

Funding Committee Notes
June 15, 2006

The Funding Committee met on June 15th, 2006 to discuss and approve funding proposals for the \$250,000 legislative appropriation. This funding is part of Ecology's appropriation in the capital budget. Ecology intends to provide a grant to King County for watershed planning. Eligible expenses include capital projects and/or studies or surveys that facilitate watershed planning and instream flow achievement. The Funding Committee is composed of the leads for the technical committees and the Executive Committee (and any member of the coordinating committee who wished to participate).

Five of the technical committees presented funding proposals (Reclaimed water, climate change, small water systems, tributary streamflows, and source exchange committees). The committee leads had previously met to discuss the various proposals. The proposals have gone through numerous iterations and review by the individual committees.

Ecology will be working with King County on the language of the grant. Before any funds are distributed, Ecology will need to see enough specificity on the activities being funded to assure that deliverables will be completed on time and on budget. The descriptions need to be linked to the watershed planning effort and indicate how the information being generated will be used in the future. **Each committee lead shall affirm the scope, deliverables, and cost no later than June 30, 2006.** Each committee needs to work out the details of their expenditures, including the details of any RFPs or sole source contracting, which must meet the state and county requirements for contracting.

The committee approved several projects totaling \$183,500 to begin as soon as the grant can be finalized (and the details of the expenditure finalized). It is estimated that the details of the grant will be finalized within two months. The committee tentatively approved concepts for the remainder of the funding, with more detailed proposals to be presented to the funding committee no later than October 1st. In addition, the committee approved approximately 10% of the grant to cover the cost of administering the grant, with the note that this amount shall be flexible so that the total expenditures come in under the grant amount. The committee did not fund two of the three proposals put forward by the Reclaimed water committee, but indicated that they shouldn't be viewed as off-the-table, just not appropriate for funding from this source.

In addition to the legislative appropriation, the committee discussed offers from other entities to contribute funding for one or more of the projects identified. Dan Silver will be working with Seattle, CWA, Ecology and others to finalize the other contributions.

King County and Ecology will route the draft contract to the technical committee leads, staff, Dan and Kaleen for feedback prior to finalizing. The attached matrix shows the proposals approved by the funding committee in the two categories: 1) approved proposals and 2) placeholders for more detailed proposals. Specific points of discussion are noted on the matrix.

**Funding Proposals reviewed and approved by the Funding Committee
June 15, 2006**

The following matrix categorizes all funding requests approved by the Funding Committee into two categories:

- Funding proposals approved at the June 15th Funding Committee meeting
- Funding proposals needing more specific proposals by the technical committee no later than October 1st

1. Funding proposals approved

Technical Committee	Description	Deliverables	Timeframe	Approved amount
Reclaimed Water Committee	Learn the WateReuse Foundation's economic framework tool with Dr. Raucher's guidance, adapt it as needed for use in any King County watershed, and apply the framework to local test cases.	Contract with Dr. Raucher for his consultation on the economic framework tool. Including: <ul style="list-style-type: none"> • 2 full-day workshops in Seattle • Consultation to committee between workshops as test cases are developed • A technical memorandum summarizing the workshops and modifications to the economic framework analysis tool • Recommendations for subsequent data collection to improve usefulness of the tool. 	Workshop 1: late August Workshop 2: early October.	\$43,430. Seattle indicated that it would be willing to contribute additional funds should more detail be warranted. Seattle will confirm its commitment in a note.

Technical Committee	Description	Deliverables	Timeframe	Approved amount
Climate Change Committee	<p>To develop a comprehensive evaluation of the impacts of climate change on regional water resources. This evaluation would be based upon a consistent methodology applied to the region as a whole. This effort will have three primary tasks.</p> <p>Task 1 will develop a database of climate variables to represent a range of projected climate change conditions. Three periods in the future will be investigated: 2025, 2050, and 2075, and possibly 2100.</p> <p>Task 2 will translate these forecasted climate variables into streamflows at selected sites within the WRIA watersheds. Of highest priority is the estimation of inflows into the reservoirs that currently serve (or are anticipated to serve) as major water supplies.</p> <p>Task 3 will establish a framework for estimating the impacts that climate change will have on municipal water demand and water supply.</p>	<p>Task 1</p> <ul style="list-style-type: none"> • Technical memorandum documenting the methods used, key assumptions, QA/QC efforts and results. • Database of climate variables for defined scenarios and future years for specific sites. <p>Task 2 –</p> <ul style="list-style-type: none"> • Technical memorandum - for each portion of the WRIAs, documenting the methods used, key assumptions, model calibration and validation, QA/QC efforts and results. • For each of the climate change scenarios, database of projected streamflows into local reservoirs. • For each of the climate change scenarios, database of projected streamflows associated with environmental flows or other operational components. <p>Task 3</p> <ul style="list-style-type: none"> • Framework for estimating potential future climate change impacts on municipal water demand and supply. • Support to Municipal Water Demand Forecast and Water Supply Assessment Advisory Committees. 	<p>The timetable for work will be a function of the work plan. It is anticipated that the work will be staged to address the highest priorities first.</p>	<p>Funding for this proposal will be a joint effort.</p> <p>Dan Silver will be working with Seattle, CWA, and others to firm up the funding to cover the estimated cost of \$120,065.00. There could be an additional \$17,500 needed for the proposal if the committee agrees to extend the analysis to year 2100).</p> <p>The committee approved up to \$10,000 as necessary from the Ecology grant to contribute to this proposal.</p>

Technical Committee	Description	Deliverables	Timeframe	Approved amount
Tributary Stream Flow Committee	<p>Assess the potential to improve instream flow from seasonal pausing of groundwater extraction from wells identified by utilities or owners as candidates for source exchange/substitution. This effort has 5 main tasks:</p> <p><u>Task 1:</u> Compile and integrate recent studies and reports relating to effects to stream flows from resting or pausing groundwater extraction.</p> <p><u>Task 2:</u> Identify site-specific characteristics important in quantifying the magnitude, timing, and distribution of stream flow impacts from groundwater extraction. Characterize select wells in WRIAs 8 and 9 identified by owners of water supply wells interested in having their wells evaluated for source substitution or source exchange purposes.</p> <p><u>Task 3:</u> Modify the USGS steady-state groundwater model of Puget Sound lowland aquifer systems so that it can be used to simulate time-varying effects of groundwater extraction.</p>	<p>Task 1: Technical memorandum or report that summarizes recent studies relate to benefits derived from resting or pausing groundwater extraction.</p> <p>Task 2 Description of candidate groundwater wells with relevant characteristics that relate to potential benefits from seasonal pausing or resting.</p> <p>Task 3: 1. Computer code used for three-dimensional, transient simulations. 2. Technical memorandum or report describing computer simulations used to identify well characteristics and hydrogeologic conditions necessary to obtain significant flow improvements from seasonal resting.</p>	8 months total for all tasks	<p>\$50,000.</p> <p>The funding committee added some funds to the committee's request to accommodate a peer review process.</p>

	<p>Task 4: Combine the results of the computer simulations in Task 3 with the well characterization data in Task 2 to evaluate potential improvements in stream flow through seasonal pausing of specific wells.</p> <p>Task 5: Complete a site-specific analysis in collaboration with a volunteer owner of a water supply well affecting a priority stream and compare results to general analysis in Task 4.</p> <p>Task 6. Peer Review</p>	<p>Task 4</p> <p>1. Evaluation of potential opportunities for improving in-stream flow conditions through seasonal pausing of groundwater extraction.</p> <p>2. Technical memorandum or report describing methods and results used to quantify potential impacts.</p> <p>Task 5</p> <p>1. Technical memorandum describing site-specific analysis and comparison with more generic analysis completed under Task 4.</p> <p>Task 6. Final document incorporating peer review.</p>		
Source Exchange Committee	<p>Contracting with expertise (economist and engineer) to provide analysis on several source exchange issues. The consultant will directly take on the “who pays” issue as well as doing a perspectives analysis that looks at who benefits and who should pay for source exchanges. This work would include searching the literature or contacting other utilities in other areas to see how they have tackled the issue.</p>	<p>The results of this work would be considered by the Committee so that some recommendations could be made and included in the Committee’s final report.</p>	fall sometime	\$40,000

Technical Committee	Description	Deliverables	Timeframe	Approved Amount
Small Water Systems Committee	<p>To effectively evaluate the potential problems and issues associated with the work of this committee, there exists a demonstrated need to gather and analyze data that in some cases exists but is not synthesized, compiled or mapped on Small Group A & B water systems and individual wells for domestic and other uses.</p> <p>Task 1 Evaluation of the creation of/water use by exempt wells in King County through additional resources provided to Seattle King County Public Health. This is through a compilation and refinement of data from the Group B and private well database of SKCPH, and limited evaluation on the water use by Group B water systems based on number of connections, and reporting of water use by select Group B water system operator.</p>	<p>Data analysis summary reports, maps, and tools generated.</p> <p>Task 1 Summary Report on water use data and Group Bs; *Map layer for Group Bs updated, and private well mapping to extend limiting funding allows)</p>	1-3 months	Task 1 \$20,000

	<p>Task 2 Additional resources for King County staff to map recent (past five years) start-cards and well logs to on exempt wells, including irrigation wells; could add other existing exempt well databases as resources allow</p> <p>Task 4 Contract with consultant to provide support for Committee report. Includes writing, graphics, production to supplement KC staff time already allocated to report development</p>	<p>Task 2 Maps showing locations of such wells, particularly in water utility service areas and near streams; any trend analysis from the collection of these types of wells on their creation over time, and specific location.</p> <p>Task 4 A Report</p>	<p>1-3 months</p> <p>By December 2006</p>	<p>Task 2 \$10,000</p> <p>Task 4 \$10,000</p>
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2. Funding proposal placeholders for future work and decisions after more detail is submitted no later than October 1st

Technical Committee	Description	Deliverables	Timeframe	Rough Cost
Source Exchange Committee	This proposal would make funds available to willing participants in a source exchange pilot project to help get the implementation of that project started. The money could be used to work out the legal, financial, and/or managerial issues that would then be documented for use by participants in other projects.	A pilot project	After the work of the committee is completed. Early 2007	\$35,000
Small Water Systems Committee	Task 3 Purchase some water meters and gages for a pilot project to voluntarily gather data on exempt and individual well usage and compile that data.	Task 3 Individual well and aggregate water use data that could inform discussions on usage by exempt wells	Initiated in fall 2006 and continuing for a couple of years.	\$10,000