

## Carpentaria Gold Pty Ltd – Exploration Dept – Geology Codes

LITHOLOGY	
SURFICIAL (UNCONSOLIDATED)	
TALL	Alluvium (undif.)
TCBM	
TCOL	Colluvium (undif.)
TCY	Clay
TCYP	Smectitic (plastic) clay with
TELV	Eluvium (undif.)
TGRV	Gravel
TIL	Tillite
TLAT	Transported Laterite Gravel
TLIG	Lignite/brown coal
TMOT	Mega Mottles - transported material
TMUD	Mud
TSAL	Salina, playa lake gypsum deposits
TSL	Soil, Residual (undif.)
TSLC	Soil, Calcareous
TSLT	Silt
TSND	Running Sand - quartzose
TSPG	Spongolite
SURFICIAL (INDURATED) - DURICRUSTS	
DCAL	Calcrete laminated
DCAM	Calcrete massive
DCAN	Calcrete nodular
DFER	Ferricrete
DFST	Ironstone/segregations
DHPN	Hardpan
DLAT	Lateritised surfic
DMOT	Mottled Saprolite
DSIL	Silcrete
DSL	Silcrete, Ex Ultramafic
IN SITU	
XCY	Saprolitic Clay
XGOS	Gossan
XLAT	Laterite
XMLT	Massive Laterite
XNLT	Nodular Laterite
XPLT	Pisolitic Laterite
XRD	Goethetic Redox Zone; palaeowater table
XUSP	Upper Saprolite
FELSIC and INTERMEDIATE	
FELSIC VOLCANICS & INTRUSIVES	
BXMS	Breccia Matrix Supported.
FV	Felsic Volcanic (undif.)
FRA	Alkali Rhyolite
FR	Rhyolite
FRBxm	Rhyolite Breccia monomict
FRBxp	Rhyolite Breccia polymict
FGBxp	Rhyolite (?) / Granite ( ?%)

	Breccia polymict
FD	Dacite
FRD	Rhyo-dacite
FAP	Aplite
FPG	Pegmatite (undif.)
FP	Felsic Porphyry (undif.)
FQP	Quartz Porphyry (undif.)
FSP	Feldspar Porphyry (undif.)
INTERMEDIATE VOLCANICS	
IV	Intermediate Volcanic (undif.)
IA	Andesite
IL	Latite
IT	Trachyte
ITA	Trachy-andesite
GRANITOIDS	
G	Granitoid (undif.)
GA	Alkali Granite
GQ	Quartz Granite
GR	Granite (sensu stricto)
GRBxm	Granite Breccia monomict
GRBxp	Granite Breccia polymict
GRm	Granite micro
GD	Granodiorite
GDm	Granodiorite micro
GT	Tonalite
GP	Granitoid, Porphyritic (undif.)
SYENITOIDS	
AS	Syenitoid (undif.)
AAS	Alkali syenite
ASY	Syenite (sensu stricto)
AMO	Monzonite
DIORITOIDS	
DT	Dioritoid (undif.)
DM	Monzodiorite
DI	Diorite
DIm	Microdiorite
DMG	Monzogabbro
MAFIC - ULTRAMAFIC	
MAFIC INTRUSIVES	
M	Mafic (undif.)
MG	Gabbroid (undif.)
MGN	Gabbro Norite
MGB	Gabbro
MGBm	Microgabbro
MGH	Hornblende Gabbro
MGQ	Quartz Gabbro
MGG	Granophyric Gabbro
MN	Norite
MPL	Anorthosite
MHB	Hornblendite
MD	Dolerite/Diabase
MAFIC VOLCANICS	
MB	Basalt (undif.)

MTB	Tholeiitic Basalt
MIAB	Andesitic Basalt
MAK	Alkali Basalt
MKB	Komatiitic Basalt (high Mg basalt)
Metamorphic Derivatives	
MA	Amphibolite (undif.)
MAP	Para-Amphibolite
MAO	Ortho-Amphibolite
MAA	an + hb/cm + ga + ep Amphibolite
MAB	ab/og + hb + ch + ep Amphibolite
MAC	ab + ac + ch + ep Basalt
ULTRAMAFIC	
U	Ultramafic (undif.)
UPX	Pyroxenite (undif.)
UOX	Orthopyroxenite
UCX	Clinopyroxenite
UPD	Peridotite (undif.)
UOP	Olivine Peridotite
UD	Dunite
UK	Komatiite (undif.)
UKX	Spinifex Texture Komatiite
UKC	Cumulate Texture Komatiite
UAK	Alkaline ultramafic (undif.)
ULTRAMAFIC	
UKB	Kimberlite
ULP	Lamprophyre/Lamproite
Metamorphic Derivatives Deuteric Alteration	
US	Serpentinite (ex. dunite)
USCA	Serpentine-Chlorite-Amphibole (ex. peridotite)
UAC	Amphibole Chlorite (ex. pyroxenite)
Metamorphic Derivatives Carbonation	
USTC	Serpentine + Talc+ Carbonate (ex. dunite)
UTCA	Talc + Carbonate+ Amphibole (ex. peridotite)
UCAC	Chlorite + Amphibole + Carbonate (ex. pyroxenite)
SEDIMENTARY	
EPICLASTIC Rudites (Conglomerates)	
SR	Rudite (Conglomerate undif.)
SRP	Polymictic Rudite
SRM	Monomictic Rudite
EPICLASTIC Sandstones	
SST	Sandstone (undif.)
SAN	Arenite
SAR	Arkose
SQZ	Quartzite
SW	Wacke
SGW	Greywacke
STB	Turbidite

EPICLASTIC Argillites	
SAG	Argillite (undif.)
SSL	Siltstone
SMD	Mudstone
SSH	Shale
SBS	Carbonaceous Shale
PYROCLASTIC-EPICLASTIC MIXES	
VSST	Tuff Sandstone
VSSL	Tuff Siltstone
VSSH	Tuff Shale
VSC	Tuff Conglomerate
PYROCLASTIC	
VAT	Ash Tuff (undif.)
VAXT	Crystal Tuff
VALT	Lithic Tuff
VLPT	Lapilli Tuff
VAGG	Agglomerate
VPM	Pumice
VOB	Obsidian
CHEMOGENIC	
SCT	Chert
SIF	Iron Formation (undif.)
SIFM	Oxide Facies - Magnetite
SIFH	Oxide Facies - Hematite (Jaspilite)
SIFC	Carbonate Facies (Siderite)
SIFS	Silicate Facies (Grunerite/Hedenbergite)
SIFF	Sulphide Facies (Pyrite)
SRD	Radiolarite
CARBONATES	
SCB	Carbonate (undif.)
SD	Dolomite/Dolostone
SDL	Dolomite Limestone
SLM	Limestone
SML	Marl
SCSL	Calcareous Siltstone
SCSD	Calcareous Sandstone
SCSH	Calcareous Shale
METAMORPHIC	
GNEISSES	
GN	Gneiss (undif.)
GNF	Felsic Gneiss (undif.)
GNM	Mafic Gneiss (undif.)
GNG	Granitic Gneiss
GNGD	Granodioritic Gneiss
GNT	Tonalitic Gneiss
GND	Dioritic Gneiss
SCHISTS	
SH	Schist (undif.)
SHF	Felsic Schist (undif.)
SHI	Intermediate Schist (undif.)
SHM	Mafic Schist (undif.)
SHC	Calc Schist

## Carpentaria Gold Pty Ltd – Exploration Dept – Geology Codes

PELITES	
SHP	Pelite (undif.)
SHL	Phyllite
SHS	Slate
SHMI	Mica Schist
CALCAREOUS	
CCM	Marble
CCC	Calciophyre (Calc-silicate)
CCH	Hornfels
CCS	Skarn
GRANULITES	
GRN	Granulite (indif.)
GRMa	Mafic Granulite
GRF	Felsic Granulite
VEINS	
VN	Vein Undifferentiated
VQZ	Quartz Vein
VQB	Buck Quartz Vein
VCB	Carbonate Vein
VCA	Calcite Vein
VSI	Silica? Vein
VSD	Siderite Vein
VQC	Qtz carbonate vein, Qtz dominant
VCQ	Carbonate-qtz vein, carb dominant
VSU	Sulphide Vein (includes oxidised sulph., gossan & boxworks)
VQS	Qtz-Sulphide vein, Qtz dominant
VSQ	Sulphide-Qtz vein, Sulph dominant
TECTONIC	
TBX	Fault Breccia
BX	Breccia (default monomict)
BXP*	Breccia Polymict
BXC*	Breccia Crackle
BXM*	Breccia Mozaic
BXR*	Breccia Rubble
BXL*	Breccia Milled
BXT*	Breccia Transported
TFT	Fault (undifferentiated)
TMY	Mylonite
TMS	Tuffesite Matrix Supported
THX	Hydrothermal Breccia
Z	Schist (undifferentiated)
FSZ	Fault Shear Zone
OTHERS	
MIG	Migmatite (undif.)
MYL	Mylonite
ECL	Eclogite
MISCELLANEOUS	
GOF	Ironstone
NREC	No recovery / no sample return (RAB, AC, RC, DD)
NLOG	No Log
LOSS	No Sample - Core Loss etc

NAVI	No core due to Navi - drilling
HFILL	Back filled stopes / collapsed workings
HNRCK	Not Rock - ie. Shotcrete, wood etc
HWAST	Waste Dump
HVOID	Unfilled stope/Open workings
UKN	Unknown Rock - old log not translatable
WC	Water course
ALTERATION	
Alteration Qualifier	
Code	Description
FC	Fracture Controlled Alteration
FF	Fracture Fill
MF	Matrix Fill
MJ	Major Alteration
MN	Minor Alteration
PER	Pervasive Alteration
RE	Replacement
SL	Selective Alteration
SPER	Selective Pervasive
VS	Selvage Alteration to Veins
OP	Overprinting
Alteration Intensity	
4	Intense (Historical 81-100%)
3	Strong (Historical 31-80%)
2	Moderate (Historical 11-30%)
1	Weak (Historical 0-10%)
Alteration Type	
AB	Albitic Alteration
AC	Actinolite Alteration
BT	Secondary biotite
CB	Carbonate Alteration
CC	Translated Carbonate Alteration
CH	Chloritic Alteration
CHEP	Chlorite-Epidote Alteration
CHSR	Chlorite-Sericite Alteration
CY	Clay Alteration
EP	Secondary epidote
EPAB	Epidote-Albite Alteration
EPCH	Epidote-Chlorite Alteration
EPSI	Epidote-Silica Alteration
FE	Iron Alteration
HEM	Hematite Alteration
KS	K-Spar Alteration
LM	Limonite Alteration
PHYL	Phyllic Alteration
PR	Propylitic Alteration
PY	Pyrite Alteration
SD	Siderite Alteration
SI	Silica Alteration/silicified
SICH	Silica-Chlorite Alteration

SR	Sericitic Alteration
ZE	Zeolitic Alteration
STRUCTURE	
Code	Description
Bod	Boudin
BR	Broken
BRTT	Brittle
BX	Breccia - Undif.
BXC	Breccia - Crackle
BXH	Breccia - Hydraulic/Fluidised
Bxi	Breccia - Intrusive Matrix
BXL	Breccia - Milled
BXM	Breccia - Moziac
BXP	Breccia - Polyphase
BXR	Breccia - Rubble
BXT	Breccia - Transported
CO	Contact
CRN	Crenulation
DEXT	Dextral
DFM	Deformed
DUCT	Ductile
DYK	Dyke
F1	Weak Foliation
F2	Moderate Foliation
F3	Strong Foliation
FAP	Foliation - Axial Plane
FB	Flow Band
FCC	Crenulation Cleavage
FCH	Chevron Fold
FCL	Cleavage
FDM	Fold - M-Type
FDS	Fold - S-Type
FDZ	Fold - Z-Type
FLD	Fold - Parasitic/Drag
FLT	Fault
FO	Foliation (undif.)
FR	Fracture
FR1	Weak Fracture Intensity
FR2	Moderate Fracture Intensity
FR3	High Fracture Intensity
FSZ	Fault Shear Zone
GGZ	Gouge Zone
J1	Weak Joint Intensity
J2	Moderate Joint Intensity
J3	High Joint Intensity
JN	Jointing
JT	Joint
KNK	Kink Band
LA	Layered
Li	Lineation - Intersection
LM	Lineation - Mineral elongation
LS	Lineation - Striation

MX	Massive
MYL	Mylonite
NOR	Normal
PLW	Lava Pillows
PSW	Pinch and Swell
REV	Reverse
SC	Sheared Contact
SCB	Cross Bedding
SF	Bedding - Thin
SGD	Graded Bedding
SH	Sheared
SHZ	Shear Zone
SILL	Sill
SINI	Sinistral
SL	Bedding - Lamination
SL	Slickensided
SO	Bedding
SS	Sheared Strongly
ST	Bedding - Thick
STY	Styloite
UMYL	Ultramylonite
VEX	Vein - Extensional
VLM	Vein - Laminated
VMX	Vein - Massive
VN	Vein - Undif
VNT	Veinlet
VPTG	Vein - Ptygmatic
VST	Vein - Stringer
VSW	Vein - Stockwork
WS	Sheared Weakly
Vein Type	
VF	Vein - Fault/Shear Vein
VQZ	Quartz +/- others
VCB	Carbonate (undif.)
VCA	Calcite
VSU	Sulphide (undif.)
VTO	Tourmaline
VQC	Quartz + Carbonate
VSI	Silica (undif.)
VQF	Quartz + Feldspar
VFS	Feldspar (undif.)
VCS	Calc-silicate (undif.)
VAM	Amphibole (undif.)
VCH	Chlorite
VEP	Epidote
VSF	Sulphate
VMN	Manganese Oxides (undif.)
VT	Vein - Tension/Extension Vein
VTF	Vein - Tension + Fault Vein
VQC	Quartz + Carbonate
VZE	Zeolite
Structure Width (mm)	
0.1	Veneer less than 1 mm

## Carpentaria Gold Pty Ltd – Exploration Dept – Geology Codes

MINERALS	
Code	Mineral Name
AC	Actinolite
KF	Adularia
AB	Albite
AL	Alumino silicate
AT	Alunite
AM	Amphibole
AD	Andalusite
AH	Anhydrite
AK	Ankerite
AN	Anorthite
AY	Anthophyllite
AO	Antigorite - Serpentine
AP	Apatite
AS	Arsenopyrite
AZ	Azurite
BA	Barite
BE	Beryl
BT	Biotite
BI	Bismuth (native)
BS	Bismuthinite
BN	Bornite
CA	Calcite
CB	Carbonate
CN	Carnotite
CS	Cassiterite
CE	Cerussite
CQ	Chalcedony
CC	Chalcocite
CP	Chalcopyrite
CH	Chlorite
CT	Chloritoid
CR	Chromite
CL	Chrysocolla
CW	Chrysoprase - Chalcedony
CF	Chrysotile - Serpentine
CY	Clay
CX	Clinopyroxene
CZ	Clinozoisite
NB	Columbite - Tantalite
CU	Copper - (native)
CD	Cordierite
CO	Corundum
CV	Covellite
CM	Cummingtonite
CI	Cuprite

DP	Diopside
DO	Dolomite
EN	Enargite
EP	Epidote
FS	Feldspar
FP	Feldspathoids
FL	Fluorite
FU	Fuchsite - Muscovite
GH	Gahnite
GN	Galena
GT	Garnet
GI	Gibbsite
GL	Glauconite - Clay
GO	Goethite
AU	Gold (native)
GR	Graphite - Carbon (native)
GU	Grunerite
GY	Gypsum
HA	Halite
HE	Hematite
HB	Hornblende
IL	Illite - Clay
IM	Ilmenite
FE	Iron Oxide
JA	Jarosite
JP	Jasper
KA	Kaolin - Clay
KO	Kaolinite - Clay
KF	K-Feldspar
KY	Kyanite
LE	Lepidolite
LX	Leucoxene
LM	Limonite
LZ	Lizardite - Serpentine
MS	Magnesite
MT	Magnetite
MC	Malachite
MN	Manganese Oxides
MA	Marcasite
MI	Mica
ML	Millerite
MO	Molybdenite
MZ	Monazite
MM	Montmorillonite - Clay
MV	Muscovite-sericite
NN	Nontronite - Clay
OG	Oligoclase
OL	Olivine

OP	Opaline Silica
OC	Orthoclase
OX	Orthopyroxene
PN	Pentlandite
PH	Phlogopite - biotite
PG	Plagioclase
PE	Prehnite
PY	Pyrite
PS	Pyrolusite
PR	Pyrophyllite
PX	Pyroxene
PO	Pyrrhotite
QZ	Quartz
RO	Rhodochrosite
RS	Roscoelite - muscovite
RU	Rutile
SA	Saussurite
SC	Scheelite
SO	Scorodite
SR	Sericite
SE	Serpentine
SD	Siderite
SI	Silica
SL	Sillimanite
AG	Silver (native)
SM	Smectite - clay
SP	Sphalerite
TI	Sphene - Titanite
SN	Stannite
ST	Staurolite
SB	Stibnite
SU	Sulphide
S	Sulphur (native)
TA	Talc
TD	Tetrahedrite
TI	Titanite - sphene
TZ	Topaz
TO	Tourmaline
TM	Tremolite
UR	Uraninite - Pitchblende
UV	Uvarovite
VM	Vermiculite - clay
VI	Violarite
WF	Wolframite
WO	Wollastonite
ZE	Zeolite
ZW	Zinnwaldite
ZR	Zircon

ZO	Zoisite
MINERAL STYLE	
DS	Disseminated
FF	Fracture Filled/Coatings
FC	Fracture Control and selvage
KL	Clean, no infill
MF	Matrix Filling
RE	Replacement
SP	Speck
VN	Veined
VF	Vug Filling
MINERAL INTENSITY	
1 to 99%	Literal
< 1%	Trace
MINERAL COMBINATIONS	
CHLMSU	Chlorite, Limonite, Sulphide
CHCB	Chorite, Carbonate
CHCY	Chorite, Clay
CHLM	Chorite, Limonite
CHPY	Chlorite, Pyrite
CHSR	Chorite, Sericite
CYCB	Clay, Carbonate
CYSR	Clay, Sericite
CYPY	Clay, Pyrite
LMCA	Limonite, Calcite
LMSU	Limonite, Sulphide
PYLM	Pyrite, Limonite
QZLMSU	Quartz, Limonite, Sulphide
QZPY	Quartz, Pyrite
QZSD	Quartz, Siderite
QZSU	Quartz, Sulphide
SRLM	Sericite, Limonite
SRLMPY	Sericite, Limonite, Pyrite
SRLMSU	Sericite, Limonite, Sulphide
SRCB	Sericite, Carbonate
SRCY	Sericite, Clay
SRPY	Sericite, Pyrite
SRQZ	Sericite, Quartz
SRSU	Sericite, Sulphide
SULM	Sulphide, Limonite

## Carpentaria Gold Pty Ltd – Exploration Dept – Geology Codes

TEXTURE	
TEXTURE SHAPE	
Code	Description
AP	Aphanitic
BND	Banded
BX	Breccia
CLS	Clastic
CX	Macrocrystalline
DS	Disseminated
FB	Flow Banding
FG	Fragment
FX	Microcrystalline
GH	Granophyric
GP	Glomeroporphyritic
GRC	Graphic
MI	Miarolitic
MT	Matrix
MX	Mesocrystalline
PEG	Pegmatitic Texture
PHX	Phenocryst
PT	Porphyritic
SE	Serriate
SG	Segregation
XE	Xenocryst / Xenolithic
TEXTURE GENERAL	
AN	Angular
BR	Broken
CO	Contact
EG	Equigranular
GR	Granular
HOGR	Homogranular
HOM	Homogenous
HTGR	Heterogranular
IEGR	Inequigranular
IN	Injected
MS	Massive
RN	Rounded
SAN	Subangular
SRN	SubRounded
TD	Texture Destruction
XE	Xenolith
TEXTURE METAMORPHIC	
BND	Banded
SE	Serriate
SG	Segregation

TEXTURE SEDIMENTARY	
Code	Description
CLS	Clastic
FG	Fragment
LM	Lamination
MT	Matrix
ND	Nodular
RN	Rounded
TEXTURE SEDIMENTARY	
CLS	Clastic
FG	Fragment
LM	Lamination
MT	Matrix
ND	Nodular
RN	Rounded
TEXTURE VEIN	
BND	Banded
BX	Breccia
CMB	Comb Texture
DS	Disseminated
FD	Flooded
LS	Late stage magmatic diff.
ND	Nodular
OP	Overprinting
VG	Vug
VG	Vuggy
TEXTURE TECTONIC	
BX	Breccia - undiff.
BXC	Breccia - Crackle/Mosaic
BXF	Breccia - Fragment/Clast supported
BXH	Breccia - Hydraulic/Fluidised
BXI	Breccia - Intrusive Matrix
BXL	Breccia - Milled
BXM	Breccia - Mosaic
BXMS	Breccia - Matrix supported
BXR	Breccia - Rubble
BXT	Breccia - Transported
CL	Cleavage
CR	Crack
CRN	Crenulation
DFM	Deformed
FG	Fragment
FLD	Fold
FO	Foliation
FLT	Fault
FR	Fracture
Li	Lineation
LM	Lamination
SH	Sheared
SHL	Schlieren
SL	Slikenside
ST	Striae

ROUGHNESS			
PO	Polished		
SM	Smooth		
SR	Slightly Rough		
R	Rough		
VR	Very Rough		
PLANARITY			
PL	Planar		
U	Undulating		
ST	Stepped		
I	Irregular		
GRAIN SIZE			
Code	Particle Diameter (mm)		
VF	< 0.25mm		
FG	0.25-1.0mm		
FM			
MG	1.0-5.0mm		
MC			
CG	>5.0mm		
COLOUR			
D - Dark / M - Medium / L - Light			
BG	Beige	LM	Lime
BK	Black	MV	Mauve
BU	Blue	MK	Milky
BR	Brown	OR	Orange
CL	Colourless	PK	Pink
CR	Cream	PU	Purple
GR	Green	RD	Red
GY	Grey	TN	Tan
KH	Khaki	WH	White
		YE	Yellow
CORE ORIENTATION			
ORIENTATION METHOD			
Code	Tool Description		
PR	Prong		
BM	Ball mark		
ACT	Ace Core Tool		
EZ	Ezy mark		
SP	Spear		
ORIENTATION LINE			
B	Bottom		
ORIENTATION CONFIDENCE			
3	3 or more ori's lining up within 20 degrees		
2	2 ori's lining up within 20 degrees		
1	1 ori only		
0	None		

WEATHERING			
CW	Completely Weathered		
C	Core Loss		
NAVI	Core Loss - NAVI or BLADE		
FR	Fresh		
HW	Highly Weathered		
MW	Moderately Weathered		
SW	Slightly Weathered		
UKN	Unknown		
GEOCHEM			
QAQC			
DUP	Field duplicate		
STD	Certified Standard		
BLANK	Blank Material		
SOILS			
RES	Residual		
PA	Possibly Alluvial		
ALL	Alluvial		
DIST	Disturbed		
HORIZON			
A	Organic matter / Surface soil		
A-B	Transition from surface soil to subsoil		
B	Subsoil (1 <sup>st</sup> colour change)		
B-C	Where digging has mixed B&C		
C	Transition from soil to bedrock (2 <sup>nd</sup> colour change)		
HUE & COLOUR			
D	Dark		
M	Medium		
L	Light		
GY	Grey	OR	Orange
BR	Brown	YE	Yellow
GR	Green	WH	White
RD	Red	CR	Cream
Eg. B Horizon / Light Yellow Brown Soil / Residual / 20cm B / LYEBr / RES / 20			
ROCKCHIPS			
OC	Outcrop	In situ (original location)	
SC	Subcrop	Has <b>obviously</b> broken off local Outcrop	
FL	Float	In creek or original location unknown	
MU	Mullock	Mullock heap or <b>obviously</b> off old workings	
GRB	Grab	Grab sample stockpile/waste dump	