

Timber, Fish, & Wildlife Policy Committee
 July 11, 2019 Approved Meeting Summary
 v.8.1.19

Action	Responsibility
<p>Create a one-page memo to CMER outlining Policy’s questions about the ENREP project and circulate this to Policy for feedback (DONE, see attached).</p>	<p>Terra Rentz</p>
<p>Send additional questions for CMER regarding ENREP to Terra Rentz for inclusion in the aforementioned memo. Questions should seek to inform Policy’s decision space around the project budget.</p>	<p>Policy representatives</p>
<p>Reach out to Tim Larkowski for availability to participate in the Type N Workgroup and send his field of expertise and CV to Heather Gibbs and Triangle by Friday, July 19.</p>	<p>Mark Hicks</p>
<p>Contact Type N Workgroup nominees with the following points:</p> <ul style="list-style-type: none"> • Convey expectations of 1.5 years of work, on average 3 days a month, with at least \$20,000 of compensation; • Confirm nominees’ continued interest in participating in the Type N Workgroup; and • Confirm nominees’ correct field of expertise. <p>Send this information to Triangle by Friday, July 19.</p>	<p>Policy representatives</p>
<p>Submit preferred ranking of nominees in a single list (using the voting sheet version 7/12/19) to Triangle by Friday, July 26.</p>	<p>Policy representatives</p>
<p>Reconvene the budget workgroup (Scott, Alec, Darin, Terra) on a monthly basis starting in August 2019, focusing first on cueing up the CMER short-term project list for Policy’s use in December 2019.</p>	<p>Terra Rentz/AMPA</p>

Decision	Notes
Approve the June meeting summary as amended.	The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.
Approve and recommend to the Board the AMP budget as amended at the July 11, 2019 Policy meeting.	The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.
Adopt the amended language in the SFL Template Workgroup charter with a modification of the date to provide deliverables from February 26, 2019 to October 30, 2019.	The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.
In response to the Board’s June 4, 2019 motion, Policy recommends that an anadromous floor should be considered for inclusion as a component of the water typing system rule.	The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.
Policy recognizes that existing rule language and actions may provide adequate considerations for landowners and recommends that additional water-crossing structure language not be included in the water typing system rule. Policy also recommends that an evaluation of potentially affected water-crossing structures be further considered by Policy but is not an immediate need at this time.	The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.

Welcome, Introductions, & Old Business – Policy Co-Chairs Curt Veldhuisen, Skagit River System Cooperative (SRSC), and Terra Rentz, Washington Department of Fish and Wildlife (WDFW), opened the meeting and reviewed the day’s agenda.

Curt noted that the Extended Monitoring Workgroup is working on its deliverables.

Howard Haemmerle, acting Adaptive Management Program Administrator (AMPA), shared that an announcement about the AMPA hiring process would likely be released by the following week. Howard will be retiring from the Department of Natural Resources (DNR) on July 31, 2019.

Jim Peters, Northwest Indian Fisheries Commission (NWIFC), and Steve Barnowe-Meyer, Washington Farm Forest Association (WFFA), attended the capacity-building workshop for Adaptive Management Program (AMP) principals. The facilitator, Francine Madden, led the group through role-playing scenarios to help improve participants’ understanding of each others’ roles and responsibilities within the AMP. Jim and Steve both expressed that this meeting helped to increase collaborative spirit within the AMP and allowed participants to connect on a more personal level. Francine will not be available again until November 2019, and another meeting has not been scheduled as of July 11. The participants intend to discuss further what they can do in the meantime to prepare for the next meeting. Jim noted that the

Westside Tribes do not consider this meeting a true principals' meeting because the invitation was not open to all stakeholders who might have wanted to send a representative.

Greg Stewart will return to NWIFC as a CMER geologist on July 15, 2019. NWIFC extended the application for the lead scientist position to July 15, 2019. Jim Peters hopes to involve Policy and CMER representatives and the AMPA on an interview panel.

Jim also shared a draft charter for a workgroup focused on the anadromous floor, which the Westside Tribes will bring forward to the Board. NWIFC will present on this process to the subcommittee of the Board. Jim invited Policy representatives to send any comments on the document to himself and Ash.

Rich Doenges, Department of Ecology (Ecology), shared that he will be starting a new position at Ecology as Regional Director for the Southwest Region.

Facilitator Rachel Aronson, Triangle Associates, introduced Annie Kilburg, Triangle Associates, who will be taking over the project management role for the contract between DNR and Triangle. Annie has a background in conflict resolution in the environmental policy sector. While Annie will not be facilitating monthly Policy meetings due to Policy-directed adjustments within the facilitation contract, she will be available to Policy by request to provide support for specific processes. The Co-Chairs reminded Policy that there will no longer be scheduled caucus calls with each representative, and representatives should reach out to the Co-Chairs with any concerns between meetings. A Policy representative asked that the draft agenda be shared two weeks before the Policy meeting each month.

Scott Swanson, Washington Association of Counties (WSAC), shared that WSAC's Board representative has resigned, and WSAC is working on submitting names of candidates for a new representative to the Board.

Rich Doenges shared that Maia Bellon, Director of Ecology, will sit in at the next two Board meetings.

Rachel Aronson reviewed the voting process for the Type Np Workgroup membership selection process. Policy representatives stated a preference for more time to review and discuss the candidates. The group decided to hold a discussion at this meeting to clarify questions about the nominees, the voting process, and contracting concerns, and postpone the vote to the August meeting.

The group reviewed the June meeting summary. Some edits were suggested and incorporated.

Decision: Approve the June meeting summary as amended. The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.

CMER Update – Chris Mendoza, Conservation caucus and CMER Co-Chair, provided Policy with an update from the May 2019 CMER meeting. Highlights are listed below.

- CMER is in the process of rotating co-chairs. Chris Mendoza is taking Jenny Knoth's place as Co-Chair. Chris brings experience in the Lean process as well as updating the Board Manual Section 22 and hopes to facilitate communications between CMER and Policy.
- CMER had a science session in Ellensburg, WA focused on Wetland Scientific Advisory Group (WetSAG) projects. The goal is to improve ability to identify wetlands with developing technology. WetSAG will work on a proposal for increasing budget.
- CMER heard an update on the Wetland Effectiveness Study literature review, which included additional literature on forested wetlands and a presentation on findings so far. This will come to Policy when ready.

- The Hard Rock extended report was not approved by CMER last month, partially due to a technicality that prevented reviewers from thoroughly reading and tracking all comments. The authors will work through the comments and present to CMER this month. Once approved, it will go to the Independent Scientific Peer Review (ISPR) process.
- The Uplands Scientific Advisory Group (UPSAG) revised its budget and moved \$35,000 from this biennium into the next.
- CMER will discuss the following items next month:
 - Hard Rock Extended Report (Phase II) for a re-vote. If approved, this will come to Policy in August.
 - Amphibian Genetics Study for final approval
 - Extensive Temperature Findings Report for approval
 - Budget exercise to identify active projects that need additional funding. This list will be delivered to the AMPA and to Policy.
- Policy representatives expressed that the Hard Rock Extensive study should be included in the materials to be reviewed by the Technical Type Np Prescriptions Workgroup.

Quarterly AMP Budget Update – Howard Haemmerle, acting Adaptive Management Program Administrator (AMPA), reminded Policy that the budget was brought to the Board. The Board requested several edits, including an allocation of \$150,000 for AMP facilitation funding and additional money for the Water Typing Strategy line item. Howard discussed with CMER and SAGs how funding could be shifted, but not many such opportunities were identified. Howard made the following notes about specific line items in the budget.

- AMP Administrative Assistant II: This position is unlikely to be filled in the first quarter. Howard changed this number to \$60,000 to reflect the savings of one quarter.
- AMP Principals Facilitation: Included \$150,000 which was possible because of an identified over-expenditure in the DNR budget.
 - There was discussion of budget implications of staff salaries and hiring rates. It was clarified that the salary calculations in the budget use the maximum rate for each position as well as incorporate a periodic cost-of-living increase. Depending on the experience of the employees at the time of hire, the budget may shift.
- CMER Eastside Scientist: Howard reported that the hiring process is underway but recommended leaving this number as is.
- Deep Seated Slope Strategy: The project team requested shifting FY20 funds to FY21. Funding for later fiscal years is yet to be determined.
- Water Typing Strategy: The cost savings identified above were transferred to the Water Typing Strategy line item.

A motion was made to restore the contingency fund to \$61,688 for FY20 as originally included in the budget that was sent to the Board. The motion was seconded. Policy discussed the motion, and eventually rescinded it in order to approve the whole budget with a single motion. The group agreed to the change. The Water Typing Strategy fund was then changed to \$65,850 for FY20.

Policy discussed the process of spending State General Funds and Forest and Fish Support Account (FFSA) money. Terra and Howard stated that to their understanding, Policy cannot spend more money than it allotted in its budget for a the first fiscal year of a biennium even if it is scheduled to receive State General Funds or FFSA money at the beginning of the second fiscal year of the biennium.

Howard recommended that Policy consider unspent funds in December 2019 and make adjustments to the budget as necessary for most efficient use of funds.

Scott Swanson, WSAC, moved to approve and recommend to the Board the AMP budget as amended at the July 11, 2019 Policy meeting. The motion was seconded.

Decision: Approve and recommend to the Board the AMP budget as amended at the July 11, 2019 Policy meeting. The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.

Facilitator Rachel Aronson, Triangle Associates, reminded Policy that the group is planning to have quarterly budget updates on its workplan throughout the year.

Terra stated that the Budget Workgroup will need to start meeting monthly to respond to the requests from the Board. Scott Swanson offered to take Rich Doenges' place on the Workgroup. The Workgroup will work to better understand how available funding can be allocated, review CMER's short-term project list, and set up a system to communicate budget updates with the new AMPA, and help Policy prepare to present its official one-year budget to the Board at the Board's November meeting. Alec recommended a master list or other tracking system to record budget changes.

Action: Terra Rentz and the AMPA will reconvene the budget workgroup (Scott, Alec, Darin, Terra) on a monthly basis starting in August 2019, focusing first on cueing up the CMER short-term project list for Policy's use in December 2019.

ENREP Questions for CMER – Policy representatives presented the following concerns about the Eastside Type N Riparian Effectiveness (ENREP) study.

- The Industrial Landowners caucus is concerned that the treatment sites may respond in ways that are too statistically different to draw conclusions that can be applied to the eastern Washington ecosystem at large. There is also concern that the project was approved despite issues raised by several caucuses. The Industrial Landowners caucus prefers to resolve the issues with the study before approving the study given its high cost and lengthy time schedule. The caucus feels it is Policy's job to make sure that study designs and budgets have been fully vetted.
 - Howard noted that the project team needs time to visit and study the sites in order to determine what can likely be inferred from the study. The project team will then need to present to the SAG, CMER and Policy. Howard expects this information will reach the Board at its November meeting.
 - Terra noted that Policy should consider what kinds of information each group needs for their decision space and use these desired outcomes to inform questions to CMER.
- The Small Forest Landowner caucus originally supported ENREP because it wanted to support the needs of the Eastside Tribal caucus, which advocated for this project in the past.
- The Westside Tribal caucus wants to address the concerns with the current project sites but does not want to return to concerns that should have been brought up earlier in the process. The caucus is concerned about the large project budget.
- The Counties caucus is also concerned about the large project budget.
- WDFW is concerned whether the selected sites are appropriate for the study design.
- The DNR caucus expressed that the study should include sites from each ecoregion on the eastside, since the Policy implications would affect the whole eastside. Additionally, questions brought forward by Policy members should be shared with all of Policy. DNR also wanted to know the status of the pairs of sites in the east Cascades.
 - Howard responded that the project team has done an initial review and has begun gathering temperature data. All of the sites seem useable on first look, but the team had not come to a final decision as of July 11.

- The Conservation caucus is concerned about the budget and logistics of the project. They would like clarification on Policy's decision space and a report out from the project team after the sites are selected.
- Ecology expressed that because Policy is in charge of managing the project budget, Policy should ask questions about how CMER can create some cost savings with the sites they have selected.

Terra reminded Policy that it needs to have its final budget approved by the October meeting for presentation at the Board's November meeting. Therefore, Policy should hear a presentation by the ENREP project team at its September meeting.

Action: Terra Rentz will create a one-page memo to CMER outlining Policy's questions about the ENREP project and circulate this to Policy for feedback. (Complete – See Attachment 2.)

Action: Policy representatives will send additional questions for CMER regarding ENREP to Terra Rentz for inclusion in the aforementioned memo. Questions should seek to inform Policy's decision space around the project budget.

Small Forest Landowner Template Workgroup Update – Ken Miller, Washington Farm Forest Association (WFFA), and Marc Engel, DNR, updated Policy on the Small Forest Landowner Template Workgroup's progress and deliverables status. Marc reminded Policy that the Workgroup provided a memo to Policy on February 26, 2019 to update on the Workgroup's progress. At its March meeting, Policy approved the Workgroup to keep working and made no changes to the charter. On May 30, the Workgroup reviewed its remaining deliverables. On July 9, the Workgroup amended its work plan, estimating that it can complete its deliverables by October 31, 2019.

Marc then shared that the Workgroup requests a change to the charter to amend the date of final deliverables to October 31, 2019.

Policy discussed whether there are other changes that should be made to the charter. A Policy representative asked how confident the Workgroup members were in their ability to meet this deadline. Workgroup members shared that they chose their dates conservatively in order to make their workplan realistic. The remaining meetings in the proposed workplan identify the steps the group will take to complete the deliverables outlined in the charter. Additionally, the Workgroup has received all of the information and study results that it intends to consider. The group has made progress on discussing content of the proposed prescriptions and comments made by participating caucuses and members have expressed commitment to completing the deliverables on the new timeline.

Terra noted that the new deadline should be October 30, 2019, in order to meet the October Policy mailing date.

Steve Barnowe-Meyer, WFFA, moved that Policy adopt the language change proposed by the SFL Template Workgroup to modify the deliverables date to October 30, 2019 as an update to the Workgroup Charter. The motion was seconded. Small amendments to the motion were proposed and incorporated.

Decision: Adopt the amended language in the SFL Template Workgroup charter with a modification of the date to provide deliverables from February 26, 2019 to October 30, 2019. The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.

Response to Anadromous Floor and Water Crossing Structures Directives from the Board – Terra Rentz reviewed her memo to Policy regarding the Board's motion on water typing strategy. Terra met with a group of Policy representatives to outline key questions, define relevant terms, identify relevant materials,

and draft motion language for Policy. Terra noted that the content of the memo is meant to provide a starting point for Policy, but may be edited by consensus of the group.

Marc Engel, DNR, provided some background on the Board's motion asking Policy to provide guidance about the inclusion of an anadromous fish floor and water-crossing structures in the water typing system rulemaking. Marc noted that the Board committee is expecting a vote on the anadromous floor and water-crossing structures topics on July 17, 2019. At this meeting, the Westside Tribes will give a presentation on their proposed charter for an anadromous floor workgroup.

Policy discussed the legal aspect of the request from the Board in regards to the AMP process. Policy representatives expressed discomfort with the process instigated by the Board's request because it did not fall within the adaptive management process. A representative suggested consulting the Attorney General's office from the Policy perspective. Policy representatives emphasized that they do not object to working on the topic of the water typing systems rulemaking, but they would have preferred the Board to have followed a different procedure. Marc Engel reminded Policy that Policy has been involved in providing guidance regarding the water typing systems rulemaking topic in past years. Terra summarized that while Policy agrees to address the requests made by the Board, the group would also like to communicate to the Board its discomfort with the process by which Policy was asked to be involved.

Policy then discussed separately each item for which the Board requested guidance on inclusion in the water typing systems rule. The two tasks given by the Board are listed below.

Task 1: Should the anadromous floor be part of the water typing rule?

Jim Peters moved that in response to the Board's request on June 4, 2019, Policy determine that yes, an anadromous floor should be an option in rule development. The motion was seconded. Policy discussed the motion and amendments were suggested. Policy representatives expressed concern that the motion does not define the term "anadromous floor" and acknowledged that more work needs to be done on this definition. Representatives expressed a desire to continue Policy's involvement in the water typing rule work after providing this simple yes or no response to the Board. Others shared commitment to continuing work on the topic.

Decision: In response to the Board's June 4, 2019 motion, Policy recommends that an anadromous floor should be considered for inclusion as a component of the water typing system rule. The Federal and Eastside caucus were absent; all other caucuses voted thumbs up.

Task 2: Should "water-crossing structures" be addressed in the water typing rule?

Marc Engel shared some information on the existing rules regarding water typing, including WAC 222-24-040 and 222-24-050. He noted that WAC 222-24-050 includes a rule dictating that replacement may not be required for existing culverts that are functioning with little risk to public resources. WAC 222-24-040 is the overarching rule concerning standards of water-crossing structures. Marc read aloud the proposed language amendment to WAC 222-24-040 that is currently under consideration. Policy representatives expressed concern about the proposed language amendment to the WAC 222-24-040 and whether the rule may enable too many pipes that are problematic to fish to stay in use solely for the purpose of lessening economic impact. Others expressed a desire to discuss this topic in greater depth in order to develop rulemaking recommendations that all caucuses are more comfortable with.

Scott Swanson, WSAC, moved that Policy recognize that existing rule language and actions may provide adequate considerations for landowners and recommends that additional water-crossing structure language not be included in the water typing system rule. Policy also recommends that an evaluation of

Type N water-crossing structures needs further consideration but is not an immediate need at this time. The motion was seconded. Policy then amended the motion.

Decision: Policy recognizes that existing rule language and actions may provide adequate considerations for landowners and recommends that additional water-crossing structure language not be included in the water typing system rule. Policy also recommends that an evaluation of potentially affected water-crossing structures be further considered by Policy but is not an immediate need at this time.

The Eastside Tribal caucus and Federal caucus were absent; all other caucuses voted thumbs up.

Technical Type Np Prescriptions Workgroup Membership Selection – Policy reviewed the nominees for the Type Np Workgroup that were submitted by each caucus. Steve Barnowe-Meyer, WFFA, excused himself from the meeting room and did not participate in the discussion by TFW Policy on this topic as he had been nominated for participation in the Workgroup. Rachel Aronson shared the list of names and classifications of expertise. The group clarified that Darin Cramer, WFFA, and Jim Peters, NWIFC, would participate in the workgroup as Policy representatives.

Policy then discussed individual nominees and the voting process. Highlights are listed below.

- The group discussed various possibilities of conflicts of interest. It was decided that if Policy representatives felt that a particular candidate represented a conflict of interest, they will note an objection on the voting sheet.
- Howard Haemmerle pointed out that if Policy selects individuals who are from state agencies, DNR would need to create a contract with the agency rather than the individual. This is because DNR cannot create collaborative research agreements with individuals of other state agencies.
- Policy agreed that if Policy representative Steve Barnowe-Meyer were to become a member of the Workgroup, the co-chair of the Workgroup will need to ensure that Steve does not act in a Policy role while participating in the workgroup.
- The Industrial Landowners caucus expressed concern with federal agency representatives participating in the Workgroup.
- Curt expressed a preference to have a mix of consultants from other regions of the country, and individuals who know the local forests and policy.
- Policy discussed the budget for Workgroup compensation. Howard shared that the budget for compensation works out to account for a commitment from Workgroup members of three 8-hour days per month for two years at about \$43 per hour. As of July 11, the charter listed a total sum for compensation of all Workgroup participants of \$200,000 for the biennium. If more money becomes available in the AMP budget to allocate to the Type Np Workgroup, Policy would have to amend the Workgroup charter.
- Mark Hicks offered to reach out to Tim Larkowski, Kalispel Tribe, to see if he is interested in participating in the Workgroup. Policy welcomed the addition to the list.
- Mark Hicks also asked whether the silviculturists were needed for the full length of the process. Terra noted that the Workgroup is responsible for deciding how best to complete the work.

The group reviewed the list of names and removed names of individuals who were not available or who had not been contacted for their availability. Policy also edited the classifications of expertise for each of the candidates. The group then decided to postpone the official voting process until the August meeting so that representatives can gather more information and review the candidates.

Action: Policy representatives will contact Type N Workgroup nominees with the following points:

- Convey expectations of 1.5 years of work, on average 3 days a month, with at least \$20,000 of compensation;

- Confirm nominees' continued interest in participating in the Type N Workgroup; and
- Confirm nominees' correct field of expertise.

Send this information to Triangle by Friday, July 19.

Action: Mark Hicks will reach out to Tim Larkowski for availability to participate in the Type N Workgroup and send his field of expertise and CV to Heather Gibbs and Triangle by Friday, July 19.

Action: Policy representatives will submit their preferred ranking of nominees in a single list (using the voting sheet version 7/12/19) to Triangle by Friday, July 26.

Next Steps – Policy reviewed the monthly workload document and the meeting schedule for 2019. Terra noted that Policy will address the Buffer-Shade findings report at the August meeting. Timing for other items will be updated in the monthly workload document.

Curt Veldhuisen asked Policy to begin looking for nominees for co-chairs from their caucuses for spring 2020.

Next meeting date: The next Policy meeting will occur on Thursday, August 1st, 2019.

The meeting was adjourned at 4:20 p.m.

Attachment 1 – Participants by Caucus at 7/11 Meeting*

Conservation Caucus

*Alec Brown, WEC

Chris Mendoza, Conservation Caucus and CMER Co-Chair

County Caucus

Kendra Smith, Skagit County

*Scott Swanson, WSAC

Industrial Timber Landowner Caucus

*Darin Cramer, WFPA

Doug Hooks, WFPA

Martha Wehling, WFPA

Megan Tuttle, Weyerhaeuser

Joe Monks, Northwest Hardwoods

Small Forest Landowner Caucus

*Steve Barnowe-Meyer, WFFA

Ken Miller, WFFA

State Caucus – DNR

*Marc Engel, DNR

Emily Hernandez, DNR

Marc Ratcliff, DNR

State Caucus – Ecology & WDFW

Mark Hicks, Ecology

*Rich Doenges, Ecology

*Chris Conklin, WDFW

Terra Rentz, WDFW and Co-Chair

Bill Ehinger, Ecology

Tribal Caucus – Westside

*Jim Peters, Northwest Indian Fisheries Commission

Ash Roorbach, Northwest Indian Fisheries Commission

Curt Veldhuisen, Skagit River System Cooperative and Co-Chair

Dave Schuett-Hames, Northwest Indian Fisheries Commission

*caucus representative

Others

Rachel Aronson, Triangle Associates

Annalise Ritter, Triangle Associates

Annie Kilburg, Triangle Associates

Kirsten Weinmeister, Member of the public

July 11, 2019

TO: Doug Hooks and Chris Mendoza, Cooperative Monitoring, Evaluation, and Research Committee (CMER) Co-Chairs

FROM: Curt Veldhuisen and Terra Rentz, Policy Co-Chairs

SUBJECT: ENREP Questions relevant for Policy evaluation

During the development of the FY20/21 Master Project Schedule, Policy found that the ENREP study was projecting a substantial budget increase, which caused concern regarding the fiscal prudence of the project and the likelihood of eventual findings providing relevant information to inform decision-making. Policy requested a full day workshop in May 2019 to understand why costs increased and where to achieve savings. Additionally, at the June 2019 Forest Practices Board Meeting, the Board indicated a desire for Policy and CMER to take a closer look at projects, specifically ENREP, to ensure that cost efficiencies were met.

Policy's role in science and research is to ensure that the information provided through science and research can inform Policy decisions and to ensure a level of fiduciary responsibility over the AMP. More specifically, can the science and research provided inform implementation of the HCP and/or inform a rule change, validation, or creation. Policy recognizes the role of CMER in directing the scientific inquiries and research associated with the Adaptive Management Program (AMP) and is aiming, through this request, to support that role and to lean on CMER to help Policy ensure that science and research is, in fact, providing the kind of information that can inform decision-making and adaptive management.

Policy has identified a number of project elements for possible assessment and is requesting CMER's assistance to help Policy understand the scientific tradeoffs of elimination or modification of certain project elements. Specifically, we have the following questions:

1. Please review the assessment of Project Team regarding the site-review from summer 2019 and provide Policy with CMER's position on the inference ability of the research project as currently sited.
2. Is the study set-up in a way that Policy can infer effects to the whole east side? If not, what are the limitations of inference?
3. How can findings related to the following study factors be used to inform the adaptive management process and/or rule making or rule validation? Are there indicators in the HCP or current rule that would provide a basis for decision making for Policy? What are the tradeoffs to keeping versus removing a study factor?
 - a. Macroinvertebrates
 - b. Sedimentation
 - c. "Orphaned" Np streams
4. Are there ways to answer the questions with a less frequent sampling regime?

Policy would like to discuss CMER's response and a presentation from the Principle Investigators regarding recent site evaluation at the September 2019 Policy Meeting. At that time, Policy will determine if budget reductions should be made.

Attachment 3: Master Project Schedule and Budget for the AMP

	A	B	F	G	H	I	J	K	L	M	N
1	Master Project Schedule and Budget for the Adaptive Management Program										
2	Proposed Adjustment to 20/21 Biennium - 07.11.2019										
3	<i>Approved by the Forest Practices Board 09 May 2019 with Amendments</i>										
4	<i>Modified and Recommended by Policy 11 July 2019; Originally Recommended by Policy 05 April 2019</i>										
5											
6	Expenditure	Source	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
7	<u>Administration and Program Staff</u>										
8	Program Administration (AMPA and Contract Specialist)		261,500	261,500	269,345	269,345	277,425	277,425	285,748	285,748	294,321
9	Administrative Assistant 2 (supports TFW & CMER)		60,000	89,000	91,670	91,670	94,420	94,420	97,253	97,253	100,170
10	Project Support (3.5 Project Managers)		361,700	361,700	372,551	372,551	383,728	383,728	395,239	395,239	407,097
11	CMER Scientists (4 Scientists at NWIFC: Ecologist, Geologist, Riparian, Wetlands)		638,845	597,183	615,098	615,098	633,551	633,551	652,558	652,558	672,135
12	CMER Scientist Eastside (NRS 4)		128,750	128,750	132,613	132,613	136,591	136,591	140,689	140,689	144,909
13	Independent Scientific Peer-Review		67,500	67,500	69,525	69,525	71,611	71,611	73,759	73,759	75,972
14	TFW Policy Committee Facilitation (on-call contract)		30,000	15,000	15,000	15,000	15,450	15,450	15,914	15,914	16,391
16	CMER Conference (Facility, refreshments, programs)		5,000	0	10,000		10,000		10,000		10,000
17	Contingency Fund for Projects		61,849	140,000	100,000		100,000		100,000		100,000
18	Technical Editor (on-call contract)		15,000	0	15,000		15,000	15,000		15,000	15,000
19	AMP Audits -- Performance & Financial		0	0							
20	Type Np Workgroup (Collaborative Research Allowance, Direct Buy, & Enhanced Participation Grants)		200,000	0							
21	AMP Principals Facilitation (Center for Conservation Peacebuilding)		150,000	0							
22	<u>Implementation Phase</u>										
23	Extensive Riparian Status and Trends Monitoring -- Vegetation, Type F/N - Westside (Remote Sensing)	RSAG	15,000	0							
24	CWA_Type N Experimental Buffer treatment Project in Soft Rock Lithology -- (1) Monitoring ends fall 2017, 2-yr post-harvest		20,000	0							
25	Add on_Type N Experimental Buffer Treatment Project in Soft Rock Lithology -- Extended monitoring through 2020 (FY21)		139,000	151,000	0						
26	Type N Experimental Buffer Treatment Project in Hard Rock Lithology -- Temperature Monitoring (Report extended data)	RSAG	124,175	28,884							
27	Type N Experimental Buffer Treatment in Hard Rock Lithologies -- Extended Amphibian (Analysis & Summary Report)	LWAG	51,563	34,848							
28	CWA_Eastside Type N Riparian Effectiveness (ENREP)	TWIG	907,968	723,434	686,719	626,609	366,695	152,267			
29	<u>Field Testing/Pilot Phase</u>										
30	CWA_Westside Type F Riparian Prescription Monitoring	TWIG	125,000	0	35,000	150,000	250,000	150,000	250,000	250,000	40,000
31	<u>Site Selection Phase</u>										
32	CWA_Road Prescription-Scale Effectiveness Monitoring	TWIG	374,500	330,500	403,000	400,500	406,000	291,000	212,000		
33	<u>Study Design Phase</u>										
34	CWA_Unstable Slopes Criteria Evaluation & Development -- Project 2: Object-based Landform Mapping	TWIG	95,000	0							
35	CWA_Unstable Slopes Criteria Evaluation & Development -- Project 3: Shallow Landslide Susceptibility	TWIG	0	10,000	250,000	150,000					
36	CWA_Unstable Slopes Criteria Evaluation & Development -- Project 4: Shallow Landslide Runout	TWIG	0	10,000		90,000					
37	CWA_Unstable Slopes Criteria Evaluation & Development -- Project 5: Management Susceptibility Modeling	TWIG	0	0		10,000	150,000				
38	CWA_Forested Wetlands Effectiveness Study	TWIG	15,000	150,000	232,500	232,500	150,000	150,000	150,000	200,000	200,000
39	Riparian Characteristics and Shade Response	RSAG	10,000	121,445	341,000	330,000	20,000				

40	<u>Scoping Phase</u>										
41	CWA_Wetlands Management Zone Effectiveness Monitoring (Study Design in FY20/21 by CMER Sci)	WetSAG	0	0	100,000	0	360,000	360,000	360,000	360,000	100,000
42	Deep Seated Research Strategy	FPB									
43	Deep Seated Research Strategy -- 4.5 Mapping Objectives	UPSAG	75,000	100,000	100,000	25,000	25,000				
44	Deep Seated Research Strategy -- 4.6 Pilot Classification	UPSAG	50,000	65,000	40,000	25,000	50,000				
45	Deep Seated Research Strategy -- 4.7 Toolkit Development	UPSAG	0	0	20,000	0	0				
46	Deep Seated Research Strategy -- 4.8 Groundwater Modeling	UPSAG	0	0	75,000	50,000	50,000				
47	Deep Seated Research Strategy -- 4.9 Physical Modeling	UPSAG	0	0	0	75,000	50,000				
48	Deep Seated Research Strategy -- 4.10 Landslide Monitoring	UPSAG	0	0	0	25,000	25,000				
49	CWA_Wetlands Intensive Monitoring	WetSAG	0	0	0	0	0	0	50,000	0	0
50	CWA_Amphibians in Intermittent Streams	LWAG	50,000	80,000	250,000	360,000	360,000	360,000			
51	Eastside Timber Harvest Types Evaluation Project (ETHEP)	SAGE	0	0	0	0	0	0			
52	Water Typing Strategy	FPB	65,850	552,456							
53	<u>Approved Resampling</u>										
54	CWA_Road Sub-Basin-Scale Effectiveness Monitoring -- Resample (Re-scoping)	UPSAG	0	0	0	0	0	0	0	75,000	
55	CWA_Watershed Scale Assessment of Cumulative Effects (roads and riparian) -- post Effectiveness Monitoring	RSAG	0	0	0	0	0	0	5,000	50,000	340,000
56	<u>Completed Long-Term Projects (FY18-19)</u>										
57	FPB_LIDAR Based Water Typing Model/Physicals Study Design (combined)	FPB									
58	WFFA Template PI Technical Assessment										
59	AMP Improvement Facilitation (Principal's meeting)										
60	WetSAG_Wetlands Mapping Tool Validation	WetSAG									
61	Riparian Literature Synthesis Project										
62	CWA_LWAG_Type N Experimental Buffer Treatment in Hard Rock Lithology -- Genetics (Response to ISPR Comments)	LWAG									
63	Type N Experimental Buffer Treatment Project in Hard Rock Lithology -- (2) Monitoring into 2019 until references lost										
64	Fish/Habitat Detection using eDNA -- re-scoped to pilot project	ISAG									
65	<u>Completed Short-Term Projects (FY18-19)</u>										
66	RMAP checklist survey										
67	Equipment -- Riparian Characteristics and Shade Study										
68	Scoping -- CWA_WetSAG_Wetlands Management Zone Effectiveness Monitoring										
69	Literature Review -- Forested Wetlands (Updated; WetSAG)										
70	Eastside LiDAR Acquisition (Part 1 & 2)										
71	Pilot Project -- Extensive Riparian Monitoring Implementation										
72											
73	AMP Research Expenses		4,098,200	4,018,200	4,224,021	4,115,411	4,000,471	3,091,043	2,798,159	2,611,159	2,515,994
74	Projected Available Funds for Research		4,098,200	4,018,200	4,018,200	4,018,200	4,018,200	4,018,200	4,018,200	4,018,200	4,018,200
75	Rollover funds from previous FY		0	0	0	(205,821)	0	17,729	0	1,220,041	0
76	Balance at the end of Fiscal Year (accounting for Rollover)		0	0	(205,821)	(303,032)	17,729	944,886	1,220,041	2,627,081	1,502,206
77											
78	REVENUE										
79	GF-S - AMP Carry Forward (i.e. base admin funding)		260,700	260,700	260,700	260,700	260,700	260,700	260,700	260,700	260,700
80	GF-S - AMP Research		1,897,000	1,817,000	1,817,000	1,817,000	1,817,000	1,817,000	1,817,000	1,817,000	1,817,000

	A	B	F	G	H	I	J	K	L	M	N
6	Expenditure	Source	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
81	FFSA - AMP (Business and Occupation Tax surcharge)		5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000	5,677,000
82	Subtotal of Revenue		<u>7,834,700</u>	<u>7,754,700</u>							
83	EXPENSES										
84	TFW Participation Agreements										
85	Tribal Participation Agreements		2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
86	NGO and County Participation Grants		475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500	475,500
87	State Agencies		430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000
88	FFSA DAHP (Dept. Archeology & Historic Preservation)		94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500	94,500
89	FFSA DNR Indirect + unallotted expenditure authority		236,500	236,500	236,500	236,500	236,500	236,500	236,500	236,500	236,500
90	Subtotal of TFW Participation Agreements		<u>3,736,500</u>								
91	PROGRAM TOTALS										
92	Revenue		7,834,700	7,754,700	7,754,700	7,754,700	7,754,700	7,754,700	7,754,700	7,754,700	7,754,700
93	AMP Research Expenses		4,098,200	4,018,200	4,224,021	4,115,411	4,000,471	3,091,043	2,798,159	2,611,159	2,515,994
94	TFW Participation Agreements		3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500	3,736,500
95	Balance at the end of each fiscal year		<u>0</u>	<u>0</u>	<u>(205,821)</u>	<u>(97,211)</u>	<u>17,729</u>	<u>927,157</u>	<u>1,220,041</u>	<u>1,407,041</u>	<u>1,502,206</u>
96	Cumulative Balance at end of Biennium			<u>0</u>		<u>(303,032)</u>		<u>944,886</u>		<u>2,627,081</u>	
97											
98											
99	BELOW THE LINE SHORT TERM -- PRIORITIZED 1/3/2019										
100											
101	Chehalis LiDAR Acquisition										
102	BELOW THE LINE LONG TERM										
103	Extended Monitoring										
104	Add On_Type N Experimental Buffer Treatment Project in Hard Rock Lithology--Extended Monitoring: AMPHIBIANS - 2 years (Moved above for Discussion)	LWAG			111,000	262,000	80,000				
105	Add on_Type N Experimental Buffer Treatment Project - Soft Rock Lithology--Extended monitoring through 2024, FY2025				100,000	150,000	150,000	100,000	50,000		
106	Projects Needing Study Design										
107	Extensive Riparian Status and Trends Monitoring -- Eastside Pilot	RSAG	0	200,000							
108	Extensive Riparian Status and Trends Monitoring -- Study Design	RSAG			75,000						
109	Extensive Riparian Status and Trends Monitoring -- Statewide Study	RSAG				200,000	200,000	200,000	200,000	200,000	200,000
110	Projects Needing Scoping										
111	Van Dykes Salamander	LWAG	262,756	360,000	360,000	360,000	315,538				
112	Literature Synthesis: Default Physical Criteria Assessment Project	ISAG									
113											