



TECHNICAL COMMITTEE MEETING
Wednesday, July 18, 2018, 9:30 AM
Utah Lake State Park Visitor's Center
4400 W Center St., Provo, Utah 84601

ATTENDEES:

Reed Price, Chair, Orem
Eric Ellis, Utah Lake Commission
Rebecca Andrus, Provo
Sullivan Love, Vineyard
Sarah Carroll, Saratoga Springs
Cory Pierce, Spanish Fork
Scott Daly, Vice Chair, DWQ
Dale Fonken DWR
Kim Struthers, Lehi
Brandon Snyder, Lindon
Juan Garrido, Springville

Mike Rau, CUWCD
Mike Mills, JSRIP
Dale Fonken, DWR (Aquatics)

VISITORS:

Rand Lutz, REI
Dave Parry, Jacobs
Randy Zollinger, Jacobs
Clayton Wolf, Vineyard resident
Kevin Shurtleff, UVU
David Barlow, TSSD

ABSENT: Alpine, American Fork, DNR, FFSL, Highland, Mapleton, Payson, Salem, Utah County, DWR (habitat), Utah Water Users, Woodland Hills

1 **1. Welcome and introductions**

2 Chair Reed Price called the meeting to order at 9:36 AM. Everyone introduced themselves.
3

4 **2. Review and approve minutes from the January 17 and March 14, 2018 meeting**

5 A. Chair Price asked for a motion to approve the May 16, 2018 minutes. Corey Pierce made a motion to approve
6 the minutes. Sullivan Love seconded the motion. Voting was unanimous in favor of approving the minutes.
7

8 **3. Remaining 2018 Meeting Schedule**

9 A. The schedule is September 19 and November 14. Everyone agreed on the schedule.
10

11 **4. ULC Director's updates on Utah Lake issues, projects, and priorities**

12 A. Eric Ellis:
13 i. Lake level: we are at 3.8 feet below full today. Boat access is still great, especially at the newly dredged
14 state park.

- 1 ii. Grand Opening of ULSP and dredge report: It opened the weekend prior to the Utah Lake Festival. Eric
2 summarized the results of the project. More details included in previous meetings' notes.
- 3 iii. Utah Lake Festival (Saturday, June 2nd): Weather was perfect, the spacing has been better every year.
4 Attendance was good, but not too much with one of the state park parking lot being covered with dirt
5 from the dredge. We had lots of bottled waters donated from member's cities. JSRIP had a good
6 presence, in several booths and areas, Mike Mills reported. Sam reported on the feedback received
7 through several feedback stations that were tried for the first time.
- 8 iv. Restoration Proposals / Water Quality Improvement Update:
- 9 i. Lake Restoration Solutions Inc.: continuing to work through the initial phases of their response
10 to FFSL's acceptance with further questions and needs.
- 11 1. Updates from FFSL: ffsl.utah.gov has a PDF of their review process of the lake proposal
12 and it will be updated as time goes on.
- 13 ii. Renewable Energy Innovations: Updates/Presentation by Randy Lutz and Jacobs Engineering
- 14 1. Randy summarized what the technologies he is working on do. He reported on the land
15 that REI is purchasing in a couple areas near the lakeshore. He summarized some of the
16 work with BYU, on the improvements of the digester process using pre-treatment, and
17 the site visit that some of the Technical Committee attended. He mentioned that they
18 are studying the effect of the process to determine if phragmites would work well and
19 be of value in producing the byproducts of methane gas and carbon dioxide. He
20 mentioned the technology surrounding carbon nanotubes and using the carbon dioxide
21 they harvest for that.
- 22 2. He talked about a partnership with GrowViv and their technologies to help two dairies
23 on the shoreline of the lake to provide solutions for their need to grow feed, use
24 manure, etc. He showed what the structure layout would look like, talked about the
25 pilot they will be creating.
- 26 3. Dave Parry, from Jacobs, discussed the pre-treatment technologies and why it is of
27 interest to them. He then described the digestion process they will be using at the pilot
28 projects. He described a previous project done with a dairy farm in Salem, OR. He talked
29 a little about the testing of the technology at Central Davis treatment facility. There
30 were a few questions from Committee members that Dave responded to regarding their
31 digestion process, the pilot project, the equipment used, etc. He spoke on the Spanish
32 Fork treatment plant and the issue of servicing Mountain Country Foods, a food
33 processing plant and how REI could relieve the load at the treatment plant.
- 34 4. Randy took over again. Spanish Fork and Payson cities will host demonstrations to
35 nutrient solutions. He explained briefly what this technology would be, alluded that
36 more info would be forthcoming.
- 37 v. Research Funding Discussion (Legislative Appropriation): The fiscal year has begun, so the \$500,000 the
38 state legislature allotted to Utah Lake research will be evaluated with the Utah Lake Commission
39 Technical Committee and Governing Board and the DWQ Utah Lake Water Quality Study to review and
40 determine which research projects will be selected and funded.
- 41 vi. Wind Station at American Fork marina: Sam reported that the station was installed at AF Boat Harbor.
42 The data is available online, updates every 10 minutes. Next, the Commission will use that station and
43 the UDOT station south of Saratoga Springs, the Provo Airport station and a rumored USU station on
44 West Mountain for the use of recreation enthusiasts on the lake for a view of weather around the lake.
- 45 vii. Cameras at Public Marinas: Sam reported that this effort is joined with the weather station effort of
46 providing more information to the public who are interested in recreating at Utah Lake. Live camera
47 feeds at four of the public marinas would be embedded on the utahlakecommission.org website.
48 Commission staff found a partner business, Marine Products, to cover ongoing costs for the video
49 retention and streaming online.

- 1 viii. Permanent Signage Report: Eric reported that the first bid came back to high, additional bids are coming
2 in. Signage would be placed at nine of the main areas around the lake, the more popular ones. The sign
3 talks about HABs, what to look for, photos, has a spot at the bottom for Utah County Health Department
4 to place a sign if there is a “warning” or “danger” advisory and their health recommendations. Signs
5 should go up quickly. Locations include: Sandy Beach, Utah Lake State Park, Lindon Marina, American
6 Fork Marina, Inlet Park, Saratoga Springs city marina, Saratoga Springs HOA marina, etc.
7

8 **5. Water Quality Study; Steering Committee Structure – Scott Daly - Updates**

- 9 A. Scott reported on the status of the study. Had the orientation meeting with the Science Panel. There were
10 several presentations to get the Science Panel, who are not intimately informed with Utah Lake, better familiar
11 with Utah Lake conditions. The Steering Committee has been working on a charge for the Science Panel. Two
12 calls with Science Panel, to flesh out the high level questions that they need to answer. The next event will be
13 August 8-9, the Science Panel will visit the lake. The two committees will meet together to ensure they are
14 developing the charge correctly. Someone asked if there were UVU professors on the Science Panel. Discussion
15 about the nomination process, no UVU professors were nominated by the Steering Committee members.
16 B. Chair Price asked Scott to report on the status of the algae bloom. Scott reported that DWQ has a dedicated
17 crew for water sampling for blooms this year. Utah Lake has a warning advisory for four isolated areas: Utah
18 Lake State Park, Provo Bay, Sandy Beach and Lincoln Beach. The status of each has fluctuated every week.
19 Lincoln Beach was closed for a brief period but has not deescalated to a warning advisory again.
20

21 **6. JSRIP Update – Mike Mills**

- 22 A. Northern pike- Pike work on Utah Lake has slowed. Done with the first stage of research. Results were
23 concerning regarding the impact pike could have on fish community in Utah Lake if they achieved certain
24 population levels. Research shows that pike rarely eat carp. It is still difficult to find a pike in Utah Lake, but that
25 could change. Next stage of research will likely focus on how to keep their population in check before it grows.
26 B. Provo River Delta Restoration Project- land acquisition is moving forward, they acquired four more properties
27 between Provo River and Skipper Bay. Majority of recent work has been on project design. Some engineering
28 changes have been suggested and are being considered. Working with Provo City for the trailhead design, will be
29 like a city park with accorded amenities. Continuing research on wildlife in the area.
30 C. Carp maintenance moving forward- USU has been working on carp population model, based on the reduced
31 current population. The goal has been to establish what level of removal would be necessary in order to
32 maintain this reduced population in the lake. There is still some modeling that need to be done, however they
33 are currently estimating that we would need to remove a little less than 1 million pounds annually to hold carp
34 population in check. That is higher than was originally anticipated, and is likely due to carp reproduction rates,
35 etc. More funding would be needed to keep that maintenance going. JSRIP is also engaging with researchers
36 with more novel approaches to carp reduction. One example is the YY male, or super male approach. You
37 develop a fish that only produces male offspring, driving the population to extinction over several years. That
38 research is still several years out.
39

40 **7. General comments from the committee members and the public**

- 41 A. Juan Garrido reported that they are working with the state on a regional plan for wastewater treatment.
42 B. Sullivan Love reported that the Holdaways are interested on designating trail through their property, Eric
43 continued that several elected officials have taken a tour, Eric did as well, and it sounds like it will keep moving
44 forward.

45 **8. Confirm next meeting time**

46 The next meeting is scheduled for Wednesday September 19, 2018 at 9:30 AM.

47
48 **9. Adjourn.**

49 The meeting was adjourned at 11:06 AM.