



## Board of City Commissioners

May 31, 2023

The Board of City Commissioners is scheduled to meet in a special session on Wednesday, May 31, 2023, at 4:00 PM in the 4th Floor Mayor's Conference Room, City/County Office Building, 221 North Fifth Street, Bismarck, North Dakota.

Call to Order

### SPECIAL MEETING OF THE BOARD OF CITY COMMISSION

1. Review the \$250,000.00 budget expense with PKG Contracting to reserve the membrane piloting equipment for the water treatment plant.

Documents:

[Water Treatment Plant Expansion.pdf](#)

Adjourn

Phone: 701-355-1300 | 221 North 5th Street | P.O. Box 5503 | Bismarck, ND 58501  
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# Public Works Utility Operations Department

**DATE:** May 31, 2023  
**FROM:** Michelle Klose, Public Works Utility Water Director  
**ITEM:** Water Treatment Plant Expansion

**REQUEST:**

Public Works Utility Operations is requesting approval of a \$250,000.00 budget expense with PKG Contracting to reserve piloting equipment as part of the water treatment plant expansion.

Please place this item on the May 31, 2023, special city commission meeting agenda.

**BACKGROUND INFORMATION:**

The City of Bismarck water treatment plant is currently undergoing improvements and expansion as previously approved by the Commission. For the next phase of this process, a membrane pilot to aid in determining the optimal equipment and process is required. To proceed with this pilot, it is necessary to reserve and schedule the equipment in advance. As the piloting process can take up to three months, it is imperative that this process begin as soon as possible in an effort to move to the construction phase in 2023. As Public Works Utility Operations works towards finalizing the Construction Manager at Risk (CMAR) for the projects at the water treatment plant, the budget expense of \$250,000.00 with PKG Contracting would allow the membrane piloting to proceed in a timely manner. This budget contains contingencies for pumps, pipes, fittings, electrical, and set-up, including handling, taxes, and potential bonds and insurance, and will become a pass-through to the CMAR contract, which is to be presented to the City Commission at the next regular meeting on June 13, 2023.

**RECOMMENDED CITY COMMISSION ACTION:**

Approve the \$250,000.00 budget expense with PKG Contracting to reserve the membrane piloting equipment for the water treatment plant.

**STAFF CONTACT INFORMATION:**

Michelle Klose, P.E. | Utility Operations Director | 355-1700 | [mklose@bismarcknd.gov](mailto:mklose@bismarcknd.gov)



May 31, 2023

Michelle Klose, PE  
Director Utility Operations  
Bismarck Public Works

Re: Bismarck Water Treatment Plant  
Sub: Membrane Pilot Proposal Summary

Dear Ms. Klose,

Attached is the summary of the membrane pilot proposals, costs, and list of the accepted units from our meeting on May 30, 2023.

Company	Membrane	Duration	Availability	Cost
Veolia	ZW1000 (Submerged)	6 weeks	June/July	<b>\$30,000</b>
<del>(Zenon/GE/Suez)</del>	<del>ZW1500 (Pressure)</del>	<del>"</del>	<del>"</del>	<del>\$30,000</del>
Both POLY	Combined	"	"	\$50,000
WesTech	Toray (Poly)	60 day	June	Combined
	Crosstek (ceramic)	60 day	"	<b>\$56,720</b>
ONE SKID	Combined	90 day	"	<b>\$10,000</b> extra
Aqua Aerobic	C-Series (ceramic)	3 months	June	<b>\$49,450</b>
Accepted Pilots				<b>\$146,170</b>

CMAR budget for pumps, pipe, fittings, electrical, set-up including handling, taxes, and potential bonds and insurance. We are asking for a total budget of

**\$250,000**

This is for budget and assurance there are enough dollars set aside for pilot needs. It will be treated as a complete pass through and tracked as an allowance and adjustment after all costs are known for the pilot needs. PKG will provide the costs as an Owner cost in cost model. It will not affect PKG preconstruction contract fee or any construction fees.

Please feel free to call my direct cell phone number at 701 527-2451 or email at [russ@pkg-inc.com](mailto:russ@pkg-inc.com) to discuss these issues.

Thank you for your time,

Russell Sorenson  
PKG