

| ROCKTYPES |                                 |      |                               |      |                                | COLOUR   |                                | ALTERATION TYPE        |                         |                       |
|-----------|---------------------------------|------|-------------------------------|------|--------------------------------|--|--------------------------------|------------------------|-------------------------|-----------------------|
| Code      | Description                     | Code | Description                   | Code | Description                    | Code   | Description                    | Code                   | Description             |                       |
| (G)MS     | slightly muddy sandstson        | FER  | ferricrete                    | MUD  | mud                            | RHYD   | rhyodacite                     | CH                     | chert                   |                       |
| (G)S      | slightly conglomerate sandstone | FL/D | felsic dyke                   | MVAM | mafic volcanic: amygdale-rich  | RHYL   | rhyolite                       | CL                     | chlorite                |                       |
| (G)SM     | slightly conglomerate sandy mud | FLGN | felsic gneiss                 | MVFW | mafic volcanic: flow layered   | RYTF   | rhyolite tuff                  | CP                     | chalcopyrite            |                       |
| AGLM      | agglomerate                     | FLSG | felsic segregation            | MVFX | mafic volcanic: flow Breccia   | SAND   | sand                           | CQ                     | cherty quartz           |                       |
| AMPH      | amphibolite                     | FLTF | felsic tuff                   | MVMV | mafic volcanic: massive        | SAP  | saprolite                      | CU                     | copper                  |                       |
| ANAT      | anatexite                       | FLZN | fault zone                    | MVPN | mafic volcanic: phenocrysts    | SAPI   | saprolite (iron banding)       | CVG                    | cleavage                |                       |
| ANDA      | andesite to dacite              | FQZT | feldspathic quartzite         | MVPW | mafic volcanic: pillowed       | SCH  | schist                         | CY                     | clay                    |                       |
| ANDS      | andesite                        | GABR | gabbro                        | MVTF | mafic volcanic: tuffaceous     | SDSL   | sandy siltstone                | CYD                    | clay (diagenetic)       |                       |
| ANXT      | andesite crystal tuff           | GAGN | garnetiferous gneiss          | MYLN | mylonite                       | SDST   | sandstone                      | DQZ                    | drusy quartz            |                       |
| AP/D      | aplite dyke                     | GFCY | graphitic clay                | MZDR | monzodiorite                   | SFZN   | silica flooded zone            | DV                     | dravite                 |                       |
| APLT      | aplite                          | GMS  | conglomeratic muddy sandstone | OB   | overburden                     | SG   | sandy conglomerate             | EP                     | epidote                 |                       |
| ARGL      | argillite                       | GNIS | gneiss                        | PEGM | pegmatite                      | SGPE   | strong gf pelite               | FL                     | fluorite                |                       |
| ARKS      | arkose                          | GOUG | gouge                         | PELT | pelite                         | SHER   | shear                          | FRAC                   | fracture                |                       |
| BASL      | basalt                          | GRAN | granite                       | PEST | pebbly sandstone               | SHLE   | shale                          | FU                     | fuchsite                |                       |
| BIF       | banded iron formation           | GRAV | gravel                        | PHON | phonolite                      | SILC   | silicified regolith (silcrete) | FX                     | feldspar                |                       |
| BSTF      | basaltic tuff                   | GRDT | granodiorite                  | PHYL | phyllite                       | SILT   | silt                           | GA                     | garnet                  |                       |
| BX        | breccia                         | GRGN | granite gneiss                | PISO | pisolith layer                 | SLMD   | silty mudstone                 | GF                     | graphite                |                       |
| CAAK      | calcarkose                      | GRST | granule stone                 | PSAM | psammite                       | SLSD   | silty sandstone                | GG                     | gouge                   |                       |
| CALC      | calcsilicate                    | GRWK | greywacke                     | PYRX | pyroxenite                     | SLST   | siltstone                      | GL                     | galena                  |                       |
| CATA      | cataclasite                     | GS   | conglomeratic sandstone       | QARK | siliceous arkose               | SM   | sandy mudstone                 | HB                     | hornblende              |                       |
| CAVI      | open cavity                     | IN/D | intermediate dyke             | QFBG | quartz feldspar biotite gneiss | SMPL   | semipelite                     | HE                     | hematite                |                       |
| CBBX      | carbonate breccia               | IRFM | iron formation                | QFGN | quartz-feldspar gneiss         | SYEN   | syenite                        | HED                    | hematite (diagenetic)   |                       |
| CHQZ      | cherty quartz                   | KFGR | alkali feldspar granite       | QFPR | quartz feldspar porphyry       | TONL   | tonalite                       | HS                     | specular hematite       |                       |
| CHRT      | chert                           | LOST | lost core                     | QSMP | quartz rich semipelite         | TOVN   | tourmaline vein                | HS                     | specular hematite       |                       |
| CLAY      | clay                            | MARB | marble                        | QZBX | quartz breccia                 | UX   | uranium intersection           | HV                     | heavy mineral           |                       |
| CLCR      | calcrete                        | MCGN | microgneiss                   | QZDR | quartz diorite                 | VUG  | Vug                            | HY                     | hydrothermal alteration |                       |
| CLSP      | calcsemipelite                  | MDSH | muddy shale                   | QZFX | quartzofeldspathic             | WGPL   | weak gf pelite                 | IL                     | illite                  |                       |
| CONG      | conglomerate                    | MDST | mudstone                      | QZIT | quartzite                      | <div>FRIABILITY</div> <div><div>Code</div><div>Description</div></div> <div>1 competent (very hard)</div> <div>2 moderately friable</div> <div>3 friable (crumples in hand)</div> <div>4 locally friable over interval</div> <div>5 unconsolidated</div> | AU                             | gold                   | KA                      | kaolinite             |
| CRET      | Cretaceous sediments            | MF/D | mafic dyke                    | QZMD | quartz monzodiorite            |  | AX                             | amphibole              | KF                      | k-feldspar            |
| CSHL      | carbonaceous shale              | MFGN | mafic gneiss                  | QZMZ | quartz monzonite               |  | BCB                            | brown carbonate        | LI                      | limonite              |
| CYST      | claystone                       | MFTF | mafic tuff                    | QZPL | quartz rich pelite             |  | BH                             | bleaching              | LID                     | limonite (diagenetic) |
| DACT      | dacite                          | MFVL | volcanics                     | QZPR | quartz porphyry                |  | BHD                            | bleaching (diagenetic) | M\$                     | montmorillonite       |
| DCPR      | dacitic porphyry                | MGPE | moderate gf pelite            | QZSG | felsic qz segregations         | <div>ALTERATION INTENSITY</div> <div>1 weak</div> <div>2 moderate</div> <div>3 strong</div>  | BHH                            | hydrothermal bleach    | MI                      | mica                  |
| DIAB      | diabase                         | MISS | missing core                  | QZSP | quartz semipelite              |  | BI                             | biotite                | MKQ                     | milky quartz          |
| DIOR      | diorite                         | MONZ | monzonite                     | QZSY | quartz syenite                 |  | BP                             | brittle overprint      | MN                      | manganese             |
| DOL       | dolerite                        | MS   | muddy sandstone               | QZVN | vein quartz                    |  | CA                             | carbonite              | MT                      | magnetite             |
| DOLM      | dolomite                        | MSG  | muddy sandy conglomerate      | RBQZ | ribbony quartz                 |  | CB                             | carbonate              | MU                      | muscovite             |
| DYKE      | dyke                            | MTSD | metasediment                  | RGLT | regolith                       |  | CC                             | calcite                | OX                      | oxides                |

| ALTERATION TYPE         |                               | ALTERATION DISTRIBUTION |                           |      |                            |  |                       | TEXTURE/ROCKTYPE QUALIFIERS |                      |      |                         |
|-------------------------|-------------------------------|-------------------------|---------------------------|------|----------------------------|--|-----------------------|-----------------------------|----------------------|------|-------------------------|
| Code                    | Description                   | Code                    | Description               | Code | Description                | Code   | Description           | Code                        | Description          | Code | Description             |
| PF                      | plagioclase                   | BP                      | brittle overprint         | MATR | matrix                     | VSTR   | vein hosted stringers | AB                          | albite               | EQ   | equigranular            |
| PO                      | pyrrhotite                    | BW                      | boxwork                   | MDIS | moderately disseminated    | VUG  | vug controlled        | AG                          | augen structured     | ET   | eutaxitic               |
| POT                     | potassic                      | BX                      | breccia filling           | MOT  | mottled                    | WDIS   | weakly disseminated   | AH                          | aphanitic            | EU   | euheidal                |
| PS                      | phosphate                     | CJG                     | conjugate                 | MTC  | mineral control            | WRM  | worm rock             | AK                          | arkosic              | F\$  | fissile                 |
| PY                      | pyrite                        | CLAS                    | clasts                    | MX   | massive                    | WSW  | weak stockwork        | AL                          | altered              | F)   | fluidal                 |
| QA                      | quartz ankerite vein          | CLOT                    | clot                      | ND   | nodules                    | XL   | crystalline           | AM                          | amygdaloidal         | FB   | flow banded             |
| QAFX                    | quartz ankerite feldspar vein | COAT                    | coating                   | PAT  | patches                    | TEXTURE PREFIX<br><u>Code</u> <u>Description</u><br>L   locally<br>M   moderate<br>S   strong<br>T   trace<br>W   weak   |                       | AN                          | anhedral             | FD   | folded                  |
| QC                      | quartz carbonate              | CON                     | contact                   | PB   | porphyroblasts             |  |                       | AP                          | aplitic              | FE   | felsic                  |
| QFX                     | quartz feldspar vein          | CORR                    | corroded                  | PDIS | pod hosted disseminated    |  |                       | AR                          | arenaceous           | FM   | fragmental              |
| QM                      | quartz tourmaline             | CUBE                    | cubic                     | PERV | pervasive                  |  |                       | AT                          | altered              | FO   | foliated                |
| QZ                      | quartz                        | DISS                    | disseminated              | PHEN | phenocryst                 |  |                       | BD                          | bedded (horizontal)  | FR   | fractured               |
| QZD                     | quartz dissolution            | DN                      | dendritic                 | POD  | pods                       | GRAINSIZE<br><u>Code</u> <u>Description</u><br>AH   aphanitic<br>CY   clay<br>MD   mud<br>ST   silt<br><1   less than 1 millimetre   |                       | BH                          | bleached             | FS   | flaser structure        |
| RQ                      | ribbony quartz                | DQZ                     | drusy quartz              | REPL | replacement                |  |                       | BI                          | biotite              | FT   | fault                   |
| SAUS                    | saussuritization              | DSG                     | indurate sandy gouge      | RIB  | ribbons                    |  |                       | BK                          | blocky               | FW   | flow                    |
| SE                      | sericite                      | EN                      | enveloping                | RQ   | ribbony quartz             |  |                       | BL                          | bladed               | FY   | flaggy                  |
| SIL                     | silicification                | EV                      | envelope                  | RTC  | rock type control          |  |                       | BN                          | banded               | G\$  | granoblastic            |
| SILD                    | silicification (diagenetic)   | FBLB                    | fracture hosted bleb      | S/   | streaky                    | STRATIGRAPHY<br>(Palaeoweathering)<br><u>Code</u> <u>Description</u><br>A   absent<br>B   bleached<br>D   diagenetic alteration<br>F   fresh<br>G   green zone<br>H   hematite zone<br>L   limonitic alteration<br>N   not preserved<br>P   partial preservation<br>R   regolith<br>T   transition zone<br>W   white zone (weathered)<br>Y   hydrothermal alteration |                       | BO                          | botryoidal           | GB   | gabbroic                |
| SMQ                     | smokey quartz                 | FDIS                    | fracture hosted diss      | SBLB | stockwork hosted blebs     |  |                       | BP                          | brittle overprint    | GC   | graphic                 |
| ST                      | staurolite                    | FK                      | flake                     | SDIS | stockwork hosted diss      |  |                       | BR                          | broken core          | GD   | graded bedded           |
| STK                     | columnar stylolites           | FM                      | fragmental                | SEGR | segregated                 |  |                       | BS                          | basaltic             | GF   | graphitic               |
| STM                     | microstylolites               | FO                      | foliated                  | SELV | selvage                    |  |                       | BX                          | brecciated           | GG   | gouge                   |
| SV                      | saussurite                    | FOL                     | foliation controlled      | SH   | shear                      |  |                       | C\$                         | cumulate             | GN   | gneissic                |
| TA                      | talc                          | FRAC                    | fracture coating          | SMX  | semi massive               |  |                       | CA                          | cataclastic          | GP   | glomero-porphyritic     |
| TO                      | tourmaline                    | FRCT                    | fractured                 | SPEC | speck                      |  |                       | CH                          | cherty               | GR   | granitic (comp.)        |
| TR                      | tremolite                     | FRCT                    | fractured                 | SPEC | speck                      |  |                       | CM                          | compact              | GT   | granitic                |
| TRQ                     | translucent quartz            | FSTR                    | fracture hosted stringers | SPOT | discrete spots             |  |                       | CN                          | concordant           | GU   | granulose               |
| UX                      | uranium mineralization        | FT                      | fault                     | SSTR | stockwork hosted stringers |  |                       | CR                          | crenulated/folded    | GY   | greasy                  |
| VI                      | vivianite                     | GG                      | gouge                     | SSUR | s surfaces                 |  |                       | CS                          | clast supported      | HE   | hematite                |
| XX                      | unknown mineral               | GM                      | groundmass                | STK  | columnar stylolites        |  |                       | CT                          | clastic              | HG   | hypidiomorphic granular |
| ALTERATION DISTRIBUTION |                               | GOUG                    | gouge                     | STM  | microstylolites            |  |                       | CY                          | clayey               | HM   | hematized               |
|                         |                               | HDIS                    | heavily disseminated      | STRG | stringers                  |  |                       | DB                          | diabasic             | HO   | homogeneous             |
| <u>Code</u>             | <u>Description</u>            | HX                      | hydrothermal breccia      | STRT | structural control         |  |                       | DC                          | dacite               | HR   | hornfelsic              |
| BED                     | bedding controlled            | IN                      | interstitial              | SUB  | subhedral                  |  |                       | DE                          | dense                | HT   | heterogeneous           |
| BIR                     | irregular bands               | INT                     | interstitial              | SW   | stockwork                  |  |                       | DF                          | drag folded          | HX   | healed breccia          |
| BLEB                    | blebs                         | IR                      | irregular                 | TQ   | total quartz               |  |                       | DK                          | dyke                 | IB   | interbedded             |
| BLOT                    | irregular spots               | IRR                     | irregular                 | UC   | unconformity               |  |                       | DR                          | dioritic             | IM   | intermediate            |
| BN                      | banded                        | LENS                    | lenses                    | VBLB | vein hosted bleb           |  |                       | DS                          | discordant           | IN   | interstitial            |
| BO                      | botryoidal                    | LIES                    | liesegang                 | VDIS | vein hosted diss           |  |                       | EL                          | elongated (=prolate) | IQ   | inequigranular          |
| BOUD                    | boudinaged                    | LM                      | laminated                 | VN   | vein/stringers             |  |                       |                             |                      |      |                         |

| TEXTURE/ROCKTYPE QUALIFIERS |                               |      | MINERALS                |                    |                          |
|-----------------------------|-------------------------------|------|-------------------------|--------------------|--------------------------|
| Code                        | Description                   | Code | Description             | Code               | Description              |
| IR                          | irregular                     | PM   | polymictic              | TT                 | trachytic                |
| IS                          | intrusive                     | PP   | partially preserved     | UF                 | uniform textured         |
| IT                          | intraclasts                   | PR   | porphyritic             | UM                 | ultramafic               |
| KF                          | k-feldspar                    | PT   | ptgmatic folds          | UX                 | uranium mineralization   |
| KT                          | clotty (for dykes)            | PW   | pillowed                | VL                 | volcanic                 |
| LC                          | loosely consolidated          | PY   | pyritic                 | VN                 | veined                   |
| LE                          | leached                       | QT   | quartzitic              | VR                 | variolitic               |
| LG                          | liesegang                     | R1   | roundness, very angular | VS                 | vesicular                |
| LL                          | lit-par-lit                   | R2   | roundness, angular      | VU                 | vuggy                    |
| LM                          | laminated                     | R3   | roundness, subangular   | VV                 | varved                   |
| LN                          | lenticular                    | R4   | roundness, subrounded   | WB                 | wavy banded              |
| LS                          | limy                          | R5   | roundness, rounded      | WF                 | weakly foliated          |
| LT                          | lithic                        | R6   | roundness, very rounded | XB                 | crossbedded (11 degrees) |
| LX                          | low angled crossbedded (1-10) | RB   | rotated beds            | XE                 | xenolithic               |
| M                           | moderate                      | RE   | remobilizate            | XL                 | crystalline              |
| M#                          | mesocratic                    | RQ   | ribbony quartz          | MINERALS           |                          |
| MC                          | mud clasts                    | RY   | rhyolitic               | Code               | Description              |
| MF                          | mafic                         | S/   | streaky                 | SP                 | serpentine               |
| MH                          | mesh structure                | S1   | sorting, very well      | AA                 | andalusite               |
| MK                          | myrmekitic                    | S2   | sorting, well           | AB                 | albite                   |
| MM                          | migmatitic                    | S3   | sorting, moderate       | AC                 | actinolite               |
| MO                          | mottled                       | S4   | sorting, poor           | AD                 | anhydrite                |
| MP                          | matrix supported              | S5   | sorting, very poor      | AE                 | ankerite                 |
| MR                          | microcline                    | SA   | silicified              | AF                 | altered feldspar         |
| MT                          | magnetite                     | SB   | slabby                  | AS                 | arsenopyrite             |
| MX                          | massive                       | SF   | spherulitic             | AT                 | apatite                  |
| MY                          | mylonitic                     | SH   | sheared                 | AU                 | gold                     |
| ND                          | nodular                       | SK   | slickensides            | AX                 | amphibole                |
| NF                          | non-fragmental                | SL   | slaty                   | AY                 | anthophyllite            |
| NN                          | black                         | SO   | scoriaceous             | BA                 | barite                   |
| NP                          | not preserved                 | SS   | schistose               | BI                 | biotite                  |
| OV                          | ovoid                         | SU   | subhedral               | BR                 | bornite                  |
| P\$                         | porphyroclastic               | SW   | stockwork               | CB                 | carbonate                |
| PB                          | porphyroblastic               | SY   | syenitic                | CC                 | calcite                  |
| PC                          | purple clay                   | SZ   | sill                    | CD                 | cordierite               |
| PE                          | pebble beds                   | TB   | tabular (=platy)        | CF                 | coffinite                |
| PG                          | pegmatitic                    | TF   | tuffaceous              | CH                 | chert                    |
| PH                          | phelbitic                     | TN   | tonalitic               | CL                 | chlorite                 |
|                             |                               |      |                         | CO                 | cobaltite                |
|                             |                               |      |                         | CP                 | chalcopyrite             |
|                             |                               |      |                         | CU                 | copper                   |
|                             |                               |      |                         | CY                 | clay                     |
|                             |                               |      |                         | DI                 | diopside                 |
|                             |                               |      |                         | DO                 | dolomite                 |
|                             |                               |      |                         | DV                 | dravite                  |
|                             |                               |      |                         | EP                 | epidote                  |
|                             |                               |      |                         | FL                 | fluorite                 |
|                             |                               |      |                         | FU                 | fuchsite                 |
|                             |                               |      |                         | FX                 | feldspar                 |
|                             |                               |      |                         | GA                 | garnet                   |
|                             |                               |      |                         | GE                 | gersdorffite             |
|                             |                               |      |                         | GF                 | graphite                 |
|                             |                               |      |                         | GL                 | galena                   |
|                             |                               |      |                         | GO                 | goethite                 |
|                             |                               |      |                         | GS                 | gypsum                   |
|                             |                               |      |                         | HA                 | halite                   |
|                             |                               |      |                         | HB                 | hornblende               |
|                             |                               |      |                         | HE                 | hematite                 |
|                             |                               |      |                         | HS                 | specular hematite        |
|                             |                               |      |                         | HV                 | heavy minerals           |
|                             |                               |      |                         | IL                 | illite                   |
|                             |                               |      |                         | KA                 | kaolinite                |
|                             |                               |      |                         | KF                 | k-feldspar               |
|                             |                               |      |                         | LI                 | limonite                 |
|                             |                               |      |                         | M\$                | montmorillonite          |
|                             |                               |      |                         | M@                 | malachite                |
|                             |                               |      |                         | MA                 | marcasite                |
|                             |                               |      |                         | ME                 | micrite                  |
|                             |                               |      |                         | MF                 | mafic minerals           |
|                             |                               |      |                         | MI                 | mica                     |
|                             |                               |      |                         | ML                 | millerite                |
|                             |                               |      |                         | MN                 | manganese minerals       |
|                             |                               |      |                         | MO                 | molybdenite              |
|                             |                               |      |                         | MR                 | microcline               |
|                             |                               |      |                         | MT                 | magnetite                |
|                             |                               |      |                         | MU                 | muscovite                |
|                             |                               |      |                         | NI                 | niccolite                |
|                             |                               |      |                         | NX                 | black mineral            |
|                             |                               |      |                         | OU                 | orange uranium           |
|                             |                               |      |                         | OX                 | oxides (gen.)            |
|                             |                               |      |                         | PL                 | scapolite                |
|                             |                               |      |                         | PO                 | pyrrhotite               |
|                             |                               |      |                         | PS                 | phosphate                |
|                             |                               |      |                         | PX                 | pyroxene                 |
|                             |                               |      |                         | PY                 | pyrite                   |
|                             |                               |      |                         | QC                 | quartz carbonate         |
|                             |                               |      |                         | QF                 | quartzofeldspathic       |
|                             |                               |      |                         | QM                 | quartz tourmaline        |
|                             |                               |      |                         | QZ                 | quartz                   |
|                             |                               |      |                         | RM                 | rammelsbergite           |
|                             |                               |      |                         | RQ                 | ribbony quartz           |
|                             |                               |      |                         | RU                 | rutile                   |
|                             |                               |      |                         | S\$                | stibnite                 |
|                             |                               |      |                         | SC                 | scheelite                |
|                             |                               |      |                         | SD                 | siderite                 |
|                             |                               |      |                         | SE                 | sericite                 |
|                             |                               |      |                         | SI                 | sillimanite              |
|                             |                               |      |                         | SN                 | sphene                   |
|                             |                               |      |                         | SP                 | sphalerite               |
|                             |                               |      |                         | SR                 | sparite                  |
|                             |                               |      |                         | ST                 | staurolite               |
|                             |                               |      |                         | SV                 | saussurite               |
|                             |                               |      |                         | SX                 | sulphides                |
|                             |                               |      |                         | TA                 | talc                     |
|                             |                               |      |                         | TE                 | tetrahedrite-tennantite  |
|                             |                               |      |                         | TO                 | tourmaline               |
|                             |                               |      |                         | TR                 | tremolite                |
|                             |                               |      |                         | UR                 | uraninite (pitchblende)  |
|                             |                               |      |                         | UX                 | uranium minerals         |
|                             |                               |      |                         | VI                 | vivianite                |
|                             |                               |      |                         | XX                 | any mineral (define)     |
|                             |                               |      |                         | YC                 | yellow clay mineral      |
|                             |                               |      |                         | YU                 | yellow uranium           |
|                             |                               |      |                         | YX                 | yellow uranium           |
|                             |                               |      |                         | YY                 | any mineral              |
|                             |                               |      |                         | ZE                 | zeolites                 |
|                             |                               |      |                         | ZI                 | zircon                   |
|                             |                               |      |                         | ZO                 | zoisite                  |
|                             |                               |      |                         | FRACTURE INTENSITY |                          |
|                             |                               |      |                         | Code               | Description              |
|                             |                               |      |                         | <1                 | less than one            |
|                             |                               |      |                         | 0                  | zero                     |
|                             |                               |      |                         | BC                 | broken core              |
|                             |                               |      |                         | BK                 | blocky                   |
|                             |                               |      |                         | BP                 | brittle overprint        |
|                             |                               |      |                         | BX                 | breccia                  |
|                             |                               |      |                         | FS                 | fissile                  |
|                             |                               |      |                         | FT                 | fault                    |
|                             |                               |      |                         | GG                 | gouge                    |
|                             |                               |      |                         | HF                 | healed fractures         |
|                             |                               |      |                         | HX                 | hydrothermal breccia     |
|                             |                               |      |                         | IR                 | irregular                |
|                             |                               |      |                         | LC                 | lost core                |
|                             |                               |      |                         | MC                 | missing core             |
|                             |                               |      |                         | MY                 | mylonites                |
|                             |                               |      |                         | OF                 | open fracture            |
|                             |                               |      |                         | R0                 | extremely weak rock      |
|                             |                               |      |                         | R1                 | very weak rock           |
|                             |                               |      |                         | R2                 | weak rock                |
|                             |                               |      |                         | R3                 | weak rock                |
|                             |                               |      |                         | R4                 | strong rock              |
|                             |                               |      |                         | R5                 | very strong rock         |
|                             |                               |      |                         | R6                 | extremely strong rock    |
|                             |                               |      |                         | S1                 | very soft clay           |
|                             |                               |      |                         | S2                 | soft clay                |
|                             |                               |      |                         | S3                 | firm clay                |
|                             |                               |      |                         | S4                 | stiff clay               |
|                             |                               |      |                         | S5                 | very stiff clay          |
|                             |                               |      |                         | S6                 | hard clay                |
|                             |                               |      |                         | SA                 | saprolite (weathering)   |
|                             |                               |      |                         | VG                 | vuggy                    |

| FRACTURE FEATURES |                        |      |                       |      |                           |      |                          | STRUCTURAL ELEMENTS |                              | OUTCROP SAMPLE COMPETENCY |  |
|-------------------|------------------------|------|-----------------------|------|---------------------------|------|--------------------------|---------------------|------------------------------|---------------------------|--|
| Code              | Description            | Code | Description           | Code | Description               | Code | Description              | Code                | Description                  | Code                      | Description  |
| SP                | serpentine             | DI   | diopside              | ME   | micrite                   | S\$  | stibnite                 | BED                 | Bedding                      | -3                        | Unconsolidated                                     |
| AA                | andalusite             | DK   | dyke                  | MF   | mafic minerals            | SC   | scheelite                | BX                  | breccia                      | -2                        | Moderately Friable                                 |
| AB                | albite                 | DO   | dolomite              | MF/D | mafic dyke                | SD   | siderite                 | CON                 | Contact                      | -1                        | Slightly Friable                                   |
| AC                | actinolite             | DQZ  | drusy quartz          | MGG  | muddy gouge               | SE   | sericite                 | DC                  | disconformity                | 0                         | Lithified (moderate quartz overgrowths)            |
| AD                | anhydrite              | DSG  | indurated sandy gouge | MI   | mica                      | SGG  | sandy gouge              | DFBN                | deformation bands            | 1                         | Weakly Silicified (well developed qtz overgrowths) |
| AE                | ankerite               | DSK  | dip slip slickensides | ML   | millerite                 | SH   | sheared                  | F1                  | S1 fold axis                 | 2                         | Moderately Silicified (breaks across grains)       |
| AF                | altered feldspar       | DV   | dravite               | MN   | manganese minerals        | SI   | sillimanite              | F2                  | S2 fold axis                 | 3                         | Strongly Silicified (original texture obliterated) |
| AP                | aplitic                | EP   | epidote               | MO   | molybdenite               | SIL  | silicification           | F3                  | S3 fold axis                 | OUTCROP SAMPLE GRAINSIZE  |  |
| AP/D              | aplite dyke            | FD   | folded                | MR   | microcline                | SK   | slickensides             | FOL                 | Foliation                    | Code                      | Description  |
| AS                | arsenopyrite           | FL/D | felsic dyke           | MT   | magnetite                 | SMQ  | smokey quartz            | FoldAxis            | FoldAxis                     | 1                         | Cobbles > 64 mm                                    |
| AT                | apatite                | FT   | fault                 | MU   | muscovite                 | SN   | sphene                   | FRAC                | Fracture                     | 2                         | Pebbles 4 - 64 mm                                  |
| AU                | gold                   | FU   | fuchsite              | MY   | mylonite                  | SP   | sphalerite               | FT                  | Fault                        | 3                         | Granules 2 - 4 mm                                  |
| AX                | amphibole              | FX   | feldspar              | NCL  | black chlorite            | SR   | sparite                  | GG                  | Gouge                        | 4                         | Very coarse sand 1 - 2 mm                          |
| AY                | anthophyllite          | GA   | garnet                | NCY  | black clay                | SSK  | strike slip slickensides | H1                  | S1 hinge line                | 5                         | Coarse sand 0.5 - 1.0 mm                           |
| BA                | barite                 | GE   | gersdorffite          | NI   | niccolite                 | ST   | staurolite               | H2                  | S2 hinge line                | 6                         | Medium sand 0.25 - 0.5 mm                          |
| BC                | broken core            | GF   | graphite              | NOX  | black oxides              | SV   | saussurite               | HF                  | Healed Fracture              | 7                         | Fine sand 0.125 - 0.25 mm                          |
| BED               | bedding                | GG   | gouge                 | NSX  | black sulfide mineral     | SX   | sulphides                | LIN                 | Lineation                    | 8                         | Very fine sand 0.063 - 0.125 mm                    |
| BH                | bleached               | GL   | galena                | OF   | open fractures            | TA   | talc                     | MEL                 | mineral elongation lineation | 9                         | silt/mud < 0.063 mm                                |
| BI                | biotite                | GO   | goethite              | OSK  | oblique slip slickensides | TE   | tetrahedrite-tennantite  | MY                  | Mylonite                     |                           |  |
| BP                | brittle overprint      | GS   | gypsum                | OX   | oxides (gen.)             | TO   | tourmaline               | S0/S1               | S1 // S0                     |                           |  |
| BR                | bornite                | HA   | halite                | PCY  | purple clay               | TR   | tremolite                | OF                  | Open Fracture                |                           |  |
| BS                | basalt                 | HB   | hornblende            | PEGM | pegmatite                 | UC   | unconformity             | S1                  | Foliation - cleavage plane   |                           |  |
| BX                | breccia                | HBX  | healed breccia        | PF   | plagioclase               | UN   | unconsolidated           | S1/S2               | S2 // S1                     |                           |  |
| CB                | carbonate              | HE   | hematite              | PLB  | parallel to bedding       | UR   | uraninite (pitchblende)  | S1AP                | Axial plane to S1 fold       |                           |  |
| CBV               | carbonate vein         | HF   | healed fractures      | PLF  | parallel to foliation     | UX   | uranium minerals         | S2                  | Foliation - cleavage plane   |                           |  |
| CC                | calcite                | HFT  | healed fault          | PO   | pyrrhotite                | VI   | vivianite                | S2AP                | axial plane to S2 fold       |                           |  |
| CD                | cordierite             | HM   | hematized             | POT  | potassic                  | VN   | vien                     | S3                  | cleavage - foliation plane   |                           |  |
| CF                | coffinite              | HS   | specular hematite     | PS   | phosphate                 | VU   | vuggy                    | S3AP                | Axial plane to S3 fold       |                           |  |
| CGG               | clay gouge             | HV   | heavy minerals        | PX   | pyroxene                  | VUG  | cavity in rock           | SH                  | shear                        |                           |  |
| CH                | chert                  | IAE  | pink ankerite         | PY   | pyrite                    | XE   | xenolith                 | SK                  | slickensides                 |                           |  |
| CL                | chlorite               | IL   | illite                | QC   | quartz-carbonate          | XX   | cherty quartz            | UC                  | unconformity                 |                           |  |
| CO                | cobaltite              | IN/D | intermediate dyke     | QF   | quartzofeldspathic        | ZE   | zeolites                 | UK                  | unknown                      |                           |  |
| CON               | contact                | KA   | kaolinite             | QM   | quartz tourmaline         | ZI   | zircon                   | VN                  | Vein                         |                           |  |
| CP                | chalcopyrite           | KF   | k-feldspar            | QZ   | quartz                    | ZO   | zoisite                  | VUG                 | cavity in rock               |                           |  |
| CU                | copper                 | LI   | limonite              | QZD  | quartz dissolution        |      |                          |                     |                              |                           |  |
| CX                | cross-cutting fracture | M\$  | montmorillonite       | QZV  | quartz veinlet            |      |                          |                     |                              |                           |  |
| CY                | clay                   | M@   | malachite             | RQ   | ribbony quartz            |      |                          |                     |                              |                           |  |
| DAE               | indurated ankerite     | MA   | marcasite             | RU   | rutile                    |      |                          |                     |                              |                           |  |