

Preliminary Phase II Monitoring Summary Report

Site	Landfill Name	Landfill Type	Completed Monitoring Events	Future Monitoring Events	Next Monitoring Year #	Most Recent Overall Landfill Performance Rating <sup>1</sup>	Any Concerns Identified Related to Soil Sampling Results?	Any Concerns Identified Related to Groundwater Sampling Results?	Does Ground Temperature Data from Thermistors Indicate Frozen Conditions? <sup>2</sup>	Notes/ Actions Taken/ Recommendations <sup>3</sup>	# Soil Sampling Locations	# Monitoring Wells	# Wells In Good Condition <sup>4</sup>	#Thermistors	# Thermistors in Good Condition
CAM-5 Mackar Inlet															
	Lower Site - South	Regrade	Phase I 2011 2012	Phase II 2025 2035	15	Acceptable	No	-	-	Acceptable rating and soil results indicate landfill is performing as designed. No current recommendations for actions beyond scope of regular monitoring program.	5	-	-	-	-
	NHWL	Non-Hazardous Waste	2013 2014 2015			Acceptable	No	-	-	Acceptable rating and soil/water results indicate landfill is performing as designed. No current recommendations for actions beyond scope of regular monitoring program.	3	3	3	-	-
	USAF & Asbestos	Regrade	Phase II 2017 2018 2022			Acceptable	No	-	-	Acceptable rating and soil results indicate landfill is performing as designed. No current recommendations for actions beyond scope of regular monitoring program.	3	-	-	-	-
	Tier II	Tier II Soil Disposal				Acceptable	No	No	Yes	Acceptable rating and soil/water results indicate landfill is performing as designed. No current recommendations for actions beyond scope of regular monitoring program. Thermal performance will be evaluated in more detail in upcoming study.	4	4	3	4	4
Reference: "Landfill Monitoring Program 2022 CAM-5 Mackar Inlet" (Sila/Englobe, 2023) Report Signed and Stamped by Geotechnical Engineer Martin Fleury, P.Eng. (QC, NU/NT)															

Notes:

1. Acceptable landfill performance is defined as: "Noted features are of little consequence. The landfill is performing as designed. Minor deviations in environmental or physical performance may be observed, such as isolated areas of erosion, settlement."
2. Evaluation based on review of most recent ground temperature data.
3. As Phase II monitoring will not be completed until the 2030s, an assessment of how the landfills are expected to perform beyond Phase II has not yet been completed.
4. Includes all wells that are consistently sampled, including those with minor maintenance issues that do not interfere with the ability to collect samples.

Landfill Types:

**Regrade** Existing landfills that were regraded and capped with gravel.

**Non-Hazardous Waste** Landfills constructed during DEW Line Clean-Up to contain non-hazardous waste.

**Tier II Soil Disposal Facility** Landfills constructed during DEW Line Clean-Up to contain Tier II contaminated soils (as defined by the DEW Line Clean-Up Criteria);  
Constructed with an impermeable liner underneath and on top, as well as saturated granular fill berms keyed into the permafrost; and,  
Sufficient cover of granular material was placed to promote permafrost aggradation into the saturated berms and throughout the landfill contents.