

2023 INTERN AWARD

Ian Moran, EIT



Ian Moran, EIT, is an engineering intern working for WSP in Winnipeg, Manitoba. Ian joined WSP's Water and Wastewater Group in 2020 and is a graduate of the Bachelor of Engineering program at the University of Manitoba. Ian has worked in nearly all Canadian provinces and territories and has collaborated with industry experts across North America.

Ian specializes in membrane filtration and has designed, hand-constructed, and operated several pilot-scale membrane filtration systems for water treatment plants in Western Canada. The systems Ian has designed evaluate the performance of several membrane alternatives, the efficacy of cleaning programming, and have been used to identify and address unique fouling concerns. Ian's pilot-scale systems have been the subject of several publications, earning recognition through the Government of Canada's Scientific Research and Experimental Development program.

Ian has provided significant engineering contributions to water infrastructure projects for First Nations and remote Northern communities. One of Ian's most notable accomplishments was during the Iqaluit Water Crisis which left 8,500 people under a Do Not Consume water quality advisory. Ian led the investigation, coordinated multiple onsite contractors and investigation personnel, and managed several key stakeholders in various levels of government. Through his

investigation, Ian was able to identify the source of the contamination, theorize and prove the contamination entry point into the treated water supply, and implement immediate response measures to sever the contamination pathway. Ian designed and implemented an emergency bypass system which was used for over a year while critical repairs were made to the water treatment plant. Although it was an overall team effort, Ian made important contributions to this award-winning project.

Ian also led the investigation of the Whitedog First Nations Water Emergency where, again, fuel was found in the drinking water supply. Ian led engagements with community and government stakeholders, as well as other consulting firms. His holistic and collaborative approach to the investigation led to the discovery of the contamination pathway and the development of a response plan to address the extent of the contamination. In addition to being registered as an engineering intern with both Engineers Geoscientists Manitoba and the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists (NAPEG), Ian holds several committee positions through Western Canada Water (WCW), American Water Works Association (AWWA), and Association of Consulting Engineering Companies of Manitoba (ACEC-MB).

Ian has written published content for several industry magazines and delivered technical presentations at international water conferences on topics such as cold climate engineering, public consultation and consumer awareness, and innovative approaches to unique project challenges. Ian is one of the faces of WSP's Global Water for People Champion campaign and has initiated, planned, and executed fundraising campaigns to help provide lasting access to clean water and sanitation to those in need in developing countries. Through his many achievements, Ian has raised the profile of young engineers in the water sector. In recognition of his exceptional achievements as an engineering intern, Engineers Geoscientists Manitoba is pleased to present the 2023 Intern Award to Ian Moran, EIT.