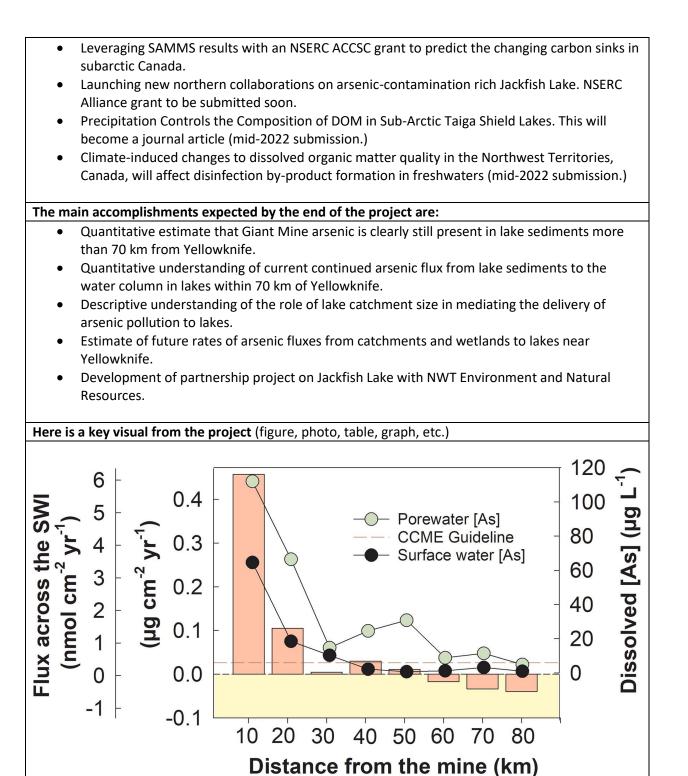
Global Water Futures 2021 Operations Team Meeting – Project Reporting Template

Instructions: All GWF projects are asked to provide a summary update on their activities and accomplishments in preparation for the upcoming Operations Team meeting. **Please submit these by email to** <u>chris.debeer@usask.ca</u> **by no later than December 2.** These will be used to help guide discussions and breakout synthesis activities and will be made generally accessible on our website in advance of the meeting.

Project Name:	SAMMS (Sub-Arctic Metal Mobility Study)
Our major accomplishments to date are:	
Metal Depa Jasiak I, Wi 2021. Evalu legacy gold doi: 10.101 Leclerc É, V 2021. Quar roasting in 228, doi: 10 Jasiak I. 202 arctic gold	 Isiments to date are: Isitional History, Pathways, and Processes in Lake Sediments klund JA, Leclerc É, Telford JV, Couture R-M, Venkiteswaran JJ, Hall RI, Wolfe BB. Isiting spatiotemporal patterns of arsenic, antimony, and lead deposition from mine emissions using lake sediment records. Applied Geochemistry, 6/j.apgeochem.2021.105053. Venkiteswaran JJ, Jasiak I, Telford JV, Wolfe BB, Hall RI, Schultz MDJ, Couture R-M. Intifying arsenic post-depositional mobility in lake sediments impacted by gold ore sub-arctic Canada using inverse diagenetic modelling. Environmental Pollution D.1016/j.envpol.2021.117723. 21. Spatiotemporal patterns of arsenic, antimony, and lead deposition in a sub- mining region of Canada. MSc thesis. University of Waterloo. nandle.net/10012/16725
 Leclerc É. 2 l'activité m Leclerc É, C depositiona using invers Jasiak I, Wo patterns of 	021. Mobilité de l'arsenic dans les sédiments de lacs subarctiques contaminés par inière. MSc thesis. Université Laval. http://hdl.handle.net/20.500.11794/68417 couture R-M, Venkiteswaran JJ. 2021. Data for: Quantifying arsenic post- al mobility in lake sediments impacted by gold ore roasting in sub-arctic Canada se diagenetic modelling. Scholars Portal Dataverse, doi: 10.5683/SP2/TW3LGO. olfe BB, Hall RI, Venkiteswaran JJ. 2021. Data for: Evaluating spatiotemporal arsenic, antimony, and lead deposition from legacy gold mine emissions using lake ecords. Scholars Portal Dataverse, doi: 10.5683/SP2/TNYTQL.
 DOM Quantity and Quality, Metal Binding, and Toxicology Sharma S. 2021. Modeling Impact of Changing Hydroclimatic Regime on Dissolved Organic Carbon Export from Baker Creek Catchment. MES thesis. University of Saskatchewan. <i>Terrestrial Stores of Historical Metal Deposition and Transport to Aquatic Ecosystems</i> Leathers J. Assessing the potential of mining pollution-affected subarctic peatlands to act as sources of metal(loid) pollutants to downstream waters. MSc thesis in progress. Wilfrid Laurier University. Schultz M. Understanding long term role that catchment composition plays in arsenic retention. MSc thesis in progress. Wilfrid Laurier University. Aukes PJK. 2021. Disinfection By Product - Guideline Conversion App. https://paukes.shinyapps.io/dbp_guidelines/ Aukes PJK, Venkiteswaran JJ. 2021. eee2eye: Calculate evaporation to inflow ratios for lakes using a bunch of assumptions and δ¹⁸O-H₂O values. R package version 0.2.6. https://github.com/paukes/eee2eye 	
Our current activities are:	
לאו לאוולות מלוואונובא מוכי	



Present-day early-summer diffusive As fluxes across the SWI (µg cm-2 yr-1 and nmol cm-2 yr-1; vertical bars) calculated with the code PROFILE along with porewater [As] (peak concentrations, open circles) and surface water [As] (solid circles) for each lake. The long-dashed line is the CCME Guideline (see text).

Leclerc et al. 2021. https://doi.org/10.1016/j.envpol.2021.117723