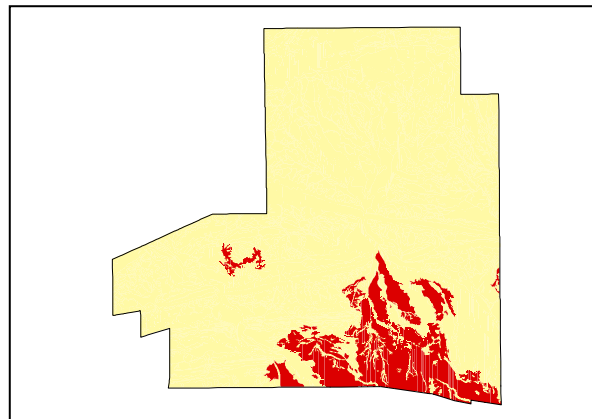


Plains

**LAND UNIT 4.09****Broad Alluvial Plains**

**DESCRIPTION:** Broad alluvial plains with Ironwood and Corkwood trees over Buffel Grass and native grasses.

**SITES:** 072, 106, 129

**Distribution of land unit.**

Area = 36.34 km<sup>2</sup>, 11.05% of mapped area.

**LAND CAPABILITY:**

ATTRIBUTES	
<b>SLOPE (%)</b>	1
<b>RELIEF (m)</b>	1
<b>SOIL DEPTH (m)</b>	>2.0
<b>SURFACE CONDITION</b>	Loose. Cryptogram in part.
<b>DEPTH TO SUBSTRATE (m)</b>	>2.0
<b>REACTION TREND (pH)</b>	6.0 to 9.0
<b>OUTCROP (%)</b>	-
<b>RUNOFF</b>	Slow
<b>PERMEABILITY</b>	Moderately permeable
<b>DRAINAGE</b>	Moderately well drained
<b>SALINITY (µs/cm)</b>	30.7 to 87.4

DEVELOPMENT RISKS	
<b>EROSION</b>	Severe
<b>ROCK FALL</b>	none
<b>SHEET FLOODING</b>	Severe
<b>INUNDATION</b>	High
<b>SALINITY</b>	None
<b>ALKALINITY</b>	High (mid profile)
<b>ACIDITY</b>	None

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

Plains

**TECHNICAL DETAILS****LAND UNIT 4.09**

**DESCRIPTION:** Broad alluvial plains with internal drainage channels with Ironwood and Corkwood trees over Buffel Grass and native grasses.

**GEOLOGY:** Quaternary, most likely Holocene, sands derived from regional Proterozoic and Palaeozoic rocks.

**LANDFORM:** The broad alluvial peneplains are level to very gently undulating with extremely low relief. They have internal, very shallow drainage patterns that form a non-directional integrated tributary pattern. This land unit is eroded by sheet flow, over-bank stream flow and wind. Preferential erosion can occur where the surface layer is disturbed.

**SOIL:** Example from **Site 106**  
MGA Coordinates: 7369275mN, 385139mE.

**CLASSIFICATION:** Alluvial Soil. Kandosol - KA, AB, AH, CD, B, E, K, L, X

**SURFACE:** Loose, incoherent mass of individual particles with occasional loose aggregates that separate when touched. The surface is easily disturbed by pressure of forefinger. Some areas have a cryptogam surface layer and there is evidence of surface flake in slightly depressed areas. About 5% subrounded 20-60mm coarse gravelly quartz fragments are evident.

DEPTH (m)	HORIZON	TEXTURE	pH	SALINITY $\mu\text{s/cm}$	OTHER DETAILS
0.00 - 0.10	A1	Clayey sand (CS)	6.0	50.3	Dark reddish brown (5YR3/4). Apedal, single grain, slightly coherent mass of individual sand particles. Non effervescent.
0.10 - 0.30	B21	Sandy loam (SL)(F)	7.0	56.6	Dark brown (7.5YR3/4). Apedal, single grain, just coherent mass of individual sand particles. Non effervescent.
0.30 - 0.70	B21	Sandy loam (SL)(F)	7.5	30.7	Dark brown (7.5YR3/4). 1% 2-6mm fine gravelly angular quartz fragments. A pedal, single grained and incoherent. Non effervescent.
0.70 - 1.00	B22	Loamy sand (LS)(K)	9.0	87.4	Reddish brown (5YR4/4). 2% 2-6mm fine gravelly angular quartz fragments. A pedal, single grained and incoherent. Non effervescent.
1.00 - 1.30	D1	Sand (S)(K)	8.5	88.0	Brown (7.5YR4/4). 5% 2-6mm fine gravelly angular quartz fragments and 1% 6-20mm angular quartz fragments. A pedal, single grained and incoherent. Non effervescent.
1.30 - 1.50	D1	Sand (S)(K)	8.5	83.4	Brown (7.5YR4/4). 5% 2-6mm fine gravelly angular quartz fragments and 1% 6-20mm angular quartz fragments. A pedal, single grained and incoherent. Non effervescent.
1.50 - 2.00	D1	Sand (S)(K)	8.5	84.7	Brown (7.5YR4/4). 5% 2-6mm fine gravelly angular quartz fragments and 1% 6-20mm angular quartz fragments. A pedal, single grained and incoherent. Non effervescent.

**VEGETATION:** **Site 84** (Albrecht, D. & Pitts, B. 1999).

<b>UPPER STRATUM - Isolated trees</b>	
Dominant species	
Other species	Ironwood, Fork-leaved Corkwood
<b>MID STRATUM - Isolated shrubs</b>	
Dominant species	Ironwood
Other species	Colony Wattle, Mulga, Witchetty Bush, Acacia Bush, Fork-leaved Corkwood
<b>LOWER STRATUM - Sparse grassland</b>	
Dominant species	Buffel Grass, Tall Copper Burr,
Other species	Tar Vine & Yipa, Bogan Flea, Woollyoat Grass, Eight Day Grass, Mueller's Peppergrass, Buck Bush, Bindieye, Five-minute Grass, <i>Chenopodium truncatum</i> , Oatgrass, Caustic Weed (A), <i>Maireana scleroptera</i> , Munyeroo, White Paper Daisy, Cattle Bush, Purple Plumegrass, Bunched Kerosene Grass, Wire-leaf Mistletoe, Annual Saltbush, Small Yellow Button, Sticky Hopbush, Crimson Foxtail.

(See appendix 3 for botanical names)