Appendix E: Scimitar Resources lithology data codes

November 2006

Lithologic Codes					
Regolith (R*)			**Sedimentary Rocks (S*)**		
R	undifferentiated regolith		SU	undifferentiated sediment	
RSOIL	soil		SCLY	unconsolidated clay	
RCAC	calcrete		SMUD	unconsolidated mud	
RSIC	silcrete		SILT	unconsolidated silt	
RFEC	ferricrete		SAND	unconsolidated sand	
RG	undifferentiated gravel-dominated regolith		SPCS	unconsolidated pebbly coarse sand	
RS	undifferentiated sand-dominated regolith		SGVL	unconsolidated gravel	
RC	undifferentiated clay-dominated regolith		SCLT	claystone	
RTG	transported (alluvial or colluvial) gravel		SMDT	mudstone, shale	
RTS	transported (alluvial or colluvial) sand		SSLT	siltstone	
RTC	transported (alluval, colluvial or lacustrine) clay		SSDT	sandstone, arenite	
RLG	lateritic gravel		SGRT	grit	
RLAT	undifferentiated laterite		SCGL	conglomerate	
RIC	in situ clay		SBRC	breccia	
RSAP	undifferentiated saprolite		SPHY	phyllite, argillite, slate (should have cleavage or obvious signs of metamorphism)	
			SGWK	greywacke	
Igneous Rocks (I*)			SLST	limestone	
IVOL	undifferentiated volcanic rock		SDOL	dolomite	
IPLU	undifferentiated plutonic or hypabyssal rock		STUF	undifferentiated tuff	
IFEL	undifferentiated felsic		SCHT	chert	
IMAF	undifferentiated mafic		SBIF	banded iron formation	
IUM	undifferentiated ultramafic		SLIG	lignite	
IRHY	rhyolite				
IDAC	dacite		**Metamorphic Rocks (Z*)**		
IAND	andesite		ZSHT	undifferentiated schist	
IBAS	basalt		ZGNS	undifferentiated gneiss	
IKOM	komatiite		ZSTC	talc chlorite schist	
IKIM	kimberlite		ZSC	chlorite schist	
ILAM	lamproite		ZSCS	chlorite - titanite schist	
IULAM	ultramafic lamprophyre		ZSTL	talc schist	
IGRA	granite		ZSM	mica schist	
IDOL	dolerite		ZSQ	quartz schist	
IGAB	gabbro		ZSQS	quartz - sericite schist	
IDUN	dunite		ZSQT	quartz - titanite schist	
IPYX	pyroxenite		ZMBL	marble	
IHAR	harzburgite				
ISRP	serpentinite		**Veins**		
			VQ	Quartz vein (>=50% of interval)	
Cavities or No Recovery			VC	Carbonate veins (>=50% of interval)	
CAV	unidentified cavity		VX	Sulphide veins (>=90% of interval)	
CAVW	workings		VR	Sericite veins (>=50% of interval)	
CAVD	drill hole		VQC	Quartz - carbonate veins (qz+ca >=50% of interval)	
NSREC	no sample recovery		VQX	Quartz - sulphide veins (>=50%qz, 10-90% sx)	
NSREM	sample no longer available (applies to relogging)		VQCX	Quartz - carbonate - sulphide veins (>=50% qz+ca, 10-90% sx)	
			VQL	Quartz - chlorite veins (>=50% qz+cl)	
			VQCL	Quartz - carbonate - chlorite veins (>=50% qz+ca+cl)	
			VX	massive sulphide (>=50% of interval)	
			VG	Gossan	
			Fault and Shear Rocks (X*)		
			XFLT	fault gouge & cataclasite	
			XBRC	fault breccia	
			XMYL	mylonite	

Appendix E: Scimitar Resources lithology data codes

November 2006

Mineral & Alteration Codes	
ac	actinolite
ak	ankerite
al	almandine
am	amphibole
an	anatase
asp	arsenopyrite
as	arsenates
az	azurite
ba	baryte
bt	biotite
ca	carbonate
cc	calcite
cdp	chrome diopside
cl	chlorite
cpy	chalcopyrite
cr	chromite
cv	chenevixite
dd	diamond
do	dolomite
ep	epidote
fe	fe-oxide or hydroxide
fp	feldspar
ga	galena
gl	glauconite
go	goethite
gr	graphitic
he	hematite
il	ilmenite
ka	kaolin
ky	kyanite
lm	limonite (undifferentiated iron oxyhydroxide)
lx	leucoxene
mc	malachite
mi	mica (undifferentiated)
mg	magnesite
mn	mn-oxides
ms	moissanite
mt	magnetite
mu	muscovite
osx	oxidised sulphide
ph	phlogopite
po	pyrrhotite
pp	pyrope
pv	perovskite
py	pyrite
qz	quartz
rf	rock fragments
ru	rutile
sc	scorodite
se	sercite
sd	siderite
si	siliceous
sr	serpentine
sp	spinel
sx	sulphide
tc	talc
ti	titanite (sphene)
tu	tourmaline
zr	zircon

Texture Codes	
am	amygdaloidal
bn	boudins
bc	brecciated
bx	boxwork
bz	breccia zone
ds	disseminated
ft	fault
fo	foliated (undiff)
fz	fault or fault zone
lam	laminated
ms	massive
pc	porphyroclastic
pb	porphyroblastic
po	porphyritic
sc	cleaved
sh	schistose
stwk	stockwork
sz	shear or shear zone
tf	tuffaceous
vs	vesicular
eu	euhedral
su	subhedral
an	anhedral

lam	laminated (<10mm)
tnb	thin bedded (10-100mm)
mdb	medium bedded (100-300mm)
tkb	thick bedded (>300mm)

Grainsize Codes	
Igneous & Metamorphic Grain Size	
ifg	fine grained <1 mm
img	medium grained 1-5 mm
icg	coarse grained 5-30 mm
ipg	pegamatitic >30 mm
Sedimentary Grain size	
svfg	very fine grained <64 um (mud, silt & clay)
sfg	fine grained 64 um to 0.25 mm (fine sand)
smg	medium grained 0.25 to 1 mm (medium sand)
scg	coarse grained 1 to 2 mm (coarse sand)
svcg	very coarse grain >2mm (2 - 4mm granules, 4 - 16mm pebbles, 16-256 mm cobbles, >256 mm boulders)

Weathering Codes	
vox	very oxidised (primary mineralogy & texture destroyed by weathering, no sulphide, generally dominated by Fe and Al oxides and/or silica) = laterite, duricrust, lateritic gravel
mox	moderately oxidised (primary texture but dominantly secondary
wox	weakly oxidised (mineralogy dominantly primary, low clay content,
fr	fresh

Moisture Codes	
S	Sloppy
M	Moist
D	Dry

Abundance Codes	
e	entirely (nominally >90%)
d	dominant 50-90% (nominally 70%)
c	common 10-50% (nomninally 30%)
m	minor 1-10% (nominally 5%)
t	trace <1%

Alteration Intensity*	
1	weak alteration, original lithology (protolith) obvious
2	moderately altered, distinct mineralogical change but protolith still easy to recognise
3	strongly altered, near-complete to complete mineralogical reconstitution, protolith may be unrecognisable

*alteration intensity is not degree of weathering (ie. wox, mox, vox,

Colour Codes	
lt	light
dk	dark
bk	black
bl	blue
bn	brown
cm	cream
gn	green
gy	grey
kk	khaki
og	orange
ov	olive
pk	pink
pl	purple
rd	red
wt	white
yw	yellow

Scimitar Resources Ltd
Structure Codes
6/03/2007

Lithological Contacts	**Code**
Intrusive contact	IMD, IMG, IFG, etc according to lithology
Joints	J
Foliations	
Bedding	B
Flow banding	BF
Cleavage (undifferentiated, timed)	S, S1, S2, S3, S4, etc….
Cleavage untimed - slatey	SCL
Cleavage untimed - fracture	SCF
Cleavage - untimed pressure solution	SCP
Crenulation Cleavage	SCC
Schistosity	SSC
Gneissic segregation banding	SGN
Axial Plane	SAP
Shear Foliation	SZ
Displacement Structures	
Fault (undifferentiated, dextral, sinistral, reverse, normal)	FT, FTD, FTS, FTR, FTN
Shear Zone (undifferentiated, dextral, sinistral, reverse, normal)	FZ, FZD, FZS, FZR, FZN
Mylonite	FY
Fault Breccia	FB
Kink Banding (undifferentiated, dextral, sinistral, reverse, normal)	FK, FKD, FKS, FKR, FKN
Tension gashes (open)	TG
Veins	
Undifferentiated	V
Quartz	VQ
Carbonate	VC
Sulphide	VX
Chlorite	VL
Sericite	VR
Malachite	VM
combinations in alphabetical order e.g. VCQ, VCQX, etc…	
Lineations	
Fold Axis (undifferentiated, F1, F2, F3, etc...)	LF, LF1, LF2, LF3
Intersection	LI
Crenulation lineation	LC
Stretching	LS
Stretching (mineral)	LSM
Slickensides (undifferentiated, dextral, sinistral, reverse, normal)	LSK, LSKD, LSKS, LSKR, LSKN
Grooves	LG
Boudin necks	LBN
Kink band axes (undifferentiated, dextral, sinistral, reverse, normal)	LK, LKD, LKS, LKR, LKN
Rodding	LR
Ori mark quality	
Mark quality code is based on angular difference between adjacent ori marks (see attached sketch).	
Not Available (core orientation unavailable)	NA
No Comparison (adjacent marks can not be compared)	NC
Very Poor (>90 degrees rotation between adjacent ori marks)	VP
Poor (60-90 degrees rotation between ajacent ori marks)	P
Moderate (30-60 degrees rotation between adjacent ori marks)	M
Good (10-30 degrees rotation between adjacent ori marks)	G
Excellent (<10 degrees rotation between adjacent ori marks)	E