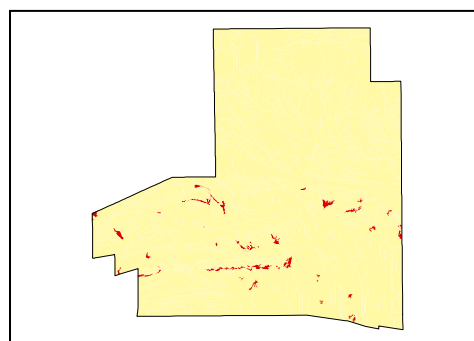


Drainage Features

LAND UNIT 5.12**Scaldy Clay - Sand Drainage Floors**

DESCRIPTION: Scaldy clay - sand drainage floors with Cottonbush over annual and perennial grasses. (NB this land unit varies considerably over the municipality and individual site sheets should be consulted for greater detail).

SITES: 095, 120, Trench 1 to 6.

Distribution of land unit.

Area = 3.27 km², 0.99% of mapped area.

LAND CAPABILITY:

ATTRIBUTES	
SLOPE (%)	1
RELIEF (m)	1
SOIL DEPTH (m)	>2.00
SURFACE CONDITION	Loose. Cryptogram / surface flake in part.
DEPTH TO SUBSTRATE (m)	>2.00
REACTION TREND (pH)	6.5 to 9.5
OUTCROP (%)	-
RUNOFF	Moderately rapid
PERMEABILITY	Very slowly permeable
DRAINAGE	Very poorly drained
SALINITY (µs/cm)	70.0 to 2420

DEVELOPMENT RISKS	
EROSION	Severe
ROCK FALL	None
SHEET FLOODING	Severe
INUNDATION	Severe
SALINITY	High (at depth)
ALKALINITY	Severe
ACIDITY	None

CAPABILITY CLASS					
Formed Roads	Shallow excavations	Septic Disposal	Horticulture	Building Foundations	Landscaping
Poor	Very Good	Fair	Very Poor	Fair	Very Poor

Drainage Features

TECHNICAL DETAILS**LAND UNIT 5.12**

DESCRIPTION: Scaldy clay - sand drainage floors with Cottonbush over annual and perennial grasses.

GEOLOGY: Quaternary, most likely Holocene, sediments would form the major infill material of the drainage depressions that represent this land unit. In some cases there is underlying calcrete that may be saprolite / substrate or wash material from higher relief hills and mountains.

LANDFORM: This land unit generally forms a broad drainage depression that is seasonally inundated. They are roughly fan shaped, can be up to 600m wide and 800m long with a shallow slope of about 2%. The land unit is characterised by a high level of scouring erosion due to sheet flow. These areas are possibly palaeoflood scar areas stripped during past extreme flood events. In most areas, erosion has penetrated to a bleached A2 horizon that forms a semi-impermeable hard pan. The depression / scalded areas are generally barren of vegetation. Other areas have a thin (up to 0.20m) sandy/gravel surface layer that supports vegetation.

SOIL: Example from **Trench 1**.
MGA. Coordinates: 7374018mN, 386509mE.

CLASSIFICATION: Solodic. Sodosol - SO, AA, DP, BD, A, F, L, O, X					
SURFACE: Thin, <10mm surface flake with minor cryptogram crust.					
DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY (µs/cm)	OTHER DETAILS
0.00 - 0.10	A1	Sandy loam (SL)(L)	6.5		Red (2.5YR 4/6). Weak 10-20mm thick, platy peds with rough-ped fabric. 2% 4mm sub angular fine gravelly quartz and 2% 3mm subangular fine gravelly quartz. No effervescence.
0.10 - 0.15	A2j	Sandy loam (SL)	6.5		Light reddish brown (2.5YR 6/4). Apedal, massive with an earthy fabric. 2% 3mm subangular fine gravelly quartz. No effervescence.
0.15 - 0.20	A2j	Sandy loam (SL)(H)	7.0		Light reddish brown (2.5YR 6/4). Apedal, massive with an earthy fabric. 2% 3mm subangular fine gravelly quartz. No effervescence.
0.20 - 0.25	A2j	Sandy clay loam (SCL)	7.0		Red (2.5YR 4/6). Apedal, massive with an earthy fabric. 1% 4mm subangular fine gravelly quartz. No effervescence.
0.25 - 0.50	B21	Light clay (LC)	8.0		Red (2.5YR 4/6). Weak 5-10mm angular blocky peds with rough-ped fabric. 2% 4mm sub angular fine gravelly quartz. No effervescence.
0.50 - 0.70	B21	Light clay (LC)(H)	9.0		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. 2% 4mm subangular fine gravelly quartz. No effervescence.
0.70 - 1.00	B21	Light clay (LC)	9.5		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. 1% 1mm subangular fine gravelly quartz and 2% 4mm subangular No effervescence.
1.00 - 1.40	B21	Light clay (LC)	9.5		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. 2% 4mm subangular fine gravelly quartz. No effervescence.
1.40 - 1.50	B22	Light clay (LC)(L)	9.5		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. 20% 30mm subangular coarse sandstone fragments and 15% 15mm medium gravelly quartz fragments. 5% 5mm soft calcareous segregations and 5% 4mm soft manganiferous segregations. No effervescence.
1.50 - 1.60	B22	Clay loam sandy (SCL)	9.5		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. No effervescence.
1.60 - 1.90	B23	Light clay (LC)	9.5		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. 52% 4mm soft manganiferous segregations and 4% 3mm soft calcareous segregations. No effervescence.
1.90 - 2.00	B23	Light clay (LC)	9.5		Red (2.5YR 4/6). Weak 5-10mm thick, angular blocky peds with rough-ped fabric. 5% 10mm soft calcareous nodules and 10% 10mm soft calcareous tubules. Very highly effervescence.

VEGETATION: Site 095 (corresponds to Photo Site).

UPPER STRATUM - Absent	
Dominant species	
Other species	
MID STRATUM - Usually absent	
Dominant species	
Other species	Needlewood
LOWER STRATUM - Sparse formland	
Dominant species	Goathead Burr, Bunched Kerosene Grass, Cottonbush, Narrow-leaf Neverfail
Other species	Woolly Yellow-heads, Buffel Grass, Bogan Flea, Native Millet, Small Yellow Daisy, <i>Sclerolaena costata</i> , Succulent Copper Burr, Woolly Copper Burr, Mallee Lovegrass, Five-minute Grass, Bindieye.

(See Appendix 3 for botanical names)