

Project Name **Flood Mitigation - Construction** \$ **117,500,000**

Order Code **600870/602036** Project Location **Fort McMurray**

Project Category **Public Safety** Ward **1 - Fort McMurray**

Type of Project **New Asset - Construction** Municipal Function **29 - Other Protective Services**

Project Description and Scope

The downtown core of Fort McMurray has a long history of ice jam floods due to the Clearwater/Athabasca River confluence, and more recently experienced an open water flood of the Hanging stone River in 2013. Due to legislative uncertainty, previous flood mitigation work was built to the 1:40 year flood elevation of 248.50 m. To date, flood elevations for Clearwater ice jam floods and Hangingstone open water floods have been found to be comparable for most locations. In late 2016, the GOA confirmed the 1:100 year flood elevation of 250.0 m as the applicable standard. Council recently directed that the 1:200 elevation be used for most areas. This project upgrades flood mitigation to the higher elevation using a combination of elevated roads, berms, and built up urban areas.

As flood mitigation will impact current storm drainage routes, provision of additional storm drainage paths will be included in this project. This is likely (but is not limited) to take the form of storm sewer lift stations to bypass storm outfalls that close during high water level events on the Clearwater River.

Project Cash Flows

Year	Total Annual Cost	Federal Grant	Provincial Grant	Reserve	Other	Debenture
2021 & Prior	54,500,000					-
2022	13,000,000					-
2023	34,000,000					-
2024	16,000,000					-
2025	-					-
2026	-					-
2027	-					-
Thereafter	-					-
Total Budget	117,500,000	-	-	-	-	-

Additional Funding Details

Business Case created by Maureen Nachonechy

Project Sponsor Branch Engineering

Project Sponsor Department Engineering Services

Project Delivery Branch Engineering

Project Delivery Department Engineering Services