

LITHOLOGICAL CODES

Overburden		Upper Saprolite	
OP	Pindan	C	Clay after basement lithology of indeterminate type
OPG	Pindan with gravel – clast-supported	CSS	Sandy clay probably after sandstone
OS	Sand	CLST	Clay probably after limestone
OSC	Sandy clay	CG	Basement sandy clay with gravel
OCS	Clayey sand	CULM	Clay probably after magmatic lamproite
OSCGR	Sandy clay with grit – matrix supported	CULT	Clay probably after tuffaceous lamproite
OGR	Grit – clast-supported	CULTS	Clay probably after sandy tuffaceous lamproite
OSG	Sand with gravel – matrix-supported	CUK	Clay probably after kimberlitic rock
OSCG	Sandy clay with gravel – matrix-supported		
OCSG	Clayey sand with gravel – matrix-supported	Ultramafic Rocks	
OCG	Clay with gravel – matrix-supported	UK	Kimberlitic rock of indeterminate type
OG	Gravel – clast-supported	UKB	Kimberlitic breccia
OLGR	Transported lateritic grit		
OLG	Transported lateritic gravel	UL	Lamproitic rock of indeterminate type
OGL	Lag gravel on bedrock surface	ULT	Lamproite tuff
OSCL	Sandy clay with insitu laterite	ULTS	Sandy tuff (>20% quartz grains)
OPWL	Pindan with weakly developed laterite	ULTR	Reworked tuff (clasts of tuff)
OPML	Pindan with moderately developed laterite	ULTL	Lapilli tuff
OPHL	Pindan with highly developed laterite	ULTX	Crystal-rich tuff (>20% crystals)
OSWL	Sand with weakly developed laterite	ULTW	Welded tuff
OSML	Sand with moderately developed laterite	TS	Tuffaceous sandstone (>40% quartz grains)
OSHL	Sand with highly developed laterite	ULBX	Lamproitic magmatic breccia, usually auto breccia.
OCWL	Clay with weakly developed laterite		
OCML	Clay with moderately developed laterite		
OCHL	Clay with highly developed laterite		
OB	Black soil		

[illegible]

Ultramafic Rocks	
UK	Kimberlitic rock of indeterminate type
UKB	Kimberlitic breccia
UL	Lamproitic rock of indeterminate type
ULT	Lamproite tuff
ULTS	Sandy tuff (>20% quartz grains)
ULTR	Reworked tuff (clasts of tuff)
ULTL	Lapilli tuff
ULTX	Crystal-rich tuff (>20% crystals)
ULTW	Welded tuff
TS	Tuffaceous sandstone (>40% quartz grains)
ULBX	Lamproitic magmatic breccia, usually auto breccia.

Chemical Deposits	
LNW	Weakly developed nodular laterite (overprinting pre-existing rock)
LNM	Moderately developed nodular laterite
LNH	Highly developed nodular laterite
LM	Massive laterite overprinting pre-existing rock
LL	Laminated laterite overprinting pre-existing rock
CCO ---	Chemical calcrete overprinting pre-existing rock
CCOW ---	Weakly developed calcrete overprint
CCOH ---	Highly developed calcrete overprint
CCOM ---	Moderately developed calcrete overprint
CSO ---	Chemical silcrete overprinting pre-existing rock

Merlin-specific Rock Types	
Qsl	Quaternary soil
Qfk	Ferricrete
Tlat	Tertiary laterite - insitu
Kslst	Cretaceous Siltstone
Ksst	Cretaceous Sandstone
Kb	Kimberlite
Ebsst	Cambrian Bukalara Sandstone
Pmd	Proterozoic (McArthur Group)

WET COLOUR DESCRIPTION	
<i>Code</i>	<i>Intensity</i>
5	VERY DARK
4	DARK
3	MEDIUM
2	LIGHT
1	PALE

<i>Code</i>	<i>Colour</i>	<i>Code</i>	<i>Composite Colours</i>
Gy	grey	GyWh	grey-white
Bu	blue	YeOr	yellow-orange
Pk	pink	OrYe	orange-yellow
Gn	green	YeGn	yellow-green
Kh	khaki	RdBn	red-brown
Ol	olive	OlGn	olive-green
Bl	black	BuGn	blue-green
Or	orange	CrWh	cream-white
Pu	purple	OrCr	orange-cream
Rd	red	RdBn	red-brown
Tn	tan	YeWh	yellow-white
Bn	brown		
Wh	white		
Ye	yellow		
Cr	cream		

WEATHERING/OXIDATION		
CODE	DESCRIPTION	DETAILED DESCRIPTION
F	FRESH	ROCK SUBSTANCE UNAFFECTED BY WEATHERING, SULPHIDES OBSERVED.
S	SLIGHTLY WEATHERED	ROCK SHOWS SLIGHT CHANGE OF COLOUR AND LUSTRE BUT GENERALLY SHOWS LITTLE OR NO CHANGE OF STRENGTH FROM FRESH ROCK.
M	MODERATELY WEATHERED	SIGNIFICANT CHANGE OF COLOUR AND LUSTRE THROUGH THE ROCK FABRIC, AND ROCK STRENGTH IS NOTICEABLY REDUCED BY WEATHERING, BUT ROCK PIECES CANNOT BE BROKEN BY HAND ACROSS THE ROCK FABRIC AND THE ROCK MATERIAL IS NOT FRIABLE.
H	HIGHLY WEATHERED	ROCK STRENGTH AND HARDNESS CLEARLY REDUCED BY WEATHERING, ROCK PIECES CAN GENERALLY BE BROKEN BY HAND ACROSS THE ROCK FABRIC AND THE ROCK MATERIAL IS PARTLY FRIABLE; THE ROCK MAY BE HIGHLY DISCOLOURED, USUALLY BY IRONSTAINING.
E	EXTREMELY WEATHERED	ROCK IS WEATHERED TO AN EXTENT THAT IT HAS SOIL PROPERTIES, IE. IN WATER IT EITHER DISINTEGRATES OR CAN BE REMOULDED, BUT ORIGINAL FABRIC IS MAINLY PRESERVED.
R	RESIDUAL SOIL	ROCK IS COMPLETELY CHANGED TO SOIL IN WHICH ORIGINAL ROCK FABRIC IS COMPLETELY DESTROYED.