

NOTICE OF MEETING

CENTRAL IOWA WATER WORKS TECHNICAL COMMITTEE

Des Moines Water Works Board Room
2201 George Flagg Parkway
Des Moines, Iowa

August 14, 2024
1:00 pm

MINUTES

Present: Matt Ahrens (Grimes), Shawn Buckner (Ankeny), Caitlin Caldwell (DMWW), Don Clark (Ankeny), Kyle Danley (DMWW), Andy Fish (Warren Water), Randy Franzen (Polk City), Jerry Freestone (Clive), Matt Greiner (Johnston), Lyle Hammes (WDMWW), Matthew Jacob (UWU), Amy Kahler (DMWW), Rudy Koester (Waukee), Royce Hammitt (Xenia), Christina Murphy (WDMWW), Mitch Pinkerton (WDMWW), Wayne Schwartz (Norwalk), Bill Smith (CIWW), Lindsey Wanderscheid (DMWW), and Neil Weiss (UWU).

Item 1: The meeting was called to order at 1:01 p.m. by Kyle Danley.

Item 2: Introductions were made by everyone present in the meeting.

Item 3: Minutes Approved for July 10, 2024 – minutes approved with no objection.

Item 4: Executive Director & Administrative Assistant – Information: Caitlin Caldwell provided an update on the two positions at CIWW: the Executive Assistant role, which closed on 8/6, and the Executive Director position, which is open for applications until 8/29. Links to the Executive Director job posting and brochure were shared.

Item 5: Saylorville Water Treatment Plant 2 Land – Information: Kyle Danley discussed acquiring land for the new Saylorville Water Treatment Plant 2. Several options were considered, with one property recently selling quickly. Kyle is in ongoing discussions with another property owner who is willing to sell. An appraisal was conducted, and Kyle shared the results with the group. Kyle recommended continuing discussions and keeping the committee updated on progress.

Item 6: L.D. McMullen Treatment Plant Tour – Information: You are invited to join the CIWW Board Members for a tour of the L.D. McMullen Treatment Plant, hosted by Des Moines Water Works on Wednesday, Sept. 4, from 3:30 to 5 p.m. at 12223 S.W. Maffitt Lake Road, Cumming, Iowa. Please arrive 15 minutes early for parking and check-in at the south gate. The tour, led by DMWW's Director of Water Production, Nathan Casey, will involve significant walking, including stairs. Safety glasses will be provided.

Item 7: Central Iowa Water Works Website – Information: Caitlin Caldwell presented a comprehensive overview of the now-live CIWW website, highlighting its structure, key features, and overall functionality. Website is www.ciww.gov.

Item 8: Schedule XV-2 Budget – Information: Amy Kahler and Christina Murphy provided a brief update on their budgets, stating they aim to complete them by late August or early September, with a review meeting planned for the end of the month. They plan to present the preliminary budget at the September CIWW Technical Committee meeting.

Item 9: HDR Future Treatment Plant Study – Information: Lindsey Wanderscheid discussed the morning's meeting Alternative Selection (Monetary and Non-Monetary) Workshop held by HDR. The workshop was focused on Alternative Selection, where the group reviewed preliminary selection data, discussed and re-evaluated scoring, and examined the MCDA results.

Alternative 1:

- Expands McMullen WTP to 37.5 MGD by 2030
- Expands Grimes WTP to 7 MGD by 2030 and 8.5 MGD by 2050
- Expands Saylorville WTP to 70 MGD by 2050

Alternative 2:

- Adds a West WTP with a proposed capacity of 12 MGD by 2030
- Expands Grimes WTP to 7 MGD by 2030 and 8.5 MGD by 2050
- Expands Saylorville WTP to 70 MGD by 2050

There will be a workshop scheduled in September to discuss distribution improvements. Final presentation to the CIWW Technical Committee will be on October 9th. HDR will present to the CIWW Board at the November meeting.

The group discussed DMWW's plan to update their hydraulic modeling as they transition from Innovyze Modeling Software to WaterGEMS Design Software. After a brief discussion and explanation, everyone in the meeting agreed to allow DMWW to use the model created by HDR as is for their transition.

Item 10: Saylorville 10MGD Expansion Update – Recommendation: Lindsey Wanderscheid gave an update on the SWTP 10MGD expansion project focusing on hydrogeologic investigations and testing phases. The investigation's primary objectives were to assess the feasibility of horizontal collector wells over a large area and classify potential sites into yield categories. Phase 1 involved testing seven locations along the Des Moines River, with results indicating that four sites warranted further testing, while three were deemed unsuitable for any type of well. Preliminary yield estimates were provided, showing varying yields based on high and reduced efficiency assumptions. To confirm potential well yields, Black and Veatch recommends Phase 2 testing at all four sites.

A motion was made by Royce Hammit for a recommendation from the Technical Committee for Amendment No. 4 to the Professional Services Agreement with HDR Engineering, Inc., in the amount of \$116,712. This amendment will allow for a fourth well test to be completed as part of the Saylorville Water Treatment Plant Capacity Expansion Design and Construction Services.

The motion was seconded by Neil Weiss and was unanimously approved by all members present.

Item 11: Amendment to PSA with HDR for CIWW Regional Water Treatment Facility Study – Recommendation: Christina Murphy shared with the group a necessity for an amendment to the PSA with HDR for the CIWW Regional Water Treatment Facility Study. This amendment involved multiple rounds of information sharing and conference calls, with various comments received at different times. An additional Southeast Option was also added for evaluation. Additional modeling needed to be completed and the project schedule has been extended a month.

A motion was made by Rudy Koester for a recommendation from the Technical Committee to the Central Iowa Water Works board for Amendment No. 1 to the Professional Services Agreement with HDR Engineering, Inc., not to exceed \$50,000 and authorization to reimburse West Des Moines Water Works.

The motion was seconded by Matt Greiner and was unanimously approved by all members present.

Item 12: Preliminary Layout SWTP 2 & 3 – Recommendation: Kyle Danley presented a proposal from HDR for the preliminary layout of SWTP 2 & 3, with a cost of \$94,267. The group discussed the necessity of completing this work at some stage of the project and agreed there was no objection to proceeding with the process at this time.

A motion was made by Andy Fish for a recommendation from the Technical Committee to Central Iowa Water Works board that a study be completed by HDR Engineering, Inc., for the preliminary layout of SWTP 2 & 3, not to exceed \$95,000, and that Des Moines Water Works be reimbursed by CIWW in 2025.

This motion was seconded by Don Clark and unanimously approved by all members present.

Item 13: Grimes Projects Discussion: Matt Ahrens provided an update on the ground storage reservoir, noting that progress is being made with the foundation base currently under construction and the installation of the panels underway.

Item 14: Polk City Projects Discussion: Randy Franzen gave an update on the Polk City Water Tower project, reporting that they received bids for the 1.5 million-gallon tower, which came in under budget. He added that they anticipate completing the project by late fall 2025 or early spring 2026.

Item 15: West Des Moines Water Works Projects Discussion: Lyle Hammes provided a detailed

overview of their ongoing project. He highlighted the upcoming VFD (Variable Frequency Drive) project, noting that preparations are well underway. He mentioned that they are on track to put the project out for bid as early as October.

Item 16: Des Moines Water Works Projects Discussion: Lindsey Wanderscheid talked about how the Saylorville Water Treatment Plant (SWTP) uses a treatment process that includes ultra-filtration (UF) and reverse osmosis (RO) to treat groundwater. The RO membranes, essential for reducing water hardness, typically last three to five years. To maintain optimal performance, the plant plans to replace one RO skid (294 membranes) annually. Three bids were received for the purchase of 294 RO membranes, with Consolidated Water Solutions offering the lowest bid at \$160,230 with a 3-year warranty.

Kyle Danley gave an update on the Hickman Road Transmission Main project and how two alternative general alignments are continuing to be evaluated. Kyle visited with the IDOT, and they are now assessing the current pavement condition and thickness through core samples, and alternative pavement replacement requirements for the project are being considered, including full-depth replacement of the entire roadway or a composite replacement with a 2-inch overlay on the entire roadway. The alternative replacement requirements could reduce the total project cost substantially. Kyle will continue discussions with IDOT and keep the group apprised.

Item 17: Other Business: No other business was discussed.

Item 18: The meeting was adjourned by mutual agreement at 2:06 p.m.