



## **NORTH TEXAS MUNICIPAL WATER DISTRICT**

**501 E. Brown Street • Wylie, Texas 75098  
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### **WATER COMMITTEE MEETING MINUTES OCTOBER 27, 2021**

The Presiding Officer will be present at the meeting location, the NTMWD Administrative Offices, 501 E. Brown Street, Wylie, Texas 75098, with two-way video and audio communication between Board members participating by videoconference, establishing a quorum. The public may attend the meeting in person at the meeting location. Audio and video of Board members participating by videoconference will be visible to members of the public in attendance at the meeting location. The meeting will be recorded, and the audio recording will be available on the NTMWD website after the meeting.

Members of the public wishing to listen to live audio from the meeting may do so by calling in at (469) 210-7159 or toll free (844) 621-3956 and entering the following access code: 928 587 040. Please note this line will not provide for two-way communication and public comment at the meeting must be made in person at the meeting location.

#### **I. CALL TO ORDER**

Chairman Keith Stephens served as the Presiding Officer and called the meeting of the North Texas Municipal Water District (NTMWD) Water Committee to order at 3:00 p.m. on Wednesday, October 27, 2021. The meeting was held with two-way video and audio communication between Board members participating by videoconference, establishing a quorum. General instructions were provided to attendees. Any reference to unanimous votes refers to a unanimous vote of the Committee members present.

The following Water Committee members were present; therefore, a quorum was present.

	<b>Water Committee Members</b>	<b>Attendance</b>
1	Terry Sam Anderson	Remote
2	Kalen Boren	Remote
3	Don Gordon	Remote/Video on 3:25 p.m.
4	David Hollifield	Remote
5	Chip Imrie	Remote
6	James Kerr	Remote
7	Keith Stephens	Present

Members of the Executive Committee were present as well as other Board members and members of the NTMWD management team. Mark Walsh with Saunders Walsh & Beard attended via teleconference.

II. PUBLIC COMMENTS

Prior to the start of the meeting, speakers must complete and submit a "Public Comment Registration Form." During the public comment portion of the meeting, speakers will be recognized by name and asked to provide their comments. The time limit is three (3) 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.

There were no requests for public comments.

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 announced that Zeke Campbell was promoted to the position of Assistant Deputy of Water Treatment and Conveyance. Mr. George congratulated Zeke and stated he is settling into the new role very well.

Mr. George stated there are two action items included as consent items on the regular Board meeting agenda this month that are not included on this month's Water Committee agenda. The first is Consent Agenda Item No. 21-10-03 related to Bois d'Arc Lake and Leonard Water Treatment Plant facilities. The item requests reallocation of funds for Construction Manager at Risk (CMAR) 3 and results in no increase to the overall CMAR 3 authorization. The second is Consent Agenda Item No. 21-10-04 that will continue NTMWD's participation in the Upper Trinity Basin Water Quality Compact with the Trinity River Authority, City of Dallas, and City of Fort Worth for collaboration on water quality issues in the upper Trinity River basin.

Mr. George advised that there is a tour of the new Water Operations Center this month starting with lunch at noon on Thursday before the regular Board meeting. Mr. George added that staff is appreciative of the new facility.

Mr. George advised that there is an item related to the District's ongoing Long Range Water Supply Plan effort included on this month's regular Board meeting agenda.

Mr. George advised that NTMWD is partnering with the Texas A&M Forest Service, City of McKinney and McKinney Parks Foundation to host an Arbor Day tree planting event along Wilson Creek in the City of McKinney. Volunteers are scheduled to plant 800 seedlings and 870 small trees along Wilson Creek to protect the watershed and water quality in Lavon Lake.

Mr. George added that there is a November 5th quarterly tour of the Wylie Water Treatment Plant Complex targeting elected officials and senior leadership in Member Cities. He advised that space is available and city managers can coordinate reservations for city council members who would be interested.

IV. ACTION ITEMS

- A. Consider approval of Water Committee meeting minutes – September 22, 2021

Upon a motion by Director Chip Imrie and a second by Director James Kerr, the Water Committee voted unanimously to approve the minutes for September 22, 2021. Director Don Gordon was not present by video for the vote.

- B. **Authorize execution of Interlocal Agreement for a Hydrographic Survey of Jim Chapman Lake - Consent Agenda Item No. 21-10-05**

- Consider recommendation on authorizing the Executive Director to execute an Interlocal Agreement in the amount of \$26,042 with the City of Irving, City of Sulphur Springs, City of Cooper, Upper Trinity Regional Water District, and Sulphur River Basin Authority to conduct a hydrographic survey of Jim Chapman Lake

Assistant Deputy Galen Roberts stated this item is to recommend authorizing execution of an Interlocal Agreement among the North Texas Municipal Water District, City of Irving, City of Sulphur Springs, City of Cooper, Upper Trinity Regional Water District, and the Sulphur River Basin Authority to fund a Texas Water Development Board hydrographic survey of Jim Chapman Lake. This survey will assist the District in determining the reservoir's storage capacity, sedimentation rates, and projected water supply availability in Jim Chapman Lake.

Mr. Roberts advised this survey is recommended every ten years by the Texas Water Development Board. Mr. Roberts advised the last one was done in 2007 and indicated a 3.7 percent decrease in total capacity of conservation storage since impoundment. He advised Jim Chapman Lake is located in the Sulphur River Basin.

Mr. Roberts advised that the total cost of the survey is \$74,100 and will be shared among the North Texas Municipal Water District, City of Irving, City of Sulphur Springs, City of Cooper, Upper Trinity Regional Water District, and the Sulphur River Basin Authority. The District's share of the cost is \$26,042.

In response to a Director's question, Mr. Roberts responded that the District's water rights at Jim Chapman Lake consists of 55 million gallons per day. He also advised that soil conditions at this lake and the new Bois d'Arc Lake are similar. He noted that land use impacts sedimentation rates.

Upon a motion by Director Chip Imrie and a second by Director James Kerr, the Water Committee voted unanimously to recommend approval to the Board of Directors. Director Don Gordon was not present by video for the vote.

- C. **Authorize execution of Interlocal Agreement for developing future water supplies in the Sulphur River Basin - Consent Agenda Item No. 21-10-06**
- Consider recommendation on authorizing the Executive Director to execute an Interlocal Agreement in the amount of \$76,860 with Sulphur River Basin Authority, Tarrant Regional Water District, Upper Trinity Regional Water District, City of Dallas, and the City of Irving for developing future water supplies in the Sulphur River Basin

Assistant Deputy R.J. Muraski advised that this item is to recommend authorizing execution of an Interlocal Agreement between with Sulphur River Basin Authority (SRBA), Tarrant Regional Water District (TRWD), Upper Trinity Regional Water District (UTRWD), City of Dallas and City of Irving. The purpose of this agreement is to evaluate yields of projects in the Sulphur River Basin consistent with the Region C Plan and comparing such yields to the findings of the United States Army Corps of Engineers' Sulphur River Basin Feasibility Study.

Mr. Muraski reviewed that Metroplex Water agencies (NTMWD, TRWD, UTRWD, City of Dallas, City of Irving and SRBA) are working to develop Raw Water Supplies in the Sulphur River Basin. The US Army Corps of Engineers conducted a feasibility study and determined the current estimated yields. He advised that many reservoirs area have seen reduced yields. The Agreement will allow the metroplex water agencies to fund a study determining updated yield of the proposed Marvin Nichols Reservoir and Lake Wright Patman reallocation using the extended Sulphur River Basin Water Availability Model. The study will compare the yields from the updated data sets to yields determined in the Sulphur River Basin Feasibility Study by the US Army Corps of Engineers.

Mr. Muraski reviewed the terms of the Agreement. The total cost of the project is \$244,000 with the District's share being \$76,860, or 31.5 percent. He noted that the District will lead the effort with Freese and Nichols, Inc. performing the work and invoicing the parties for work performed.

A Director inquired about the possibility of the findings being different from the Corps of Engineers'. Mr. Muraski advised that this new report will help determine the water rights in future.

Upon a motion by Director James Kerr and a second by Director Kalen Boren, the Water Committee voted unanimously to recommend approval to the Board of Directors. Director Don Gordon was not present by video for the vote.

[Director Don Gordon's video became active at 3:25 p.m. and prior to the remainder of the action items.]

- D. **Authorize Amendment No. 4 to Construction Manager At-Risk Agreement on Wylie Water Treatment Plant IV Filter Complex Wall Repairs – Administrative Memorandum No. 5766**
- Consider recommendation on authorizing the Executive Director to execute Amendment No. 4 to the Construction Manager At-Risk Agreement with Felix Construction Company in the amount of \$10,709,516.74, and authorizing internal inspection costs of \$625,000 on Project No. 101-0422-16, Wylie Water Treatment Plant IV Filter Complex-Wall Repairs

Engineering Manager Jeff Ray presented this item. He advised this item is to recommend authorizing funding for Amendment No. 4 to the Construction Manager At-Risk (CMAR) Agreement for the Wylie Water Treatment Plant (WTP) IV Filter complex Wall Repairs project. The required repairs to the filter walls at the Wylie Water Treatment Plant IV are to address leaks cited during TCEQ inspections, and to provide structural enhancements of the walls to stop further cracking, thereby reclaiming a full expected service life of the facility. The revised Guaranteed Maximum Price (GMP) reflects pricing for construction of the remaining anticipated work packages, including structural repairs and strengthening of the filter gallery walls of Filter Nos. 1-3 and 5-20.

Mr. Ray provided background on this item including design and construction deficiencies and previous actions by the Board. He advised that the previous repair to Filter 4 was successful, and the same approach is recommended for the remaining 19 filters.

Mr. Ray provided a listing of the various bid packages needed for this project and costs, and the estimated allowances expense. The total cost including construction, CMAR fees and contingency is \$10,709,516.74.

In response to inquiries from non-Committee Member Directors in attendance, the methodology of the planned repairs was discussed. In addition, Attorney Mark Walsh advised that previous settlements totaling \$6.25 million will be credited to the cost of the repairs. It was noted that not all 19 of the filters will be out of service at one time therefore minimizing the impact to water treatment capacity.

Mr. Ray added that next month there will be an agenda item to authorize additional engineering services expense on this project.

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

**E. Authorize execution of engineering services agreement on North Garland System Ground Storage Tanks – Administrative Memorandum No. 5767**

- Consider recommendation on authorizing the Executive Director to execute an engineering services agreement with JQ Infrastructure, LLC in the amount of \$1,560,640 for final design of the North Garland System Ground Storage Tanks, Project No. 101-0572-20, North Garland System Ground Storage Tanks

Jeff Ray presented this item. He advised this item is to recommend authorizing funding for engineering services for final design of the North Garland System Ground Storage Tanks. This project will improve the NTMWD Transmission System hydraulics and ensure maintenance of minimum system pressure is achieved at all times, in accordance with the Texas Commission on Environmental Quality (TCEQ) design guidance.

Mr. Ray advised there is a need to maintain a minimum pressure of 5 pounds per square inch (PSI) in this transmission system. He advised that preliminary engineering has recommended two 10-million gallon tanks to be located adjacent to the Shiloh Pump Station and near the Richardson Delivery Point No. 3.

Mr. Ray advised the initial construction also includes the following:

- Meter and major valve vaults
- Electrical, instrumentation, and SCADA connectivity
- Grading and drainage for full site
- Fencing, security, and fire access
- Adherence to City of Garland ordinances

Mr. Ray added that the planning level construction cost estimate for the project is \$29,000,000. An aerial map depicting the facilities' locations was provided.

In response to a Director's question, Mr. Ray advised that without these planned improvements, there is a potential for pressures to drop below 5 PSI, which is not consistent with TCEQ requirements.

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.

**F. Authorize execution of a potable water supply contract with Forney Lake Water Supply Corporation - Administrative Memorandum No. 5768**

- Consider recommendation on authorizing the execution of a potable water supply contract with Forney Lake Water Supply Corporation for a term of 20 years

R.J. Muraski presented this item. He advised this item is to recommend authorizing execution of a Potable Water Supply Contract with Forney Lake Water Supply Corporation, a current customer of NTMWD. He explained that NTMWD and Forney Lake WSC wish to restate and enter into a new Potable Water Supply Contract since Forney Lake WSC has exceeded its annual maximum, which requires them to enter into an amended and restated contract with NTMWD. A location map was provided. Mr. Muraski added that the potable water supply contract conforms to the new customer contract language approved by the Board in April 2021.

Mr. Muraski reviewed the components of the new contact. He advised it will have a 20-year term, it provides the new methodology for calculating annual minimums, and it sets a new annual maximum of 750 million gallons per year. Any water delivered in excess of the annual minimum will be purchased at the excess water rate established by the Board of Directors. It was clarified that that if during the 20-year contact period, the maximum gallons per year is exceeded, then a new contract would be required. It was also clarified that the water rate is not stated in the contract and was explained that the rate is set by the Board in the annual budget.

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

**G. Authorize execution of a potable water supply contract with Mt Zion Water Supply Corporation – Administrative Memorandum No. 5769**

- Consider recommendation on authorizing the execution of a potable water supply contract with Mt Zion Water Supply Corporation for a term of 20 years

R.J. Muraski presented this item. He advised this item is to recommend authorizing the execution of a Potable Water Supply Contract with Mt. Zion Water Supply Corporation (WSC), a current customer of NTMWD. He explained that NTMWD and Mt. Zion WSC wish to restate and enter into a new Potable Water Supply Contract. The customer's current contract expired triggering the need for a new contract. A location map was provided.

Mr. Muraski reviewed the components of the new contact. He advised it will have a 20-year term, it provides the new methodology for calculating annual minimums, and it sets a new annual maximum of 193,450,000 gallons per year. Any water delivered in excess of the annual minimum will be purchased at the excess water rate established by the Board of Directors. It was clarified that that if during the 20-year contact period, the maximum gallons per year is exceeded, then a new contract would be required. It was also clarified that the water rate is not stated in the contract. It was explained that the rate is set by the Board in the annual budget.

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.

**H. Authorize award of construction contract and internal inspection services for the Trinity River Lock and Dam No. 7 Emergency Bank Stabilization at Main Stem Pump Station Air Burst Building - Administrative Memorandum No. 5770**

- Consider recommendation on authorizing award of construction contract to Solid Bridge Construction in the amount of \$4,872,680 and authorizing internal inspection costs of \$108,000 for Project No. 101-0550-19, Trinity River Lock and Dam No. 7, Emergency Bank Stabilization at Main Stem Pump Station Air Burst Building

Jeff Ray presented this item. He advised this item is to recommend authorizing the award of construction contract and authorize internal inspection services to expedite bank stabilization at the Main Stem Pump Station Air Burst Building at the vicinity of the Trinity River Lock and Dam No. 7. The purpose of expedited bank stabilization work at the Main Stem Pump Station is to arrest continuing riverbank erosion that is threatening the Air Burst Building site. The remaining needed work for Trinity River Lock and Dam No. 7 will be brought for consideration at a later date.

Mr. Ray reviewed that the Trinity River Lock and Dam No. 7 was part of a navigation system built the US Army Corps of Engineers in the 1910s. He advised it is no longer operable; however it creates a backwater pool critical to the Main Stem Pump Station (MSPS) intake. The abutment adjacent to the Lock and Dam is showing signs of erosion. The overall project design scope includes stabilization of Lock and Dam No. 7 and the Air Burst Building at MSPS area. Mr. Ray provided a map reflecting the location of the Lock and Dam No. 7, the Airburst Building, and the embankment in need of stabilization.

Mr. Ray reviewed two bids received. He added that both bidders are specialists in stream bank erosion control, which requires specialized skills and methods that are not maintained by many contractors. Staff is recommending the bid be awarded to the low bidder, Solid Bridge Construction in the amount of \$4,872,680. The engineer's opinion of probable cost is \$5,760,763. This item includes the internal inspection cost of \$108,000.

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

V. DISCUSSION ITEMS

A. Update on NTMWD activities related to Senate Bill 3 Emergency Preparedness Requirements

David Milligan, Health and Safety Manager, presented this item. He reviewed the requirements related to weather emergencies as stated in Senate Bill 3. The timelines for the actions and the progress by the District to adhere to those requirements were provided.

Mr. Milligan advised that critical water and wastewater facilities were identified, and electrical providers were notified of the facilities that qualified for critical load status. The documents relative to this were submitted October 21, 2021 prior to the November 1, 2021 deadline.

Major actions planned to meet the March 1, 2022 deadline include the following:

- Selected Freese and Nichols to assist with completing the Emergency Preparedness Plan; kickoff meeting November 1, 2021
- Emergency Operations Manager championing Emergency Preparedness Plan with input from Water, Engineering, Planning, Information Technology, Technical Services, and others
- Will provide update to Water Committee prior to March 1st submittal
- March 1, 2022 – Submit Emergency Preparedness Plan and Timeline for Implementation to TCEQ

B. Update on monofill site permit application

R.J. Muraski presented this item. He explained that a monofill site is a site for disposal of a specific type of material. In this case, it is the residues from the water treatment process at the Wylie Water Treatment Plant. Residues are currently being held temporarily at the Wylie complex and the District would like to reclaim that land for future use. A map of the Wylie Water Treatment complex was provided and reflected the current storage lagoons where the future monofill material is currently being held.

Mr. Muraski reviewed that in 2011 the District purchased 410 acres of land for a monofill site in Josephine. In October 2015, an engineering services agreement was issued to Alan Plummer for permitting and preliminary design of the site.



An application for the first of two permits was submitted to TCEQ in May 2021 for monofill for the disposal of residuals from the water treatment process. The TCEQ processed that application more swiftly than expected and issued the first Public Notice on September 29, 2021. The Public Comment period began at that time. Mr. Muraski advised that based on the standard wording of the notice, many public comments have been received due to the notice communicating the possibility of a sewage sludge landfill site, which is not what is requested in NTMWD's application. Mr. Muraski advised staff has communicated with the Mayor of Josephine and other public officials in regard to the concerns. He added that an open house meeting is scheduled for November 10, 2021 in Josephine. The second of the permit applications for discharge of water from the Josephine site will be submitted to TCEQ in late 2021 or early 2022. This would allow water from the dewatering process to be discharged into waterways.

Mr. Muraski provided a brief overview of the current disposal process. He reviewed that future plans are to construct facilities at the Josephine site, and then construct a pipeline to convey the residuals to the monofill site for processing. The Water Master Plan includes a review of the timeline for this project. He advised that the timeline will be evaluated with recommendations expected in late 2022.

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

Chairman Stephens expressed his appreciation to all staff members who contributed to the meeting.

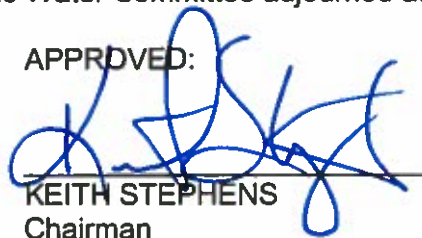
- D. Opportunity for Committee members to request potential future agenda items

There were no requests for potential future agenda items.

VI. ADJOURNMENT

There being no further business, the meeting of the Water Committee adjourned at 4:23 p.m.

APPROVED:



KEITH STEPHENS  
Chairman