

Table VIII
Genetic Classification of Canadian Radioactive Deposits

	Types		Characteristic Elements	Characteristic Uraniferous Minerals	Other Characteristic Minerals
IGNEOUS AND RELATED TYPES	<u>Granite, Syenite (including pegmatitic facies)</u>		Th U Zr Si (Ce Fe P F)	Uraninite, uranothorite, thorite, zircon, monazite	Magnetite, sphene, allanite, fluorite
	Pegmatite		U Th Nb Ta (Zr Si Ce P Fe F Ti Mo C)	Uraninite, pyrochlore, betafite, euxenite, samarskite, thucholite, brannerite	Molybdenite, biotite, magnetite, allanite
	Metasomatic	General	U Th Ce P Si (F Mo Fe S)	Uraninite, thorianite, thorite, monazite, rare earth silicates	Biotite, apatite, pyrite, fluorite, molybdenite, magnetite
		Fenites	U Th Nb (Ta Ce P F Ti Fe S)	Pyrochlore, betafite, perovskite	Calcite, soda pyroxene and amphibole, apatite, biotite, magnetite
	<u>Hydrothermal</u>	With simple mineral associations	U C Fe	Pitchblende, 'thucholite'	Hematite, quartz, calcite
		With complex mineral associations	U C Fe (Cu Co Pb Se V Ni As Au Pt)	Pitchblende, 'thucholite'	Hematite, quartz, calcite, chlorite, chalcopyrite, galena, pyrite, arsenides, selenides, nolanite
SEDIMENTARY	Placer		Th U Ce P Zr Fe (Nb Ta Ti W Sn)	Monazite, uraninite, pyrochlore, zircon	Magnetite, garnet, ilmenite, pyrite, etc.
	<u>Conglomerate</u>		U Th Ti Ce P Fe (Cr Zr C)	Brannerite, uraninite, monazite, uranothorite, zircon	Pyrite, anatase, chromite, traces of common sulphides, hydrocarbon, etc.
	Sandstone		U Ca P	Autunite, phosphuranylite	Hematite
	Dolomite		Th U Fe	Monazite	Hematite, zircon
	Phosphate rock ¹		U Ca P C	Unknown	Collophanite, bitumen
	Carbonaceous		U C H	Unknown	Bitumen, lignite
SUPERGENE	Cappings		Fe U Si Se V As S Al Mn (Pb Cu Co Ni)	Uranophane, liebigite, zippeite, gummite, etc.	Limonite, erythrite, malachite, etc.
	Formed by percolating water		U Si S	Uranophane, secondary (?) pitchblende, 'thucholite' (?)	Barite, gypsum

Types now in production are underlined.

¹ Only known examples in amounts below 0.05% U₃O₈ or ThO₂.

This document was produced
by scanning the original publication.

Ce document est le produit d'une
numérisation par balayage
de la publication originale.