ULWQS Science Panel Meeting #5
July 10-11
Action Items

I. Utah Lake Mass-Balance

1. Develop proposed methodology for updating the Utah Lake mass-balance – Mike B. and Scott D. (and others as appropriate); August 9
2. Share draft methodology with Science Panel for review and comment – Scott D.; August 9
3. Finalize methodology based on comments – Mike B. and Scott D.; August 23
4. Conduct mass-balance analysis – TBD

II. Atmospheric Deposition

AD White Paper Finalization

5. Review and provide any questions or comments on the white paper – Science Panel; July 26
6. Address any comments and finalize white paper – Janice B.; August 2
    - Add tables (summaries of other analyses) to the white paper when addressing comments
7. Share final white paper – Janice B.; August 2

Short-term Need for Purposes of Moving Forward with Modeling

8. Write up a "recommendation on the use of deposition data in the existing U of U model and the related mass-balance analysis" for a Science Panel survey (building on review of the draft white paper) – Mike B.; August 2
9. Send out survey to assess Science Panel support for recommendation – Facilitation Team; August 6
10. Respond to survey – Science Panel; August 13

WFWQC AD Study Proposal

11. Follow-up with Theron to provide update on Science Panel conversations/next steps related to the WFWQC proposal(s) – Mitch H.; COMPLETED
12. Update and share draft memo regarding WFWQC proposal with other Science Panel members – Mitch H./Janice B.; COMPLETED
13. Review and provide comments and/or questions on the memo on WFWQC proposal – Science Panel; July 26
14. Address any comments, finalize memo, and share with Theron – Mitch H./Janice B.; August 2
15. Review memo, pose questions back as necessary, and then re-write the proposal(s) – Theron M.; August 9
16. Review revised WFWQC proposal(s) and share any final comments – Science Panel; August 16
17. Assess need for and then, as appropriate, engage outside experts on external review – Science Panel; TBD
18. Finalize WFWQC Study Plan and initiate studies – Theron M.; TBD

III. Framework Document

19. Share working draft Framework (specifically Section 2.0) for feedback – Tetra Tech; August 23
20. Provide feedback on Framework – Science Panel; August 30

IV. Conceptual Models

21. Reach out to U of U team to incorporate WASP and EFDC box-arrow diagrams – Scott D and Mike P.; July 26
22. Mark up the Ecosystem Model (e.g., draw boxes/polygons on Ecosystem Model) and share with Mike Paul – Jereme G.; August 2
23. Share comments on the conceptual model narratives – Science Panel; August 2

V. Analysis Plan

Food web recycling of nutrients

24. Send carp calculations to Science Panel for QA/QC – Mike P.; July 26
25. Provide QA/QC review of carp calculations – Science Panel; August 2
26. Estimate P excretion rates for phytoplankton and zooplankton – Mike P.; August 9

Water Quality Analysis [all by July 26]

27. Discriminate water quality data by site location – Mike P.
28. Look at modal vs. non-modal – Mike P.
29. Re-make correlation matrices and taxa boxplots for Provo Bay – Mike P.
30. Fix the legends from the Data Explorer information – Scott D. and Mike P.
31. Fix the data plots from spatial overview – Mike P.
32. Provide comments on additional analyses of cell count and chl a data/analyses – Science Panel
33. Provide comments on additional analyses or pigment analyses – Science Panel
34. Compare light extinction in WASP and EFDC with results based on computation of PAR observations – Scott D. and Mike P.
35. Talk to Jereme about data for carp/macrophytes, etc. – Scott D. and Mike P.
36. Call Soren/Janice to discuss env. requirements for diatoms and extant macrophyte species (and graduate student work being initiated) – Mike P.

Sediment Shear Stress

37. Follow-up with Nick VS on shear stresses, attempt to develop a map of shear stress estimates around the lake – Mike P.; July 26
38. Provide papers on carp bioturbation in lakes (Mike B. already sent some) – Science Panel; August 2

VI. Strategic Research Plan

39. Develop draft Strategic Research Plan and share with the Science Panel for review – Mike P.; TBD
    - Consider need to look at bioavailability of SRP in UL utilizing the molybdate reactivity test

VII. Science Panel Miscellaneous

40. Assess need for Provo Bay to have its own numeric criteria (and pose to SC if appropriate) – Science Panel; TBD

VIII. Near-term Work Plans

41. Compile comments submitted on the three near-term work plans – Scott D.; August 3

Sediment Equilibrium

42. Send list of specific questions for development of Sediment work plan – Greg C. and Ramesh G.; COMPLETED
43. Review Sediment work plan with questions in mind – Science Panel; July 26

Bioassay

44. Send photos of lid/screen to avoid/prevent light inhibition to Zach A. – Hans P.; COMPLETED
45. Touch base with Zach on bioassay work plan – Scott D.; COMPLETED
46. Circulate a revised work plan for the Panel's information and a draft SAP for review – Zach A.; July 26

IX. DWQ Actions

47. Address issues identified with the Utah Lake Data Explorer as necessary,– Scott D. (with Mike P.); July 26
    - Include a pairwise plot of nitrogen species and chlorophyll a
48. Look into DWQ methodology for lab analyses – Scott D. and Erica G.; July 26
49. Review Utah Lake Sampling Analysis Plan to verify PAR collection methods meet the data quality objectives – Scott D. (with Mike P.); July 26
50. Review PAR sample collection methods to confirm appropriate depth resolution – Scott D.; July 26
51. Evaluate timing of modeling workshop with U of U team – Scott D.; TBD