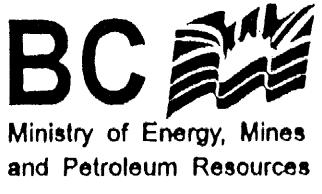


MINERAL DEPOSIT PROFILE TABLES

LISTED BY DEPOSIT GROUP



1895 - 1995
100
YEARS OF GEOLOGICAL SURVEYING

Geological Survey Branch
OPEN FILE 1995-8

MINERAL DEPOSIT PROFILE TABLES

Sheet 1 of 2

By David V. Lefebure, Dani J. Alldrick and George J. Simandl

BC PROFILE #	DEPOSIT TYPE	SYNONYMS	GLOBAL EXAMPLES	B.C. EXAMPLES
Deposit (Province, State or Country)				
A - ORGANIC				
A01	Pest		Ireland, Ontario, New Brunswick	Fraser Delta, North Coast
A02	Lignite coal	"Brown coal"	Estevan (Saskatchewan)	Skiomoni Point (Graham Island)
A03	Sub-bituminous coal	Thermal coal, Black lignite	Hightvale (Alberta), Powder River Basin (Wyoming)	Hat Creek, Princeton
A04	Bituminous coal	Coking coal, Thermal coal	Gregg River (Alberta), Sydney Coalfield (Nova Scotia)	Quintette, Bullmoose, Greenhills, Fording
A05	Anthracitic coal	Stone coal	Pennsylvania Coalfields, Camrose (Alberta)	Mt Kleppan
B - RESIDUAL/SURFICIAL				
B01*	Laterite Fe	Gossan Fe	Glenravel (Ireland), Araxa (Brazil)	Riddle (Oregon)
B02*	Laterite Ni			
B03*	Laterite-Saprolite Au	Eluvial placers	Boddington, Mt. Gibson (Australia), Akaiwang (Guyana)	
B04*	Bauxite Al	Lateritic bauxite	Queensland, Poco de Caldas (Brazil), Salem Hills (Oregon)	Florence (Sooke)
B05*	Residual kaolin	Primary kaolin	Germany, North Carolina, Idaho	Lang Bay, Sumas Mountain
B07*	Bog Fe, Mn, U, Cu, Au		Trois Rivières (Québec)	Whipple Creek, Limonite Creek
B08*	Surficial U	"Calcrete U"	Florelle Creek (Washington)	Prairie Flats
B09*	Karst-hosted Fe, Al, Pb-Zn		Transvaal (Pb-Zn, South Africa), Sardinia (Pb-Zn), Jamaica (Al)	Villalba (Fe)
B10	"Terra Rossa" Au-Ag	Residual Au; Precious metal gossans	Rio Tinto (Spain)	Villalba
B11*	Marl			Cheam Lake (Chilliwack)
B12*	Sand and Gravel			
C - PLACER				
C01	Surficial placers	Placer Au-PGE-Sn-diamond-mag-gar-gems	North Saskatchewan River (Saskatchewan), Nome (Alaska)	Fraser River, Quesnel River, Graham Island
C02	Buried-channel placers		Livingstone Creek (Yukon), Valdez Creek (Alaska)	Williams Creek, Otter Creek, Bullion mine
C03*	Marine placers	Off-shore heavy mineral sediments	New South Wales & Queensland (Australia)	Middlebank (off north end of Vancouver Island)
C04*	Paleoplacer U-Au-PGE-Sn-Ti-diam-mag-gar-zir	Quartz pebble conglomerate Au-U	Elliot Lake & Blind River (Ontario), Witwatersrand (South Africa)	Mulverhill
D - CONTINENTAL SEDIMENTS AND VOLCANICS				
D01	Open-system zeolites		Ash Meadows (California), John Day Formation (Oregon)	Princeton Basin, Cache Creek area
D02	Closed basin zeolites		Bowie (Arizona), Lake Magadi (Kenya)	
D03	Volcanic redbed copper	Basaltic Cu	Keweenaw (Michigan), Coppermine (Northwest Territories)	Sustut
D04*	Basal U		Sherwood (Washington)	Blizzard, Tyee
D05*	Sandstone U	Roi Front U, Tabular U	Colorado Plateau, Grants (New Mexico)	
D06*	Volcanic-hosted U	"Epithermal" U, Volcanogenic U	Marysville (Utah), Aurora (Oregon)	Rexspur, Bullion (Birch Island)
D07	Iron oxide Cu-Al-U breccias and veins	Olympic Dam type, Kiruna type	El Romerito (Chile), Sue-Dianne (Northwest Territories)	Iron Range
E - SEDIMENT-HOSTED				
E01*	Almaden Hg		Almaden (Spain), Santa Barbara (Peru)	
E02*	Kipushi Cu-Pb-Zn	Carbonate-hosted Cu-Pb-Zn	Tsumeb (Namibia), Kipushi (Zaire), Ruby Creek (Alaska)	
E03*	Carlin-type sediment-hosted Au-Ag	Carbonate-hosted Au-Ag	Carlin, Getchell & Cortez (Nevada)	
E04*	Sediment-hosted Cu	Sandstone Cu, Sediment-hosted stratiform Cu	Kupferschiefer (Germany & Poland), White Pine (Michigan)	Sage Creek
E05*	Sandstone Pb		Laisvall (Sweden), George Lake (Saskatchewan)	
E06*	Bentonite	Volcanic clay, Soap clay	Black Hills (Wyoming), Rodalquilar (Spain)	Princeton, Quilichena
E07*	Sedimentary kaolin	"Secondary" kaolin	Cordova District (Alabama), Ozark Region (Missouri), Felipe (Brazil)	Sumas Mountain, Quinsam
E08*	Carbonate-hosted talc	Dolomite-hosted talc	Treasure Min (Montana), Trimouns (France), Henderson (Ontario)	Red Mountain, Silver Dollar
E09	Sparry magnesite	Veitsch-type, carbonate-hosted magnesite	Eugui (Spain), Veitsch (Austria)	Mt. Brussilof, Driftwood Creek
E10	Mississippi Valley type barite		Illinois - Kentucky, Italian Alps	Muncho Lake
E11	Mississippi Valley type fluorite		Illinois - Kentucky, Italian Alps	Liard Fluorite
E12	Mississippi Valley type Pb-Zn	Carbonate-hosted Pb-Zn, Appalachian Zn	Viburnum Trond (Missouri), Pine Point (Northwest Territories)	Rob Lake, Monarch
E13	Kootenay Arc type Pb-Zn		Navin & Tynagh (Ireland)	Reeves MacDonald, H.B., Aspen, Duncan
E14	Sedex Zn-Pb-Ag	Sediment-hosted massive sulphide	Mount Isa (Australia), Faro & Grum (Yukon)	Sullivan, Cirque, Driftpile
E15	Blackbird massive sulphide Cu-Co	Sediment-hosted Cu-Co massive sulphide	Blackbird & Sheep Creek (Montana), Boleo (Mexico)	Nick (Yukon), Tianshan & Zunyi (China)
E16	Sediment-hosted Ni		Tsa (Yukon), Macgobar (Ireland)	Kwadacha
E17	Sediment-hosted barite	Bedded barite		
F - CHEMICAL SEDIMENT				
F01	Sedimentary Mn		Molongo (Mexico), Atasu (Kazakhstan), Kalahari (South Africa)	
F02	Bedded gypsum / anhydrite	Marine evaporite gypsum	Paris Basin (France), Appalachian Basins (New York, Pennsylvania)	Lussier River, Windermere
F03	Gypsum-hosted sulphur	Frasch sulphur	Texas, Louisiana, Poland, Coronation (Alberta)	Trutch area
F04*	Bedded celestite		Lake Enon (Nova Scotia), Mexico, Germany	Kitsault Lake
F05*	Polygorskite	Attapulgite	Metalline Falls (Washington)	
F06*	Lacustrine dolomite	Diatomaceous earth, Kieselguhr	Juntura and Trout Creek Formations (Oregon), Lake Myvatn (Iceland)	Crownite Formation (Quesnel)
F07*	Phosphate, upwelling type		Phosphoria Formation (Idaho), Mekala (Morocco)	Fernie synclinorium
F08*	Phosphate, warm-current type		Athabasca Basin (Saskatchewan), Florida	
F09*	Playas	Hydromagnesite, Na carbonate lake brines		Milk River
F10*	Superior type iron formation		Mesabi Ranges (Minnesota), Minas Gerais (Brazil)	Falcon
G - MARINE VOLCANIC ASSOCIATION				
G01	Algoma Fe		Vermilion iron formation (Minnesota), Helen mine (Ontario)	
G02	Volcanogenic Mn		Olympic Mountain (Washington), Nicoya (Costa Rica)	
G03*	Volcanogenic anhydrite / gypsum		Besshi (Japan), Greens Creek (Alaska)	Britannia, Falkland
G04*	Besshi massive sulphide Zn-Cu-Pb	Kieslager	Cyprus, Oman	Goldstream, Windy Craggy
G05*	Cyrus massive sulphide Cu		Horne & Millerbach (Québec), Kuroko District (Japan)	Anox, Chu Chu
G06*	Noranda / Kuroko massive sulphide Cu-Pb-Zn		Osorezan (Japan)	Britannia, Kutcho Creek, Myra Falls
G07	Subaqueous hot spring Ag-Au		Eskay Creek	Eskay Creek
INTRODUCTION				
The British Columbia Geological Survey Branch (BCGS) started a mineral potential assessment of its province in 1992 utilizing deposit models for defining and characterizing mineral and coal deposits which exist, or for which favourable geological environments exist, in the province. This document is for the resource assessment process as described by Comiskey et al. (1994), Lefebure et al. (1995) and Gruber (1995). A fundamental part of this process is compilation of information about deposit models, including descriptions, classification and resource data (Lefebure et al., 1995). Existing deposit models are being used to classify known deposits and to assist in the estimation of the number of undiscovered deposits. These deposit models are being used to estimate the number of undiscovered mineral deposits, and to group deposits to allow compilation of representative grade and tonnage data.				
These deposit models are called "deposit profiles" to distinguish them from other published descriptions, such as the USGS "deposit models". One of the main purposes of these profiles will be to assist in the identification of industry and research geologists who are invited to contribute to the continuing evolution of these deposit models. Better models assist both the exploration component and resource assessment geologists. One of the objectives of this Open File is to provide a resource assessment criteria for readers which can assist the authors, especially by identifying additional deposit models and deposit examples that could be included. We can be contacted at the following addresses:				
Dave Lefebure (604) 952-0404 dlefebure@gov.bc.ca Dani Alldrick (604) 952-0412 daliidrich@gov.bc.ca George Simandl (604) 952-0413 gsimandl@gov.bc.ca				
B.C. Geological Survey Branch, Ministry of Energy, Mines and Petroleum Resources 1810 Blanshard Street, Victoria, B.C. V8V 1X4 fax (604) 952-0381				
B.C. MINERAL DEPOSIT PROFILES				
The best method for defining deposit models is to define a series of headings which will fit on two or three pages. This format is similar to those for deposit models published by the GSC and the USGS (Eckstrand, 1984; Cox and Singer, 1986). They are designed to be primarily descriptive because the ultimate purpose of the resource assessment process is to identify the most promising areas for mineral exploration. As with the deposit models, these profiles are intended to be global models and sufficient information to describe the deposit type anywhere in the world. However, they incorporate more information specific to British Columbia with respect to tectonic setting, age of mineralization, examples, references, etc.				
A number of deposit types that are not relevant to British Columbia have not yet been addressed by these profiles. For example, there seems to be no deposit model for the "low-sulfidation epithermal" type deposits in the province. These deposit models have been partially developed by industry geologists. More than 140 general deposit models are thought to be relevant to British Columbia, including 79 metal, 70 industrial, 10 coal, 1 oil and gas, and 2 potash. The deposit profiles in this Open File are for the most part generic. They are being used to estimate the number of possible undiscovered mineral deposits, and to group deposits to allow compilation of representative grade and tonnage data.				
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ACKNOWLEDGMENTS				
The authors would like to thank all the economic geologists who have contributed their input to the deposit profiles as this is truly a team effort. Branch staff have contributed the majority of the deposit models and participated in number of meetings to determine which deposit types should be included. Thanks to Chris Ash, Neil Chisholm, Tim Cook, David Grivell, Kirk Hancock, Dan Hodge, Andre Lantuejoul, Don McLean, Nick Massey, JoAnne Nelson, Graham Nixon, Andrew Panteleyev, Tom Schuster and Paul Wilson for much appreciated.				
A number of geologists from government, universities and industry have also written co-authored profiles allowing us to tackle more deposit models. Staff of the Geological Survey of Canada have been particularly helpful. Tyson Birkett, Thomas Fenninger, Suzanne Paridis, A. Sabrina, Don Schuster, and Michael St-Onge have all contributed as active co-authors. Ian Knueppel and Christopher Pilarczyk of Daymag, Peter Cerny of the University of Manitoba, Wilfred Kenan of Astrograph Minerals Inc. and Eric Forest, Greet Oris and Richard Shepard of the United States Geological Survey have willingly shared their expertise by co-authoring profiles.				
Nick Birkett, Michael St-Onge, Suzanne Paridis, and Robert Brown of the British Highways of Queen Charlotte Reservoir Corporation were among the first users of the draft profiles and related indicators as they chose the MINFILE occurrences. They provided key insights into the choice of deposit models.				
Many people have made useful suggestions, including Dennis Cox and Ted Theodore of the USGS, Ken Dawson and Rod Kirkham of the GSC, and John Thompson of the University of British Columbia. The final version of this Open File includes a number of suggestions from Dan Hora and Gerry Ray which were particularly helpful.				
CLASSIFICATION				
The best method for defining deposit types continues to be the use of deposit models. This reflects the difficulty in any definition of complex natural phenomena, particularly when some deposit types are end members of a continuum. The many classification systems developed by Agricola are testimony to the elusive nature of identifying one satisfactory classification scheme for mineral deposits. The reader is directed to consult by Jentzsch (1979) and Peter (1978) for a review of different classification systems.				
With our profiles, the approach has been to regard the deposit models as the primary source of information for defining deposit types and for placing the models into a useful context for the user. Profiles will be published with multiple indexes, such as by deposit examples, commodity and host lithology. An excellent example of providing indexes to mineral deposit models is the Canadian Commodity Index (1993).				
Two classification schemes for British Columbia deposit profiles are presented in this open file. Sheet 1 is organized by deposit groups which are				

LISTED BY LITHOLOGICAL AFFINITIES

Note: B01* - asterisk beside profile number indicates no draft profile completed
(Sediment-hosted Ni) - not the most common lithological affinity for the deposit profile

DEPOSIT TYPE	SYNOMYS	GLOBAL EXAMPLES Deposit (Province, State or Country)	B.C. EXAMPLES	BC U.S.G.S.
			PROFILE #	MODEL #

UNCONSOLIDATED DEPOSITS

Peat	Ireland, Ontario, New Brunswick	Fraser Delta, North Coast	A01	--
Bog Fe, Mn, U, Cu, Au	"Calcrete" U	Trois Rivières (Québec)	B07*	--
Surficial U	Gossan Fe	Flooded Creek (Washington)	B08	--
Residual	Gossan Fe	Glenavon (Ireland), Araxa (Brazil)	B01*	--
Laterite Fe	Gossan Fe	Rudite (Oregon)	B02*	38a
Laterite-Ni	Eluvial placers	Boddington (Australia), Akawana (Guyana)	B03*	38g
Laterite-Saprolite Au	Lateritic bauxite	Pocos de Caldas (Brazil), Salem Hills (Oregon)	B04*	38b
Bauxite Al	Primary kaolin	Germany, North Carolina, Idaho	B05	38*
Residual kaolin		South Africa (Pb-Zn), Jamaica (Al)	B09*	--
Karst-hosted Fe, Pb-Zn		Villalba (Fe)	B10	--
"Terra Rossa" Au-Ag	Residual Au; Precious metal gossans	Rio Tinto (Spain)	B12*	--
Alluvium			C01	39a
Sand and Gravel		North Saskatchewan River (Saskatchewan), Nome (Alaska)	C02	39a
Surficial placers	Placer Au-PGE-Sn-U-diam-mag-garn-gems	Livingstone Creek (Yukon), Valdez Creek (Alaska)	Middlebank (north of Vancouver Island)	C03* 39f?
Buried-channel placers				
Marine				
Marine placers	Off-shore heavy mineral sediments	Australia (New South Wales, Queensland)		

SEDIMENTARY ROCKS

CHEMICAL SEDIMENTARY ROCKS				
(Sediment-hosted Ni)				
Sedimentary Mn	Attaupalite	Nick (Yukon), Tianshan & Zunyi (China)	E16	--
Polygyrosite		Unguia (Brazil), Khibiny (Kazakhstan)	F01	--
Phosphate, upwelling type		Meashin Falls (Washington)	F04*	34a*
Phosphate, warm-current type		Phosphoria Formation (Idaho)	F07	34c
Superior Type iron formation		Athabasca Basin (Saskatchewan), Florida	F08	34d
Playa Evaporites		Mesabi Range (Minnesota), Minas Gerais (Brazil)	F10*	34a
Playas	Hydromagnesite, Na carbonate lake brines			
Lacustrine		Milk River	F09*	35ba
Marine Evaporites		Cheam Lake (Chilliwack)	B11*	--
Bedded gypsum / anhydrite	Marine evaporite gypsum	Paris Basin (France), Appalachian Basins (USA)	F02	35ae
Gypsum-hosted sulphur	Frasch sulphur	Texas, Louisiana, Poland, Coronation (Alberta)	F03	--
Bedded celestite		Lussier River, Windermere	F04*	35aa
CARBONATE ROCKS		Trutch area		
No Associated Igneous Rocks		Kitsault Lake		
Kipushi Cu-Pb-Zn	Carbonate-hosted Cu-Pb-Zn	Kipushi (Zaire), Tsumeb (Namibia), Ruby Creek (Alaska)	E02*	32c
Carbonate-hosted talc	Dolomite-hosted talc	Red Mountain, Silver Dollar	E08	187*
Sparry magnesite	Veitisch-type, carbonate-hosted magnesite	Mt. Brussel, Driftwood Creek	E09	18*
Mississippi Valley type barite		Muncho Lake	E10	--
Mississippi Valley type fluorite		Larder Lake	E11	32a*
Mississippi Valley type Pb-Zn		Robt-Lake Monarch	E12	32a/2b
Koolan Arc type Pb-Zn	Tufa	Reeves MacDonald, H.B., Aspen	E13	--
Tatertine		Clinton, Stocan	H01*	35d*
(Vein barite)		Muncho Lake	H02	19a
(Polymetallic mantos Ag-Pb-Zn)	Polymetallic replacement deposits	Bluebell	J01	14c
(Sn mantos and stockworks)	"Replacement Sn"		J02	19b
(Mn veins and replacements)	"Replacement Mn"		J03	19b
Sulphide manto Au	Au-Ag sulphide mantos	Ketza River (Yukon)	K09	--
Lignite		Mosquise Creek, Island Mountain		
Dolomite		Tekoda Island, Quatsino Belt	R09	--
Associated Igneous Rocks		Crawford Bay, Rock Creek	R10*	--
Carlin-type sediment-hosted Au-Ag	Carbone-hosted Au-Ag	Carlin (Nevada)	E03	26a, 19c
Polymetallic mantos Ag-Pb-Zn	Polymetallic replacement deposits	East Tintic (Utah), Naico (Mexico), Sa Dena Hess (Yukon)	J01	19a
Sn mantos and stockworks	"Replacement Sn"	Midway	J02	14c
Mn veins and replacements	"Replacement Mn"		J03*	19b
(Cu skarn)			K01	19a, b
Zn skarn		Craigmont, Phoenix	K02	18c
(Fe skarn)		Piedmont, Contact	K03	18d
(Au skarn)		Tasu, Jessie, Merry Widow	K04	--
(W skarn)		Nickel Plate	K05	14a
(Sn skarn)		Emerald Tungsten, Dimac	K06	14b
(Garnet skarn)		Daybreak	K07	--
(Wolastonite skarn)		Crystal Peak	K08	--
CLASTIC SEDIMENTARY ROCKS		Mineral Hill	K09	18g
Biogenic				
(Phosphate, upwelling type)				
(Phosphate, warm-current type)				
Clay				
(Bentonite)	Volcanic clay, Soap clay	Phosphoria Formation (Idaho), Mekala (Morocco)	F07	34c
Secondary kaolin	"Secondary" kaolin	Appalachian Basin (Saskatchewan), Florida	F08	34d
Shale-Siltstone		Princeton, Quichens	E06	28a?
Lignite coal	"Brown coal"	Black Hills (Wyoming), Pembina District (Manitoba)	E07*	31k
Sub-bituminous coal	Thermal coal, Black lignite	Sumas Mountain, Quinsam		
Bituminous coal	Coking coal, Thermal coal			
Anthracitic coal				
(Polymetallic sediment-hosted Au-Ag)		Estevan (Saskatchewan)	A02	--
Sediment-hosted Cu	Carbonate-hosted Au-Ag	Highvale (Alberta), Powder River Basin (Wyoming)	A03	--
Sedex Sn-Pb-Ag-S	Sediment-hosted massive sulphides	Sydney Coalfield (Nova Scotia)	A04	--
Blackbird massive sulphide Cu-Co	Sediment-hosted massive sulphides	Mt Klappan	A05	--
Sediment-hosted Ni			E04*	30b
Besshi massive sulphide Zn-Cu-Pb	Mount Isa (Australia), Faro, Grum (Yukon)	Sullivan, Cirque, Driftpile	E14	31a
Polymerized veins Ag-Pb-Zn			E15	24d
Cu-Au veins		Kwadisha	E16	--
Vein barite		Goldsborough, Windy Cragsy	E04	24b
(Barite-fluorite veins)		Highland Bell, Lucky Jim	I08	22c, 25b
Columbia-type emerald deposits		Keno Hill (Yukon)	I09	22c, 25b
Cement shale		Parson, Bricco	I10	IM27e
Expanding shale		Stone Mountain Park (Alaska Hwy)	Q06	31c
Feldspar			R01	--
Sandstone		Dunsmuir shale, Sumas Mountain	R02	--
(Sub-bituminous coal)		Nanaimo shale, Saturna Island	R03	--
(Bituminous coal)			R08*	--
(Anthracitic coal)			A03	--
Basalt			A04	--
Sandstone U		Gregg River (Alberta)		
(Iron oxide Cu-Au-U breccias and veins)		Quintette, Bullmoose		
(Sediment-hosted Cu)		Mt Klappan		
Sandstone Cu			A05	--
(Sediment-hosted Cu)			A06	23
Sedex Sn-Pb-Ag-S			D04*	--
Blackbird massive sulphide Cu-Co			D05*	30c
Sediment-hosted Ni			D07*	29, 25i
Besshi massive sulphide Zn-Cu-Pb		Iron Range	E07	30b
Polymerized veins Ag-Pb-Zn		Sage Creek	E04*	30a
Cu-Au veins			E05	31a
Vein barite			E15	24d
(Barite-fluorite veins)			E03*	--
Columbia-type emerald deposits			Q08	--
Cement shale			R06*	30d*
Expanding shale			R07	30e*
Feldspar			R08*	--
Sandstone				
(Sub-bituminous coal)				
(Bituminous coal)				
(Anthracitic coal)				
Basalt				
Sandstone U				
(Iron oxide Cu-Au-U breccias and veins)				
(Sediment-hosted Cu)				
Sandstone Cu				
(Sediment-hosted Cu)				
Sedex Sn-Pb-Ag-S				
Blackbird massive sulphide Cu-Co				
(Blackbird massive sulphide Cu-Co)				
Aluminosilicates				
Australian-type opal				
Dimension stone - sandstone				
Silica sandstone				
Flagstone				
Conglomerate and Sedimentary Breccia				
Paleoplacer U-Au-PGE-Sn-Ti-diam-mag-gar-zir	Quartz pebble conglomerate Au-U	Elliot Lake (Ontario), Witwatersrand (South Africa)	C04*	39c, d,e
(Sandstone U)	Roll front U, Tabular U		D05*	30c
REGIONALLY METAMORPHOSED ROCKS				
Carbonate-hosted talc	Dolomite-hosted talc	Treasure Mountain (Montana), Henderson (Ontario)	E08	18i*
Gold-quartz veins	Mesothermal, saddle reefs	Alaska-Juneau (Alaska)	I01	36a
Turbidite-hosted gold veins		Ballarat (Australia), Meguma (Nova Scotia)	I03*	36a
Iron formation-hosted gold		Homestake (South Dakota)	I04*	36b
U veins		Uranium (South), Schwartzwalder (Colorado)	I05*	37a
Uranium-U-Au-Ni	Vein-like type U	Key Lake (Saskatchewan), Jabluka (Croatia)	M06	8d
(Asbestos)	Serpentine-hosted asbestos	Theftord (Ontario)	O01	13a*, b
Rare element pegmatite - LCT family	Zoned pegmatite (Lithium-Cesium-Tantulum)	Bikita Field (Zimbabwe), Blackhills (South Dakota)	O02	--
Rare element pegmatite - NYF family	Niobium-Yttrium-Fluorine pegmatite	South Platte district (Colorado), Bancroft (Ontario)	O03	13*
Muscovite pegmatite	Mica-bearing pegmatite	Rajasthan (India), Appalachian Province (USA)	O04*	--
Feldspar-quartz pegmatite	Barren pegmatite	Buckingham (Quebec)	P02	--
Kyanite family	"Amorphous" graphite	Willie Mountain (Alberta), NARCO (Quebec)	P03	--
Microcrystalline graphite		Kieserite (Quebec)	P04	--
Quartz-feldspar graphite		Lac Knoll (Quebec)	P05	--
Vein graphite	"Lump and chip" graphite"	Calumet & Clot (Quebec), Bogala (Sri Lanka)	P06	--
Corundum in aluminous metasediments	metamorphic gneiss and migmatite	Galatin & Madison Counties (Montana)	P07	--
(Schist-hosted emerald deposits)		Santana Dos Ferros & Itabira (Brazil)	R03	--
Dimension stone - granite		Mariaberg, Anderson Bay (Texas Is.)	R04	--
Silica sandstone	High-silica quartzite	Noborley, Nicholson	R07	30e*
Flagstone		Revelstoke	R08*	--

DEPOSIT TYPE	SYNOMYS	GLOBAL EXAMPLES Deposit (Province, State or Country)	B.C. EXAMPLES	BC U.S.G.S.
			PROFILE #	MODEL #

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