

Appendix 8

Classification Table

A standard size classification scheme has been used to ensure consistency of data capture and presentation. The system uses the weight of contained commodity with a range of cut-offs to define deposits as either:

- Very Small
- Small
- Medium
- Large
- Giant

The amount of contained commodity is defined as “the total amount of commodity contained in the known reserves/resources plus the total amount produced from the deposit”. The intention of this classification is to reflect the metal endowment of the mineralising system.

Each commodity has separate cut-off values assigned with the limits comparable to other national and international size classification schemes.

Appendix 8

SIZE CLASSIFICATION OF MINERAL DEPOSITS

Commodity	AMOUNT OF CONTAINED COMMODITY (TONNES)				
	Very Small	Small deposit	Medium deposit	Large deposit	Giant deposits
Agate	<1	1 - 10	10 - 100	>100	
Alabaster	<50	50 - 1 000	1 000 - 1 000 000	>1 000 000	
Albite	<50	50 - 1 000	1 000 - 1 000 000	>1 000 000	
Almandine	See Garnet				
Aluminium/ Alum	See Bauxite				
Amethyst	<1	1 - 10	10 - 100	>100	
Andradite	See Garnet				
Andalusite	See Refractory Minerals				
Anhydrite	See Gypsum				
Antimony	<50	50 - 5 000	5 000 - 50 000	>50 000	
Aquamarine	<1	1 - 10	10 - 100	>100	
Arsenic	<50	50 - 5 000	5 000 - 50 000	>50 000	
Asbestos	<100	100 - 100 000	100 000 - 10 000 000	>10 000 000	
Barite	<50	50 - 50 000	50 000 - 5 000 000	>5 000 000	
Bauxite	<100 000	100 000 - 100 000 000	100 000 000 - 200 000 000	>200 000 000	
Bentonite	<2 000	2 000 - 200 000	200 000 - 20 000 000	>20 000 000	
Beryllium/ Beryl	<1	1 - 10	10 - 1 000	>1 000	
Bismuth	<50	50 - 5 000	5 000 - 50 000	>50 000	
Brick clay	<2 000	2 000 - 200 000	200 000 - 20 000 000	>20 000 000	
Building Stone (eg Granite, Marble, Sandstone, Slate)	<10 000	10 000 - 100 000	100 000 - 1 000 000	>1 000 000	
Burnt lime	<10 000	10 000 - 100 000	100 000 - 1 000 000	>1 000 000	
Cadmium	<50	50 - 5 000	5 000 - 50 000	>50 000	
Chalcedony	<1	1 - 10	10 - 100	>100	
Chromium/ Chromite	<100	100 - 10 000	10 000 - 1 000 000	>1 000 000	
Chrysoprase	<1	1 - 10	10 - 100	>100	
Clay	<2 000	2 000 - 200 000	200 000 - 20 000 000	>20 000 000	
Cobalt	<10	10 - 1 000	1 000 - 20 000	>20 000	
Copper	<500	500 - 50 000	50 000 - 250 000	250 000 - 2 000 000	>2 000 000
Corundum	<1	1 - 10	10 - 100	>100	
Diamond	<0.1	0.1 - 1	1 - 10	>10	
Diatomite/ Diatomaceous earth	<2 000	2 000 - 200 000	200 000 - 2 000 000	>2 000 000	
Dolomite (Chemical grade)	<2 000	2 000 - 2 000 000	2 000 000 - 10 000 000	>10 000 000	
Earthy Lime/Dolomite (Agricultural)	<10 000	10 000 - 100 000	100 000 - 1 000 000	>1 000 000	

Commodity	AMOUNT OF CONTAINED COMMODITY (TONNES)				
	Very Small	Small deposit	Medium deposit	Large deposit	Giant deposits
Emerald	<0.1	0.1 - 1	1 - 10	>10	
Evaporite	<5000	5000 – 5 000 000	5 000 000 – 100 000 000	>100 000 000	
Feldspar	<50	50 – 1000	1000 – 100 000	>100 000	
Fluorite	<50	50 - 50 000	50 000 - 5 000 000	>5 000 000	
Foundry Sand	<1000	1000 – 1 000 000	1 000 000 – 2 500 000	<2 500 000	
Garnet	<1 000	1 000 - 100 000	100 000 - 1 000 000	>1 000 000	
Gemstones (precious)	<0.1	0.1 – 1	1 – 10	>10	
Gold	<0.5	0.5 - 5	5 - 50	50 - 150	>150
Granite	See Building Stone				
Gypsum	<5 000	5 000 - 5 000 000	5 000 000 - 100 000 000	>100 000 000	
Ilmenite	<5 000	5 000 - 5 000 000	5 000 000 - 10 000 000	>10 000 000	
Iron/ Ironstone	<5 000	5 000 - 5 000 000	5 000 000 - 100 000 000	>100 000 000	
Jade/ Jadeite	<0.1	0.1 - 1	1 - 10	>10	
Jasper (gem quality)	<1	1 – 10	10 – 100	>100	
Kaolin/ Kaolinite	<2000	2000 - 200 000	200 000 - 20 000 000	>20 000 000	
Kyanite	See Refractory Minerals				
Lead	<1000	1000 - 100 000	100 000 - 2 500 000	2 500 000 - 5 000 000	>5 000 000
Lime	<10 000	10 000 – 100 000	100 000 – 1 000 000	>1 000 000	
Limestone	<100 000	100 000 - 2 000 000	2 000 000 - 10 000 000	>10 000 000	
Lithium	<100	100 - 10 000	10 000 - 100 000	>100 000	
Lump Silica	<1 000	1 000 - 100 000	100 000 - 1 000 000	>1 000 000	
Magnesite	<10 000	10 000 - 2 000 000	2 000 000 - 10 000 000	>10 000 000	
Magnesium	<100	100 - 100 000	100 000 - 10 000 000	>10 000 000	
Magnetite	<50 000	50 000 – 500 000	500 000 – 1 000 000	>1 000 000	
Manganese	<100	100 - 100 000	100 000 - 10 000 000	>10 000 000	
Marble	See Building Stone				
Mercury	<3	3 - 30	30 - 20 000	>20 000	
Mica	<50	50 - 5 000	5 000 - 200 000	>200 000	
Mineral Sands	see individual minerals				
Molybdenum	<50	50 - 5 000	5 000 - 200 000	>200 000	
Monazite	<200	200 - 20 000	20 000 - 50 000	>50 000	
Montmorillonite	<2000	2000 – 200 000	200 000 – 20 000 000	>20 000 000	
Nickel	<250	250 - 25 000	25 000 - 500 000	>500 000	
Obsidian	See Perlite				
Oil Shale	<1 M brls	1 - 10 M barrels	10 - 1000 M barrels	>1000 M barrels	
Olivine	<1	1 – 10	10 – 100	>100	
Opal	<0.1	0.1 - 1	1 - 10	>10	
Opalised wood	<1	1 – 10	10 – 100	>100	

Commodity	AMOUNT OF CONTAINED COMMODITY (TONNES)				
	Very Small	Small deposit	Medium deposit	Large deposit	Giant deposits
Peridot	<0.1	0.1 – 1	1 – 10	>10	
Perlite	<2 000	2 000 - 200 000	200 000 - 2 000 000	>2 000 000	
Petrified Wood	<1	1 – 10	10 -100	>100	
Phosphate rock	<2 000	2 000 - 200 000	200 000 - 200 000 000	>200 000 000	
Platinum, Palladium, Osmium/osmiridium, PGM's	<0.5	0.5 - 5	5 - 50	>50	
Precious gemstones (eg sapphire, opal)	<0.1	0.1 - 1	1 - 10	>10	
Refractory Minerals eg Andalusite Kyanite	<1 000	1 000 - 100 000	100 000 - 1 000 000	>1 000 000	
Rare earths	<1	1 - 1 000	1 000 - 1 000 000	>1 000 000	
Ruby	<0.1	0.1-1	1 – 10	>10	
Rutile	<2000	2000 - 200 000	200 000 - 500 000	>500 000	
Sand (undifferentiated)	<1000	1000 – 1 000 000	1 000 000 – 2 500 000	>2 500 000	
Sandstone	See Building Stone				
Sapphire	<0.1	0.1 - 1	1 - 10	>10	
Semi-precious gemstones (eg Agate, chrysoprase, thunder eggs)	<1	1 - 10	10 - 100	>100	
Silica/ Silica Sand	<1 000	1 000 - 1 000 000	1 000 000 - 2 500 000	>2 500 000	
Silver	<5	5 - 500	500 - 5 000	5 000 - 10 000	>10 000
Slate	See Building Stone				
Talc (Steatite)	<1 000	1 000 - 1 000 000	1 000 000 - 10 000 000	>10 000 000	
Tantalum	<10	10 - 1 000	1 000 - 100 000	>100 000	
Thorium	See Uranium				
Thunder Eggs	<1	1 – 10	10 – 100	>100	
Tin	<100	100 - 5 000	5 000 - 100 000	100 000 - 1 000 000	>1 000 000
Titanomagnetite	<50 000	50 000 – 500 000	500 000 – 1 000 000	>1 000 000	
Titanium	<1 000	1 000 - 100 000	100 000 - 10 000 000	>10 000 000	
Topaz	<0.1	0.1 – 1	1 – 10	>10	
Tungsten	<5	5 - 500	500 - 10 000	>10 000	
Turquoise	<1	1 – 10	10 -100	>100	
Uranium (U ₃ O ₈)	<100	100 - 10 000	10 000 - 40 000	>40 000	
Vanadium (V ₂ O ₅)	<5	5 - 500	500 - 10 000	>10 000	
Wollastonite	<1 000	1 000 - 100 000	100 000 -1 000 000	>1 000 000	
Zeolite	<2 000	2 000 - 200 000	200 000 - 2 000 000	>2 000 000	
Zinc	<200	200 - 200 000	200 000 - 2 000 000	2 000 000 - 5 000 000	>5 000 000
Zircon	<2 500	2 500 - 500 000	500 000 - 1 000 000	>1 000 000	