

## **Lake Mendocino Forecast-Informed Reservoir Operations (FIRO) Viability Assessment Project**

### **Workshop Agenda**

**July 14-16, 2015**

#### **MEETING LOCATION:**

Southwest Fisheries Service Center (NOAA NMFS)

8901 La Jolla Shores Drive La Jolla, CA 92037

La Jolla, CA

<https://swfsc.noaa.gov/>

#### **MEETING PURPOSE:**

- Review final FIRO work plan, focusing on most recent sections (8,10).
- Share recent FIRO updates and results of ongoing projects/research.
- Discuss and reach consensus on work plan implementation issues.
- Discuss and reach consensus on communications strategy.
- Determine next steps and schedule for moving forward.

#### **LAKE MENDOCINO FIRO STEERING COMMITTEE:**

Marty Ralph – Co-lead (UCSD/Scripps/CW3E)

Jay Jasperse – Co-lead (SCWA)

Mike Anderson (CA DWR)

Mike Dillabough (USACE)

Christy Jones (USACE)

Pat Rutten (NOAA/NMFS)

Rob Hartman (NOAA CNRFC HIC)

Robin Webb (NOAA OAR)

Levi Brekke (US BOR)

Mike Dettinger (USGS)

Cary Talbot (USACE – ERDC)

#### **COMMITTEE SUPPORT**

Arleen O'Donnell, ERG (Facilitator)

Ann DuBay, SCWA (Communications)

David Ford, Ford Consulting

#### **LOGISTICS:**

Directions and parking info are available in the link above (see meeting location).

Lunch will be provided on Tuesday and Wednesday.

Dress is casual.

**Tuesday, July 14<sup>th</sup>**

**11:30 – Noon**

**Arrival**

**Noon- 12:30**

**Working Lunch**

Opening Remarks and Agenda Preview

- Introductions and Opening Remarks (Marty Ralph, Scripps CW3E and Jay Jasperse, Co-Chairs)
- Review Meeting Objectives and Agenda for the Day, Any Suggested Adjustments (Arleen)

**12:30-2:30**

**FIRO Updates and Information Sharing**

This time is reserved for updates/presentations/briefings TBD and solicited ahead of time

- 12:30-12:45 –Chris Delaney: Current Lake Mendocino water supply conditions - summary of WY 2015 and considerations for WY 2016
- 12:45-1:00 – Mike Dillabough: Lake Mendocino WY2015 winter operations and deviation request and considerations for WY 2016
- 1:00-1:15 – Pat Rutten: Ecosystem perspectives from WY 2015 and looking toward WY 2016; developments under RR Habitat Blueprint
- 1:15-1:30 – Mike Anderson: Statewide WY 2015 summary and concerns regarding WY 2016.
- 1:30-2:00 – Rob Hartman: Current river forecasting capabilities, developments and near-term needs (to implement FIRO)
- 2:00-2:30 – Marty Ralph and Cary Talbot: Research activities to enable future hydrometeorological forecasting capabilities envisioned to support FIRO (at Lake Mendocino, and potentially other sites), including updates on SB 758 and USACE WOTS

**2:30-2:45**

**Break**

**2:45-3:15**

**FIRO Updates and Information Sharing, Continued**

- 2:45-3:00 – Robin Webb: HMT, EFREP and AQPI developments relating to FIRO
- 3:00-3:15 – David Ford: FIRO Decision Support Tool requirements and Folsom Spillway project

**3:30-4:45**

**Overview of Final Work Plan (15 min)**

*Note: Practical Implementation Issues, Group Discussion Part 1 and Subsequent Breakouts*

*We will wrap up discussion after 50 min and leave last 10 minutes to identify the key issue for more in-depth discussion in the breakout session. The discussion leaders will decide the breakout topic after getting input from the group.*

**3:34-4:45 Practical Implementation Issues - Group Discussion Part 1**

**The Coming Year – Preliminary Viability Assessment - Discussion Leader: Jay Jasperse and David Ford**

- Evaluations of current forecast skill – meteorology and hydrology
- Hydrological and meteorological information needs
- Preliminary tools and methods to examine for WY 2016
- Proposed timeline for preliminary viability assessment

**4:45-5:15 Review Day Two Agenda** and Discuss Any Adjustments

**5:30-6:30 Happy Hour – Location TBD**

**Wednesday, July 15<sup>th</sup>**

**8:00-8:30 Arrival and Coffee/Continental Breakfast**

**8:30-9:00 Opening Remarks and Agenda Preview**

- Introductions (for new arrivals) and Opening Remarks (Marty Ralph, Scripps CW3E and Jay Jasperse, Co-Chairs)
- Review Objectives and Agenda for the Day (Arleen)

**10:00-10:15 Break**

*Note: Practical Implementation Issues, Group Discussion Parts 2-4 and Subsequent Breakouts*

*We will wrap up discussion after 50 min and leave last 10 minutes to identify the key issues for more in-depth discussion in the breakout session. The discussion leaders will decide the breakout topics after getting input from the group.*

**10:15-11:15 Practical Implementation Issues - Group Discussion Part 2**

**WY 2016 Considerations (who, when, how) – Discussion Leaders: Mike Dillabough/Mike Dettinger**

- Deviation request?
- Options for preliminary tools and methods to examine for WY 2016
- Preliminary hydrometeorological outlooks for WY 2016
- Where we see long-term forecasts playing into FIRO (2016, for example)

**11:15-12:15 Practical Implementation Issues – Group Discussion Part 3**

**WY 2017 & 2018 Considerations and Major Test (who, when, how) – Discussion Leaders: Marty Ralph and Cary Talbot**

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- Designing a major test, including hypothetical parallel operations
- FIRO DST requirements
- New forecast tools and products
- Evaluation criteria and procedures
- How to measure success

**12:15-1:15 Lunch**

**1:15 -2:15 Practical Implementation Issues – Group Discussion Part 4**

**If and how to operationalize (who, when, how) – Discussion Leaders: Rob Hartman and Mike Dillabough**

- Ongoing deviation requests - Mike
- Water control manual update – Mike
- New forecast methods – Rob
- Science gaps – Marty
- How/where will FIRO DST operate– David Ford

**2:15-2:30 Introduce Breakout Topics (Group Discussion Leaders)**

**2:30-3:30 Breakout session A – for Parts 1 and 2 (Focus on key issues)**

**Break into 2 or 3 groups**

**3:30-3:45 Break**

**3:45-4:45 Breakout session B – for Parts 3 and 4 (Focus on key issues)**

**Break into 2 or 3 groups**

**4:45-5:15 Wrap-up and Review Day 3**

**Thursday, July 16<sup>th</sup> 8:30AM-Noon**

**7:30-8:00 Arrival and Coffee/Continental Breakfast**

**8:00-9:00 Reports from Breakout Groups (10-15 min each)**

**9:00-9:30 Discussion**

**9:30-10:00 Communications Plan and Opportunities for Outreach/Engagement – Ann DuBay**

**10:00-10:30 Next Steps**

- Review action items
- Upcoming meeting schedule

**10:30 Adjourn Workshop**

**Post-Workshop De-Brief**

**11:00**            **FIRO Steering Committee Meeting (over lunch)**

**1:30**            **FIRO Steering Committee Adjourns**