Enumerate bull trout in Wells Dam count windows **Throughout 2019**
3. Monitor (via counts) for sub-adults at Wells Dam ( $>10$ /year triggers additional measures) **Throughout 2019**
4. ESA bull trout Incidental Take Report to the FWS for review and approval **April 2019**
5. ESA bull trout Incidental Take Report to the FERC **May 2019**
6. Bull trout salvage during ladder maintenance **January 2019/December 2019**
7. Recovery planning participation/regional coordination **Throughout 2019**
8. Incorporate 2018 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to FERC **May 2019**

## **D) Water Quality MP**

1. 2018 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **January 2019**
2. 2018 Gas Abatement Plan Report approval **February 2019**
3. 2018 Gas Abatement Plan Report filed with FERC **February 2019**
4. Update the QAPP at the request of the Aquatic SWG **Throughout 2019**
5. 2019 Gas Abatement Plan and Bypass Operating Plan Draft for review **January 2019**
6. 2019 Gas Abatement Plan approval **February 2019**
7. 2019 Gas Abatement Plan filed with FERC for approval **February 2019**
8. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2019**
9. Real-time temperature monitoring (hourly with web-accessibility) **Throughout 2019**
10. 2018 Water Temperature Report to Aquatic SWG and HCP CC for comments **March 2019**
11. 2018 Water Temperature Report approval **May 2019**
12. 2018 Water Temperature Report to FERC **May 2019**
13. Permit and Install forebay elevation sensors towards minimizing involuntary spill **April 2019**
14. Water Quality Attainment Plan (WQAP) implementation **Throughout 2019**
15. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **Throughout 2019**
16. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2019**
17. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to FERC **March 2019**
18. Scope, track and develop as necessary NPDES permitting for the Well Project **Throughout 2019**
  - a. Ecology site inspection during permit review process **February 2019**
  - b. Install monitoring equipment on point source discharges **March 2019**
  - c. Collect baseline samples from point source discharges **February 2019**
  - d. Submit samples for baseline analysis **February 2019**
  - e. Install realtime monitoring equipment, where applicable **March 2019**
  - f. Collect monthly samples where automatic realtime monitors cannot be installed **March 2019**
  - g. Submit final NPDES forms 1, 2 and 2C Supplement forms to Ecology **March 2019**
  - h. Ecology issues NPDES Permit **April 2019**
  - i. Finalize and submit for approval a comprehensive QAPP and BMP to support NPDES permit **May 2019**
  - j. Implement real-time, monthly and quarterly sampling **April 2019**
  - k. NPDES Report to WDOE and Aquatic SWG for review/approval **January 2020**
19. Participate in the development of EPA driven water temperature TMDL **Throughout 2019**

#### **E) Pacific Lamprey MP**

1. Fishway inspection: identify diffuser grating gaps, fix gaps 1" or greater **January-March 2019**
2. Lamprey translocation **July-September 2019.**
3. Develop PIT Tag Detection History technical memo **September 2019.**
4. Draft juvenile lamprey passage and survival literature review to Aquatic SWG for review **March 2019**
5. Draft adult lamprey passage literature review to Aquatic SWG for review **March 2019**
6. Ladder salvage during winter maintenance **January/February 2019 and December 2019**
7. Regional participation in forums and technical information sharing **Throughout 2019**
8. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to FERC **March 2019**

#### **F) Aquatic Nuisance Species MP**

1. Apply ANS Best Management Practices for all in-water construction work **Throughout 2019**
2. Verify condition of ANS signs at boat launches and add Northern Pike signage **Throughout 2019.**
3. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2019**
4. Zebra mussel monitoring with substrate mats and plankton tows **April-October 2019**
5. Crayfish incidental captures database management **Throughout 2019**
6. Crayfish monitoring **June 2019**
7. Milfoil monitoring adjacent to recreation sites **Summer 2019**
8. Final Northern Pike Rapid Response and Suppression Plan approved by Aquatic SWG **April 2019**
9. Northern Pike monitoring – eDNA and ASWG approved suppression **March-October 2019**
10. Cyanobacteria monitoring and if needed public health advisories **Throughout 2019**
11. Regional coordination **Throughout 2019**
12. Incorporate ANS MP activities into Aquatic SA annual Report to FERC **March 2019**

#### **G) Resident Fish MP**

1. 2018 Pikeminnow Report to Aquatic SWG and HCP CC for review **April 2019**
2. 2018 Pikeminnow Report incorporated into Aquatic SA Annual Report to FERC **April 2019**
3. 2018 Pikeminnow control activities **March-November 2019**
4. Regional coordination **Throughout 2019**
5. Incorporate Resident Fish MP activities into Aquatic SA Annual Report to FERC **March 2019**