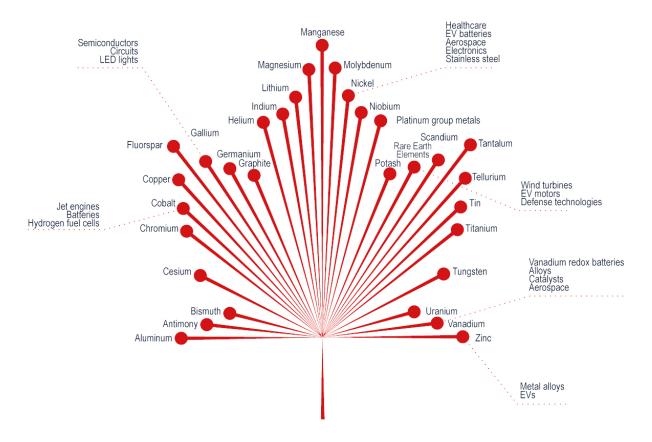




## Critical Minerals Potential in Canadian Mine Tailings

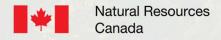
### Critical Minerals & Mining Value from Waste

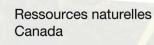




Source: The Canadian Critical Minerals Strategy, From Exploration to Recycling: Powering the green and digital economy for Canada and the world (Natural Resources Canada, 2022)

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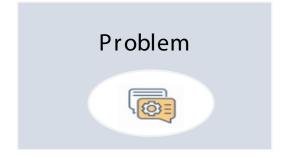






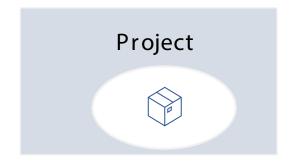


# Critical Minerals Potential in Canadian Mine Tailings









#### Gaps exist in:

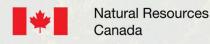
- Tailings characterization
- Value potential
- Tools & best practises to assess for resource definition

- Existing sources of critical minerals
- Carbon capture potential
- Waste valorization
- Reduce footprint
- Assess hazards
- Mitigate liability

- Inventory & characterize tailings in Canada
- Reduce uncertainty/ identify value
- Full use mining- inform policy

- 1. Mine Tailings Inventory
- 2. Tailings Sampling Program on historical site; test resource definition from tailings (per NI 43-101)

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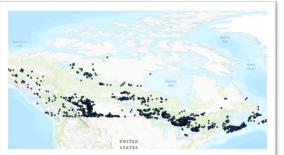
## Critical Minerals Potential in Canadian Mine Tailings

#### Mine Tailings **Inventory Data** Model

- Sourced, compiled, standardized
- NOAMI, GTP, P/Ts, **GISTM**
- PoC framework
- IP-IM/IT architecture
- Data governance
- Storage, maintenance, ownership
- Geospatial & interface

Canada





Name	CMIM ID	Site Aliases V Li	st Revised - NA	D v UI	TM Zone V East	ing × N	forthing * L	atitude 💌 t	ongitude Count	try Province Territo	y NTS Area	▼ Mining District	▼ Commodity1	▼ Commodity2	· Comn
Afton	BC000001	Afton, Pothook, Coquihalla Wi	2023-03-27	83	10	675628	5615087	50.394	-120.3054 CA	BC	092109W	Kamloops	Cu	Au	Ag
	BC000002	Whyo, Wanderer	2023-03-27												
in Mine	BC000003	O.K., Chataway, IOU, Apex, Al	2023-03-27			651076	5600473	50.48	-121.106 CA		092106E	Kamloops		Ag	
											094E06E				
n Coal Mine	BC000005	Coalmont Colliery, Blakeburn !	2023-03-27			662645	5484260	49.2921	-120.4515 CA		092H07E	Similkameen	Coal	Bentonite	
		Highland Bell, Beaverdell, Bell													
Mine	BC000007	Bell Copper, Bell	2023-03-27			323288	5661564	55.002	-126.232 CA		082M04E			Ag	
									-122.48999 CA						
anza Ledge Mine	BC000009	St. Laurent, Mucho Oro, NW, K	2023-03-27			597370	5881240	53.071666	-121.54666 CA		093H04E	Cariboo			
		Brynnor, Timothy Mountain, H									093A02W				
orne Gold Mine	BC000011	Bralorne Mine, Lorne, King, W-	2023-03-27			512632	5624910		-122.82222 CA		092J15W	Lillooet		Ag	
	BC000012		2023-03-27				5529525	49.879443	-120.00638 CA						
ejack Mine	BC000013	West, Sulphurets, West Brucej	2023-03-27			426600	6258750	56.467499	-130.19138 CA		104808E	Skeena	Au	Ag	
	BC000014		2023-03-27								093P05W				
moose Mine	BC000015	Bullmoose, South River, West	2023-03-27			596000	6109000	55.0706	-121.2941 CA		093P03W	Liard	Coal		
	BC000016		2023-03-27				6576528		-129.4905 CA		104P05W				
Mountain Operations	BC000017	Byron Creek, Corbin Colliery, E	2023-03-27			669467	5485674	49.3	-114.3934 CA		082G07E	Fort Steele	Coal		
per Mountain Mine	BC000018		2023-03-27						120.3203 CA						
gmont Mine	BC000019	Craigmont, Craigmont Tailings	2023-03-27			647983	5563760	50.1227	-120.5534 CA		092102W	Kamloops			Ag
	BC000020		2023-03-27								082E04E				
iold Mine	BC000021		2023-03-27												
	BC000022	Elkview, Westar Balmer, Harm	2023-03-27			656380			-114.4939 CA						
iko	BC000023	Endako Mine, Stella, Boot, Jay,	2023-03-27			361820	5989599	54.021	-125.0636 CA		093K03E	Omineca	Mo		
ty Silver Project	BC000024	Sam Goosly, S.G., Main, Water	2023-03-27	83		678550	6008059	54.1122	-126.1548 CA	BC	093L01W	Omineca			Pb
y Creek Mine	BC000025	Mackay, Eskay, Emma, Kay, Tol	2023-03-27	83	9	412397	6279772	56.3914	-130.2544 CA	BC	104B09W	Liard, Skeena	Au	Ag	Zn
ing River Operations	BC000026	Eagle Mountain, Fording South	2023-03-27			654068			-114.5029 CA						
owai Bull River Mine	BC000027	Bull River, Big Bonanza, Steepl	2023-03-27	83	11	616868	5484663	49.3012	-115.2309 CA	BC	082G11W	Fort Steele	Cu	Ag	Au
t Nickel Mine	BC000028	Pride of Emory, Discovery, Gia	2023-03-27	83	10	607639	5481292	49.2829	-121.3051 CA		092H05E	New Westminster		Cu	
alter Mine	BC000029		2023-03-27	83					CA	BC			Cu	Mo	
en Bear Mine	BC000030	Bear Main, Muddy Lake, Grizzh	2023-03-27			659005	659005	58.1239	-132.1737 CA	BC	104K01W	Atlin			
stream Mine	BC000031	Goldstream, Revelstoke	2023-03-27	83	11	401091	5720298	51.373	-118.2544 CA	BC	082M09W	Revelstoke	Cu	Ag	Au
isle Mine	BC000032	Macdonald Island, Copper Isla	2023-03-27	83	9	682074	6092308	54,564	-126.0926 CA	BC	093L16E	Omíneca	Cu	Ag	Au
ohills Operations	BC000033	Greenhills Fording Wester O	2023-03-27	83	- 11	652213	5553155	50.064	-114 5216 CA	BC.	082102W	Fort Steele	Coal		

### 2. Tailings Sampling Protocol & Program

- Tailings Sampling Protocol report (2022)
  - Recommended best practises & sampling requirements of tailings.
- Tailings Sampling Program (2024)
  - Test proposed sampling methods on use case site
  - Define CM potential in tailings in context NI 43-101

Ressources naturelles

