

**Willamette Action Team for Ecosystem Restoration (WATER)
 Research, Monitoring and Evaluation (RM&E)
 June 25, , 2020
 CONFERENCE CALL/WEBEX**

http://pweb.crohms.org/tmt/documents/FPOM/2010/Willamette_Coordination/Willamette_RME/RME.html

**FINAL Facilitator’s Summary
 [Edits provided by Corps, ODFW]**

ACTION	BY WHOM?	BY WHEN?
Consolidate sub-basin spreadsheet	DS Consulting	December 2020
Send Fenton information on the Bull Trout genetic sorting process.	Mike	ASAP
Send FY21 concepts to DS Consulting	Concept Developers (see table)	July 17, 2020 noon
Review FY21 Concepts	RM&E Team	Before 7/23/2020 RM&E meeting

Present for all or part of the meeting: Brad Eppard (Corps), Mike Hudson (USFWS), Fenton Kahn (Corps), Anne Mullan (NMFS), Jim Myers (NMFS), Rachel Neuenhoff (Corps), Christine Petersen (BPA), Kelly Reis (ODFW), Lawrence Schwabe (CTGR);

Facilitation Team: Emily Stranz and Nancy Pionk (DS Consulting).

Welcome and Housekeeping

Emily welcomed the group and conducted a round of introductions. The group approved the May 28, 2020 RM&E Team meeting summary.

Update on FY20 Studies

Fenton noted that the Corps is continuing to work on funding the FY20 Fall Creek, copepod, high-head bypass and genetic pedigree studies. The genetic pedigree studies will include the Middle Fork, McKenzie and South Santiam sub-basins.

Sub-Basin Planning Spreadsheet Consolidation

Anne and Fenton reviewed the consolidation of the Middle Fork sub-basin spreadsheet with the group. The team agreed to consolidate and update the spreadsheets on an annual basis, during the December/January timeframe. Rachel noted that a list of data gaps regarding the Middle Fork is being developed through the Strategic Decision-Making workshop process and will help answer some of the questions noted in the spreadsheet

- **Action:** DS Consulting will consolidate the information included in the spreadsheet for sub-basins; the RM&E team will review and refine next winter.

FY21 Concept Development

Fenton provided list of interim measures for implementing the 2008 BiOp that were developed in response to the pending lawsuit. Brad noted that the Corps worked with NMFS to develop these measures and they include both operations that are intended to benefit fish as well as RM&E-related measures. There may be operational measures that the RM&E team feels need to be evaluated. Ian will officially roll out these

interim measures with the Steering Team at their next meeting. Additionally, Fenton noted that the Foster Ladder PDT is at the DDR stage and no additional studies are needed at this time to inform the effort, therefore no concept papers will be drafted for the Foster Ladder PDT.

The group reviewed the list of interim measures (IM) and identified FY21 concepts to pursue. The concepts included research related to the interim measures, as well as any additional studies that agencies would like to see move forward. The proposed concepts and concept development assignments are identified in the following table.

FY21 Concept Development and Assignments		
Willamette -General		
Proposed Concept	Notes	Concept Developer
Development of Adaptive Management Plan for SWIFT outcomes	This was noted in sub-basin planning table.	USFWS
Rapid Genetic Sorting at Foster Adult Fish Facility	Desktop exercise to prepare for passage above Green Peter; this could be systemwide and include Minto, North Santiam near Breitenbush and Middle Fork (below/above Hills Creek). Mike and Jim noted similar efforts for bull trout and on the Lewis River. It was suggested that this rapid sorting process is compared to operational methods of sorting fish.	Corps
North Santiam		
Upstream Passage – Genetic Pedigree Work	Fenton noted this work is being done currently. Lawrence suggests gathering another year of data (i.e. continue study).	CTGR
Trout Predation upstream of DET	Concept for FY21 or later.	Corps
Assessment of spawning and outmigration patterns above DET	This is related to productivity and residualization patterns; concept for FY21 or later.	Corps
Evaluation of Downstream Passage (resulting from IM #5)	Fenton clarified that for interim measure #5, the timing of operations related to outmigration periods for fish.	Corps
Monitoring of TDG Impacts below Big Cliff (from interim operations at Big Cliff IM #6)	This could inform future operations.	Corps
PIT Tag Fish above/into reservoir prior to passage operations	NMFS suggested that, as new operations are implemented, putting PIT-tagged fish into reservoirs to see what response is; this could be before and during operation.	NMFS
South Santiam		

Evaluation of Downstream Passage in lieu of Foster Fish Weir (resulting from IM #9)	Fish Weir improvements are taking longer. Interim Spill is proposed for short term.	Corps
Monitoring of TDG and Temperature Impacts below Foster (from interim operations at Foster IM #10)		Corps
Placeholder pending RM&E plan development (IM #8)	First Step will be to develop RM&E plan and from this plan develop information needs and concepts which could include: <ul style="list-style-type: none"> • How are fish going to be collected? • Test changes to Adult facility • How outmigrants will react to interim measures • How will this inform reintroduction plan. • Outplanting PIT-tagged Fish to see how fish will move with interim spill from GPR IM #8 	TBD
McKenzie		
PIT Tagged Juveniles released above projects for IM #16 and 17.	Follow tagged fish through life history stages to learn more about passage, efficiency, survival, delayed mortality (compare mortality to past and interim operations).	ODFW and NMFS
Middle Fork		
Desktop modeling of fry survival	This will inform if more data is needed (previous concept was not funded for FY20).	Corps
Year 2 Fall Creek post-construction including PSM work		Corps
Marked juvenile release to gather more information on passage operations for IM #20/21		ODFW and NMFS
Downstream Passage – Scale analysis of returning adults to assess which fish emigrated as sub-yearlings or moved out with drawdown for IM #23	Concept should explain why this needed: what is the management question that this information will answer	ODFW and NMFS
Placeholder for Middle Fork Data Gaps based on SDM List	Concepts to be developed after list is available.	TBD

Next Steps for FY21 Concept Development

The group discussed the process and timing for development of concepts and agreed to the following schedule:

1. RM&E team members will develop concepts and send to DS Consulting by noon on July 17.

2. DS Consulting will send the RM&E Team the draft concepts by COB July 17.
3. RM&E Team members will review draft concepts in preparation for the July 23 RM&E meeting.
4. RM&E Team will discuss and provide input on draft concepts at the July 23 meeting.
5. There will be a Joint RM&E/Steering Team meeting for concept prioritization in early August 2020.

Due to the large number of concepts, the group discussed that not all draft concepts are expected to be available on July 17th; and there will likely be more than one round of review and prioritization with the Joint Team.

With that, Emily thanked the group and adjourned the meeting.

The next RM&E Team meeting is scheduled for July 23, 2020 from 9:00 AM - 1:00 PM;

This summary is provided by DS Consulting. Suggested edits are welcome and can be provided to Nancy at nancy@dsconsult.co