

**Utah Lake Water Quality Study
Steering Committee Call #5
Call Summary
June 4, 2020**

This document includes a list of future meetings, action items, and a brief summary of the discussions. Please review the action item list for tasks assigned to you and/or the Steering Committee in general. A list of attendees can be found at the end of the document.

Upcoming Meeting/Call	When & Where	Suggested Agenda Items
SC Call #6	July, TBD	○ Revisit management goals table
SC Call #7	July, TBD	○ Seek approval of selected research proposals (and endorse proposed candidates for other RFPs)

I. Action Items

Meeting Summaries	Who	Due Date	Date Completed
1. Share draft Meeting Summary	Facilitation Team	June 9	June 9
2. Review and share comments on summary	SC members	June 16	
3. Finalize summary and post to Dropbox	Facilitation Team	June 17	
Littoral Sediment RFP	Who	Due Date	Date Completed
4. Finalize the Littoral Sediment RFP (as approved by SC) – incorporate comments from SC into final version	Tetra Tech Team	June 9	June 9
5. Release final Littoral Sediment RFP	UDWQ	June 30	
6. Describe the SC conversation and comments regarding the littoral sediments RFP to the SP	Tetra Tech Team	TBD	
7. Update SC on RFP responses and process for review (or provide recommended bidder for SC approval)	UDWQ	TBD	

C, N, P Budget Work Plan	Who	Due Date	Date Completed
8. Finalize the C, N, P Budget Work Plan (incorporating SC comments)	Tetra Tech Team	June 19	
9. Describe the SC conversation and comments regarding the CNP work plan to the SP	Tetra Tech Team	TBD	
10. Update SC on CNP Budget progress	Tetra Tech Team	TBD	
Additional Research	Who	Due Date	Date Completed
11. Determine when to include updates on the WFWQC atmospheric deposition monitoring project and Timpanogos SSD Utah Lake study into future SC agendas	Co-Chairs	TBD	
12. Reach out to Theron Miller, WFWQC, to present on atmospheric deposition monitoring project to the SC (pending #12)	Facilitation Team	TBD	
13. Reach out to Jeff DenBleyker, Jacobs, to present on TSSD Utah Lake study to the SP and, separately, the SC (pending #12)	Facilitation Team	TBD	
SP Approach to Engaging with Research	Who	Due Date	Date Completed
14. Convey comments from Jay Olsen to the Science Panel	Mitch Hogsett	TBD	
Miscellaneous	Who	Due Date	Date Completed
15. Follow up with David Richards on his public comment to gather the breadth of literature and information and data referenced (and share update with SC)	DWQ with Tetra Tech Team	TBD	

II. Decisions/Approvals

This section provides an overview of decisions made by the Steering Committee during the call; related key discussion points can be found below in the document.

1. Approval to move forward with the littoral sediments RFP with modifications as noted by SC
Decision: Support of 12 of 15 SC members on the call (NOTE: Dennis Shiozawa, Academic Seat, abstained; no response was received from Garrett Smith, Recreation Seat, when decision was made; and Jesse Stewart, Ag/Water Rights/Water Users seat, was not on the call when decision was made) – CONSENSUS APPROVAL
2. Approval to move forward with the C, N, P work plan with consideration of SC comments
Decision: Support of 13 of 15 SC members who participated on the call (NOTE: no response was received from Garrett Smith, Recreation Seat, or Jesse Stewart, Ag/Water Rights/Water Users seat, when decision was made) – CONSENSUS APPROVAL
3. Agreement by Science Panel on the “reasonableness” of document describing the approach the Science Panel takes to engaging on research opportunities and share SC comments with SP members
Decision: Support of 13 of 15 SC members who participated on the call (NOTE: no response was received from Garrett Smith, Recreation Seat, or Jesse Stewart, Ag/Water Rights/Water Users seat, when decision was made) – CONSENSUS AGREEMENT

III. Meeting Recording

<http://resolv.adobeconnect.com/p6vhfpbixu1m/>

Please use the video scroll bar along the bottom of the recording window to find the appropriate time in the webinar recording for the session (bullet list below) you would like to watch. There are bookmarks in the ‘Events Index’ on the left side of the screen identifying each session.

- Welcome and Agenda Review [0:00:00]
- Strategic Research Plan Update [0:08:23]
- Littoral Sediment RFP [0:20:49]
- C, N, and P Budgets Work Plan [0:44:30]
- SP Engagement: Research to Address Initial Charge [1:19:10]
- Public Involvement [1:36:08]
- Updates on Other Science Panel-Related Activities [1:38:57]
- Wrap Up [1:53:06]

IV. Key Discussion Points

Littoral Sediment RFP:

- Include request for proposers to present how they will extrapolate results of littoral sediment specific cores based on lake-wide littoral sediment composition (e.g., estimate percentage of the lake covered by different substrates).

- Include request for proposers to look at all fractions of nutrients (e.g., total phosphorus/particulate phosphorus, dissolved phosphorus/bioavailable phosphorus).

C, N, P Budgets Work Plan:

- Make sure to look at CNP components across the entirety of the lake, especially Provo Bay, to identify any spatial variability. Identify spatial gaps in information for future study.

Science Panel Engagement Regarding Research to Address Initial Charge:

- A member of the Steering Committee stated that the Science Panel's approach should not prohibit evaluating research projects that were conducted through appropriate methodologies from being considered.

Update on other Science Panel Related Activities:

- Several Steering Committee members expressed interest in future presentations from the WFWQC and TSSD regarding their respective research projects.

V. Public Comment

The following public comment was submitted, in the Adobe Connect chat box, by David Richards, Oreo Helix Ecological:

1. WFWQC hopefully will be sonar mapping UL starting in Provo Bay, then Goshen Bay later this summer/early autumn. Main part of the lake next year. We just finished sonar mapping State Canal and had very good resolution separating silt from clay from sand from aquatic vegetation, as well as tires and cement blocks and Russian Olive branches.
2. EPA just came up with a handful of simple nutrient criteria metrics for lakes and reservoirs in U.S. One of their basic metrics is change in zooplankton biomass/change in phytoplankton biomass which WFWQC has already included in our preliminary MIBI for UL.
3. Calcite-P binding to mollusk shells can be tied up for centuries or much longer. As you all are well aware UL sediment/water column interactions is/were dominated by mollusks. Millions of tons of C, P, and Ca semi-permanently removed from actively interacting within the system.

VI. Participation

Members of the Steering Committee:

- Scott Bird, Utah County Stormwater Association – Stormwater
- Craig Bostock, Utah County Health Department – Public Health [Alternate]
- Gary Calder, Provo City – Municipal
- Eric Ellis, Utah Lake Commission – Co-Chair
- Erica Gaddis, Utah Division of Water Quality – Co-Chair
- Heidi Hoven, National Audubon Society – Conservation and Environment
- Christopher Keleher, UDNR – Rec, Fishing, Sovereign Lands
- Rich Mickelson, Timpanogos Special Service District – POTW
- Jay Olsen, Utah Department of Agriculture and Food – Agriculture
- Dennis Shiozawa, Brigham Young University – Academia
- Garrett Smith, Utah Water Ski Club – Recreation
- Jesse Stewart, Utah Lake Water Users Association – Ag/Water Rights/Water Users

- George Weekley, U.S. Fish and Wildlife Service – Fish and Wildlife
- Neal Winterton, City of Orem – Municipal
- Gerard Yates, Central Utah Water Conservancy District – Water Management

Alternate Members of the Steering Committee:

- David Barlow, Timpanogos Special Service District – POTW
- Dave Norman, Lehi City – Municipal
- Cory Pierce, Spanish Fork City – Municipal
- Mike Rau, Central Utah Water Conservancy District – Water Management of Utah Lake

Members of the ULWQS Science Panel

- Mitch Hogsett, Forsgren Associates, ULWQS Science Panel (Chair)
- Theron Miller, Wasatch Front Water Quality Council

Members of the Public:

- Jeff DenBleyker, Jacobs
- Renn Lambert, Limnotech
- Keith Morgan
- David Richards, Oreo Helix Ecological
- Shelly Turnbow, City of Provo

Utah Division of Water Quality Staff:

- Scott Daly
- Jodi Gardberg

Tetra Tech

- Michael Paul
- Kateri Salk-Gundersen

Facilitation Team:

- Paul De Morgan, RESOLVE
- Dave Epstein, SWCA