

NATIONAL FISH HABITAT PARTNERSHIP

# PROJECT TRACKING SYSTEM: STATUS AND FUTURE NEEDS

NATIONAL FISH HABITAT BOARD MEETING

October 18-19, 2017

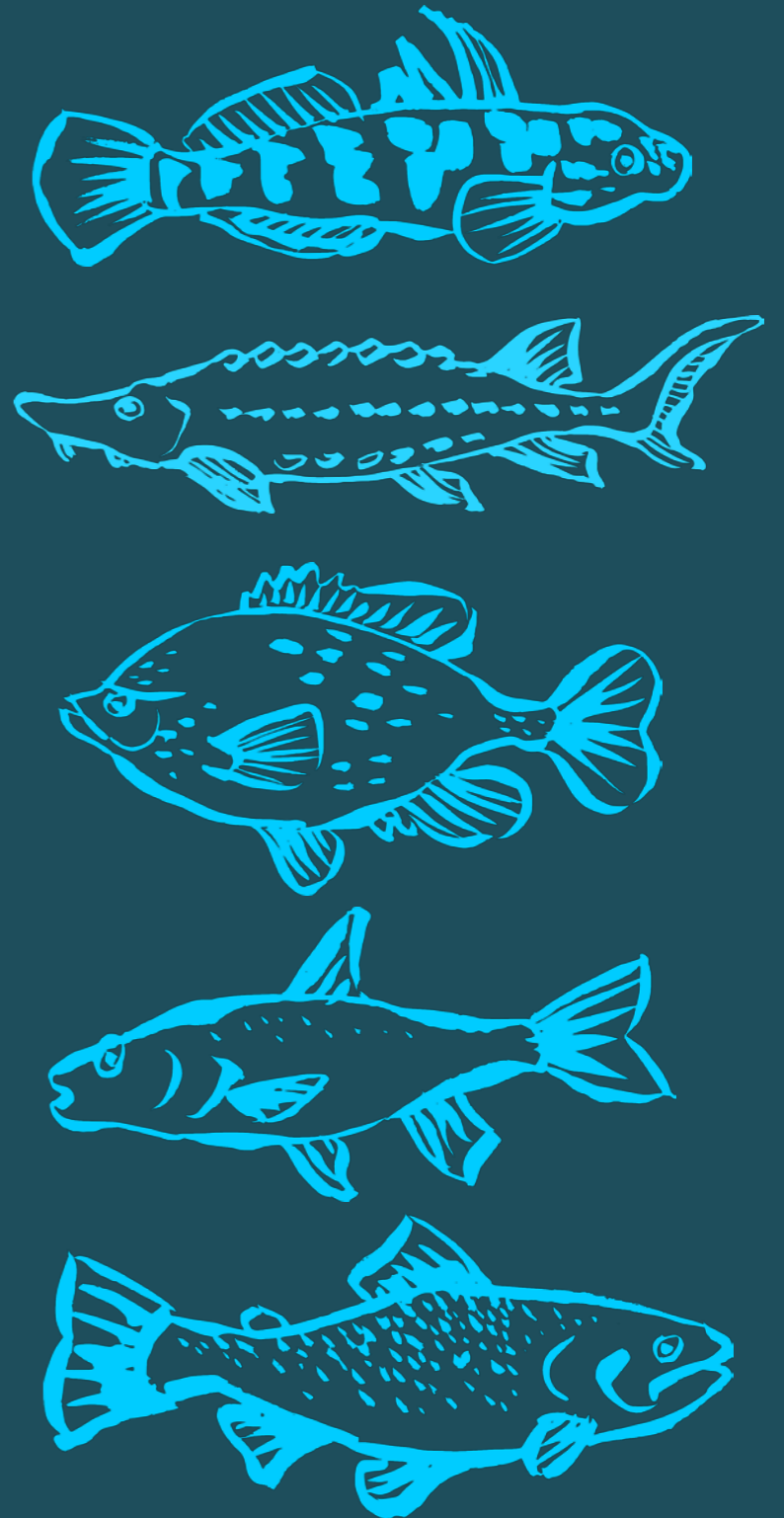
Rapid City, South Dakota

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# OVERVIEW

- Importance of Database
- Funding Overview
- Accomplishments
- Future Work
- Funding Proposal
- Key Decisions



# IMPORTANCE OF NFHP PROJECT TRACKING SYSTEM

## NFHP Project Tracking System

- Publicize the accomplishments of the NFHP program.
- Data exchange between Board, FHPs, and all partners.
- Online data entry, editing, searching, and reporting.
- Map project locations.
- Can be expanded and modified as the national program and the partnerships evolve.

## Efficiency of NFHP Partnership Performance Evaluation Process

- Generate project-specific questions (questions 1-4) automatically from the database.

# FUNDING OVERVIEW

## Funding history

- 2010: \$100,000 from USGS via National Fish and Wildlife Foundation.
- 2015: \$10,000 from NOAA Fisheries for minimal maintenance.
- 2017: \$20,000 from USGS to transfer housing of system and basic maintenance and operations.

## Current proposal

- Minimum funding to assist Partnership coordinators with the Board's 2018 Performance Evaluation and the USFWS-NFHP Reporting: \$7,000.
- Budget is \$20,000 for the tasks described in this presentation, including performance evaluation assistance. The work can be completed in one year (CY 2018).

# ACCOMPLISHMENT HISTORY (2010-2015)

## Project Tracking System Developed

- Project Tracking Working Group developed full set of fields necessary for tracking project accomplishments.
- NFHP Project Tracking Database (NPTD) developed.
- Online system with forms developed to allow viewing, editing, and adding new records.
- Project summary and reporting tools developed.

## Populated the Database

- Initial data came from FWS Fisheries Information System (FIS) for projects through 2012.

## Produced GIS layer and metadata for NFHP Data System

- Center point for each project.
- Coordinates were quality controlled and corrected or added where necessary.

# NPTD ONLINE SYSTEM

## NATIONAL FISH HABITAT PARTNERSHIP PROJECT DATABASE

Welcome **ksherman!** [ [Log Out](#) ] [Admin](#)

If you have questions about the system, please contact Robin Carlson at [RCarlson \[AT\] psmfc.org](mailto:RCarlson@psmfc.org).

[Main Menu](#)

[Select Project](#)

[Project](#)

[Timeline](#)

[Funding Sources](#)

[Habitat](#)

[Photos](#)

[Measures](#)

[Project Costs](#)

[Partners](#)

[View all projects](#)

Open project list showing all projects, sorted by project name. If you are logged in as an FHP, this list will show only the projects belonging to that FHP.

[Select FHP](#)

Open project list showing only projects with the selected FHP.

[Enter title keywords](#)

Open project list showing only the project names with the keyword(s) entered.

[Select start year](#)

Open project list showing only projects with the selected project start date.

[Select status](#)

Open project list showing only projects with the selected project status.

[FHP summary report](#)

For each FHP, this report shows: number of projects, total amount funded, number of projects with each project status, number of projects with each project type.

# ACCOMPLISHMENT HISTORY (2010-2015)

## Coordination with Partnerships

- All Partnerships contacted.
- Determine initial source of data for each Partnership.
  - FIS
  - Partnership database
  - Entry of data directly into online system
- If relevant, map Partnership database fields to NPTD fields and test data upload process.
- Work with Partnerships to familiarize them with using the NPTD.

# ACCOMPLISHMENTS (2017)

## NFHP Project Tracking System Transferred

- Transferred database and application for online system to PSMFC headquarters for physical hosting, system security, and technical support of webserver and database.

## Change in NPTD Coordination

- Transferred NPTD coordination from Robin Carlson (PSMFC) to Kate Sherman (PSMFC).
- PSMFC staff received training from Robin Carlson on background and functionality of NPTS, and FHP relationship status.



# ACCOMPLISHMENTS (2017)

## Populated the Database

- Worked with FWS FIS Staff to get an output of project information from FIS (projects 2012-2016).
- Cross-walked FIS fields to NFHP project tracking database fields.
  - Note: FWS is currently updating FIS database, and fields will change.
- Updated NPTD with new FIS data.
  - Currently over 800 records in database (previously ~400)
- Where appropriate, updated NPTD with data from FHP specific PT databases.

# ACCOMPLISHMENTS (2017)

## Coordinating with Partnerships (Ongoing)

- Initiated contact with partnerships as the NPTS new coordinator.
- Assisting partnership coordinators.
  - Using the online system.
  - Data entry and updates (FIS, FHP database, manual entry).
  - Partnerships reviewing NPTS reporting capabilities for 2018 FWS Accomplishment Reports & NFHP Board Evaluations.
- Established initial goal of updating NFHP projects in database from CY 2014-2016 by December 2017.

## Other Partnership Assistance Partnerships (Ongoing)

- Manage system logins and database security.
- Update system database guidance document and share latest version with coordinators.
- Track FHP coordinator challenges and needs for the system for future improvements.

# CURRENT CHALLENGES

## FIS Data Limitations

- No location information (limited mapping capabilities with that data)
- Quality of FIS data is variable across FHPs.

## Online system outdated

- Original design focused on data entry over summary outputs and mapping functionality.
- Original developer left his position.
- Limited ability to fix bugs.

# PROPOSED NEXT STEPS (CY 2018)

Task 1: 2018 Performance Evaluation / USFWS Reporting\*

Task 2: Partnerships and PSMFC staff continue to improve data and fill data gaps\*

Task 3: PSMFC provides help service for partnerships

Task 4: Improved reporting capabilities

Task 5: Develop Geographic Information Systems (GIS) output

Task 6: Maintain database

\*Quality of data and reports depends on FHP coordinator updates

# TASK 1: 2018 EVALUATIONS

Assist with NFHP Board's 2018 Performance Evaluation and the 2018 USFWS-NFHP Reporting.

## Work directly with Partnerships

- Ensure 2014-2016 projects in NPTD are up to date.
- Assist with special queries and reports as needed for 2018 reporting.\*

## Provide NFHP Board with support

- Assist with special queries and reports as needed.

\* Helps address online system reporting limitations

# TASK 2&3: PARTNERSHIP AND BOARD ASSISTANCE

## Continue to assist partnerships with adding projects and updates to data in NPTD

- Improve and fill data gaps in current project progress information and performance measures.\*
- Work with FHP's who have their own PT database.\*
- Update location information.

## Partnership and Board Help Service

- Manage system logins and database security.
- Maintain online system guidance document and ensure latest version is always available to Partnerships.
- Maintain a help service for Partnerships while working with the online system.\*

\* Helps address FIS and online system reporting limitations

# TASK 4: NPTD REPORTING

## Improve NPTS reports

- Work with FHP Coordinators to identify improvements to current reporting.\*
- Work with Board to identify and create specific reports helpful to Board members and partners.\*
- Create consistency between what FHP's use in evaluations and information reviewed by Board across FHP's.

## Expansion of reporting capabilities\*

- 1-2 page project outreach summary with project description, photo(s), and map(s).
- FHP reports listing projects by FY and CY.
- Specific reports tailored to questions 1-4 in NFHP 2018 Evaluations.

\* Helps address online system reporting limitations

# IMPROVED REPORTING EXAMPLE

## Project Progress Evaluation Report

FY Funded	2014
Project Name	CC PMEP 2014 - Collier Boat Ramp and Jetty Removal, Washington
ProjectType	Habitat Treatment
Latitude	47.198582
Longitude	-122.938365
Location Description	
NFHAP Goal	
FHP Priority	<Null>
Monitoring Plan	
Monitoring schedule	
Expected Outcome	<Null>
Target Species	<Null>
Target Ecosystem	
Habitat Type	
NFHAP Amount Funded	\$24,125.00
Federal Amount Funded	
State or Other Amount Funded	\$172,190.00

Current Report



## Collier Boat Ramp and Jetty Removal

NFHP Project ID: 758

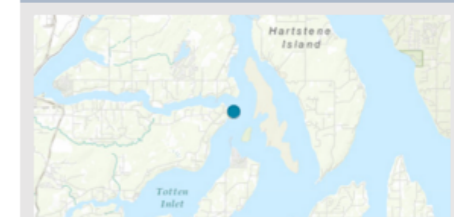
Project Background and Conservation Priorities

### Project Background

**Project Description**  
This project removed the final two sediment barriers blocking lateral net shore-drift along a 5.7 mile drift cell in Pickering Passage, South Puget sound by removing a private boat ramp and decommissioning and large boat basin.

**FY Funded** 2014  
**Project Status** Project complete  
**Project Type** Habitat Treatment

### Project Location



**Location Description**  
Pickering Passage in South Puget Sound, Mason County, Washington.

### Conservation priorities addressed by this project

**FHP Conservation Priority**  
(a) Protects, restores, and enhances juvenile fish habitat by restoring hydrologic conditions for fish; (b) Protects, restores, and enhances connectivity by reconnecting fragmented fish habitats; (c) Enhances water quality and quantity in estuarine and nearshore marine environments by removing impediments to nearshore drift.

**National Conservation Priority**  
Reverse declines in the quality and quantity of aquatic habitats to improve the overall health of fish and other aquatic organisms

**Priority Species and Habitats**  
Coho salmon, Chinook salmon, Chum salmon, Steelhead trout, Coastal cutthroat trout

Improved Report (example)

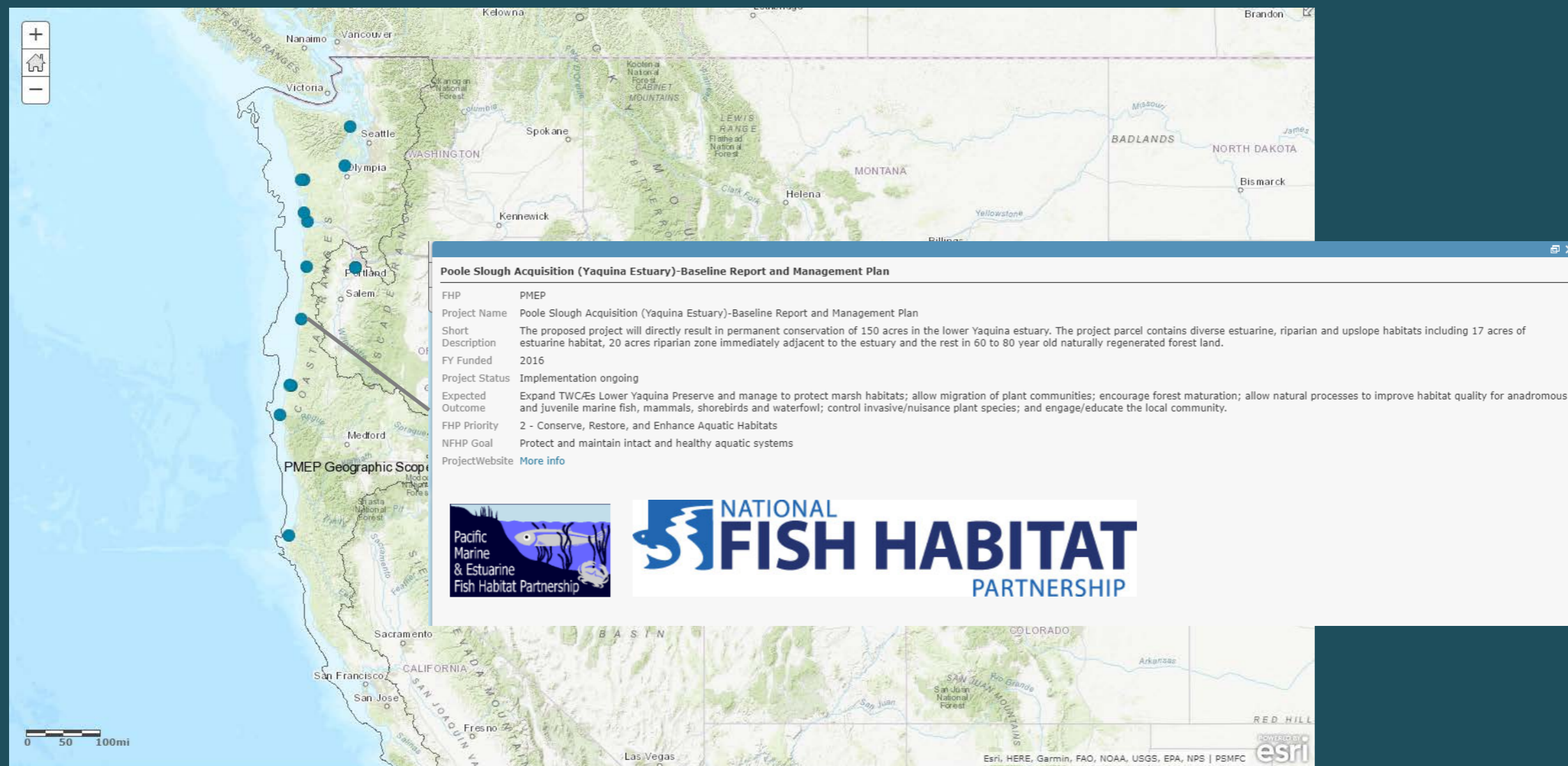




# TASK 5: GIS OUTPUT

Develop a Geographic Information System (GIS) output for FHP coordinator, Board, and public use.\*

- Create a web-map service of project locations.
- Filter projects by FHP, FY Funded, FHP Priority, NFHP Board Goal, and more.



# TASK 6: SYSTEM MAINTENANCE

## Database and webserver maintenance

- Database currently resides on physical server running MS SQL Server RDMS.
- Server firmware, operating system and software routinely updated and backed up.
- Server and database logs periodically reviewed for warnings and errors.
- SQL Server instance monitored for consistency, fragmented indexes, and long-running queries.
- Webserver maintenance: ensuring system and software performing as required; logging system use and performance, hotfixes and software updates, security audits, and system updates as required.
- Technical support and availability. PSMFC provides hosting, system security, and technical support for the webserver and database.

# KEY DECISIONS

## Funding Options

- Option 1 (\$7,000)
  - Minimum system maintenance.
  - Assist Board and FHPs with 2018 Performance Evaluation and USFWS-NFHP Accomplishment Reports.
- Option 2 (\$20,000)
  - Greater level of support.
  - Enhanced reporting options.
  - GIS Outputs.
  - Explore options for modernizing the system in future years.

## Board Participation in Defining Reports

- What are key needs forecasted by the Board?

## NPTS— where to focus energy?

- Online data system.
- Data quality and partnership coordination.
- Reporting.

# THANK YOU!

- Questions?

- Contact information:

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