



RELICT REGIME

R1	Laticite pisolite and nodules with sand
R2	Iron-rich laticite outcrop
R3	Siltstone and silty sandstone
R4	Sands overlying presumed or known laticite material

EROSIONAL REGIME

E1	Exposed mottled zone and saprolite
E2g	Granitoid and granitoid gneiss saprock, bedrock, and ferruginous bedrock
E2ve	Volcano-sedimentary greenstone saprock, bedrock, and ferruginous bedrock
E3	Residual sands and sandy clays developed over eroding mottled zone, saprolite, and bedrock
E4g	Lag of laticite detritus and/or boulders in a sand-rich matrix associated with actively eroding outcrops; mainly confined to granitoid terranes
E4ve	Lag of locally derived ferruginous and laticite detritus in a sandy clay matrix associated with actively eroding outcrops; mainly confined to greenstone terranes

DEPOSITIONAL REGIME

DOMINANTLY COLLUVIAL

DC1	Medium to coarse detritus, mainly of laticite or ferruginous laticite clasts (most < 25 mm) in colluvium with a sand or sandy clay matrix
DC2	Fine to medium detritus of 2 types: ferruginised laticite clasts (most 4-25 mm) in colluvium with a sandy clay matrix (greenstone terranes); quartz, feldspar and granitoid clasts in sandy colluvium (granitoid terranes)
DC3	Presumably non-laticite ferruginous detritus (most clasts < 10 mm), some magnetic, in a red sandy clay matrix in shallow wash areas; clasts may be absent

DOMINANTLY ALLUVIAL

DA1	Gravelly sands and sandy clays of active alluvial channels with mixtures of laticite, non-laticite and variably altered laticite clasts
DA6	Sand or clay-rich alluvium on or adjacent to broad drainage floors with negligible detritus; calcareous nodules common
DA8	Ogallaline alluvial and siltstone sediments adjacent to plays lakes; usually vegetated
DA7	Saline clays and sandy clays of plays lakes; usually unvegetated
DA8	Extensive and continuous calcareous outcrop in broad drainage floors (valley calcareous)

REFERENCE

CSIRO (1)	CSIRO (2)	ASIO
LT1	R2	M40
LT2	R1	D44
LT3	-	D60
ES1	-	D60
ES2	D6	WR2

SP1	E3	WR1
BR3	Eg-E3ve	gWR12
BR3	Eg-E3ve	vWR12
SS1	E2	-
SS2	-	gWR1
M1-M6hc	E1	vWR2

M3	D4	gSC05
M2	D2	gSC05
M2	D4	SC06

AS1	D1	SA01
AS4	D6	SA02
AS6	D7	SE00
ES1	D6	SL00
ES2	-	D60

CSIRO (1) regolith codes: R.A. Asard et al., 1989
CSIRO (2) regolith codes: M.A. Craig and R.A. Asard, 1989
ASIO regolith codes: G. Pugh et al., 1991

SYMBOLS

Regolith boundary	—
Principal road	—
Minor road	—
Track	—
Railway	—
Townsite	—
Homestead	—
Breakaway	—
Watercourse, ephemeral	—
Mining locality	—

MENZIES

MULLINE

GEOLOGICAL INTERPRETATION

Granitoid rock	—
Granitoid gneiss and strongly sheared granitoid rock; minor amphibolite	—
Volcano-sedimentary greenstone belt	—
Major fault	—

Geological interpretation after W.K. Witt (in prep.) and A.H. Hickman (in prep.)

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SCALE 1:250 000

TRANSVERSE MERCATOR PROJECTION

Grid lines indicate 20 000 metre interval of the Australian Map Grid Zone 51

0 5 10 15 20 25 30 METRES

Compiled by C.J. Kojan 1994

Field observations by: C.J. Kojan (GSWA), and J. Bradley, D. Ellis, B. McGraw, and G. Meiri (Geochem)

The recommended reference for this map is: Kojan, C.J., 1994, Menzies, W.A. (prelim. ed.): Western Australia Geological Survey, 1:250 000 Regolith Materials Series

This map complements Menzies Regolith-landforms map: Churchward, H.M., and Craig, M.A., 1993, Menzies, W.A. (prelim. ed.): Australian Geological Survey Organisation, 1:250 000 Regolith-landforms Series

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