

Lithology Coding (Lith1, Lith2)

Code	Description	Add	SubDescription
qz			Quartz
abx			Unkown Breccia
aims			interbedded mafic sediment
ams			Massive Sulphides
amsb			Massive Sulphides - Base Metals
amsp			Massive Sulphides - Mainly Pyrite
avn			Massive Vein
unk			Unknown (Must add comments)
LOSS			Sample Loss

f			Felsic Undifferentiated
g			Granitoides Undifferentiated
h			Metamorphics Undifferentiated
i			Intermediates Undifferentiated
m			Mafic Undifferentiated
s			Sediments Undifferentiated
u			Ultramafics Undifferentiated
z			Schist Undifferentiated

f	FELSICS		
		a	Aplite
		ga	Adamellite
		gn	Gneiss
		c	exhalite chert
		d	dacite
		e	agglomerate
		gg	granite
		gr	granodiorite
		ga	adamellite
		gs	svenite
		gd	diorite
		l	lapilli tuff
		mg	microgranite
		o	autoclastic/hyaloclastic
		peg	pegmatite
		p	porphyry (dyke rock)
		r	rhyolite
		s	felsic sediment
		t	tuff
		v	volcaniclastic undifferentiated
		x	volcanic breccia

g	GRANITOIDES		
		d	diorite
		dq	quartz diorite
		g	granite
		i	migmatite
		m	monzonite
		p	pegmatite
		r	granodiorite
		s	syenite
		t	tonalite

h	METAMORPHICS		
		my	mylonite
		acs	Calc – silicate altered amphibolite
		ho	hornfels
		asp	Chlorite-tremolite amphibolite

For unlisted codes or unknown lithology types use the code 'unk' and add comments in the comments column

Code	Description	Add	SubDescription
i	INTERMEDIATES		
		a	andesite
		d	dacite
		e	agglomerate
		l	lapilli tuff
		o	autoclastic/hyaloclastic
		p	porphyry
		r	trachyte
		ra	trachyandesite
		t	tuff
		v	volcaniclastic

m	MAFICS		
		a	amphibolite
		b	basalt
		bk	high magnesium basalt
		c	porphyritic basalt "cat rock"
		d	dolerite
		e	agglomerate
		g	gabbro
		l	lamprophyre
		m	high mangesium basalt
		n	norite
		o	autoclastic/hyaloclastic
		p	porphyry
		t	tuff
		v	volcaniclastic undifferentiated

s	SEDIMENTS		
		a	arkose
		b	banded iron formation
		c	conglomerate
		ct	banded chert
		cy	clay
		d	dolomite
		e	epiclastic sediment
		g	conglomerate
		h	shale
		hc	carbonaceous shale
		hs	black shale
		j	jaspilitite
		l	limestone
		m	mudstone
		p	peolite/psammite
		q	quartzite
		sl	siltstone
		ss	siderite
		st	sandstone
		t	siltstone/mudstone
		tc	carbonaceous siltstone/mudstone

u	ULTRAMAFICS		
		ad	amphibolite
		d	dunite
		k	komatiite
		pd	peridotite
		s	serpentinite
		py	pyroxenite
		td	talc-dolomite
		tmg	talc-magnesite

C:\Users\steve\Documents\Steve\Redbank (NT)\ELR94 data\Data For DME\Supplementa

LITHOLOGY Coding (Lith1, Lith2)

For unlisted codes or unknown lithology types

Code	Description	Add	SubDescription
z	SCHISTS		
		zbi	Schist majority Biotite
		zcl	Schist majority Chlorite
		zsc	Schist Sericite Chlorite
		zfs	Schist majority felsic
		zhe	Schist majority Hematite
		zma	Schist mafic
		zmu	Schist Muscovitre
		zpm	Psammitic schist
		zpl	Pelitic schist
		zqf	Quartz-Feldspar-Mica Schist
		zqb	Schist Quartzo-feldspathic (biotite)
		zqm	Quartz - Muscovite schist
		zqr	Schist majority Quartz+Sericate
		zse	Schist majority Serpentine
		zsk	Schist majority Silica
		zsr	Schist majority Sericite
		ztc	Schist majority Talc+Chlorite

a			Alluvium Undifferentiated
c			Colluvium Undifferentiated
d			Duricrust Undifferentiated
e			Soils/Sands Undifferentiated
l			Laterite Undifferentiated
r			Caprock Undifferentiated

use the code 'unk' and add comments in the comments column

Code	Description	Add	SubDescription
a	ALLUVIUM		
		a	transported alluvium
		c	claypan sediments
		g	gravel
		l	transported laterite
		p	transported pisolite gravel
		s	salt lake sediments
		t	clay sediments
		w	sheetwash
c	COLLUVIUM		
		g	gibber plain (deflation)
		l	transported laterite
		t	talus
d	DURICRUST		
		c	calcrete
		f	ferricrete
		g	manganese wad
		m	magnesite (magcrete)
		s	silcrete (billy)
		w	indurated soil (ie Wiluna hard pan)
e	SOILS/SANDS		
		d	dune sediments
		s	sheet like sediments
		c	calcareous (concretions etc)
		f	ferruginous
		l	lateritic
		p	pisolitic
		r	residual
		t	transported
l	LATERITE		
		c	clay zone (undifferentiated)
		f	ferruginous zone
		l	leached (pallid) zone
		p	pisolitic cap
		m	mottled zone
		n	nodular cap
		r	saprock zone (<20% clay)
		s	saprolite zone (20-80% clay)
		v	massive/vuggy ferruginous cap
		lw	secondary watertab standstill Festn
r	CAPROCK		
		f	undifferentiated ironstone
		g	gossan
		j	jasperoidal
		l	lateritic
		s	silica

All Other Coding

FM_COLOUR

Code	Description
bk	Black
bn	Brown
bu	Blue
cr	Cream
gn	Green
gy	Grey
kh	Khaki
or	Orange
pu	Purple
rd	Red
tn	Tan
wh	White
ye	Yellow

(added as prefix to colour)

Code	Description
l	Light
d	Dark
m	Medium
p	Pale

FM_WEATHERING

Code	Description
f	Fresh
m	Moderately Weathered
ms	Moderate to Strong Weathering
s	Strongly Weathered
w	Weakly Weathered
wm	Weak to Moderate Weathering

FM_OXIDATION

Code	Description
BOCO	Base Of Complete Oxidation
lox	Intensely oxidised
mox	Moderately oxidised
nox	Not oxidised
REDOX	Reduction - Oxidation front
sox	Strongly oxidised
wmx	Weakly to moderately oxidised
wox	Weakly oxidised

FM_GRAINSIZE

Code	Description
c	Coarse
cm	Coarse to Medium
f	Fine
m	Medium
mf	Medium to Fine
vc	Very Course
vf	Very Fine
cl	Clay
si	Silt
gr	Granular
pe	Pebble
co	Cobble
bo	Boulder

FM_EVENTS

Code	Description
BG	Broken Ground
BOA	Base Of Alluvial
BOCO	Base Of Complete Oxidation
BOP	Base of Partial Oxidation
CL	Core Loss
NS	No Sample Return
TOFR	Top Of Fresh Rock
WT	Water Table

FM_REGOLITH

Code	Description
so	Soil
df	Ferruginous duricrust
ds	Silcrete
dc	Calcrete
s	Saprolite undifferentated
su	Upper saprolite
sm	Mottled Zone
sp	Pallid Zone
sl	Lower Saporolite
sr	Saprock
br	Bed Rock

FM_TEXTURE

Code	Description
ad	Amygdaloidal
ah	Aphanitic
an	Anastomosing
at	Adcumulate
bb	Blebs
bd	Bedded, >1cm scale
bg	Bedded - graded beds
br	Brecciated
bx	Boxwork
cc	Concretionary
cm	Chilled Margin
cu	Cumulate
cx	Crystalline
ds	Disseminated
en	Encrustations / Coatings
fb	Flow Banded
ff	Felted
fh	Fault Breccia
ft	Flow Top Breccia
gr	Granular
gs	Gossanous
id	Interbedded
im	Imbricated
lm	Bedded - laminae, <1cm scale
mo	Mesocumulate
nd	Nodules/Nodular
om	Orthocumulate
op	Ophitic
pb	Porphyroblastic
pd	Pillowed
pk	Poikilitic
pp	Porphyritic
sn	Spinifex Random
tf	Tuffaceous
tw	Tuff welded
tx	Tuff crystal
vd	Cavity fillings
vg	Vuggy
xb	Cross Bedded
mx	Massive

FM_STRUCTURE

Code	Description
ag	Augen Structured
ba	Banded
bn	Mineral Banding
br	Brecciated
bu	Boudinage
cl	Cleaved
cn	Contact
cr	Crenulated
df	Drag Folded
fc	Fractured
fd	Folded
fi	Fissile
fl	Foliated
fm	Foliated - moderate
fs	Foliated - strong
ft	Faulted
fw	Foliated - weak
jt	Jointed
la	Laminated
le	Lineated
ml	Mullions
mx	Massive
my	Mylonitic
pe	Ptygmatic
ru	Rip-Up Clasts
sc	Schistose
sd	Slickensided
sz	Shearzone
vn	vein

FM_VEIN_STYLE

Code	Description
ba	Banded
bt	Botryoidal
bu	Bucky
bx	Brecciated
cc	Coarse - Cryst
ck	Crackle
cm	Comb
co	Colloform
cv	Concordant Veining
dv	Discordant Veining
en	En-echelon
fi	Fibre
hb	Hyaloclastic Breccia
la	Laminated
ma	Massive
re	Replacement
ri	Ribbon
se	Sheeted Veining
sh	Sheared
si	Sigmoidal
sp	Sparry
sr	Stringers
sv	Spider Veinlet
sw	Stockwork
sx	Saccaroidal
sy	Stylolite
vc	Vein on Lith Contact
vl	Veinlet
vu	vuggy
zo	Zoned

FM_MINERALS

Code	Description
as	Arsenopyrite
au	Gold
ax	Amphibole
az	Azurite
ba	Barite
bi	Biotite
bo	Bornite
cb	Carbonate
cc	Chalcocite
ce	Celadonite
ch	Chlorite
ck	Chrysocolla

FM_MINERALS

Code	Description
ca	Calcite
cp	Chalcopyrite
cr	Chromite
cs	Cassiterite
cu	Copper (Native)
cv	Covellite
do	Dolomite
ep	Epidote
fd	Feldspar
gn	Galena
go	Goethite
gy	Gypsum
he	Haematite
ja	Jarosite
ka	Kaolin
li	Limonite
m1	Malachite
mn	Manganese
mo	Molybdenum
mr	Marcasite
mt	Magnetite
mu	Muscovite
pn	Pentlandite
po	Pyrrhotite
py	Pyrite
qz	Quartz
qzcb	Quartz Carbonate
sb	Stibnite
sd	Siderite
sr	Sericite
sh	Scheelite
sp	Sphalerite
su	Sulphides
ta	Talc
tl	Tellurides
to	Tourmaline
vi	Vitronite
wo	Wolframite

FM_ALT_INTENSITY (Alteration intensity)

Code	Description
w	Weak
m	Moderate
s	Strong
i	Intense

FM_ALTERATION

Code	Description
aa	Andalusite
ab	Albite
ac	Actinolite
ak	Ankerite
al	Almandine
ao	Asbestos
ap	Anthophyllite
as	Arsenopyrite
au	Gold
ax	Amphiboles General
az	Azurite
ba	Barite
bi	Biotite
bo	Bornite
ca	Calcite
cb	Carbonates (General)
cc	Chalcocite
ce	Celadonite
cl	Chlorite
cly	Clay
co	Cordierite
cp	Chalcopyrite
cr	Chromite
ct	Cassiterite
cx	Clinopyroxene (General)
do	Dolomite
ep	Epidote
fd	Feldspars (General)
fe	Iron Stain
fl	Fluorite
fu	Fuchsite
ga	Garnet
gn	Galena
go	Goethite
gr	Graphite
gy	Gypsum
ha	Halite

Code	Description
hb	Hornblende
he	Haematite
il	Illite
im	Ilmenite
ja	Jarosite
ka	Kaolin
kf	K-Felspar (Orthoclase)
km	K Felspar (Microcline)
ks	Potassic (K-spar, Biotite)
le	Leucoxene
li	Limonite
ma	Magnesite
ml	Malachite
mt	Magnetite
mh	Maghemite
mi	Micas (General)
mn	Manganese
mo	Molybdenum
mr	Marcasite
mu	Muscovite
ol	Olivine
or	Orthopyroxene (General)
pf	Plagioclase
ph	Phlogopite
pn	Pentlandite
po	Pyrrhotite
pp	Pyrophyllite
pr	Pyroxene General
py	Pyrite
qx	Quartz Crystals
qz	Quartz (garden variety)
ru	Rutile
sb	Stibnite
sd	Siderite
se	Serpentine
sr	Sericite
sh	Scheelite
sk	Silica
sp	Sphalerite
su	Sulphides (General)
ta	Talc
tl	Tellurides (General)
to	Tourmalline
tr	Tremolite
vi	Vitrite
wo	Wolframite
ze	Zeolites

SAMPLE CODES

FM_SAMPLE_CATEGORY

Code	Description
COMP	Composite
DUP	Field Duplicate
STD	Standard
IRREG	Irregular Sample Interval
1m	1m Sample
RESPL	Resplit Field Sample
BNK	Blank

FM_SAMPLE_TYPE

Code	Description
CH	Drill Cuttings
HC	Half Core
QC	Quarter Core
RC	Rock Chip
SO	Soil
SS	Stream Sediment
WC	Whole Core

FM_SAMPLE_METHOD

Code	Description
RIFFLE	Riffle Split
SCOOP	Scoop sample
SPEAR	Spear sample
GRAB	Grab Sample
CUT	Cut core
CYCL	Rig Cyclone Split

FM_SAMPLE_CONDITION

Code	Description
WET	Wet sample returned
DAMP	Damp sample returned
DRY	Dry sample returned
SAT	Saturated sample returned

OTHER CODES

FM_SURVEYTYPE

Code	Description
DGPS	Differential GPS
GPS	GPS
PEG	Measured from grid peg
SURV	Surveyed by surveyor

FM_GRID

Code	Description
LOC	Local
MGA94z50	MGA94 Zone 50
MGA94z51	MGA94 Zone 51
MGA94z52	MGA94 Zone 52
MGA94z53	MGA94 Zone 53

FM_DRILL_TYPE

Code	Description
AC	Aircore
DD	Diamond
RB	Rotary air blast
RC	Reverse Circulation
RCD	RC with Diamond Tail
VA	Vacuum