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August 4, 2015

MEMORANDUM

TO: Fish and Wildlife Committee members

FROM: Mark Fritsch, Project Implementation Manager

SUBJECT: O&M Strategic Plan Update – Screens Inventory

BACKGROUND:

Presenter: Bryan Mercier, Policy and Planning, BPA Environment, Fish and Wildlife will present the screen inventory received from FSOC and Pisces data in geospatial layers (GIS).

<http://bpagis.maps.arcgis.com/apps/Viewer/index.html?appid=853d9bd807cf4b28b0399add7fd0d2fc>

Relevance: This presentation is associated with the asset inventory (Phase I and II) associated with fish screens in the Fish and Wildlife Program. The presentation will touch on the need for additional refinement of the inventory prior to transitioning into Phase III and IV.

Workplan: This presentation is associated with the development of the O&M Strategic Plan being tracked in the annual Fish and Wildlife Work Plan and the Council's Annual Work plan, Section 2b (Priority Objective 2, Action B, Sub-action *Long-term O&M inventory priorities*)

Background: Since the adoption of the 2014 F&W Program in October 2014, the Council staff (State and Central) has been working with the O&M Sub-Committee, Independent Economic Analysis Board (IEAB), Bonneville staff, Fish Screening Oversight Committee (FSOC), and Fish and Wildlife

managers to develop a long-term O&M strategic plan to ensure the longevity and integrity of the Programs past investments. Initial efforts associated with the Program hatcheries are currently being refined to conduct an asset inventory.

More Info:

- [2014 F&W Program](#) (Part Six, Section II, page 114; and Appendix P, Maintenance of Fish and Wildlife Program Investments, page 199).
- <http://www.nwcouncil.org/media/7148580/f8.pdf> - December 2014 Fish and Wildlife Committee packet memo regarding *O&M long-term funding strategy framework*.
- <http://www.nwcouncil.org/media/7148646/f2.pdf> - January 2015 Fish and Wildlife Committee packet memo regarding *Update on O&M regional process letter*.
- <http://www.nwcouncil.org/media/7148795/f4.pdf> - February 2015 Fish and Wildlife Committee packet memo regarding *Update on O&M regional process letter*.
- <http://www.nwcouncil.org/media/7149318/033115councilomupdate.pdf> - April 2015 Council meeting packet memo regarding *Update on O&M Strategic Plan*.
- <http://www.nwcouncil.org/media/7149354/070715sub-committee-update.pdf> - July 2015 Update Memo from Subcommittee Chair

2014 Fish and Wildlife Program - Investment Strategy

Operation and Maintenance Strategic Plan

May 2016

Background

- BPA has made substantial investments in the Columbia River Basin through the Council's Fish and Wildlife Program.
- O&M strategy is the highest priority in the 2014 Program Emerging Priorities.
- O&M strategy will ensure that existing Program-funded infrastructure remains properly functioning and will continue to benefit the fish and wildlife in the basin.
- Hatcheries, fishways and traps; Screens and diversions; Lands*

*BOG will continue to be used as a tool to address natural events, emergencies and misc. needs

Asset Management Strategy

- Phase 1: Inventory
 - Shared understanding of scope and scale for each category
 - Standardize data for development of system support
 - Clarity on rolls and responsibilities
- Phase 2: Condition and Needs Assessment
 - Safety – compliance – condition
- Phase 3: Criteria for Prioritization
- Phase 4: Strategic Planning
 - Planning – funding – transition to prioritized implementation

O&M Strategic planning

- Fish and Wildlife Committee presentations
- Sub-committee meetings
- IEAB (IEAB 2015-1)
 - Long-Term Cost Planning for the Fish and Wildlife Program
- Bonneville
 - Project Managers assigned
- FSOC
- Hatchery Managers
- Consultants
 - HDR Engineering Inc.
 - QW Consulting, LLC

Program Hatcheries

- Nez Perce Tribal Hatchery
- Colville Hatchery
- Hood River Production
- Kootenai River Native fish Conservation Aquaculture
- Umatilla Hatchery
- Sekokini Springs Westslope Cutthroat Trout Isolation Facility*
- Lake Roosevelt*
 - Spokane Hatchery
 - Sherman Creek Hatchery
- Kalispel Tribal Fish Hatchery*
- Cle Elum Supplementation and Research Facility
- Klickitat River Operation and Maintenance*
- Grande Ronde Supplementation
- Fall Chinook Acclimation Facilities
- Chief Joseph Hatchery
- Snake River Sockeye

*Assessments to be completed by Bonneville.

Hatcheries

- Contract awarded to HDR in March
- Letter to fish and wildlife managers sent in April
- Schedule is developed with site visits planned for ten facilities as follows:
 - Group A - Nez Perce Tribal Hatchery (7 sites), Grande Ronde Supplementation (3 sites), and Fall Chinook Acclimation Facilities (3 sites), (May)
 - Group B - Colville Hatchery (1 site), Chief Joseph Hatchery (5 sites), and Hood River Production (2 sites), (July)
 - Group C - Cle Elum Supplementation and Research Facility (4 sites), Umatilla Hatchery (10 sites) (September)
 - Group D - Kootenai River Native Fish Conservation Aquaculture (2 sites), Snake River Sockeye (2 sites), (November)
- Collaborative work sessions with fish and wildlife managers
- First assessment of Group A hatcheries completed by June

Program Hatchery

Geographic Information System Tool

Northwest Power and Conservation Council

F&W Program - Artificial Production Programs

Topic: Artificial Production Programs
View by: O&M

Nez Perce | Colville | Hood River | Kootenai | Umatilla | Sekokini | Lake Roosevelt | Kalispel | Yakima
Klickitat | Grande Ronde | Fall Chinook | Chief Joseph | Sockeye | All

All 14 Programs

1 Nez Perce Tribal
2 Sweetwater Springs
3 Cedar Flats
4 Luke's Gulch
5 North Lapwai Valley
6 Newsome Creek
7 Yoosa Creek
8 Colville Tribal
9 Parkdale
10 Moving Falls
11 Kootenai Tribal
12 Twin Rivers

Hatchery
Acclimation site

Screens and diversion

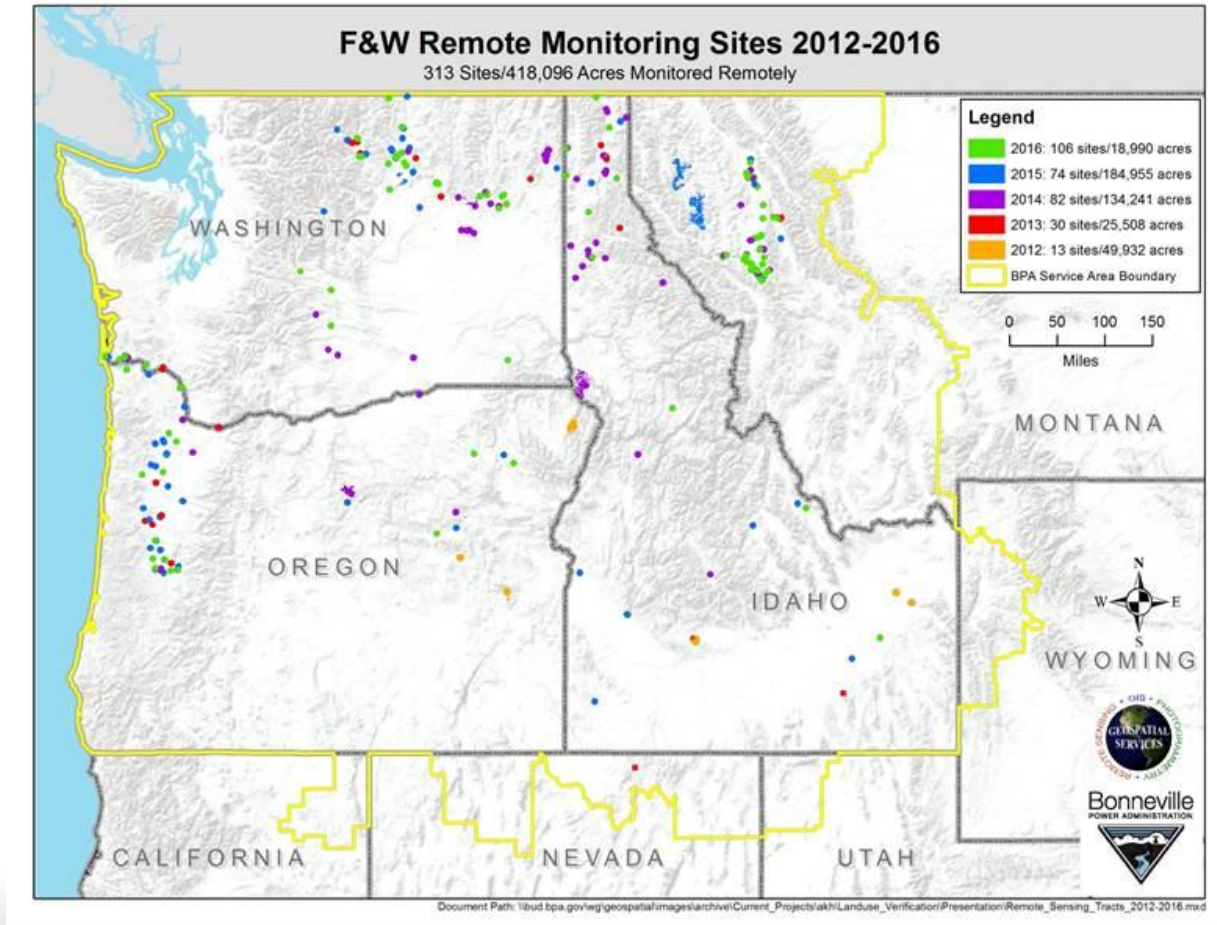
- Fish Screen Oversight Committee (FSOC) facilitating the development of the screen inventory with BPA funding.
- FSOC compiled an initial inventory of screens across four states
- BPA and FSOC members reconciling screen inventory with data from PISCES (contract management system)
- Finalization of screen inventory may require discussion between fish and wildlife managers to determine BPA history and future role with identified screens
- QW Consulting



Lands

- BPA has protected, through either fee-title acquisition or permanent conservation easements, over 700,000 acres
- BPA conducts an annual review of about 100 parcels of land each year for compliance with the terms of the conservation easements to ensure attributes to benefit fish and wildlife are sustained
- Land Monitoring Program - compliance monitoring entails a combination of methods, including remote sensing (publically available satellite imagery), on-site visits by BPA staff, and input from project sponsors.
- Presentation on Land Monitoring Program scheduled for June Council meeting in Redmond, OR.

Land Monitoring Program



Anticipated Timelines

Categories

- Hatcheries
 - Phase II completed by the end of calendar year
- Screens
 - Phase I and II completed by end of calendar year
- Lands
 - Phase I completed by end of year

O&M Strategic Plan

- Define Phase III and provide draft approach for Phase IV in early 2017