



Pacific Lamprey Passage



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Management Focus in 2008

- **Tribal Pacific Lamprey Restoration Plan for the Columbia River Basin**
- **USFWS Pacific Lamprey Conservation Initiative**
- **Action Agency-Tribes Accord**
- **Range-wide Pacific Lamprey Steering Committee**
- **COE Pacific Lamprey Passage Improvements Implementation Plan: 2008-2018**



Baseline Knowledge

- **Low 00-02 mean RT passage efficiencies at BON & JDA (47 & 53%); better at TDA (74%).**
- **Primary obstacles to passage: entrances, entrance pools, serpentine weirs, auxiliary water system (AWS).**
- **Primary problems relate to hydraulics (high velocities, confusing currents), attachment (right angles, gratings), and separation (gap size in screens and gratings) .**

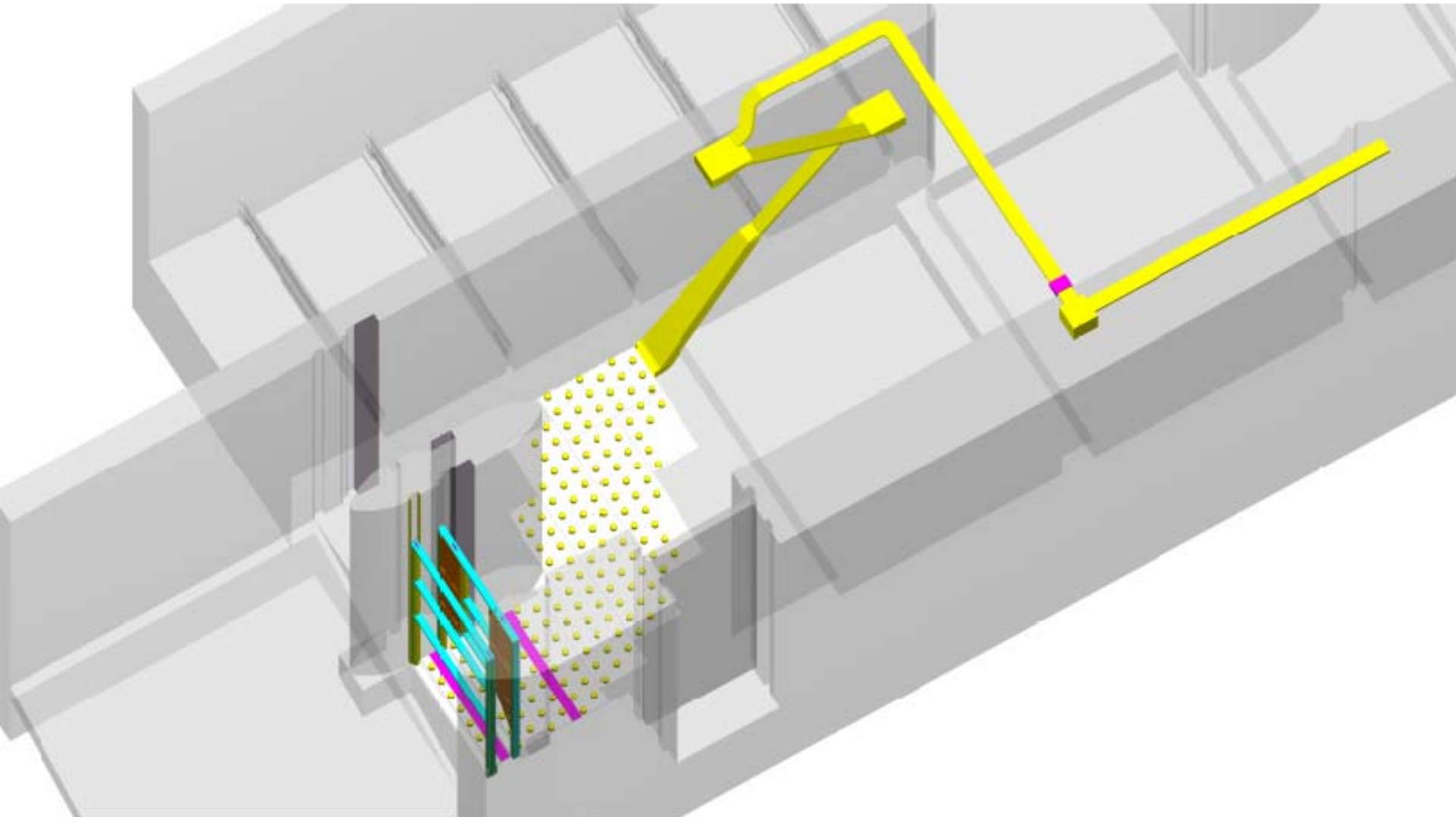


Ongoing Actions

- **Develop alternative Lamprey passage systems (LPS).**
- **Improve monitoring with night time & LPS counts.**
- **Develop juvenile assessment methodology (tags, etc.)**
- **Juveniles screening and separation improvements.**
- **Modify existing ladders.**
 - **Incorporate lamprey criteria into salmon modification at JDA north ladder.**
 - **New entrance designs (Cascade Island and JDA north entrances).**



Bonneville Cascade Island Entrance Modifications





US Army Corps of Engineers Portland District



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