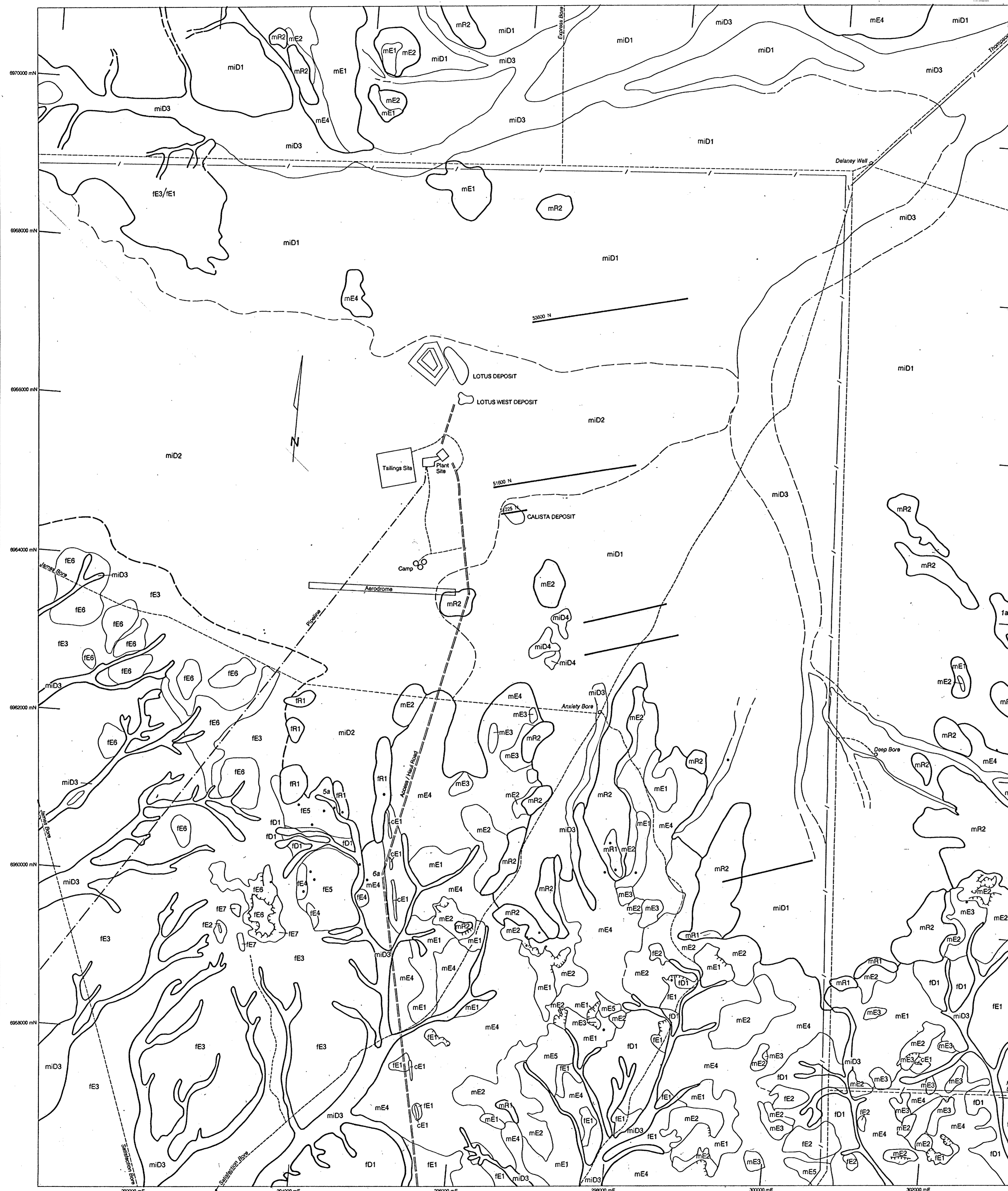




SURFACE DISTRIBUTION OF REGOLITH - LANDFORM UNITS

MT McCLURE



REFERENCE

RESIDUAL REGIME

- mR1** Black, magnetic, hematite-goethite-Maghemite rich, pisolitic and nodular iron rich duricrust, crests.
- mR2** Reddish brown, kaolinite-goethite-hematite rich, loose lateritic pisolites and nodules and nodular duricrust, black slopes.
- fr1** Yellowish brown, kaolinite-goethite-hematite rich loose nodules on nodular duricrust, ridges.

EROSIONAL REGIME

- mE1** Black, massive, non-magnetic, goethite (lesser hematite) rich iron segregations; silicified saprolite, patches of hardpanized saprolite low hills and undulating tracts.
- mE2** Light yellow-brown, non-magnetic, kaolinite-goethite rich ferruginous saprolite, breakaways, pediment slopes and bluffs bounded by breakaway.
- mE3** Black, non-magnetic, hematite rich (lesser goethite) iron segregations, low hills and steep valleys.
- mE4** Quartz and black, hematite rich (lesser goethite) iron segregations, low hills and undulating tracts.
- mE5** Mafic (metamorphosed basalt, amphibolite) outcrop, rounded hills.

REGOLITH DEVELOPED FROM FELSIC BEDROCK

- fe1** Quartz sand on pale white saprolite, erosional plains.
- fe2** Coarse blocky quartz lag surrounding quartz veins, ridges.
- fe3** Quartz lag and micaceous quartz sand on gneiss, gentle slopes.
- fe4** Ferruginous saprolite ridges developed from felsic volcanic rocks.
- fe5** Iron segregations, quartz, silicified saprolite and patches of hardpanized saprolite developed from felsic volcanics, moderately steep slopes.
- fe6** Gneiss saprock, low hills.
- fe7** Gneiss outcrop, low hills.

CHERT

- cE1** Chert ridges and surrounding lag of chert fragments.

DEPOSITIONAL REGIME

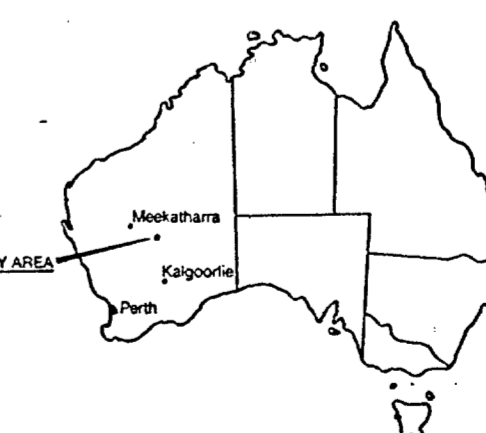
- miD1** Mixed fine lag of quartz, lateritic pisolites and nodules (without cutans), and red clayey sand. Lateritic residuum beneath 20m of hardpanized colluvium and alluvium.
- miD2** Mixed fine gravelly lag of quartz, lateritic pisolites and nodules (without cutans) and red clayey sand. Lateritic residuum is truncated, saprolite clays beneath 20-30m of hardpanized colluvium and alluvium and palaeochannel clays.
- miD3** Lag of iron segregations, quartz, lateritic gravels (with and without cutans) and red clayey sand in minor and major tributaries.
- miD4** Iron segregations, quartz and red clayey sand containing gypsum in local drainage swamps.
- fd1** Iron segregations and quartz on red clayey sand (from upland mafic regions).

SYMBOLS

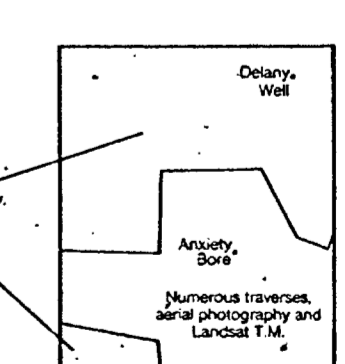
- Mapping unit boundaries
- Inferred mapping unit boundaries
- Transition between residual, erosional and depositional regimes (i.e. contacts between units from different regimes)
- Inferred transitions between residual, erosional and depositional regimes
- Fence line
- Roads and station tracks
- Water pipeline
- Station well
- Breakaway
- Sample and/or photograph locality
- R.A.B. line used for stratigraphic purposes

- mi = mixed lithologies
- m = mafic bedrock
- f = felsic bedrock
- c = chert
- R = residual regime
- E = erosional regime
- D = depositional regime

LOCALITY MAP



RELIABILITY DIAGRAM



SCALE: 1:25000

PLATE ONE
SURFACE DISTRIBUTION OF REGOLITH - LANDFORM UNITS
FOR THE MT McCLURE DISTRICT