LITHOLOGICAL LOGGING CODES

COLLAR FIELDS	LITHOLOGY MAJOR AND MINOR							
Reason_To_End		Regolith		Metamorphic				
Drill could penetrate no further (Target Reached)	R	undifferentiated regolith	R	undifferentiated gneiss	ZGNS			
Drill could penetrate no further (Target not reached)	Х	undifferentiated clay-dominated regolith	RCLY	marble	ZMBL			
Drill hole was abandoned (Target not reached)	Α	undifferentiated gravel-dominated regolith	RG	chlorite schist	ZSC			
Drill hole halted before refusal (Target reached)	Н	in situ clay	RIC	chlorite - titanite schist	ZSCS			
Survey_Method		undifferentiated laterite	RLAT	undifferentiated schist	ZSHT			
Differential GPS	DGPS	lateritic gravel	RLG	mica schist	ZSM			
Handheld GPS	GPS	undifferentiated sand-dominated regolith	RS	quartz schist	ZSQ			
Interpreted	INT	soil	RSOIL	quartz - sericite schist	ZSQS			
Measured	MEAS	transported (alluval, colluvial or lacustrine) clay	RTC	quartz - titanite schist	ZSQT			
WEATHERING		transported (alluvial or colluvial) gravel	RTG	talc chlorite schist	ZSTC			
In-Situ Weathering		transported (alluvial or colluvial) sand	RTS	talc schist	ZSTL			
bleached (Pallid) clay zone	LPA	Weathering and Overprint		Sedimentary (Consolidated)				
upper saprolite(Fe 3+ pigments)yel,red,etc	LSU	bleached (Pallid) clay zone	LPA	banded iron formation	SBIF			
saprolite (Fe2+ pigments)green,blue,black	LSL	upper saprolite(Fe 3+ pigments)yel,red,etc	LSU	breccia	SBRC			
saprock	LSR	saprolite (Fe2+ pigments)green,blue,black	LSL	conglomerate	SCGL			
bedrock	BRK	saprock	LSR	chert	SCHT			
In-Situ Lateritic Weathered Regolith		calcrete duricrust	OCD	claystone	SCLT			
calcrete duricrust	OCD	calcrete nodules	OCN	dolomite	SDOL			
calcrete nodules	OCN	ferricrete duricrust	OFD	greywacke	SGWK			
ferricrete duricrust	OFD	silcrete duricrust	OSD	lignite	SLIG			
silcrete duricrust	OSD	Igneous Rocks		limestone	SLST			
General Weathering		andesite	IAND	mudstone, shale	SMDT			
fresh rock	F	basalt	IBAS	phyllite, argillite, slate (metamorphic)	SPHY			
weakly weathered	W	dacite	IDAC	Radiolarite	SRAD			
highly weathered	Н	dolerite	IDOL	sandstone, arenite	SSDT			
very highly weathered	VH	dunite	IDUN	siltstone	SSLT			
REDOX	undifferentiated felsic	IFEL	Sedimentary (Unconsolidated)					
Highly oxidised	hx	gabbro	IGAB	unconsolidated gravel	SGVL			
Oxidised	ох	granite	IGRA	unconsolidated sand	SAND			
Weakly oxidised	wx	harzburgite	IHAR	unconsolidated mud	SMUD			
Highly reduced	hr	kimberlite	IKIM	unconsolidated silt	SILT			
Reduced	rd	komatiite	IKOM	unconsolidated clay	SCLY			
Weakly reduced	wr	lamproite	ILAM	General Codes				
Reduced and oxidised	rx	undifferentiated mafic	IMAF	unidentified cavity	CAV			
HARDNESS	undifferentiated plutonic or hypabyssal rock	IPLU	workings	CAVW				
soft	s	pyroxenite	IPYX	drill hole	CAVD			
medium	m	rhyolite	IRHY	no sample recovery	NSREC			
hard	h	serpentinite	ISRP	sample no longer available	NSREM			
very hard	vh	ultramafic lamprophyre	IULAM	unknown basement	UKBT			
		undifferentiated ultramafic	IUM	core loss	LOSS			
		undifferentiated volcanic rock	IVOL	no sample return	NSRET			

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COLOUR_INTENSITY		TEXTURE		SORTING		MINERALOGY		ABUNDANCE		HYDROLOGY	
light	L	Interbedded	ib	well	WS	goethite	go	trace (<1%)	T	Aquifer	AQ
dark	D	laminated <10mm	lam	moderate-well	mw	graphite	gr	minor (1-5%)	М	Water Table	WT
bright	В	layered	ly	moderate	ms	gypsum	gy	common (5-10%)	С	Perched WT	P_WT
COLOUR		lineated	li	poor-moderate	pm	hematite	he	dominant (>10%)	D	Water Quality	
black	bk	massive	ms	poor	ps	ilmenite	il	abundant (>20%)	Α	Fresh	FR
blue	bl	medium bedded 100-300mm	mdb	ANGULARITY		kaolin	ka			Brackish	BR
brown	bn	mylonitic	my	Angular	a	kyanite	ky	eg. minor pyrite	руМ	Salty	SALT
cream	cm	pegmatitic	pg	Sub Angular	sa	leucoxene	lx	FORMATION		UNIT	
green	gn	porcellaneous	рс	Sub Rounded	sr	lignite clasts	lc	Quaternary (Undiff)	Q		
grey	gy	porphyritic	ро	Rounded	r	limonite	lm	Tertiary (Undiff)	Т		
khaki	kh	porphyritic	ро	Well Rounded	wr	magnesite	mg	Windalia Radiolarite	Kw		
multicoloured	mc	porphyroblastic	pb	MINERALOGY		magnetite	mt	Muderong Shale	Km	oxidised	ох
orange	or	porphyroclastic	рс	actinolite	ac	malachite	mc			reduced upper	ru
olive	ol	pughy	pu	almandine	al	manganese oxides	mn			reduced lower	rl
pink	pk	schistose	sh	amphibole	am	mica (undiff)	mi	Birdrong Sandstone	Kb	Upper	u
purple	pu	shear or shear zone	SZ	anatase	an	moissanite	ms			Middle	m
red	rd	stockwork	stwk	ankerite	ak	muscovite	mu			Middle Channel	mc
white	wt	stressed	SS	arsenates	asp	oxidised sulphide	osx			Middle Shoreline	ms
yellow	yw	subhedral	su	arsenopyrite	asp	perovskite	pν			Lower (marine)	I
TEXTURE sugary		sg	azurite	az	phlogopite	ph			Lower Terrestrial	lt	
amygdaloidal	am	tabular	tb	barite	ba	pyrite	ру	Nanutarra Formation	Kn	Terrestrial	t
anhedral	an	thick bedded >300mm	tkb	biotite	bt	pyrope	pp			Marginal Marine	mm
boudins	bn	thin bedded 10-100mm	tnb	bornite	bn	pyrrhotite	ро	Yarraloola Conglomrate	Ку		
boxwork	bx	tuffaceous	tf	calcite	ca	quartz	qz	Weathered Basement	Wb		
breccia zone	bz	veined	vn	carbon	С	rock fragments	rf	Mafic Dykes	Dy		
brecciated	bc	vesicular	vs	carbonate	cb	rutile	ru	Metasediments (Undiff)	Ms		
cemented	cm	GRAIN_SIZE		chalcocite	СС	scorodite	sc	Granite Undif.	Gn		
cleaved	SC	Igneous and Metamorphic Grain Size		chalcopyrite	сру	sericite	se	RANKING			
crenulated	cn	fine grained <1mm	ifg	chenevixite	CV	serpentine	sr	1 - Confident, identified in logging			
crystalline	xt	medium grained 1-5mm	img	chlorite	cl	shell cast	SC	2 - Uncertain (needs validating)			
disseminated	ds	coarse grained 5-30mm	icg	chrome diopside	cdp	shell fragments	sf	3 - Inferred from surrounding holes			
equigranular	eq	pegmatitic >30mm	ipg	chromite	cr	siderite	sd				
euhedral	eu	Sedimentary Grain Size		clay (general)	су	silicieous	si				
fault	ft	aphanitic - silt <64um (mud,silt+clay)	sas	diamond	dd	spinel	sp				
fault or fault zone	fz	fine grained 64um - 0.25mm (fine sand)	sfg	dolomite	do	sulphide	SX				
fining downwards	fd	medium grained 0.25-1mm (med sand)	smg	epidote	ер	talc	tc				
fining upward	fu	coarse grained 1 - 2 mm (coarse sand)	scg	feldspar	fp	titanite (sphene)	ti				
fissile	fi	very coarse grained 2 - 4mm (vc sand)	svcg	fe-oxide/hydroxide	fe	tourmaline	tu				
foliated (undiff)	fo	pebble - boulder 4-256mm (pebble)	spb	galena	ga	wood fragments	wf				
frosted	fr			glauconite	gl	zircon	zr				
granular	gl										
homogeneous	ho										