

MT NEBO WATER AGENCY  
BOARD MEETING  
Salem City Offices, 30 West 100 South, Salem UT 84653  
Monday, August 8, 2022

CONDUCTING Richard Nielson, Chairman

BOARD MEMBERS ABSENT-Gene Shawcroft, Central Utah Water Conservancy Dis.  
Marty Larson, Genola City  
ABSENT-Wes Quinton, Goshen Valley Local District  
Brett Christensen, Payson City  
ABSENT-Seth Sorensen, Salem City  
ABSENT-David Hathaway, Santaquin City  
ABSENT-Kevin Oyler, Spanish Fork City  
ABSENT-Boyd Warren, Strawberry Highline Canal Co  
Richard Nielson, Utah County

ALTERNATE BOARD MEMBERS ABSENT-Chris Hansen, Central Utah Water Conservancy District  
ABSENT-Neil Brown – Genola City  
Paul Munns – Goshen Valley Local District  
ABSENT-David Tuckett, Payson City (on line)  
ABSENT-Kelly Peterson, Salem City  
ABSENT-Lynn Mecham, Santaquin City  
Chris Thompson, Spanish Fork City  
ABSENT-Glen Tanner, Utah County

TECHNICAL COMMITTEE ABSENT-Chris Hansen, Central Utah Water Conservancy District  
ABSENT-Chris Steele, Genola City  
ABSENT-Melanie McVicker, Goshen Valley Local District  
ABSENT-Travis Jockumsen, Payson City  
Bruce Ward, Salem City  
Norm Beagley, Santaquin City  
Chris Thompson, Spanish Fork City  
Richard Nielson, Utah County

STAFF Kim E. Holindrake, Payson City Recorder

OTHERS Steven Clyde, Clyde Snow  
Sterling Brown, Strawberry Water Users Association  
Dave Pitcher, Central Utah Water Conservancy District (on line)  
Rachel Musil, Central Utah Water Conservancy District (on line)  
Jared Hansen – Central Utah Water Conservancy District (on line)

1. Call to Order

Chairman Richard Nielson called this meeting of the Mt Nebo Water Agency Board to order at 7:35 a.m. The meeting was properly noticed.

2. Public Comment Period

No public comments.

3. Approval of Minutes – June 13, 2022 Meeting

**MOTION: Marty Larson – To approve the minutes of the June 13, 2022, meeting.** Motion seconded by Brett Christensen. Those voting yes: Marty Larson, Brett Christensen, Richard Nielson, Paul Munns, Chris Thompson. The motion carried.

4. Finance Report

Kim Holindrake reviewed the finance memo noting since the last meeting two invoices were paid for Project 4 and Project 5 and revenues included interest of \$1.33 and deposits for Project 5 of \$11,925.89. Account balances include reserve account - \$5,000, administrative account - \$30,839.11, Capital Projects Project 4 account - \$1,441.94, and Project 5 \$9,216.94 for a total of \$46,497.99.

5. Technical Committee Action and/or Report

a. Update on Groundwater Management Plan

No report or action.

b. Update on WaterSMART Banking Grant Project

No report or action.

c. Other

No other discussion.

6. Update on the South Utah County/Juab County Plan Formulation Effort

Dave Pitcher reported this project began three years ago and has created a good foundation. Data was used from the Division of Water Resources He showed an animation of the data used between 1988 to 2019 depicting land use trends converting from agriculture to urban use. Phase 1 and 2 estimated population projections with an emphasis on water usage.

Baseline Supply and Demand Scenario:

- Agricultural Land Conversion – Utah County with 87% of existing land converted to urban uses and Juab County with no agricultural conversion assumed.
- Groundwater Production – Limited to basin sustainable safe yield.
- Conservation Measures – Metering secondary water systems and adjusting water billing rate structures.
- Climate Change – 10% increase in ET rates.
- Water Supply – Dry year, low-flow recurrence interval of 25 years.
- Industrial demand in Juab County – 6,000 AFY.

#### Alternative Supply and Demand Scenario:

- Agricultural Land Conversion – Utah County with 65% of existing land converted to urban uses.
- Water Supply – Reduced by 10%, Dry year, low-flow recurrence interval of 25 years.
- Industrial demand in Juab County – 12,000 AFY
- Goshen Valley Mega-Site Demand – 15,000 AFY

M&I water development projects can be delayed by conservation efforts, but it's still critical to plan and prepare for future needs and resiliency. Phases 1 and 2 didn't look at changes that would need to be done with the High Line Canal. It wasn't a matter of if but when a finished water source would be needed for in-house water demands for 2065. Central Utah Water Conservancy District (CUWCD) has accomplished this through long-term planning and construction of projects timed ahead of needs and proportionate to CUP water in different areas of CUWCD. Land was purchased in South Salt Lake County in 1970 for a small treatment plant. Another treatment plant was identified but not built at that time. Phase 3 through December 2022 continues to work with stakeholders on Managed Aquifer Recharge (MAR) and refinement of infrastructure alternatives. Phase 3 also included subsurface investigation, to refine and confirm phasing and sizing of infrastructure, and to identify specific water supply alternatives. Future steps include economic (life cycle costs and alternatives) and financial analyses, phase 3 summary report, and value planning review from independent reviewers.

Land has been purchased in Salem next to the relief mine that is at a good elevation to treat and deliver finished water. Boring locations have been identified for geotechnical work. The Wasatch fault line runs along the eastern boundary so geotechnical work included a trench across a splay of the Wasatch Fault to see if there was a fault there, but no fault was identified. A concept for a water treatment plant has been designed at 60 million gallons per day capacity initially and could expand to 120 million gallons per day. It was designed to a size and layout to fit the land, which will be zoned as public facilities. The facilities include two open storage reservoirs that can provide a day's worth of operational storage. The process allows the project to go from conceptual to a more detailed size and cost determination.

While investigating the treatment plant, aquifer recharge is also being investigated and where it could be done. Deep bore holes were done to investigate not only infiltration but analyze materials and chemicals in groundwater compared to surfaced water. Different alternatives were looked at for a water treatment plant. This gives a good estimate of the future, but how to step into it is another matter. As we look at infrastructure solutions, we are looking at a more integrated plan. We want to be on the same page within districts and entities on how will this picture be developed and coordinated to meet the future demands that are coming. It will require quite a bit of coordination. A separate M&I system can provide finished water to communities. As it wraps up, some of these items will be better defined such as cost estimates, planning, and recognized times. The timeline depends on growth but the plan is to be operational by 2030 or 2032. All of this is supplemental water. There will be transmission lines from this plant/location to cities. Part of it was land availability. This site is an ideal elevation and has more land than needed.

#### 7. Resolution – Amendments to the Interlocal Agreement for Joint and Cooperative Action Creating Mt. Nebo Water Agency

Steve Clyde stated Strawberry Water Users Association (SWUA) has long requested to join this group and participate. The Board directed amendments be made to the Interlocal Agreement to include SWUA. The first step is to pass a resolution adopting the second amendment to the Interlocal Agreement. This

allows SWUA to come in on the same basis as High Line Canal but with Central Utah Water Conservancy District appointing the board members and alternate board members. Otherwise, the agreement is identical. Once passed, every member entity will need to approve and sign the agreement. Once signed by all, a second agreement with SWUA will be executed to setup the terms of participation and payment of assessments as a participating organization. SWUA cannot be a member of the interlocal organization because SWUA is not a governmental entity. This is how the Agency accommodates non-governmental entities. Resolution 08-08-2022 has been provided and needs to be adopted to move forward.

**MOTION: Marty Larson – To adopt the resolution and authorize Richard Nielson to sign Resolution 08-08-2022.** Motion seconded by Brett Christensen. Those voting yes: Marty Larson, Brett Christensen, Richard Nielson, Paul Munns, Chris Thompson. The motion carried.

8. Other Business
  - a. Information/Discussion Items for Future Meetings

SWUA Agreement

- b. Other

Bruce Ward and Rachel Musil noted there are water right protest hearings on August 30. One is for the High Line return flows in the Benjamin area. Another is with Salem City with Arrive Homes that claims quantity impairment because they were claiming 70 acres of irrigation when there is really only 11. These hearings can be attended virtually.

9. Next Meeting – November 14, 2022

10. Adjourn

**MOTION: Brett Christensen – To adjourn.** Motion seconded by Marty Larson. Those voting yes: Marty Larson, Brett Christensen, Richard Nielson, Paul Munns, Chris Thompson. The motion carried.

This meeting was adjourned at 8:32 a.m.