

## AngloGold Australasia - Geological Logging Codes

RETURN (RTN)
% Of Return

WATER (H2O)
<b>B</b> Blowndry <b>D</b> Dry <b>I</b> Injected <b>M</b> Moist <b>W</b> Wet

HARDNESS
<b>VH</b> Very Hard <b>H</b> Hard <b>M</b> Medium <b>S</b> Soft <b>VS</b> Very Soft

COLOUR (COLOUR)
<u>Qualifier</u>
<b>DK</b> Dark <b>LT</b> Light
<b>BE</b> Beige <b>BG</b> Blue/green <b>BK</b> Black <b>BL</b> Blue <b>BN</b> Brown <b>CM</b> Cream <b>GN</b> Green <b>GY</b> Grey <b>KK</b> Khaki <b>MS</b> Mustard <b>OG</b> Orange <b>PI</b> Pink <b>PP</b> Purple <b>RD</b> Red <b>TN</b> Tan <b>WH</b> White <b>YE</b> Yellow
e.g. BNGN, LTBN

TEXTURE (Text)
<u>Qualifier</u>
<b>ST</b> Strong <b>MD</b> Moderate <b>WK</b> Weak
<u>Sedimentary</u>
<b>IB</b> Interbedded <b>LM</b> Laminated <b>LY</b> Layered

TEXTURE Ctd. (TEXT)
<u>Metamorphic</u>
<b>CR</b> Crenulated <b>MY</b> Mylonitic <b>PB</b> Porphyroblastic <b>SC</b> Schistose <b>SP</b> Spotted
<u>Igneous</u>
<b>AC</b> Acicular <b>AM</b> Amygdaloidal <b>AN</b> Aphanitic <b>EQ</b> Equigranular <b>PO</b> Porphyritic <b>PW</b> Pillows
<u>Structural</u>
<b>BO</b> Boxwork <b>BX</b> Brecciated <b>FD</b> Folded <b>FO</b> Foliated <b>FR</b> Fractured <b>LI</b> Lineated <b>RO</b> Rodded <b>SH</b> Sheared <b>SL</b> Slickenslides
<u>Others</u>
<b>CX</b> Crystalline <b>CO</b> Competant <b>FB</b> Fibrous <b>GO</b> Gossanous <b>MS</b> Massive <b>PT</b> Platy <b>PS</b> Porous <b>SA</b> Saccaroidal <b>SB</b> Solution Bands

GRAINSIZE (GN_SZ)
<b>VF</b> Very Fine <b>FN</b> Fine - not visible to naked eye <b>MD</b> Medium - visible to naked eye <b>CS</b> Coarse - >2mm <b>VC</b> Very Coarse (pebble)

WEATH (Weathering) (WTH)
<b>EW</b> Extremely weathered with poor textural preservation <b>HW</b> Highly weathered with moderate textural preservation <b>MW</b> Moderately weathered with good textural preservation <b>SW</b> Slightly weathered with < 20% oxides <b>FR</b> Fresh Bedrock

REGOLITH (REGO)
<b>BR</b> Bedrock (fresh) <b>LS</b> Lower Saprolite <b>RX</b> Redox Front <b>SA</b> Saprolite (undifferentiated) <b>TL</b> Laterite <b>TR</b> Transported <b>US</b> Upper Saprolite <b>WB</b> Weathered Bedrock
<u>Overprints</u>
<b>MT</b> Mottling <b>CT</b> Calcrete <b>ST</b> Silcrete <b>FT</b> Ferricrete <b>GT</b> Goethite <b>HM</b> Haematite
e.g. USMT, USGT

ROCKTYPE (MAJ, MIN1, MIN2)
<u>Sedimentary</u>
<b>AG</b> Agglomerate <b>BX</b> Breccia <b>BIF</b> Banded Iron Form <b>CB</b> Carbonate <b>CG</b> Conglomerate <b>CGW</b> Carbonaceous Greywacke <b>CH</b> Chert <b>CSH</b> Carbonaceous Shale <b>CSI</b> Carbonaceous Siltstone <b>CSS</b> Carbonaceous Sandstone <b>DO</b> Dolomite <b>EE</b> Epiclastic <b>GGW</b> Graphitic Greywacke <b>GSC</b> Graphitic Schist <b>GSH</b> Graphitic Shale <b>GSI</b> Graphitic Siltstone <b>GW</b> Greywacke (>15%matrix) <b>HS</b> Haematitic Shale <b>LM</b> Limestone <b>SH</b> Shale <b>SI</b> Siltstone <b>SS</b> Sandstone <b>TF</b> Tuff

<u>Igneous</u>
<b>AP</b> Aplite <b>DL</b> Dolerite <b>EB</b> Basalt <b>EBA</b> Antrim Plateau Volcanics <b>FI</b> Felsic Intrusive (undiff) <b>GB</b> Gabbro <b>GR</b> Granite (undiff) <b>GRA</b> Alkali Granite <b>GRD</b> Granodiorite <b>MI</b> Mafic Intrusive (undiff) <b>PG</b> Pegmatite <b>PO</b> Porphyry <b>VA</b> Acid Volcanic <b>VB</b> Basic Volcanic <b>VI</b> Intermediate Volcanic

<u>Metamorphic</u>
<b>AM</b> Amphibolite <b>BMS</b> Biotite Mica Schist <b>GN</b> Gneiss <b>HF</b> Hornfels <b>MB</b> Marble

ROCKTYPE Ctd. (MAJ, MIN1, MIN2)
<u>Metamorphic Ctd</u>
<b>PH</b> Phyllite <b>QC</b> Quartz Carbonate <b>QMS</b> Quartz Mica Schist <b>QT</b> Quartzite <b>SC</b> Schist <b>SL</b> Slate <b>SSM</b> Metasediment <b>TM</b> Tourmalinite
<u>Other</u>
<b>CL</b> Clay <b>CT</b> Calcrete <b>CV</b> Cavity <b>FT</b> Ferricrete <b>GV</b> Gravel <b>GO</b> Gossan <b>IS</b> Ironstone <b>MK</b> Mullock <b>MY</b> Mylonite <b>NS</b> No Sample <b>PI</b> Pisolitic Gravel <b>QV</b> Massive Quartz Vein <b>SD</b> Sand <b>ST</b> Silcrete <b>TL</b> Laterite

MINERALS (ALTER, VEIN_MIN)
<b>AB</b> Albite <b>AD</b> Andalusite <b>AM</b> Amphibole <b>AS</b> Arsenopyrite <b>AT</b> Altered (undiff) <b>AU</b> Gold <b>BI</b> Biotite <b>BL</b> Bleaching (cb-si) <b>CB</b> Carbonate <b>CH</b> Chlorite <b>CL</b> Clay <b>CO</b> Cordierite <b>CW</b> Clay Weathering <b>EP</b> Epidote <b>FE</b> Iron <b>FL</b> Fluorine <b>GA</b> Garnet <b>GN</b> Green Alteration <b>GP</b> Graphite <b>GT</b> Goethite <b>HM</b> Haematite <b>KA</b> Kaolinite <b>KS</b> K-Feldspar <b>KY</b> Kyanite <b>LI</b> Limonite <b>LX</b> Leucoxene <b>MI</b> Mica <b>MN</b> Manganese <b>MT</b> Magnetite <b>MU</b> Muscovite <b>PH</b> Phlogopite <b>PL</b> Plagioclase <b>PO</b> Pyrrhotite <b>PY</b> Pyrite <b>QZ</b> Quartz <b>SE</b> Sericite <b>SI</b> Silica <b>SR</b> Siderite <b>TC</b> Talc <b>TE</b> Tremolite <b>TM</b> Tourmaline <b>ZE</b> Zeolite

## AngloGold Australasia - Geological Logging Codes

ALT QUAL (QUAL)	
<u>Qualifier</u>	
<b>TR</b>	Trace
<b>WK</b>	Weak
<b>MD</b>	Moderate
<b>ST</b>	Strong
<b>IN</b>	Intense
<b>DM</b>	Disseminated
<b>PV</b>	Pervasive
<b>PT</b>	Patchy
<b>SV</b>	Selvedge
<b>VN</b>	Vein
e.g. STDM, MRSV	

VEIN STYLE (VN_STYLE)	
<b>BK</b>	Buck
<b>BX</b>	Breccia
<b>CB</b>	Comb
<b>CH</b>	Chalcedonic
<b>FB</b>	Fibrous
<b>LM</b>	Laminated
<b>MI</b>	Milky
<b>RB</b>	Ribbon
<b>SA</b>	Saccharoidal
<b>SM</b>	Smoky
<b>ST</b>	Stringer
<b>SW</b>	Stock Work
<b>TR</b>	Translucent

MINERALISATION (OTHER MIN)	
<b>AZ</b>	Azurite
<b>AU</b>	Gold
<b>BI</b>	Biotite
<b>BO</b>	Bornite
<b>CB</b>	Carbonate (undiff)
<b>CN</b>	Native Copper
<b>GR</b>	Garnet
<b>GT</b>	Goethite
<b>HM</b>	Haematite
<b>MA</b>	Malachite
<b>NB:</b> Mineral content must be expressed as a numeric e.g. 0.5, 1, 5 etc.	

SULPHIDES (OTHER SULPH)	
<b>AS</b>	Arsenopyrite
<b>CC</b>	Chalcocite
<b>CP</b>	Chalcopyrite
<b>CU</b>	Cuprite
<b>CV</b>	Covellite
<b>GA</b>	Galena
<b>MF</b>	Fine Black Mineral
<b>MN</b>	Manganese
<b>PO</b>	Pyrrhotite
<b>PY</b>	Pyrite
<b>SP</b>	Sphalerite

INFILL (Geotech)	
<b>KL</b>	Clean
<b>LM</b>	Limonite
<b>HM</b>	Haematite
<b>QZ</b>	Quartz
<b>CL</b>	Clay
<b>TL</b>	Talc
<b>CB</b>	Carbonate
<b>CH</b>	Chlorite
<b>EP</b>	Epidote
<b>SU</b>	Sulphide
<b>RF</b>	Rock Fragments
<b>RC</b>	Rock Frag & Clay Mixtures

STRUCTURAL DEFECTS (Geotech)	
<b>AXP</b>	Axial Plane
<b>BG</b>	Bedding Parting
<b>BK</b>	Broken Zone
<b>CV</b>	Cleavage
<b>CN</b>	Contact
<b>CR</b>	Crushed Seam
<b>DC</b>	Decomposed Zone
<b>DK</b>	Dyke
<b>FA</b>	Fold Axis
<b>FD</b>	Fold
<b>FG</b>	Fragmented Zone
<b>FH</b>	Fold Hinge
<b>FC</b>	Fractured Zone
<b>FT</b>	Fault
<b>FT1</b>	Early Fault
<b>FT2</b>	Late Fault
<b>FTM</b>	Minor Fault
<b>FTL</b>	Fault Large
<b>FV</b>	Fractured Vein
<b>IF</b>	Infill Zone
<b>LI</b>	Lineation
<b>JN</b>	Joint
<b>SC</b>	Schistosity
<b>S0</b>	Bedding
<b>S1</b>	Earliest Schistosity
<b>S2</b>	Second Earliest Schistosity
<b>SH</b>	Shear Zone
<b>VS</b>	Vein Stockwork
<b>VN</b>	Vein
<b>VB</b>	Brecciated Vein

ROCK STRENGTH (Geotech)	
<b>S1</b>	Very Soft Soil
<b>S2</b>	Soft Soil
<b>S3</b>	Stiff Soil
<b>S4</b>	Hard Soil
<b>S5</b>	Transitional Rock/Soil
<b>R1</b>	Very Low Rock Strength
<b>R2</b>	Low Rock Strength
<b>R3</b>	Medium Rock Strength
<b>R4</b>	High Rock Strength
<b>R5</b>	Very High Rock Strength

ROUGHNESS (Geotech)	
<b>SK</b>	Slickenslided
<b>PO</b>	Polished
<b>RO</b>	Rough
<b>SM</b>	Smooth

BROKEN ZONE (Geotech)	
<b>D</b>	Drill Induced
<b>H</b>	Heated
<b>N</b>	Natural

FRACTURING (Geotech)	
<b>WF</b>	Weak, core pieces 1m-200m
<b>MF</b>	Mod. core pieces 10-20cm
<b>SF</b>	Strong, core pieces 5-10cm
<b>BK</b>	Broken core, 25 cm pieces

SHAPE (Geotech)	
<b>PL</b>	Planar
<b>CU</b>	Curved
<b>UN</b>	Undulose
<b>ST</b>	Stepped
<b>IR</b>	Irregular