

# Venture Minerals Lithologic Codes

Code	Description	Code	Description	Code	Description
<b>Regolith</b>					
R	undifferentiated regolith	RL	undifferentiated laterite	RCLY	in situ clay
RCAC	calcrete	RLG	lateritic gravel	RSAP	undifferentiated saprolite
RSIC	silcrete	RLI	in situ laterite	RGOS	gossan ("iron cap"); textural or mineral prefix as appropriate
RFEC	ferricrete	RLT	transported laterite		
<b>Unconsolidated Sediments</b>		<b>Breccias, Faults and Shear Rocks</b>		<b>No Recovery &amp; Cavities</b>	
S	undifferentiated sediment	XHB	hydrothermal breccia	NCAV	cavity
SLG	lateritic gravel	XMYL	mylonite	NREC	no sample recovery
SGVL	unconsolidated gravel	XFB	Fault breccia - incohesive >30% clastic	NSAV	sample no longer available
SPCS	unconsolidated pebbly/cobbly sand			NCTM	contaminated interval
SAND	unconsolidated sand	XFG	Fault gouge - incohesive <30% clastic		
SILT	unconsolidated silt			<b>Veins</b>	
SMUD	unconsolidated mud	XFC	Fault cataclasite - cohesive more than >30% clastic	*V	Veins, ≤2 mineral prefixes
SCLY	unconsolidated clay (transported)			*VB	Vein breccia, ≤2 cement prefixes
cyRB	regolith breccia with clay matrix				
<b>Sedimentary Rocks (S*)</b>					
SS qzSS	>75% sandstone (undifferentiated) over	SMP	phyllite	SCB,	undifferentiated carbonate, prefixes oo=oolitic, st=stromatolitic, bc=bioclastic
volcSS	minimum 5m logging interval, prefixes qz	SGRT	grit	ooSCB,	
lithSS	= quartz, lith = lithic, volc = volcanogenic,	SSPC	pebbly or cobbly sandstone	stSCB,	
ccSS	cc = calcareous	SSIC	intraclastic SS & SCG	SLST	
SM	>75% mudstone over ≥5m	SCG	conglomerate	SDOL	dolomite
ST	>75% siltstone over ≥5m	SCGR	mud chip conglomerate (rip-ups)	SCHT	chert
SSM	25-75% SS & SM over ≥5m	SCGM	monomict conglomerate	SBIF	banded iron formation
SST	25-75% SS & ST over ≥5m	SCGP	polymict conglomerate	SLIG	lignite
SMH	shale	SBRM	monomict breccia	STIL	tillite
SML	slate	SBRP	polymict breccia	STUF	tuffite (redeposited)
SMA	argillite			SLAP	redeposited lapilli-stone
<b>Igneous Rocks (U* for Ultramafic, M* for Mafic, I* for Intermediate, F* for Felsic)</b>					
UM	undifferentiated ultramafic	UKoMC	olivine mesocumulate; komatiite flow	ID	diorite
UDUN	dunite			F	undifferentiated felsic rock
UHAR	harzburgite	MG	gabbro	FG	undifferentiated granitoid
UPX	pyroxenite	MGL	leucogabbro	FGRA	granite
USERP	serpentinite	MD	dolerite	FGRD	granodiorite
UKIM	kimberlite	MB	basalt	FDIO	diorite
ULAP	lamproite	MBHM	high-magnesium basalt	FMOZ	monzonite
ULAY	ultramafic lamprophyre	MBP	pillow-basalt	FSYE	syenite
UK	komatiite (undifferentiated)	MBHY	basaltic hyaloclastite	FTUF	felsic tuff
UKSTX	spinifex textured; komatiite flow	MLAP	mafic lapilli-stone	FV	undifferentiated felsic volcanic rock
UKoOC	olivine orthocumulate; komatiite flow	MTUF	mafic tuff	FRHY	rhyolite
		IA	andesite	FDAC	dacite
<b>Metamorphic &amp; Metasomatic Rocks (Z*)</b>					
ZSCH	undifferentiated schist	ZMRB	marble, >50% cb; ≤1 key mineral prefix	mtZXS	>50%) magnetite; matrix replacement to massive bands. <am, po & cb. Grn, or aci after vo.
mZSCH	undifferentiated mafic schist; >am, cl &/or bt; <fp, qz, lx etc...			voZXS	>50% vonsenite; aci, radiating
fZSCH	undifferentiated felsic schist; >qz, fp, mu; <mafic minerals	gtZXS	pbl gt in px+cc matrix (<10% px = gtZMRB) ± minor matrix am, mt, po etc. gt→ve; gradational with veZXS	poZXS	>50% pyrrhotite; bnd, semi-mas to mas
btZSCH	use mineral code prefixes for only the	veZXS	tab, pbl, & orb ve in px-cc matrix.	pyZXS	>50% pyrite; semi-mas to mas
ZGNS	undifferentiated gneiss	olZXS	>50% grn ol; ± ol→sr, hrm, dis mt, patches wt-lgn px.	sdZXS	>25% siderite; includes sqp & s+p, <cs + ksp
btZGNS	bt-gneiss, K-fp-gneiss, etc... using mineral code prefixes for only the	lpZXS	leopard skarn = olZXS w/ irregular granitic blobs/dycklets→px, rimmed by pk gt, lgn px, gn ph.	btZXS	>50% biotite; bn-bk, "books" common ± fl
ksp-ZGNS	distinguishing minerals			srZXS	>50% serpentine; mas translucent to flakey lgn-dgn, after olZXS.
ZAMP	undifferentiated amphibolite	amZXS	>50% amphibole; mas felted bands &/or pseudomorphs of pbl gt. <cb, mt, po, vo.	ZGRS	Undifferentiated greisen; saccharoidal qz-mu aggregate. Ppy fp→po.
ZHF	hornfels, ifg; ≤2 mineral prefixes as appropriate (eg. muZHF, andZHF)			ZQT	tourmaline "greisen" = FGRA w/ ppy fp→tu, saccharoidal qz groundmass ± ifg mu.
amZHF	amphibole (>20%) hornfels				
btZHF	biotite (>20%) hornfels; brownish, brown streak	am-voZXS	amphibole (25-50%) + vonsenite (25-50%); vo often radiating aci between am &/or ve after pbl gt.		
pxZHF	pyroxene (>20%) hornfels; whitish to whitish-green	ammt-ZXS	amphibole (25-50%) + magnetite (25-50%); typically matrix around ex-gt pbl		
axZHF	axinite (>20%) hornfels; purplish				
qzZHF	quartz (>20%) hornfels; hard, bronze-grey, microcrystalline qz w/ po, black streak	ampo-ZXS	amphibole (25-50%) + pyrrhotite (25-50%); pbl		

## Venture Minerals Mineral and Textural Codes

Code	Description	Code	Description	Code	Description	Code	Description	Code	Description	
Minerals										
ac	actinolite	cdp	chrome diopside	gt	garnet	mz	monazite	sd	siderite	
ak	ankerite	cl	chlorite	he	hematite	nac	nacrite	sh	scheelite	
ab	albite	cpy	chalcopyrite	hb	hornblende	ol	olivine	si	siliceous	
al	almandine	cpx	clinopyroxene	ilt	illite	or	orthoclase	sr	serpentine	
and	andalusite	cr	chromite	il	ilmenite	ops	opaline silica	sph	sphalerite	
ano	anorthite	crp	chrysoprase	ka	kaolin	ph	phlogopite	sp	spinel	
am	amphibole	crt	chrysotile	ksp	misc. k-feldspar	pl	plagioclase	sb	stilbite	
ana	anatase	cs	cassiterite	ky	kyanite	po	pyrrhotite	st	stannite	
atg	antigorite	cv	chenevixite	lau	laumontite	pp	pyrope	sx	sulphide	
asp	arsenopyrite	cy	misc. clay	lm	limonite/misc.	prh	prehnite	sxo	oxidised sulphide	
as	arsenates	da	danalite	lo	lollingite	pv	perovskite	tc	talc	
aug	augite	dd	diamond	lw	ludwigite	px	pyroxene	ti	titanite (sphene)	
ax	axinite	di	diopside	lx	leucoxene	py	pyrite	tr	tremolite	
az	azurite	do	dolomite	mc	malachite	qz	quartz	tu	tourmaline	
ba	baryte	ep	epidote	mi	misc. mica	rd	rhodochrosite	tz	topaz	
Bi	native bismuth	fe	FeO or FeOH	mg	magnetite	rf	rock fragments	vo	vonsenite	
bt	biotite	fl	flourite	mn	Mn-oxides	ru	rutile	ve	vesuvianite (idocrase)	
cb	misc. carbonate	fsp	feldspar	mon	montmorillonite	sa	saponite	zin	zinnwaldite	
cc	calcite	ga	galena	ms	moissanite	sc	scorodite	ze	zeolites	
ch	chalcedony	go	goethite	mt	magnetite	se	sericite	zr	zircon	
cd	cordierite	gr	graphitic	mu	muscovite					
Pseudomorphs		Sedimentary Bedding		Sedimentary Grain size				Igneous/Metamorphic Grain Size		
gt→ve	gt replaced by ve	lam	laminated (<1cm)	svfg	very fine grained <64 um (mud, silt & clay)					
gt→am	gt replaced by am	tnb	thin (1-10cm)	sfg	fine grained 64 um to 0.25 mm (fine sand)				ifg	fine, <1mm
fp→tu	fp replaced by tu	mdb	medium (10-30cm)	smg	medium grained 0.25 to 0.5mm (medium sand)				img	medium, 1-5mm
fp→se	fp replaced by se	tkb	thick (>30cm)	scg	coarse grained 0.5 to 2 mm (coarse sand)				icg	coarse, 5-30mm
fp→po	fp replaced by po	vtkb	very thick (>1m)	svcg	very coarse grain >2mm (2 - 4mm granules, 4 - 16mm pebbles, 16-256 mm cobbles, >256 mm)				ipg	pegamatic, >30mm
vo→mt	vo replaced by mt									
Textures								Sample Recovery		
aci	acicular	gph	graphic	pbl	porphyroblastic	spt	spotted	e	excessive	
amg	amygdaloidal	grn	granular	pcl	porphyroclastic	sqp	qz prisms in sd	g	good	
anh	anhedral	gtp	(ex)garnet pbl	ppy	porphyritic	stwk	stockwork	m	moderate	
bdn	boudins	lam	laminated	psm	prismatic	sub	subhedral	p	poor	
bnd	banded	mas	massive	rcz	recrystallised	tab	tabular	n	none	
bxw	boxwork	mot	mottled	ruc	rip-up clasts	tad	am±po tailed spots			
col	cauliflower texture	mta	acicular magnetite	sch	schistose	tuf	tuffaceous	Moisture		
den	dendritic	mtg	granular magnetite	scl	cleaved	ves	vesicular	S	Sloppy	
dis	disseminated	mzn	mineral zoning	shz	shear/shearzone	vet	tabular ve	M	Moist	
ehf	ehedral	oph	ophitic	spk	speckled	wrg	wrigglite	D	Dry	
fol	foliated	orb	orbicules	s+p	salt+pepper; mt-sd					
Colours		Structures		Weathering						
l-	light (eg. lgn)	bkn	broken by drilling	vw	very weathered, BOTH PRIMARY TEXTURE & MINERALOGY DESTROYED; no sulphide, dominant Fe & Al oxides &/or silica (eg. Laterite)					
d-	dark (eg. dgn)	brc	brecciated							
bk	black	flt	fault	mw	moderately weathered, PRIMARY TEXTURE REMAINS but MINERALOGY SECONDARY clays (eg. saprolite)					
bl	blue	frc	fracture zone							
bn	brown	ftz	fault or fault zone	ww	weakly weathered, MAINLY PRIMARY TEXTURE & MINERALOGY; minor clay, partly oxidised sulphide (eg. saprock & fresh rock with iron staining)					
bz	bronze (sulphides)	hbr	healed-breccia							
cm	cream	mcf	microfaults, <1cm	fr	fresh (completely primary texture & mineralogy without significant iron staining on					
gn	green	slk	slickensides							
gy	grey	ssf	small-scale faults, 1-10cm offset		Description Shorthand					
kk	khaki				SOI	"start of interval"				
og	orange	BCA	acute angle: core axis & bedding		EOI					"end of interval"
ov	olive				TCA	"to core axis"				
pk	pink	SCA	acute angle: core axis & foliation		PDW					post-drilling weathering (used during relogging)
pl	purple				RCON	interval has redrilled fragments and/or contamination				
rd	red	FCA	acute angle: core axis & fault		HCl-					HCl non-reactive
wt	white				HCl+	HCl reactive				