Bill Bradbury Chair Oregon

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> Pat Smith Montana

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Phil Rockefeller Washington

March, 4 2014

DECISION MEMORANDUM

TO: Fish and Wildlife Committee

FROM: Nancy Leonard, Peter Paquet, and Tony Grover

SUBJECT: Fish Data Product Update

PROPOSED ACTION:

As stated in the March 2013 Council's decision to have this project continue in out-years to provide needed services, staff recommends continuing the Fish Data Product project to complete Objective 2 and to continue providing services described in Objective 3.

SIGNIFICANCE:

The Council recognized that with the dissolution of the Columbia Basin Fish and Wildlife Foundation (CBFWF) there was a need to maintain, with modifications, the information compiled about the Fish and Wildlife Program's (Program) focal species that informs status and trend graphics displayed on the Program's Dashboard and supports the Program's High Level Indicators (HLI) graphics. The Fish Data Product project fulfills this need in a cost-effective and efficient manner given the current status of data availability. Maintaining the Fish Data Product will ensure that the data provided on the Council's Dashboard is updated and relevant to the Program's understanding of the status of its focal species and their habitat. This is an important first step for informing the adaptive management of the Program's mitigation, protection, and enhancement efforts.

BUDGETARY/ECONOMIC IMPACTS

Not to exceed \$85,000 per year (includes overhead).

This proposed budget reflects a \$165,000 annual <u>reduction</u> from the 2013 recommended funding.

BACKGROUND

The Council recognized that with the dissolution of the CBFWF there was a need to maintain, with modifications, the information compiled about the Program's focal species that informs status and trend graphics displayed on the Program's Dashboard and that supports the Program's HLI graphics.

This gap was identified through the PERC process and resulted in identification of select technical services that would be required in out-years to ensure the integrity of information needed for the Program. The Council recommended on March 1, 2013 (see attachment 1 for Decision letter) that Bonneville fund the first year of the Fish Data Product to address this gap, by specifically focusing on three objectives.

The first year of the Fish Data Product has made great progress on the three objectives. An update for each of these objectives is provided below:

Status of Objective 1:

- During 2013-2014, the pertinent information was identified, migrated, secured, rebranded, and made accessible through the Program's Dashboards. The information secured from the CBFWF's status of the resources database is accessed from the Council's <u>Dashboard</u> homepage by either selecting a species or a subbasin to view the status of its aquatic species: http://www.nwcouncil.org/ext/dashboard/
 - o This objective is completed.

Status of Objective 2:

- During 2013-2014, feasibility of automating data flow from the regional databases such as StreamNet was assessed through discussions.
 Implemented will occur during the 2014-2016 work-plan.
- During 2013-2014, information for populating a Pacific lamprey and white sturgeon Fish and Wildlife Indicators (FWI) that support the Council's HLIs for these species were identified, vetted with the appropriate federal, state, and tribal fish managers. The draft HLI graphics, and supporting indicator graphics, are posted under the <u>Multi-species</u> section of the HLI report (http://www.nwcouncil.org/ext/hli/species.php?q=multi-species) and on the species section of the <u>Dashboard</u> (http://www.nwcouncil.org/ext/dashboard/).
- By the end of April 2014, the draft FWI and HLI graphics for bull trout will be completed.
- Next Steps:
 - During 2014-2016, the graphical information gap will be addressed for kokanee, rainbow trout, cutthroat trout, and unrepresented salmon and steelhead populations on the Program's Dashboard and HLI report. Similarly to the lamprey and sturgeon approach, multiple graphics (e.g. population- scale) would be developed for the Dashboard that would support a high level graphic for the HLI report that condenses the information into one graphic (e.g., species, ESU).
 - <u>During 2014 and out-years</u>, we will continue to cross-verify the data needs to inform the Program's objectives, targets, indicators, and wildlife advisory committee information needs to ensure that the

appropriate information is compiled and, as needed, graphically displayed to inform the adaptive management of the Program.

Status of Objective 3:

- During 2013-2014, Resident Fish HLIs graphics were connected to supporting Dashboard's FWIs graphics.
- Next Steps:
 - <u>During 2014-2016</u>, we will automate data flow from the CBfish.org database to the Program's HLIs on Council Actions.
 - Ouring 2014 and out-years, further automation will be implemented as feasible. This automation includes further connecting the Dashboard graphical database to the HLI report so that information updates on the Dashboard would be reflected on the HLI report, as well as automating data flow between data providers (e.g. StreamNet) and the Council's Dashboards and HLI report. Depending on the CA progress, we expect some level of automation will be initiated during 2014-2016 between StreamNet and the appropriate Dashboard and HLI graphics.

Staff recognizes that there may be some minimal information needs associated with the Council's Wildlife Advisory Committee, chartered in 2013, that could easily be addressed by this project. The WAC needs could include meeting summaries and updated information on the use of the Habitat Evaluation Procedure (HEP) and methods for addressing operational losses.

ANALYSIS

The above status update aligns with the Council's 2013 expectation that Objective 1 would be completed, Objective 2 would be partially completed, and Objective 3 is perceived as ongoing. Objective 2 may not be as far along as initially desired and reflects the decision of the Council to sequence the work and not attempt to finish everything within a 12-month time period.

As indicated in the Council's 2013 recommendation to Bonneville, it is the expectation of the Council that for post-March 2014, a reduction in funds would be allocated to the Fish Data Product contract to continue with Objectives 2 and 3.

Staff recommends that based on the ongoing and future work to be addressed during 2014-2016, and Bonneville's budget limitation, that the Council considers recommending that:

- Bonneville funds a 2-year contract that would address the needs described above for the 2014-2016 time period.
- Bonneville considers using the current service providers, who are now affiliated with <u>QW Consulting LLC</u>, as this will allow for efficiencies given their experience and knowledge with this work. This recommendation is based on staff's understanding that the current providers can do this work at the least cost, have the knowledge to deliver an acceptable product in an appropriate time-frame, and have demonstrated their ability to perform this work.

- The budget will not exceed \$85,000 per year, which represents a \$165,000 annual reduction from the 2013 contract.
- The 2-year work-plan will cover updating the information used by existing
 Dashboard and HLI graphics; development of graphics identified in the next steps
 for Objective 2 above; and, as described under objective 3, automating flow of
 information between the <u>CBFISH</u> database and the Program's Council Action HLIs,
 and other automation as feasible.
- This project will, as feasible, address any additional information needs identified by the new program and by the Wildlife Advisory Committee (WAC).
- The term 'wildlife' be added to the name of this project to accurate reflect its scope.

The work to be funded post 2016 would be discussed with the Council prior to the end of this 2014-2016 contract.

ALTERNATIVES

No equally cost-effective and efficient alternative is currently available given the status of data availability of the need information. If the Fish Data Project is not funded at this proposed reduced budget level, the status and trend information for the Council's dashboard indicator graphics supporting HLIs will become obsolete.

ATTACHMENTS

Attachment 1: Council decision letter sent to Bonneville regarding recommendation to Bonneville for the Fish Data Product's first year of implementation.

Bill Bradbury Chair Oregon

Henry Lorenzen Oregon

W. Bill Booth

James A. Yost



Bruce A. Measure Vice-Chair

Montana

Pat Smith Montana

Tom Karier Washington

Phil Rockefeller Washington

March 1, 2013

Mr. William C. Maslen Manager, Fish and Wildlife Division Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208

Dear Mr. Maslen:

The purpose of this letter is to advise you of the Council's decision on technical services work plan for fish data products. This recommendation was made by the Council at its meeting on February 12, 2012.

In addition, a purpose of this letter is to inform other interested parties of the status of this Council action. The following is a summary of the action taken by the Council at the meeting in February (please see page 4 for the specific decision language).

Program Coordination and Facilitation Services provided through the Columbia Basin Fish and Wildlife Foundation (Foundation), Project #1989-062-01

Consistent with the <u>July 2012</u> Council's Regional Coordination recommendation number three, and the Council's <u>November 2012</u> recommendation for the Status of the Resource (status of the resources; included below), the Steering Committee (SC) met to discuss Council and Bonneville reporting needs to inform a technical services work plan. Specifically, the SC considered the below recommendation in drafting the work plan:

- A Council and Bonneville staff steering committee should develop a one-year (2013) scope of work for technical services to support reporting needs. The scope of work will be based on identified gaps that must be filled resulting from the absence of the status of the resources (work, products, technical services, or reports).
- No later than the January 2013 Council meeting, the SC will recommend the most economic and efficient means to satisfy the scope of work.

The SC discussed current reliance on the status of the resources information and services and to assess whether a gap would arise with the termination of the status of the resources that would negatively impact Council and Bonneville reporting needs. The SC identified gaps that would result from the absence of the status of the resources that would create hardships on the Council's and Bonneville's reporting needs. These gaps include, but are not limited to, access to resident fish data and non-ESA anadromous fish data that are synthesized to match the Program's structure of subbasin, province, and basin scales.

The main function of the technical services work plan is to compile, filter, extract, organize and format the information needed for Council and Bonneville reporting needs (Figure 1). The accessibility of these data vary depending on whether these are currently accessible as raw field data (e.g., redd counts) or as calculated estimates (e.g., population abundance), and whether this information is in a computer readable format (e.g., StreamNet) that is easily accessed to produce graphics, or a non-computer readable format (e.g., reports) that requires conversion to a computer readable format (e.g., excel spreadsheet).



Figure 1: The role of the technical services is to ensure that the information needed for Council's and Bonneville's reporting needs are identified, located, organized, and available in the required reporting format.

The SC has drafted the following technical services work plan to address the Council's and Bonneville's reporting needs. These reporting needs include graphics for the Council's reports to Congress, to Governors, HLI, dashboards, and Fish and Wildlife Program, and graphics for Bonneville's biological opinion reports and reporting tools such as CBFish.org website. The SC

anticipates some objectives will terminate at the end of the one-year contract on 31 March 2014. However, select technical services will be required in out-years to ensure the integrity of information for Bonneville and Council reports.

To ensure continuity, integrity, and the high quality of work produced thus far that have and continue to inform the data needs described below, the SC recommend that the current providers of this support continue providing this service to the Council and Bonneville. These providers have experience providing these services, established relationships with data providers, an understanding of the Program's information needs and structure, as well as having valuable institutional knowledge that make them the most efficient and effective in gathering, managing, and synthesizing this type of information.

All tasks undertaken as part of this technical services work plan will be completed per guidance provided by the SC. Implementation of these tasks will require the technical services providers to work closely with the SC to ensure a seamless transition and maintenance of information from the status of the resources website and data files to address these Council and Bonneville information needs.

The technical services providers should strive to improve the flow of data between information sources and reports as regional processes (e.g., Coordinated Assessment process) and other changes (e.g., improved data management) improve the ability to access data and derived indicators in the requested format for Council and Bonneville reporting needs. This may involve relying on web-services to access data or other methods to ensure automated data synchronization for these reporting needs. Council and Bonneville should encourage that data and derived indicators be in machine readable format, not static documents such as PDF or Word, to assure accessibility for informing reporting needs.

Bonneville should initiate this technical services work plan contract on April 1, 2013. Bonneville will determine how best to address the other technical services that have been performed by this project sponsor, specifically services related to the Coordinated Assessment of Anadromous Salmonids and Fish Screen Oversight Committee.

Prioritization Guidelines

The SC will meet to discuss task prioritization if the cost exceeds the expected budget for the work plan. Prioritization will be based on:

- 1. Common needs to both Council and Bonneville being addressed first.
- 2. Council reporting needs will represent at least 50-percent of the tasks assigned.
- 3. Not allowing individual needs of the Council or the individual needs of Bonneville to dominate allocation of funds to the detriment of the others' individual needs.
- 4. Keeping in mind that the Program addresses all anadromous fish (ESA and non-ESA listed), resident fish, wildlife and their habitat, and thus the reporting needs related to all of these subjects will be met. The actual amount of efforts directed to these three subject matters will vary depending on current needs, but the SC needs to keep in mind that reports produced for the Council must have a balanced representation of these topics.

Proposed Work Plan to Support Council and Bonneville Reporting April 2013-March 2014

Objective 1: Identify and migrate the pertinent content of the status of the resources website for Council and Bonneville reporting needs. Rebrand graphics and data portals to merge content seamlessly for Council and Bonneville use.

End-date: completed at the end of this one-year contract, 31 March 2014

Objective 2: Finalize identification of information to populate the FWI supporting the Council's HLIs, Council's reports to Congress and to the Governors, indicator graphics for the CBFish.org website, and Bonneville's reports. Assist Council and Bonneville staff in setting up more efficient data sharing with regional data portal (e.g., CBFish.org) and data delivery systems (e.g., StreamNet) to reduce effort in accessing and updating this information.

End-date: substantially completed at the end of this one-year contract, 31 March 2014

Objective 3: Continue to incorporate automated access to information (data, indicators, etc.) from regional databases and other data sources to enhance the efficiency of informing Council and Bonneville reporting needs and to ensure the information included in reports is current and relevant. Incorporate modifications/enhancements in information portrayed (what data, indicators, graphic type, etc) as requested for addressing Council and Bonneville reporting needs. Produce graphics and maps as requested for Council and Bonneville reporting needs.

End-date: maintained in out-years to ensure integrity of the Council and Bonneville reports

See Attachment 1 for description of potential tasks that would be needed during the 2013-2014 contract to meet the above three objectives.

The SC estimates that the funds required to complete these technical services would not exceed \$250,000 for the 1 April 2013 to 31 March 2014 contract period (Figure 2). For post-March 2014, we anticipate a reduction in funds in response to the completion of objective 1, and with substantial completion of objective 2. Advancements in accessibility of computer-readable, calculated estimates that would decrease the work load needed to create Council and Bonneville reports will also contribute to this decrease.

Based on the above information and the council staff presentation the Council recommends that Bonneville fund the technical services work plan for fish data products as described by staff, in an amount not to exceed \$250,000 for the period April 1, 2013 to March 31, 2014.

Sincerely,

Tony Grover Director, Fish and Wildlife Division

cc: Marcy Foster, BPA, Peter Lofy, BPA, Paul Krueger, BPA, Byran Mercier, BPA Greg Dondlinger, BPA, Dave Roberts, BPA, Jason Sweet, BPA, David Byrnes, BPA, Russell Scranton, BPA

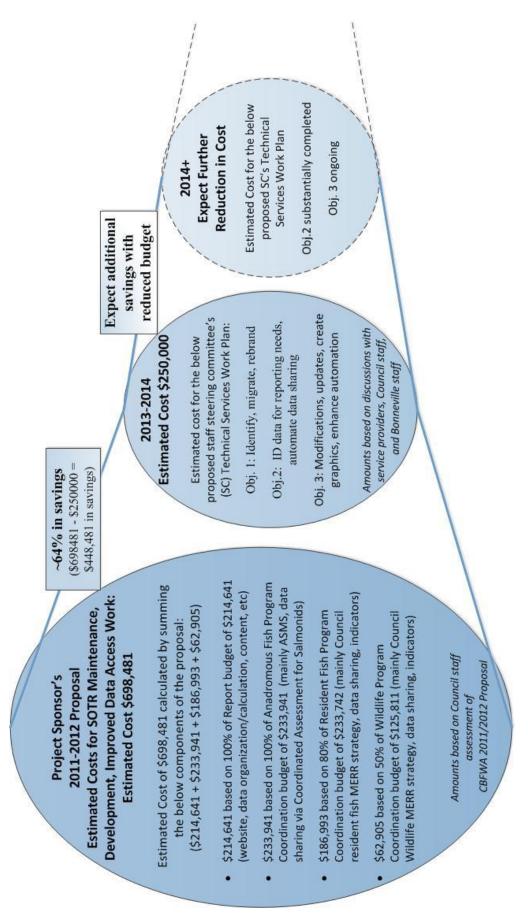


Figure 2: Estimated budget for the proposed staff steering committee's technical services work plan. The largest bubble on the left shows reduced work plan, which combined with more efficient data sharing over-time, would result in further reductions in costs in 2014 and the estimated cost as proposed by the project sponsors in their 2011-2012 proposal form. The second bubble from the left is the staff originally proposed by the project sponsors (resulting in about 64 percent in savings). The third bubble from the left shows a further steering committee's estimated cost for the proposed technical service 2013-2014 work plan that is reduced and more focused than out-years

Attachment 1: 2013-2014 Suggested Tasks for Bonneville to Consider when Writing the 2013-2014 Contract to Address the Technical Services Work Plan Objectives 1, 2, and 3.

- 1.1 Evaluate the status of the resources website/databases to identify information to preserve and integrate for Council and Bonneville reporting needs.
- 1.2 Write code to transfer and load the information needed for reporting needs.
- 1.3 Revise existing graphics to align with Council and Bonneville standards / desires. This would include removing CBFWA and status of the resources references and updating images as needed.
- 1.4 Determine best locations to "house" the information that informs the Council's and Bonneville's graphics.
- 1.5 Assist with the install and/or configuration of software, set-up of backups, and assist with URL modifications to inform Council and Bonneville reporting needs.
- 1.6 Assist with the maintenance of the "backend" data administration site that allows non-technical personnel to load information that informs graphics for Council and Bonneville reporting needs.
- 2.1 Work with Council and Bonneville staff to develop FWI that support Council's HLI and other indicators needed by Bonneville. This will include assisting Council and Bonneville staffs in identifying and compiling the information needed to inform these graphics.
- 2.2 Work with fish and wildlife managers and other data providers to ensure data are used and interpreted correctly in Council and Bonneville reports (e.g. Council HLI, Council report to Congress, Bonneville's reports for FCRPS BiOp).
- 2.3 Work with StreamNet and CBFish.org to ensure relevant data are available and improve automated access through web-services or other tools to minimize work required to modify the information that supports Council and Bonneville reporting needs.
- 3.1 Work with Council and Bonneville staff to identify information not currently accessed that is needed for other Council and Bonneville reporting needs.
- 3.2 Provide the information and synthesized data in the structure required by Council (program reporting scales) and Bonneville (e.g. ESU scale).
- 3.3 Work with Council and Bonneville staff to determine the illustrations needed, synthesize the information, and develop graphics as requested.
- 3.4 Work with fish and wildlife managers and other data providers to ensure data are used and interpreted correctly in Council and Bonneville reports.
- 3.5 Perform monthly updates of biological information (e.g., populations, harvest, hatchery etc.)
- 3.6 Provide expertise with graphics (maps, graphs, charts, figures, flash, etc.), website, database development, Microsoft windows server, networking, PC support, project management, and coordination.
- 3.7 Continue working with information providers to indicate how (level of synthesis, grouping, electronic format) the information needed for Council and Bonneville reporting needs could be more easily provided. For example, as the technical services staff contact entities for information, they should discuss how access to this information could be improved, such as through web-services and regional databases. To achieve this improvement, Council and Bonneville will need to encourage that data and derived indicators be increasingly made available in a machine-readable format, and not in static documents.