



## Capital Budget Request - CONSTRUCTION

<b>Project Name</b>	<b>Conklin WTP MIEX - Construction</b>	<b>\$</b>	<b>1,690,000</b>
<b>Order Code</b>		<b>Project Location</b>	Conklin
			4 - Conklin/ Janvier/Anzac/Gregoire Lake
<b>Project Category</b>	Environmental	<b>Ward</b>	Estates
<b>Type of Project</b>	Lifecycle - Construction	<b>Municipal Function</b>	41 - Water Sup & Distribution

### Project Description and Scope

The Conklin water supply is pumped from Christina Lake. A substantial amount of organic material entered the water supply after the 2016 Wild Horse River fire. Consequently water quality in Conklin has consistently exceeded the maximum acceptable concentration (MAC) for disinfection byproducts (DBPs). The RMWB engaged IXOM Watercare Inc. (IXOM) to pilot their magnetic ion exchange (MIEX®) system to address DBP concerns and retained AECOM to evaluate the suitability of MIEX® incorporation into the Conklin WTP. The MIEX study concluded that adding MIEX technology to the treatment process will reduce DBP's to levels below the regulatory MAC. The proposed project will be to install a MIEX system in Conklin in order to meet regulatory requirements for potable water quality. Additionally, this project will install the remainder of the components required to operate Train 2 at the Conklin Water Treatment Plant. The Conklin Water Treatment Plant was designed as 2 treatment trains (treatment tank systems) and was completed in 2014 with only 1 train fully constructed. The major components for the 2nd train are installed but the valves and other ancillary components were not purchased. Having a 2nd treatment train available in Conklin will provide redundancy and water security for the community for the remaining lifecycle of the plant.

### Project Cash Flows

Year	Total Annual Cost	Federal Grant	Provincial Grant	Reserve	Other	Debenture
2020 & Prior	-			-		
2021	1,690,000			1,690,000		
2022	-			-		
2023	-			-		
2024	-			-		
2025	-			-		
2026	-			-		
Thereafter	-			-		
<b>Total Budget</b>	<b>1,690,000</b>	-	-	<b>1,690,000</b>	-	-

### Additional Funding Details

<b>Business Case created by</b>	Paul Sinclair
<b>Project Sponsor Branch</b>	Water Treatment
<b>Project Sponsor Department</b>	Environmental Services
<b>Project Delivery Branch</b>	Water Treatment
<b>Project Delivery Department</b>	Environmental Services