



NORTH TEXAS MUNICIPAL WATER DISTRICT

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WATER COMMITTEE MEETING MINUTES JULY 21, 2021

I. CALL TO ORDER

Chairman Keith Stephens called the meeting of the North Texas Municipal Water District (NTMWD) Water Committee to order at 2:46 p.m. on Wednesday, July 21, 2021.

In accordance with the COVID-19 public health threat and the related March 16, 2020, action by the Office of the Governor, temporarily suspending certain provisions of the Texas Open Meetings Act, NTMWD will hold its meeting by telephonic conference call.

In lieu of physical attendance, the public may teleconference into the meeting by calling toll free (1) (844)-621-3956 and entering the following access code: 928 587 040. Members of the public wishing to make public comment during the meeting should follow the instructions for on-line registration listed under Item II. below no later than the start time of the meeting. The meeting will be recorded, and the audio recording will be available on the NTMWD website after the meeting.

General instructions were provided to attendees. The roll was called, and teleconference attendance was confirmed of the Water Committee members including Chairman Keith Stephens, Directors Don Gordon, David Hollifield, and Chip Imrie. Directors Terry Sam Anderson, Kalen Boren and James Kerr were not present. Any reference to unanimous votes refers to a unanimous vote of the Committee members present.

Members of the Executive Committee were present as well as other Board members and members of the NTMWD management team. Lauren Kalisek and Sara Thornton with Lloyd Gosselink Rochelle & Townsend attended via teleconference.

II. PUBLIC COMMENTS (FOR TELECONFERENCE COMMITTEE MEETINGS ONLY)

INSTRUCTIONS FOR PUBLIC COMMENT ON-LINE REGISTRATION: Prior to the start of the Water Committee meeting, members of the public wishing to provide public comment must submit via email to PublicRelations.Info@ntmwd.com their first and last name, organization, comment topic, mailing address and email address. During the public comment portion of the meeting, speakers will be recognized by name and asked to provide their comments. The time limit is five (5) minutes per speaker, not to exceed a total of thirty (30) minutes for all speakers. The Committee may not discuss these items, but may respond with factual or policy information. Public comment is provided for

committee meetings held by teleconference during the COVID-19 health threat to confirm the opportunity for two-way communication with the public during the meeting.

There were no request for public comment.

III. OPENING REMARKS

- A. Chairman/Executive Director/Committee Champion Status Report concerning legislation and regulatory matters, budgets, current projects and ongoing programs of the District including the Regional Water System, Watershed Protection, and Water Conservation

Deputy Director Billy George advised that at the end of June there were five Member Cities and 11 Customers on pace to establish new annual minimums. He reminded the Committee that the water year ends at the end of July.

Mr. George reviewed that on Thursday, July 15th, Executive Director Jenna Covington informed the Board of Directors that an air release valve failed in the open position and released a significant amount of water north of Gaston Drive in Wylie, Texas. District personnel responded quickly to stop the release and replaced the valve that failed. The failed valve was fairly new and had been installed after the 60-inch water main failure that occurred last year on November 11, 2020.

Mr. George provided an update on the progress of NTMWD's pending Lavon Lake water right application for 08-2410K. The deadline for entities to protest the application was last Friday. The City of Houston and City of Dallas did file protests, which is not unusual for draft permits. He advised staff has been working with both entities on resolutions to their concerns.

Mr. George advised that demands have been unseasonably low this summer and that is causing water age to increase for members and customers. Under conditions like this, active water tank storage management and flushing of water lines becomes more critical to maintaining water quality, so there may be an increase in flushing of water lines around the region.

IV. ACTION ITEMS

- A. Consider approval of Water Committee meeting minutes – June 23, 2021

Upon a motion by Director Don Gordon and a second by Director Chip Imrie, the Water Committee voted unanimously to approve the meeting minutes for June 23, 2021.

- B. **Authorize execution of engineering services agreement for Wylie Water Treatment Plant Biologically Active Filtration project – Administrative Memorandum No. 5741**

- Consider recommendation on authorizing the Executive Director to execute an engineering services agreement with Carollo Engineers, Inc., in the amount of \$5,803,659 for final engineering design, bidding, and construction services for Project No. 101-0390-15, Wylie Water Treatment Plant Biologically Active Filtration

Jeff Ray, Engineering Manager, presented this item. He advised this item is to authorize engineering services to proceed with final design and construction phase services. He advised this final design effort will provide the detailed design to advance the project through bid-ready documents and Texas Commission on Environmental Quality (TCEQ) review, and the designer's typical construction services.

Mr. Ray reviewed the history of the BAF (Biologically Active Filtration) project that began in 2011 for the Wylie Water Treatment Plant. He advised in order to manage such a large project, there are three project numbers associated with it overall. He provided an overview of the complexities of implementing the BAF for the four treatment plants' interconnectivities.

Mr. Ray reviewed the primary tasks included in this design services agreement as follows:

- Chlorine contact basins at Plants III and IV
- Additional finished water clearwell at Plant IV
- Major piping relocations and connections
- Flow modeling and baffling for mixing
- Chemical storage, feed and injection
- Filter backwash management pumps
- Filter operations automation

A facility map was reviewed as well as the proposed contract amount.

Upon a motion by Director Chip Imrie and a second by Director Don Gordon, the Water Committee voted unanimously to recommend approval to the Board of Directors.

C. **Authorize execution of engineering services for Wylie Water Treatment Plant Master Plan project – Administrative Memorandum No. 5742**

- Consider recommendation on authorizing the Executive Director to execute an engineering services agreement (ESA) with Hazen and Sawyer, Inc., in the amount of \$1,400,000 for planning study and Wylie Water Treatment Plant Capital Improvement Program Update; Project No. 101-0595-21, Wylie Water Treatment Plant Master Plan

Assistant Deputy R.J. Muraski presented this item. He advised this item is to recommend authorizing an engineering services agreement to develop a Master Plan for the Wylie Water Treatment Plant (WTP) complex. The Master Plan will identify alternatives and make recommendations for improvements and phasing of projects for the Wylie WTP. A map of the Wylie plant was provided.

Mr. Muraski advised that the purpose of the Master Plan is to provide direction for conducting process analysis, space planning, and facilities evaluations to define triggers and capital improvements projects to meet current and future treatment needs through 2050.

Tasks for this project include the following:

- Determination of current, intermediate, and long-term water quality and treatment goals for the 2050 planning period
- Conduct staff interviews across all departments to determine infrastructure and staffing needs
- Analyze the current hydraulic and process limitations at the Wylie WTP to determine true capacity
- Identify facility improvements including new treatment processes, hydraulics/piping and support facilities to achieve the necessary capacity and treatment goals
- Perform Condition Assessment Validation and Gap Assessment
- Assess current and future regulatory requirements and impacts on treatment and operations
- Update Plant Electrical System Planning Model (SKM)
- Conduct a plant performance evaluation and identify optimization opportunities
- Conduct scenario planning analysis to develop trigger-based decision framework for future improvements

Mr. Muraski advised that at completion of the above tasks, the engineer will prepare a prioritized capital improvements project (CIP) list with associated cost estimates. The master plan report will provide the district a comprehensive roadmap through the planning period. The master plan project will also identify short-term or immediate improvements that will allow the District to realize early return on investment with low-cost projects or operational benefits that lead to cost savings.

In response to a Director's question, Mr. Muraski advised that the District has used Hazen and Sawyer, Inc. for engineering work in the past but not for planning purposes.

Upon a motion by Director Chip Imrie and a second by Director Don Gordon, the Water Committee voted unanimously to recommend approval to the Board of Directors.

D. Authorize award of construction contract and inspection services agreement on Apollo Pump Station 2020 Electrical and Mechanical Improvements project – Administrative Memorandum No. 5743

- Consider authorizing recommendation on award of construction contract with Crescent Constructors, Inc., in the amount of \$3,837,000 and authorizing an inspection services agreement with Dietz Engineering in the amount of \$981,000 on Project No. 101-0553-20, Apollo Pump Station 2020 Electrical and Mechanical Improvements

Jeff Ray presented this item. He advised this item is to recommend awarding a construction contract and authorize an inspection services agreement to provide electrical, instrumentation, and mechanical improvements for the Apollo Pump Station. He added that the construction project will improve pumping capacity and performance to deliver and distribute water into the McCree ground storage tank

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and downstream facilities. A new generator will also be installed to increase power reliability.

Mr. Ray provided background on the Apollo Pump Station, advising that it supplies water from the Shiloh Pump Station to Garland and North Mesquite. A facility map was provided.

Mr. Ray reviewed the proposed electrical and mechanical improvements as follows:

- Backup emergency generator (2500 kW)
- Associated automatic transfer switch and switchgear
- Site development for fuel tank and access
- Replacement of deteriorated switchgear in Apollo No. 1
- Addition of parallel feed between Apollo No. 2 and Apollo No. 1
- Replace three pumps at Apollo No. 1 with higher head pumps to support current system needs
- Install variable frequency drive on one pump at Apollo No. 2

Mr. Ray reviewed the bids received. Crescent Constructors submitted the low bid of \$3,837,000, which is 60 percent below the Engineers Opinion of Probable Cost. Mr. Ray advised that Crescent was contacted to verify their estimate. He advised that at present market conditions are fluid and costs are subsiding somewhat.

Mr. Ray advised that the District's in-house inspectors are very busy, so it was determined to contract for inspection services on this project. He noted that this particular project has a wide variety of inspection needs and is estimated to take 9,000 hours of inspection time over two years. The amount of \$981,000 is a not to exceed amount. He added that the District's senior inspectors will oversee these services.

Upon a motion by Director Don Gordon and a second by Director David Hollifield, the Water Committee voted unanimously to recommend approval to the Board of Directors

V. DISCUSSION ITEMS

- A. Corrosion control evaluation update and anticipated sampling requirement changes

Zeke Campbell, Water System Manager, presented this item. He explained the Lead and Copper Rule that requires providers to monitor lead and copper levels within homes. This monitoring is done by population-based sampling. The Initial sampling is required twice per year. For a population of 100,000 it requires 100 sites. If there are low levels for two consecutive years, that number of samples can be reduced to 50 sites every one (1) or three (3) years. Examples of changes that could remove an entity from reduced monitoring were reviewed.

Mr. Campbell advised that Bois d'Arc Lake as a new water source will require evaluation and additional sampling for some water systems that are currently

allowed to sample at the reduced frequencies. The TCEQ will select five (5) cities in NTMWD's northern region for the increased sampling frequency in 2022.

The addition of chlorite in the NTMWD's South System in order to combat nitrification will also trigger the requirement for additional lead and copper sampling frequency. The TCEQ will select five (5) cities to increase the sampling frequency in 2022.

Mr. Campbell advised that a corrosion control study will provide a review and update of the current strategies and provide optimization of corrosion control strategies for new source water and blending.

Coordination with the TCEQ and NTMWD's Member and Customer Cities is ongoing.

B. Discuss the Texas Fawnsfoot, a threatened freshwater mussel species

Jerry Allen, Environmental Manager, presented this item. He provided a presentation on the Texas Fawnsfoot mussel and actions to mitigate consequences of the Fawnsfoot being designated as an endangered species. Details on the designation process, the geographical area of existence, characteristics, habitats, and lifecycle were provided. Threats to habitation degradation and loss were reviewed.

Mr. Allen advised that even though the Fawnsfoot mussel is not yet designated as an endangered species, conservation measures can begin by participating with other entities and landowners in a Candidate Conservation Agreement with Assurances (CCAA). This measure would only be regarding the Trinity River Basin where the species is currently located.

The Texas Fawnsfoot mussel is expected to be listed as endangered in approximately 12 months.

C. Discuss City of Texarkana Draft Water Use Permit No. 13642

Attorney Sara Thornton presented this item. She advised that her office tracks other water rights applications from around the state to determine whether they may impact the District. The City of Texarkana submitted a new water right application for Wright Patman Reservoir on November 21, 2019. The application seeks a water use permit to authorize the diversion and use of 175,000 acre-feet of water per year from Wright Patman Reservoir on the Sulphur River, Sulphur River Basin for municipal, industrial, mining, and agricultural purposes within its service area in Bowie, Cass, and Red River counties, in the Sulphur, Cypress, and Red River Basins. Ms. Thornton advised that TCEQ deemed the application administratively complete on February 21, 2020. TCEQ issued Notice of the Application on June 17, 2021, and the notice was published on June 27, 2021. It is expected that the application, if granted, would have a negative impact on NTMWD's Jim Chapman Lake water right. Comments and hearing requests on the Application are due July 27, 2021, so the District must file a protest during this 30-day period. Ms. Thornton advised that other entities are also expected to file

protests and noted that the best option would be to enter into an agreement with Texarkana.

- D. Opportunity for Committee members to provide feedback on Water Committee meeting

There was no feedback from Committee members.

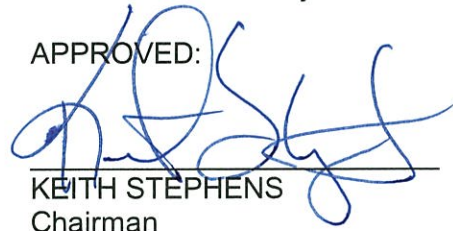
- E. Opportunity for Committee members to request potential future agenda items
(No substantive discussion of items will take place at this time)

There were no potential future agenda items requested.

VI. ADJOURNMENT

There being no further business, the meeting of the Water Committee adjourned at 3:56 p.m.

APPROVED:



KEITH STEPHENS
Chairman