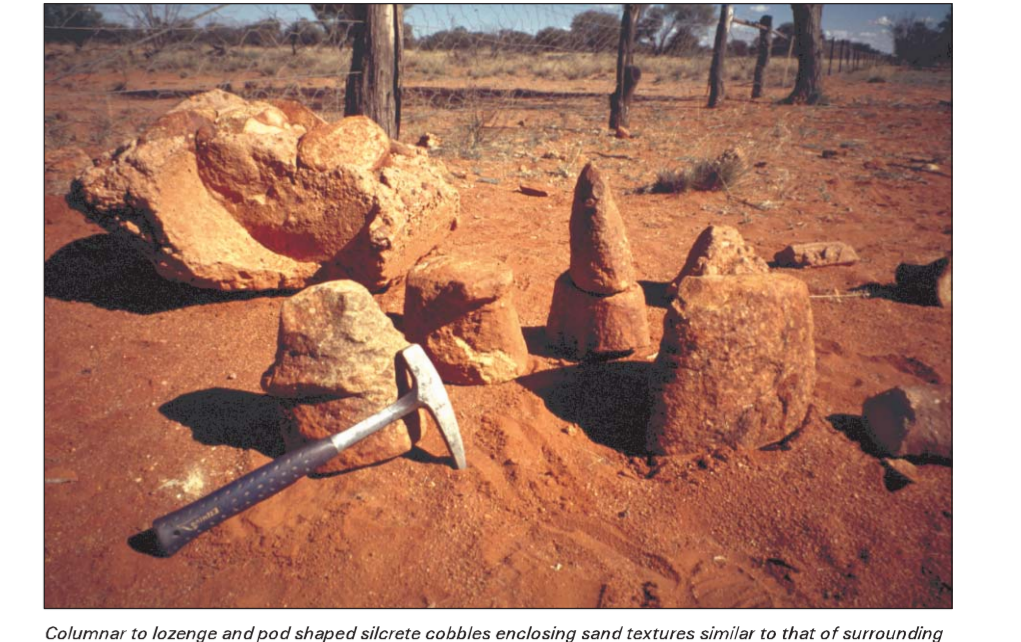
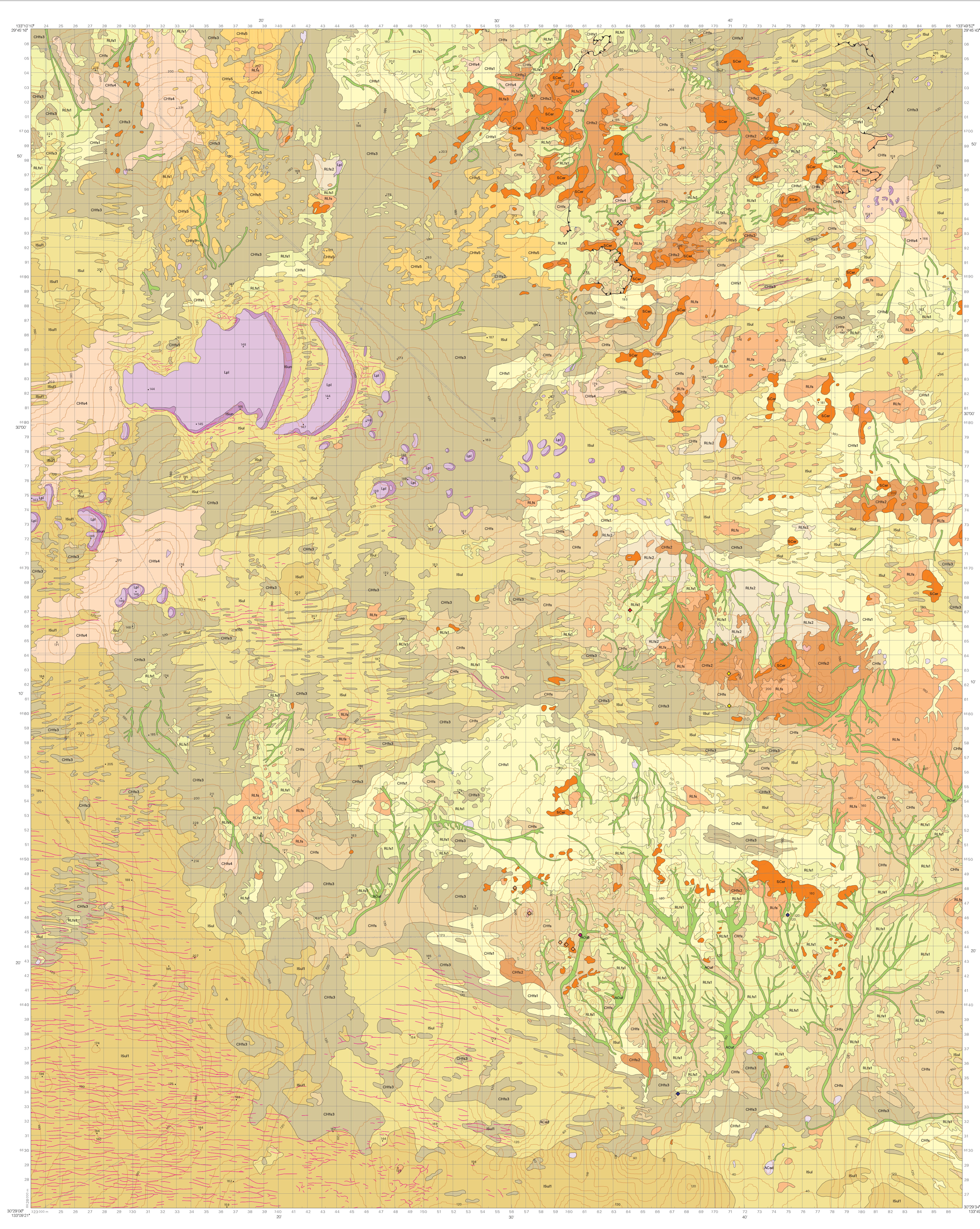


HALF MOON LAKE Regolith - Landforms



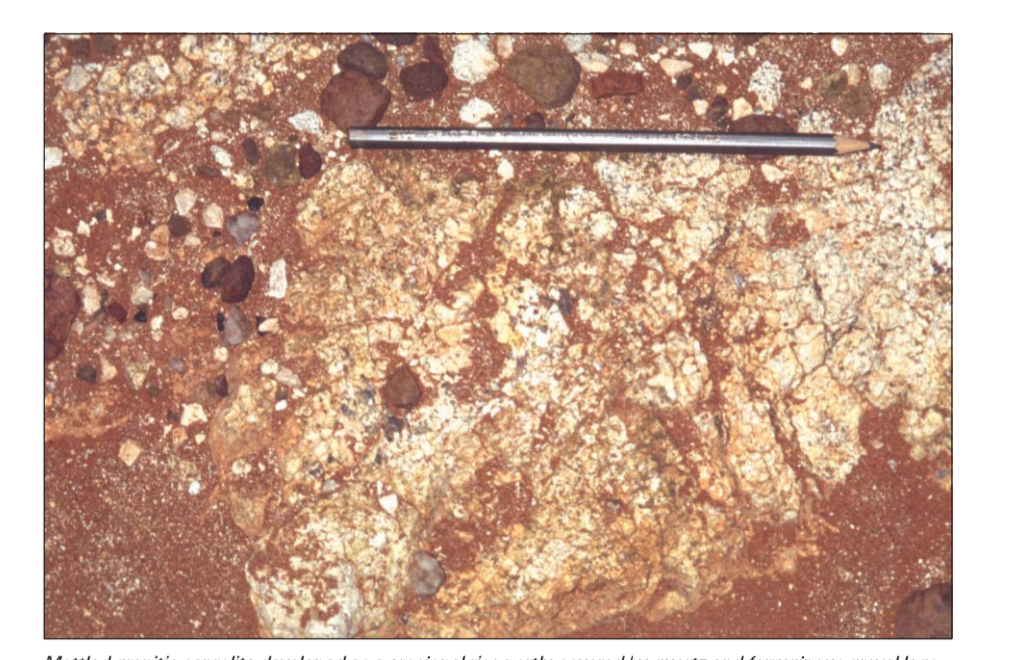
Calciferous clasts and nodules in a regolith sample collected near the shore of Half Moon Lake (33°05'00"S 115°45'00"E).



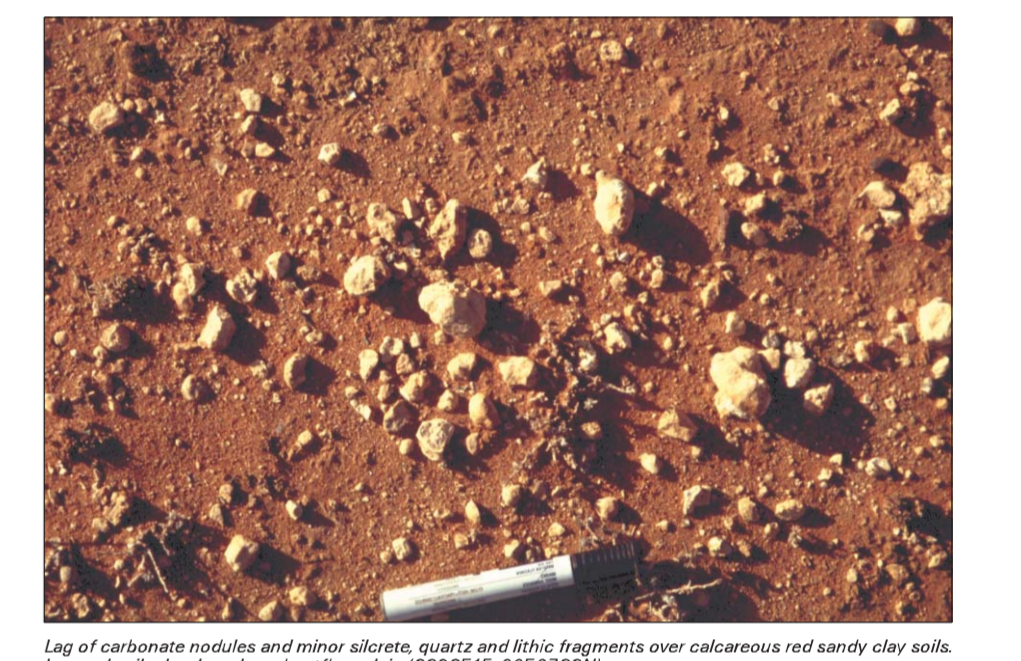
Shallow ash flow tephra deposit (33°05'00"S 115°45'00"E).



Reddish-brown granitic soil with calciferous nodules (33°05'00"S 115°45'00"E).



Soil profile showing a dark, organic-rich top layer and a lighter, sandy lower layer (33°05'00"S 115°45'00"E).



Reddish-brown, sandy soil with calciferous nodules (33°05'00"S 115°45'00"E).



Dune field with a reddish-brown soil (33°05'00"S 115°45'00"E).



Rocky ridge with a reddish-brown soil (33°05'00"S 115°45'00"E).



Reddish-brown soil with calciferous nodules (33°05'00"S 115°45'00"E).

SCALE 1:100 000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
DATUM AUSTRALIAN GEODETIC DATUM - GDA94
LATITUDE OF ORIGIN: 5°; LONGITUDE OF ORIGIN: 115°

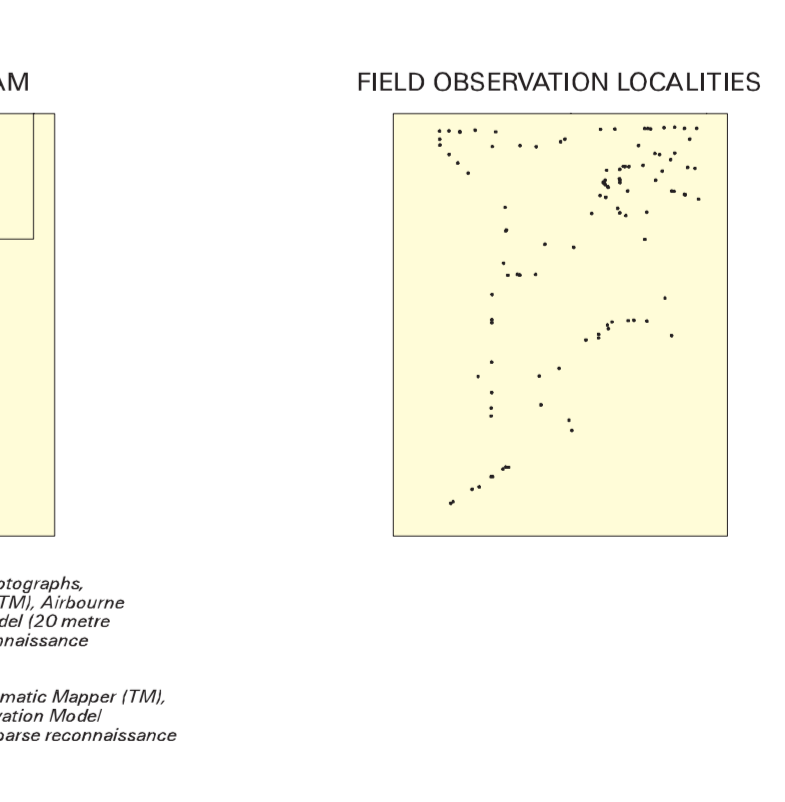
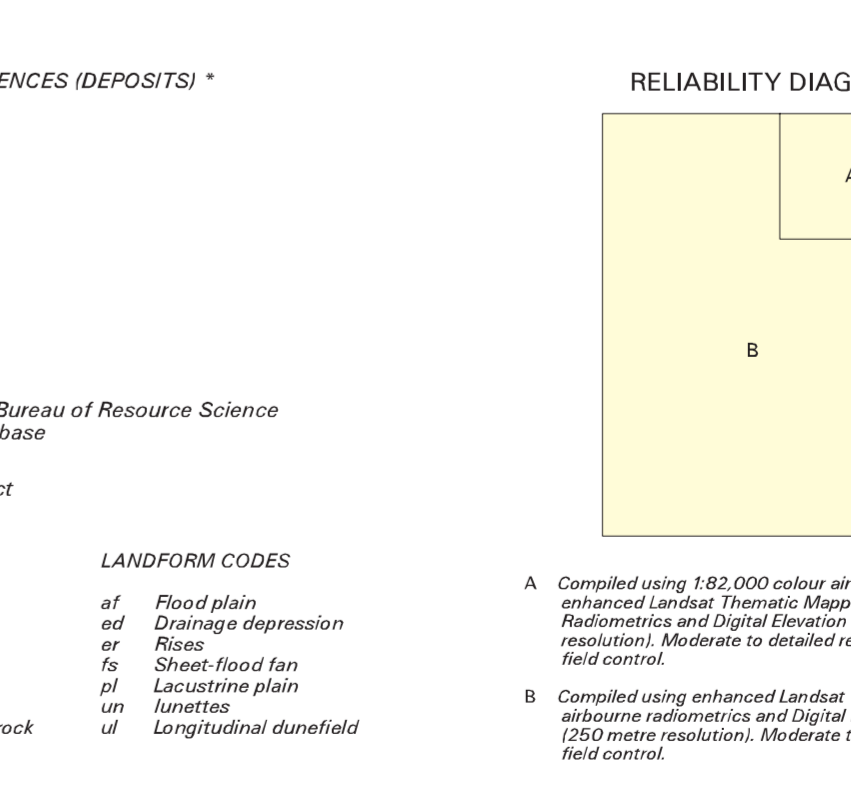
REGOLITH TYPES

- Transported regolith**
- Acad** Alluvial sediments consisting of clay, silt, fine to medium sand and gravel. In some sediments are partly covered by ferruginous calciferous nodules. Sediments are commonly reddish-brown to reddish-orange. Discharge patterns are poorly defined and consist largely of shallow channels.
 - ISu1** Identiferruginous reddish-orange fine grained sandstone quartzitic sandstone and non-sorted calciferous nodules. Contains thin matrix sand and calciferous nodules. Sand grains are well sorted and rounded. Clay and silt are common. Clay content increases with depth.
 - ISu2** Identiferruginous reddish-orange fine grained sandstone quartzitic sandstone and non-sorted calciferous nodules. Contains thin matrix sand and calciferous nodules. Sand grains are well sorted and rounded. Clay and silt are common. Clay content increases with depth.
 - CHa1** Shallow ash flow tephra deposit.
 - CHa2** Shallow ash flow tephra deposit.
 - CHa3** Shallow ash flow tephra deposit.
 - CHa4** Shallow ash flow tephra deposit.
 - CHa5** Shallow ash flow tephra deposit.
 - CHa6** Shallow ash flow tephra deposit.
 - CHa7** Shallow ash flow tephra deposit.
- Local sediments**
- LSu1** Lacustrine sediments consisting of reddish-brown clay, silt and sand forming a lake floor. Flats and gypsum crusts on lake floors.

- Lacustrine sediments**
- LSu1** Lacustrine sediments consisting of reddish-brown clay, silt and sand forming a lake floor. Flats and gypsum crusts on lake floors.
- In-situ regolith**
- Saprolite** Ferruginous (haematite/goethite) clay consisting of haematite goethite, ferruginous granules and minor silt and quartz and ferruginous calciferous nodules. Red sandy clay with numerous ferruginous granules. Occasional calciferous nodules are scattered throughout. Ferruginous granules and calciferous nodules are scattered throughout. Shale nodules may occur.
 - Scu1** Diffuse iron stained and oxidized granitic gneiss. Surface is a mottled reddish-brown to reddish-orange. Drainage depression deposits.
 - Scu2** Highly ferruginous sandstone partially covered by ferruginous clay and silt. Calciferous nodules are common. Ferruginous granules and calciferous nodules are scattered throughout. Shale nodules may occur.
 - Other** Highly ferruginous sandstone partially covered by ferruginous clay and silt. Calciferous nodules are common. Ferruginous granules and calciferous nodules are scattered throughout. Shale nodules may occur.
- Lags**
- RLa1** May be developed on either transported or in-situ substrates. Ferruginous calciferous granules are scattered throughout. Ferruginous calciferous nodules are scattered throughout. Shale nodules may occur.
 - RLa2** Ferruginous calciferous granules are scattered throughout. Ferruginous calciferous nodules are scattered throughout. Shale nodules may occur.
 - RLa3** Ferruginous calciferous granules are scattered throughout. Ferruginous calciferous nodules are scattered throughout. Shale nodules may occur.

- Regolith landform boundary**
- Regolith landform boundary
 - Minor erosion scarp
 - Contour line
 - Sand ridge
 - Vehicle track
 - Fence
 - Landing ground
 - Spot height in metres
 - Water tank
 - Geomorphological station
 - Well
 - Windmill
 - Yard

- MINERAL OCCURRENCES (DPD02/03)**
- ♦ Gold (Au)
 - ♦ Chromium (Cr)
 - ♦ Iron (Fe)
 - ♦ Lead (Pb)
 - ♦ Nickel (Ni)
- REGOLITH CODES**
- AC: Chert deposits
 - AD: Unweathered gneiss
 - AS: Ash flow tephra
 - IS: In-situ sandstone
 - LS: Lacustrine sediments
 - LSL: Completely weathered basalt
 - SL: Highly weathered basalt
- LANDFORM CODES**
- AL: Flood plain
 - AS: Drainage depression
 - ASL: Shallow ash flow
 - IS: Sandstone
 - ISL: Sandstone
 - ISL: Sandstone
 - ISL: Sandstone
 - ISL: Sandstone



UNIVERSAL GRID REFERENCE

WGS 84 DATUM	U.S. NAD 83 DATUM	U.S. NAD 27 DATUM
1 100 000 Meters	1 100 000 Meters	1 100 000 Meters
1 100 000 Meters	1 100 000 Meters	1 100 000 Meters

INDEX TO 1:100 000 MAPS

1:100 000 Meters	1:100 000 Meters
1:100 000 Meters	1:100 000 Meters
1:100 000 Meters	1:100 000 Meters



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We acknowledge Geostar Joint Venture for their contribution in producing this map.

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