



Project Summary, Milestones, Payment Schedule and Quarterly Update Reports

Report Date: January 10, 2025

Project Summary

Project Title:	Evaluation of Chloride Soil Groundwater Partitioning, in Support of Guideline Updates
Lead Investigator:	Daniel Pollard
AUPRF Managed Funds Award Amount:	\$185,000
PTAC Technical Champion:	
GL #:	
Project Total Cost (all years)	\$215,000
Leveraged Cash Funding (all years)	\$215,000
Leveraged In-Kind Funding (all years)	\$30,000
Start Date:	Proposed: July 2024 Actual: October 2024
Completion Date:	Proposed: June 2025
Final Report Due Date:	June 2025

Provide a brief description of the challenges this project aims to address and how industry and others will benefit, including what the anticipated impact is. (i.e., cost reductions, improved environmental performance, impact on regulation, enhanced access to resources). (Maximum 150 words or less)

It is often not feasible to remediate complex chloride impacted sites to generic guidelines. These complex sites are usually managed through Tier 2 and/or site-specific risk assessments, that include chloride fate and transport modeling. In a groundwater transport model that assesses the exposure risk of chloride, the chloride plume must be defined in groundwater in order to predict where the chloride may migrate to, and when concentrations will peak. Soil data has great value in increasing the resolution of a groundwater plume model. However, there is inherent uncertainty in the correlation between soil chloride and groundwater concentrations, including those based upon both literature and site-specific values. Incorrect correlation coefficients can over or underestimate the mass and extent of a contaminant plume and thus influence the conceptual site model, the perceived risk, and associated remedial measures.

List scope key milestones with invoicing schedule. Include quarterly estimates.

Milestone	Planned Expenditures ¹	Actual Expenditures	Status
Q2 (Jul 1 – Sep 30) 2024			The contract was not fully executed.
1	\$	\$	Work was formally initiated in October.
2	\$	\$	
3	\$	\$	
4	\$	\$	
Q3 (Oct 1 – Dec 31) 2024			
1. Literature Review	\$	\$5,209.58	In progress
2. Data Compilation	\$	\$9,622.73	In progress
3. Lab Method/Analytical	\$	\$2,112.08	In progress
4.	\$	\$	
Q4 (Jan 1 – Mar 31) insert year			
1.	\$	\$	
2.	\$	\$	
3.	\$	\$	
4.	\$	\$	
Q1 (Apr 1 – Jun 30) insert year			
1.	\$	\$	
2.	\$	\$	
3.	\$	\$	

¹ All expenditures in Canadian dollars and must exclude GST and other applicable taxes.

4.	\$	\$	
Total		\$16,944.38	

Quarterly Update

Exception Highlight for the Quarter:

(any exceptions to the original project scope, timelines, payment schedule / amount(s) OR early significant findings) – this can be left blank if no changes are needed, and do not include exceptions already reported.

1.
2.
3.

Update on scope, key questions, gap analysis and work performed this quarter (include any requests for assistance to PTAC or the committees)

Literature review, data compilation, and laboratory analysis in progress.
Literature Review: Review of existing literature is largely completed and initial reporting in progress. Literature focuses on a review of existing isotherm documentation and factors that can influence partitioning.
Data Compilation: Review and compilation of existing Matrix sites and preliminary QC/evaluation of scaling factors. Based on initial data compilation a query to pull in additional site data is in progress.
Laboratory Analysis: AGAT has soil and GW samples from 1 site. GW analysis is completed, and soil analysis is in progress.