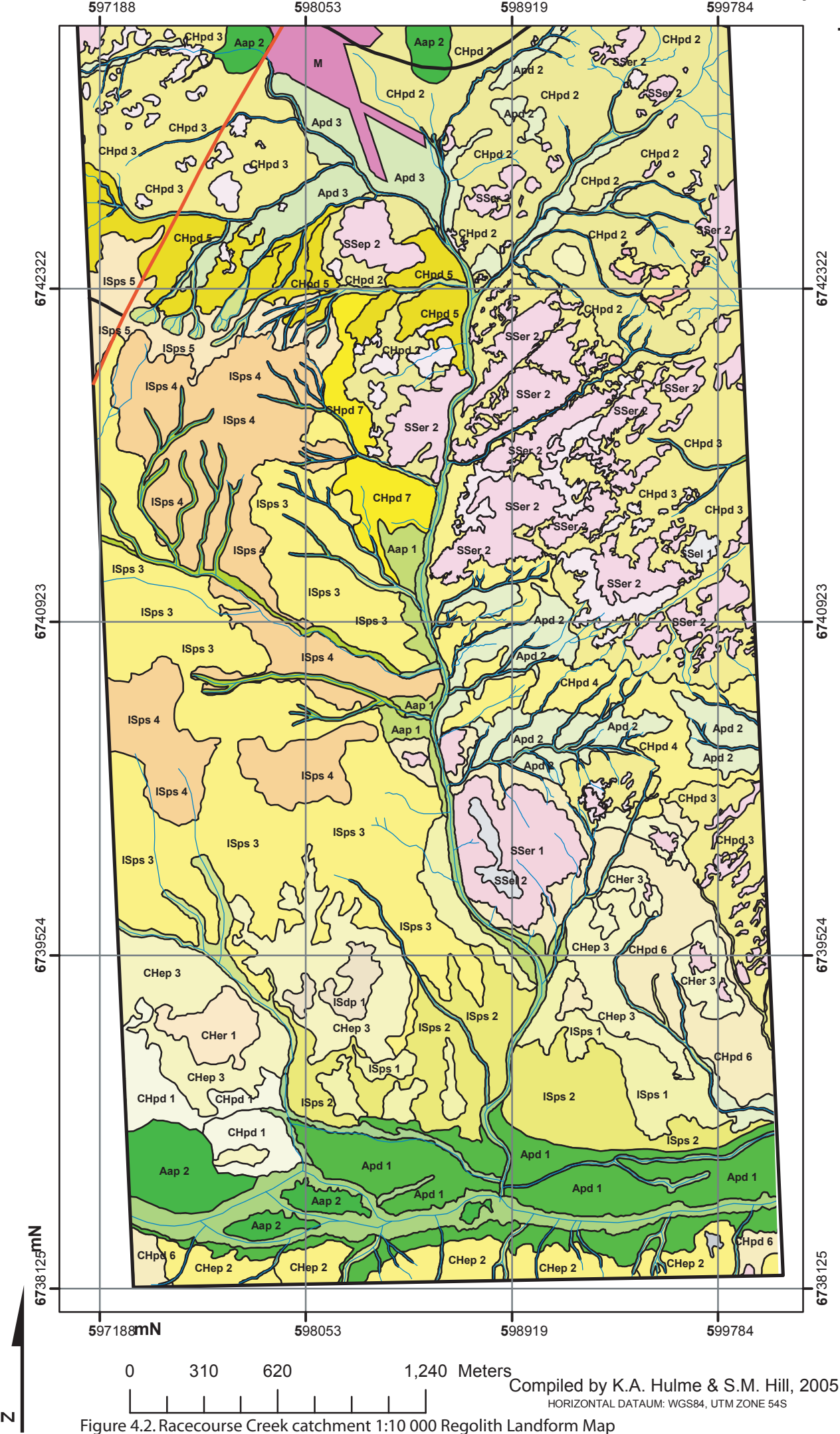


TIBOOBURRA (RACECOURSE CREEK) REGOLITH-LANDFORM MAP (1:10 000)



TRANSPORTED REGOLITH

ALLUVIAL SEDIMENTS

- Aap 1** Red-brown to grey-brown quartzose, slightly micaceous silts and sands. Very minor sub-angular to rounded milky quartz with minor lithic clasts (10-30 mm) and minor fragments of ferruginous regolith, on a very low relief landsurface. Minor-major gullying into Racecourse Creek. Vegetation dominated by chenopod shrubs *Maireana pyramidata*, also stands of *Eucalyptus camaldulensis* with scattered *Acacia victoriae*, *Acacia clivicola* and *Acacia tetragonophylla*.
- Aap 2** Light brown to red-brown quartzose, slightly micaceous silts and sands. Minor sub-angular to rounded milky quartz with minor lithic clasts (10-30 mm) and minor fragments of ferruginous regolith, on a very low relief landsurface. Gullying into Thompson Creek. Vegetation dominated *Acacia victoriae*, with minor chenopod shrubs *Atriplex vesicaria*, *Maireana pyramidata*, also small stands of *Eucalyptus camaldulensis* and scattered *Myoporum montanum*.
- Aed 1** Red-brown quartzose silts and sands, with minor sub-angular to rounded milky quartz with minor lithic clasts (<5 mm), along elongated drainage depressions including narrow incised channel and lower valley margins. Gullying from surrounding Aed units with minor melon-holes. Vegetation dominated by *Eucalyptus camaldulensis* with minor chenopod shrubs *Atriplex vesicaria*, *Maireana pyramidata*, with small stands of *Eucalyptus microtheca* and scattered *Acacia victoriae* and *Acetosa vesicaria*.
- Aed 2** Red-brown quartzose silts and sands, with minor sub-angular to rounded milky quartz with minor lithic clasts (<5 mm) along elongated drainage depressions including narrow incised channels and lower valley margins. Gullying from surrounding Aed units with minor melon-holes. Vegetation dominated by *Acacia victoriae* and *Sida petrophila* with minor chenopod shrubs *Atriplex vesicaria*, *Maireana pyramidata*, and scattered *Cassia artemisiodes*, *Acetosa vesicaria* and *Solanum ellipticum*.
- Aed 3** Red-brown quartzose silts and sands, with minor sub-angular to rounded milky quartz with minor lithic clasts (<5 mm) along elongated drainage depressions including narrow incised channel and lower valley margins. Gullying from surrounding Aed units with minor melon-holes. Vegetation dominated by *Eucalyptus terminalis*, flanked by minor chenopod shrubs *Maireana pyramidata*, *Maireana sedifolia* and scattered *Acacia victoriae*, *Casuarina cristata*, *spp pauper*, *Solanum ellipticum*, *Sida petrophila* and *Acetosa vesicaria*.
- Apd 1** Light brown to red-brown quartzose, slightly micaceous silts and sands, with minor sub-angular to rounded milky quartz and minor lithic clasts (<10 mm) and minor fragments of ferruginous regolith. Minor-major gullying/rilling into Racecourse Creek. Vegetation dominated by chenopod shrubs *Maireana pyramidata*, minor *Eucalyptus microtheca* and juvenile *Eucalyptus camaldulensis* and *Craspedia uniflora*.
- Apd 2** Light brown to red-brown quartzose, slightly micaceous silts and red, rounded quartzose sands, with abundant sub-angular to sub-rounded milky quartz and minor lithic clasts (<10 mm) and minor fragments of ferruginous regolith. Minor gullying into local Aed units. Vegetation dominated by chenopod shrubs *Maireana pyramidata*, and *Atriplex vesicaria*, with minor *Bassia ssp*.
- Apd 3** Light brown to red-brown quartzose, slightly micaceous silts and red, rounded quartzose sands, with minor sub-angular to rounded milky quartz and minor lithic clasts (<10 mm) and minor fragments of ferruginous regolith. Minor gullying into local Aed units and relic gold diggings. Vegetation dominated by chenopod shrubs *Atriplex vesicaria*, *Maireana pyramidata*, and minor *Acacia victoriae* and, *Bassia ssp*.

CHANNEL DEPOSITS

- ACar 1** Major ephemeral meandering channel approximately 40-80 m wide, consisting of a single thread reflecting a surrounding substrate control. Grey-brown to red-brown quartzose, silts and sands, with angular to sub-angular lithic clasts and sub-angular to sub-rounded milky quartz (50-100 mm). Braided channels, with vegetated sand bars approximately 30-90 m long. Vegetation dominated by *Eucalyptus camaldulensis* with minor *Eucalyptus terminalis* and *Eucalyptus microtheca*.
- ACar 2** Minor ephemeral meandering channel approximately 20-50 m wide. Grey-brown to red-brown quartzose, silts and sands, with angular to sub-angular lithic clasts and sub-angular to sub-rounded milky quartz (50-100 mm). Vegetation dominated by *Eucalyptus camaldulensis* with minor *Eucalyptus terminalis* and scattered chenopods shrubs *Maireana pyramidata* and *Maireana sedifolia*.

AEOLIAN SEDIMENTS

AEOLIAN SANDS

- ISps 1** Red, well-rounded quartzose sands, with slightly micaceous silts, with minor sub-angular to rounded milky quartz with minor lithic clasts (<5 mm) and minor fragments of ferruginous regolith, on a low relief landsurface. Minor-major gullying into Racecourse Creek and surrounding Aed units. Vegetation dominated by *Maireana sedifolia*, with minor mulga and *Rhodanthe floribunda*.
- ISps 2** Red, well-rounded quartzose sands, minor angular milky quartz (5-30 mm), on a low relief landsurface. Minor gullying with local bedrock exposure. Vegetation dominated by *Acacia aneura*, *Maireana prymidata*, with minor *Acacia victoriae*.
- ISps 3** Red, well-rounded quartzose sands, with abundant iron-oxide stained sub-angular to rounded milky quartz (5-30 mm), on a low relief landsurface. Minor gullying with local bedrock exposure. Vegetation dominated by sparse *Acacia aneura*, with minor chenopod shrubs *Maireana prymidata*, *Acacia tetragonophylla*, and scattered *Ptilotus. ssp*. and mitchell grasses.
- ISps 4** Red, well-rounded quartzose sands, with abundant iron-oxide stained sub-angular to rounded milky quartz (5-30 mm), on a low relief landsurface. Minor gullying with local bedrock exposure. Vegetation dominated by abundant *Acacia aneura*, with minor chenopod shrubs *Maireana prymidata*, *Acacia tetragonophylla*, and scattered *Ptilotus. ssp*. and mitchell grasses.
- ISps 5** Red, well-rounded quartzose sands, with abundant iron-oxide stained sub-angular to rounded milky quartz (5-30 mm), on a low relief landsurface. Minor gullying with local bedrock exposure. Vegetation dominated by *Eremophila duttonii*, with minor minor *Acacia aneura*, *Bassia. ssp*.
- ISpd 1** Red, well-rounded quartzose sands on a scalded land surface. Minor angular milky quartz (5-50 mm) and minor fragments of ferruginous regolith, on a low relief scalded landsurface. Vegetation dominated by *Maireana sedifolia*, *Acacia clivicola* and *Maireana pyramidata*, with minor *Rhodanthe floribunda*.

COLLUVIAL SEDIMENTS

SHEET FLOW DEPOSITS

- CHer 1** Light brown to red-brown quartzose silts and sands, with minor sub-angular to rounded milky quartz (50-100 mm) with minor lithic clasts (<50 mm) and minor fragments of ferruginous regolith. Scattered rabbit warrens and minor drainage depressions. Vegetation dominated by chenopod shrubs *Maireana pyramidata*, with minor *Atriplex vesicaria*, *Acacia aneura* and *Bassia. ssp*.
- CHer 2** Pale yellow-orange slightly micaceous well sorted quartzose silts and sands, with minor fragments of sandstone and sub-angular to rounded milky quartz (50-100 mm) with minor fragments of ferruginous regolith. Vegetation dominated by chenopod shrubs *Maireana sedifolia*, with minor *Acacia aneura*, *Bassia. ssp*. and *Acetosa vesicaria*.
- CHer 3** Light brown to red-brown quartzose silts and sands, with sub-angular to rounded milky quartz (50-100 mm) with minor lithic clasts (10-150 mm) and minor bedrock exposures. Minor gullying into local depressions. Vegetation dominated by *Bassia. ssp*, with some chenopod shrubs *Maireana sedifolia*, *Maireana pyramidata*, and minor *Acacia victoriae*.
- CHep 1** Light brown to red-brown quartzose silts and sands, with abundant sub-angular to rounded milky quartz with minor lithic clasts and ferruginous gravels (<70 mm). Vegetation dominated by chenopod shrubs *Maireana pyramidata*, and *Atriplex vesicaria*, and minor *Bassia. ssp*.
- CHep 2** Light brown to red-brown quartzose slightly micaceous silts and sands with abundant sub-angular lithic clasts and ferruginous gravels with minor sub-angular to rounded milky quartz (<70 mm). Highly weathered bedrock exposures. Gullying into Thompson Creek and scattered rabbit warrens. Vegetation dominated by chenopod shrubs *Maireana pyramidata*, with minor *Bassia. ssp*. and *Acacia canna*.
- CHep 3** Light brown to red-brown silts and red, very well-rounded quartzose sands, with minor sub-angular rounded milky quartz (10-50 mm) with minor lithic clasts (<10 mm) and minor fragments of ferruginous regolith. Surficial contour banding of lithic gravels are well developed in some sites. Minor drainage depressions and scattered rabbit warrens. Vegetation dominated by chenopod shrubs *Maireana pyramidata*, with minor *Atriplex vesicaria*, *Acacia aneura* and *Bassia. ssp*.

Figure 4.2. Racecourse Creek catchment 1:10 000 Regolith Landform Map

Compiled by K.A. Hulme & S.M. Hill, 2005
HORIZONTAL DATAUM: WGS84, UTM ZONE 54S