

## 5. APPENDICES

### APPENDIX 1 - LAND COMPONENT DESCRIPTIONS AND CAPABILITIES

#### COMPONENT NUMBER: 1

**Terrain:** This component is a drainage line with a permanently flowing creek. It is on a gently sloping plain, in the south of the study area.

**Soils:** These are principally alluvial loams, but this varies. Northcote classifications are Dg 2, Dy 3, Um 6 and Um 1.

**Present Land Use:** Unused, native timbered area.

**Constraints:** The area floods nearly every year, which is a major constraint on every land use considered.

Capability for Urban Use: 5	
Most limiting Factors:	Flood hazard
Other Limitations:	Site drainage and B horizon shrink-swell
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage and depth to winter water table
Capability for Stump or Strip footing Foundations: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	B horizon shrink-swell and site drainage
Capability for Concrete Slab Foundations: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage, B horizon shrink-swell and slope.
Capability for Access Roads and Parking Lots: 5	
Most Limiting Factors:	Flood hazard and depth to winter water table
Other Limitations:	B horizon shrink-swell and site drainage
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Flood hazard and depth to winter water table
Other Limitations:	Site drainage and soil profile permeability
Capability for Grazing: 3	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Depth to winter water table
Capability for Playing Fields: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Intensive Use Areas: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Paths and Tracks: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage

**COMPONENT NUMBER: 2**

**Terrain:** This large component denotes very gently undulating hills found in the north, centre and south eastern corner of the study area.

**Soils:** These soils are derived from volcanic rock. The Northcote Classification is Dy 3.41.

**Present Land Use:** Grazing, orchards and housing.

**Constraints:**

Capability for Urban Use: 2 Limiting Factors:	B horizon shrink-swell, Unified Soil Group and Emerson dispersion and slaking class
Capability for Intensive Cropping: 3 Most Limiting Factors: Other Limitations:	Depth of friable soil Percentage of gravel, depth to rock, B horizon Emerson slaking and dispersion class, surface infiltration, dry consistence and A horizon pH and % organic matter.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon shrink-swell and Unified Soil Group and Emerson dispersion and slaking class
Capability for Concrete Slab Foundations: 2 Limiting Factors:	Slope, B horizon Unified Soil Group, Emerson slaking and dispersion class and shrink-swell.
Capability for Access Roads and Parking Lots: 2 Limiting Factors:	Slope, B horizon Emerson dispersion and slaking class and shrink-swell.
Capability for On-Site Effluent Disposal: 3 Limiting Factors:	Depth to rock and soil profile permeability
Capability for Grazing: 1	
Capability for Playing Fields: 2 Limiting Factors:	Slope and depth to rock
Capability for Intensive Use Areas: 2 Limiting Factors:	Depth to rock and slope
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture, B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 3**

**Terrain:** This component covers two gently sloping hill slopes in the north eastern corner of the study area.

**Soils:** Yellow duplex soil, of volcanic origin. Northcote Classification is Dy 3.41.

**Present Land Use:** Mainly urbanized but still with any tress.

**Constraints:**

Capability for Urban Use: 5 Limiting Factors:	B horizon shrink-swell, Unified Soil Group and Emerson dispersion and slaking class
Capability for Intensive Cropping: 2 Limiting Factors:	Depth to rock, B horizon Emerson dispersion and slaking class and shrink-swell, A horizon pH and % organic matter, surface infiltration and dry consistence.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified Soil Group and shrink-swell and Emerson dispersion and slaking class
Capability for Concrete Slab Foundations: 2 Limiting Factors:	Slope, B horizon Unified Soil Group and shrink-swell
Capability for Access Roads and Parking Lots: 2 Limiting Factors:	Slope, B horizon Emerson dispersion and slaking class and shrink-swell
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors: Other Limitations:	Depth to rock and soil profile permeability Slope and b horizon slaking dispersion class.
Capability for Grazing: 1	
Capability for Playing Fields: 2 Limiting Factors:	Slope and depth to rock
Capability for Intensive Use Areas: 2 Limiting Factors:	Slope and depth to rock
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon Emerson dispersion and slaking class.

**COMPONENT NUMBER: 4**

**Terrain:** This component covers moderately steep hill slopes in the north eastern corner and centre of the area.

**Soils:** These are yellow duplex soils with Northcote Classification of Dy 3.41.

**Present Land Use:** Grazing and native timbered area.

**Constraints:** Slope is generally the main constraint in this area.

Capability for Urban Use: 2 Limiting Factors:	B horizon shrink-swell, Emerson dispersion and slaking class and Unified Soil Group, slope and slumping of batters
Capability for Intensive Cropping: 3 Most Limiting Factors:  Other Limitations:	Depth of friable soils and availability of dam sites Slope, depth to rock, B horizon Emerson slaking and dispersion class and shrink-swell, A horizon pH and % organic matter, surface infiltration and dry consistence.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified Soil Group and shrink-swell, Emerson dispersion and slaking class and shrink-swell, slumping of batters, depth to rock and slope
Capability for Concrete Slab Foundations: 3 Most Limiting Factors: Other Limitations:	Slope B horizon Unified Soil Group Emerson dispersion and slaking class and shrink-swell depth to rock and slumping of batters
Capability for Access Roads and Parking Lots: 3 Most Limiting Factors:  Other Limitations:	Slope and B horizon Emerson shrink-swell and depth to rock B horizon Emerson dispersion and slaking class and slumping of batters
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors:  Other Limitations:	Depth to rock, slope and soil profile permeability B horizon Emerson dispersion and slaking class
Capability for Grazing: 2 Limiting Factors:	Slope
Capability for Playing Fields: 4 Most Limiting Factors: Other Limitations	Slope and depth to rock None
Capability for Intensive Use Areas: 3 Most Limiting Factors: Other Limitations:	Slope and depth to rock None
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon Emerson dispersion and slaking class.

**COMPONENT NUMBER: 5**

**Terrain:** This component is an almost flat hill crest found in the south west of the area.

**Soils:** these are yellow duplex soils of volcanic origin. Northcote Classification is Dy 3.41.

**Present Land Use:** Golf course

**Constraints:**

Capability for Urban Use: 2 Limiting Factors:	B horizon shrink-swell, Unified Soil group and Emerson dispersion and slaking class.
Capability for Intensive Cropping: 3 Most Limiting Factors: Other Limitations:	Depth of friable soils Depth to rock, B horizon Emerson dispersion and slaking class and shrink-swell, A horizon pH and % organic matter, surface infiltration and dry consistence.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified Soil Group, Shrink-swell and Emerson dispersion and slaking class.
Capability for Concrete Slab Foundations: 2 Limiting Factors:	B horizon Unified Soil Group, Emerson dispersion and slaking class and shrink-swell
Capability for Access Roads and Parking Lots: 1	
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors: Other Limitations:	Depth to rock soil profile permeability B horizon Emerson dispersion and slaking class
Capability for Grazing: 1	
Capability for Playing Fields: 1	
Capability for Intensive Use Areas: 1	
Capability for Paths and Tracks: 1	

**COMPONENT NUMBER: 6**

**Terrain:** This large component covers some for the moderately steep hill slopes in the centre and north of the area.

**Soils:** These are yellow duple soils of volcanic origin. The Northcote classification is Dy 3.41.

**Present Land Use:** Timbered, grazing and recreational (golf course)

**Constraints:** Slope is the major constraint for the minor land uses in this area.

Capability for Urban Use: 2 Limiting Factors:	B horizon shrink-swell, Unified Soil Group and Emerson dispersion and slaking class, slope and slumping of batters
Capability for Intensive Cropping: 3 Most Limiting Factors:  Other Limitations:	Availability of dam sites and depth of friable soil Slope, B horizon Emerson dispersion and slaking class, and shrink-swell, depth to rock, A horizon pH and % organic matter, surface infiltration and dry consistence.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified Soil Group, shrink-swell and Emerson dispersion and slaking class, slope and slumping of batters
Capability for Concrete Slab Foundations: 3 Most Limiting Factors: Other Limitations:	Slope B horizon Unified Soil Group dispersion and slaking class and shrink-swell and slumping of batters.
Capability for Access Roads and Parking Lots: 3 Most Limiting Factors: Other Limitations:	Slope and B horizon shrink-swell Slumping of batters and B horizon Emerson slaking and dispersion class
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors:  Other Limitations:	Slope, depth to rock and soil profile permeability B horizon Emerson dispersion and slaking class
Capability for Grazing: 2 Limiting Factors:	Slope and availability of dam sites
Capability for Playing Fields: 4 Most Limiting Factors: Other Limitations	Slope Depth to rock
Capability for Intensive Use Areas: 3 Most Limiting Factors: Other Limitations:	Slope and depth to rock None
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon Emerson dispersion and slaking class.

**COMPONENT NUMBER: 7**

**Terrain:** This component includes gently sloping hillslopes in the centre of the area.

**Soils:** These are yellow duplex soils derived from volcanic rock. The Northcote Classification is Dy 3.41

**Present Land Use:** Timbered and grazing.

**Constraints:** The depth of bedrock is a major constrain in this area.

Capability for Urban Use: 2 Limiting Factors:	B horizon shrink-swell, Unified Soil Group and Emerson slaking and dispersion class.
Capability for Intensive Cropping: 3 Most Limiting Factors: Other Limitations:	Depth of friable soil Depth to rock, B horizon slaking and dispersion class and shrink-swell, % gravel, A horizon pH and % organic matter, surface infiltration and dry consistence.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified Soil Group, shrink-swell and Emerson dispersion and slaking class and depth to rock
Capability for Concrete Slab Foundations: 2 Limiting Factors:	Slope, B horizon Unified Soil Group, Emerson dispersion and slaking class and shrink-swell and depth to rock
Capability for Access Roads and Parking Lots: 2 Limiting Factors:	B horizon Emerson slaking and dispersion class and shrink-swell and depth to rock.
Capability for On-Site Effluent Disposal: 4 Most Limiting Factors: Other Limitations:	Depth to rock Soil profile permeability
Capability for Grazing: 1	
Capability for Playing Fields: 3 Most Limiting Factors: Other Limitations	Depth to rock and slope None
Capability for Intensive Use Areas: 3 Limiting Factors:	Depth to rock and slope
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon Emerson dispersion and slaking class.

**COMPONENT NUMBER: 8**

**Terrain:** This component covers the slightly steeper areas of the large plain to the west of the area.

**Soils:** This component has various soils with Northcote Classifications Dg 2, Dy 3, Um 6 and Um 1.

**Present Land Use:** Grazing

**Constraints:** the major constraints are the poor site drainage and the high winter water table.

Capability for Urban Use: 3 Most Limiting Factors: Other Limitations	Site drainage and B horizon shrink-swell B horizon Unified Soil Group and Emerson dispersion and slaking class
Capability for Intensive Cropping: 3 Most Limiting Factors:  Other Limitations:	Site drainage and depth to winter water table Dry consistence, B horizon shrink-swell and Emerson dispersion and slaking class and A horizon pH.
Capability for Stump or Strip footing Foundations: 3 Most Limiting Factors: Other Limitations:	Site drainage and B horizon shrink-swell B horizon Emerson dispersion and slaking class and Unified Soil Group
Capability for Concrete Slab Foundations: 3 Most Limiting Factors:  Other Limitations:	Slope, site drainage, B horizon shrink- swell and depth to winter water table B horizon Unified Soil Group
Capability for Access Roads and Parking Lots: 4 Most Limiting Factors: Other Limitations:	Depth to winter water table B horizon shrink-swell and site drainage
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors: Other Limitations:	Depth to winter water table Site drainage and soil profile permeability
Capability for Grazing: 2 Limiting Factors:	Site drainage and depth to winter water table
Capability for Playing Fields: 3 Most Limiting Factors: Other Limitations	Slope and site drainage None
Capability for Intensive Use Areas: 3 Most Limiting Factors: Other Limitations:	Site drainage Slope
Capability for Paths and Tracks: 2 Most Limiting Factors: Other Limitations:	Site drainage Slope and B horizon Emerson dispersion and slaking class



**COMPONENT NUMBER: 9**

**Terrain:** the component has steep slopes of between 15 and 30% and is found in the north of the area.

**Soils:** These are various soils with Northcote Classifications Dg 2, Dy 3, Um 6 and Um 1.

**Present Land Use:** Timbered

**Constraints:** Slope is the most important limitation in every land use considered.

Capability for Urban Use: 3	
Most Limiting Factors:	Slope and B horizon shrink-swell
Other Limitations:	B horizon Unified Soil Group and Emerson dispersion and slaking class
Capability for Intensive Cropping: 4	
Most Limiting Factors:	Slope
Other Limitations:	Depth to friable soil
Capability for Stump or Strip footing Foundations: 3	
Most Limiting Factors:	Slope and B horizon shrink-swell
Other Limitations:	B horizon Emerson dispersion and slaking class and unified Soil Group
Capability for Concrete Slab Foundations: 4	
Most Limiting Factors:	Slope
Other Limitations:	B horizon Unified Soil Group
Capability for Access Roads and Parking Lots: 3	
Most Limiting Factors:	Slope
Other Limitations:	B horizon shrink-swell
Capability for On-Site Effluent Disposal: 4	
Most Limiting Factors:	Slope
Other Limitations:	Depth to rock and soil profile permeability
Capability for Grazing: 3	
Most Limiting Factors:	Slope
Other Limitations:	None
Capability for Playing Fields: 5	
Most Limiting Factors:	Slope
Other Limitations:	Depth to rock
Capability for Intensive Use Areas: 4	
Most Limiting Factors:	Slope
Other Limitations:	Depth to rock
Capability for Paths and Tracks: 2	
Most Limiting Factors:	Slope
Other Limitations:	A horizon texture and B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 10**

**Terrain:** The component is a drainage line on a gently sloping plain in the south east of the study area.

**Soils:** These are principally colluvial and alluvial loams. Northcote Classifications are Dg 2, Dy 3, Um 1 and Um 6.

**Present Land Use:** Timbered and grazing.

**Constraints:** The major constraints for every land use are site drainage and flood hazard

Capability for Urban Use: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Erosion hazard
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Flood hazard, site drainage and erosion hazard
Other Limitations:	Depth to winter water table
Capability for Stump or Strip footing Foundations: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Depth to winter water table
Capability for Concrete Slab Foundations: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Depth to winter water table
Capability for Access Roads and Parking Lots: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Depth to winter water table
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Flood hazard, depth to rock, site drainage and depth to winter table
Other Limitations:	Soil profile permeability
Capability for Grazing: 4	
Most Limiting Factors:	Site drainage and erosion hazard
Other Limitations:	Flood hazard and depth to winter water table
Capability for Playing Fields: 5	
Most Limiting Factors:	Flood hazard, depth o rock and site drainage
Other Limitations:	Slope
Capability for Intensive Use Areas: 5	
Most Limiting Factors:	Flood hazard, depth to rock and site drainage
Other Limitations:	Erosion hazard
Capability for Paths and Tracks: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	B horizon Emerson dispersion and slaking class, slopes and A horizon texture.

**COMPONENT NUMBER: 11**

**Terrain:** This component is a moderately steep drainage line found in the north of the area.

**Soils:** these are principally yellow duplex, with Northcote Classification of Dy 3.

**Present Land Use:** Timbered

**Constraints:** Flood hazard or site drainage are the major constraints.

Capability for Urban Use: 5 Most Limiting Factors: Other Limitations	Flood hazard and site drainage Erosion hazard
Capability for Intensive Cropping: 5 Most Limiting Factors: Other Limitations:	Erosion hazard, site drainage and flood hazard Depth to winter water table
Capability for Stump or Strip footing Foundations: 5 Most Limiting Factors: Other Limitations:	Flood hazard or site drainage Slope and depth to winter water table
Capability for Concrete Slab Foundations: 5 Most Limiting Factors: Other Limitations:	Flood hazard and site drainage Slope and depth to winter water table.
Capability for Access Roads and Parking Lots: 5 Most Limiting Factors: Other Limitations:	Flood hazard and site drainage Slope and soil profile permeability
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors: Other Limitations:	Flood hazard, depth to rock, site drainage and depth to winter water table. Slope and soil profile permeability
Capability for Grazing: 4 Most Limiting Factors: Other Limitations:	Site drainage and erosion hazard Depth to winter water table and flood hazard
Capability for Playing Fields: 5 Most Limiting Factors: Other Limitations	Flood hazard, depth to rock and site drainage Slope
Capability for Intensive Use Areas: 5 Most Limiting Factors: Other Limitations:	Flood hazard, depth to rock and site drainage Erosion hazard
Capability for Paths and Tracks: 2 Most Limiting Factors: Other Limitations:	Flood hazard and site drainage Slope

**COMPONENT NUMBER: 12**

**Terrain:** This component covers two steep drainage lines found in the north of the area.

**Soils:** There are yellow duplex soils with Northcote Classification Dy 3.

**Present Land Use:** Timbered rural

**Constraints:** The main limitations are site drainage and flood hazard

Capability for Urban Use: 2	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Slope and erosion hazard
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Flood hazard, site drainage and erosion hazard
Other Limitations:	Slope and depth to winter water table
Capability for Stump or Strip footing Foundations: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Slope and depth to winter water table
Capability for Concrete Slab Foundations: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Slope and depth to winter water table
Capability for Access Roads and Parking Lots: 5	
Most Limiting Factors:	Slope, flood hazard and site drainage
Other Limitations:	Depth to winter water table
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Flood hazard, site drainage and depth to winter water table
Other Limitations:	Slope
Capability for Grazing: 5	
Most Limiting Factors:	Slope, site drainage and erosion hazard
Other Limitations:	Flood hazard and depth to winter water table
Capability for Playing Fields: 5	
Most Limiting Factors:	Slope, flood hazard and site drainage
Other Limitations:	Depth to rock
Capability for Intensive Use Areas: 5	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Slope and erosion hazard
Capability for Paths and Tracks: 2	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Slope

## COMPONENT NUMBER: 13

**Terrain:** This component covers the moderately steep slopes of a hill found in the north east and centre of the area.

**Soils:** These are shallow skeletal soils with or without well defined B horizons. As a result, a variety of Northcote Classifications are applicable.

**Present Land Use:** Timbered and residential

**Constraints:** the shallow depth to rock is the main constraint for land in this area.

Capability for Urban Use: 3	
Most Limiting Factors:	B horizon shrink-swell, depth to rock, % stones and outcropping boulders and B horizon Unified Soil Group
Other Limitations:	Slope, B horizon Emerson dispersion and slaking class
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Availability of dam sites, depth of friable soil, depth to rock and % stones.
Other Limitations:	Percentage outcropping boulders.
Capability for Stump or Strip footing Foundations: 3	
Most Limiting Factors:	B horizon shrink-swell, % stones and outcropping boulders and depth to rock
Other Limitations:	Slope and B horizon Emerson dispersion and slaking class and Unified Soil Group.
Capability for Concrete Slab Foundations: 4	
Most Limiting Factors:	Slope and depth to rock
Other Limitations:	B horizon Unified Soil Group and % stones and boulders
Capability for Access Roads and Parking Lots: 4	
Most Limiting Factors:	Depth to rock and slope
Other Limitations:	Percentage stones and outcropping boulders, and B horizon shrink-swell
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Depth to rock
Other Limitations:	Slope and B horizon Unified Soil Group
Capability for Grazing: 3	
Most Limiting Factors:	Depth to rock, limiting depth of pasture roots and availability of dam sites
Other Limitations:	Slope
Capability for Playing Fields: 5	
Most Limiting Factors:	Depth to rock
Other Limitations:	Slope and percentage stones and outcropping boulders
Capability for Intensive Use Areas: 3	
Most Limiting Factors:	Depth to rock, % stones and outcropping boulders and slope
Other Limitations:	None
Capability for Paths and Tracks: 2	
Limiting Factors:	Slope, A horizon texture, % stones and outcropping boulders, and B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 14**

**Terrain:** this component covers the steep hill slopes I the north east and centre of the area.

**Soils:** These are various shallow skeletal soils with or without well defined B horizons. As a result, a variety of Northcote Classifications are applicable.

**Present Land Use:** Timbered.

**Constraints:** The shallow depth to rock and the steep slopes are the major constraints within this component.

Capability for Urban Use: 4	
Most Limiting Factors:	Slope, depth to rock and B horizon shrink-swell
Other Limitations:	B horizon Unified Soil Group and % stones and outcropping boulders
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Percentage stones, depth to rock, depth of friable soil and availability of dam sites
Other Limitations:	Slopes and % outcropping boulders.
Capability for Stump or Strip footing Foundations: 3	
Most Limiting Factors:	Slope, B horizon shrink-swell, depth to rock and % stones and outcropping boulders
Other Limitations:	B horizon Emerson dispersion and slaking class and Unified Soil Group
Capability for Concrete Slab Foundations: 4	
Most Limiting Factors:	Slope and depth to rock
Other Limitations:	B horizon Unified soil Group and % stones and gravel
Capability for Access Roads and Parking Lots: 4	
Most Limiting Factors:	Slope and depth to rock
Other Limitations:	Percentage stones and outcropping boulders and B horizon shrink-swell
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Depth to rock
Other Limitations:	Slope and % outcropping boulders
Capability for Grazing: 3	
Most Limiting Factors:	Slope, depth to rock, limiting depth for pasture roots and availability of dam sites
Other Limitations:	None
Capability for Playing Fields: 5	
Most Limiting Factors:	Slope and depth to rock
Other Limitations:	Percentage stones and outcropping boulders
Capability for Intensive Use Areas: 4	
Most Limiting Factors:	Depth to rock and slope
Other Limitations:	Percentage stones and outcropping boulders
Capability for Paths and Tracks: 3	
Most Limiting Factors:	Slope and percentage stones
Other Limitations:	A horizon texture, % outcropping boulders and B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 15**

**Terrain:** This is a gently sloping drainage line in the east and north of the area.

**Soils:** these are colluvial sandy loams, with Northcote Classifications Uc or Uc 3.

**Present Land Use:** Timbered, grazing and residential

**Constraints:** Flood hazard is the major limitation in every land use considered.

Capability for Urban Use: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Stump or Strip footing Foundations: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Concrete Slab Foundations: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Access Roads and Parking Lots: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Grazing: 3	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	None
Capability for Playing Fields: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Intensive Use Areas: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Paths and Tracks: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage

**COMPONENT NUMBER: 16**

**Terrain:** This component is a very flat plain covering most of the western half of the map.

**Soils:** These are various alluvial soils with Northcote Classifications of Dg 2, Dy 3, Um 6 and Um 1.

**Present Land Use:** grazing and residential

**Constraints:** Site drainage is the limiting factor in this component for most land uses.

Capability for Urban Use: 3 Most Limiting Factors: Other Limitations:	B horizon shrink-swell and site drainage B horizon Unified Soil Group and Emerson dispersion and slaking class
Capability for Intensive Cropping: 3 Most Limiting Factors: Other Limitations:	Site and drainage and depth to winter water table B horizon Emerson dispersion and slaking class and shrink-swell and A horizon pH.
Capability for Stump or Strip footing Foundations: 3 Most Limiting Factors: Other Limitations:	B horizon shrink-swell and site drainage B horizon Emerson dispersion and slaking class and unified Soil Group
Capability for Concrete Slab Foundations: 3 Most Limiting Factors: Other Limitations:	Site drainage, depth to winter water table and B horizon shrink-swell B horizon Unified Soil Group and Emerson slaking and dispersion class.
Capability for Access Roads and Parking Lots: 4 Most Limiting Factors: Other Limitations:	Depth to winter water table B horizon shrink-swell and site drainage
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors: Other Limitations:	Depth to winter water table Site drainage and soil profile permeability
Capability for Grazing: 2 Limiting Factors:	Site drainage and depth to winter water table
Capability for Playing Fields: 3 Limiting Factors:	Site drainage
Capability for Intensive Use Areas: 3 Limiting Factors:	Site drainage
Capability for Paths and Tracks: 3 Most Limiting Factors: Other Limitations:	Site drainage B horizon Emerson dispersion and slaking class



**COMPONENT NUMBER: 17**

**Terrain:** This component is a drainage lien found on the plain I the centre and to the west of the area.

**Soils:** these are various alluvial soils of Northcote Classifications Dg 3, Dy 3, Um 6 and Um1.

**Present Land Use:** Grazing

**Constraints:** Flood hazard is a major constraint to every land use.

Capability for Urban Use: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage and B horizon shrink-swell
Capability for Intensive Cropping: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage and depth to winter water table
Capability for Stump or Strip footing Foundations: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage and B horizon shrink-swell
Capability for Concrete Slab Foundations: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage, depth to winter water table and B horizon shrink-swell
Capability for Access Roads and Parking Lots: 5	
Most Limiting Factors:	Flood hazard and depth to winter water table
Other Limitations:	B horizon shrink-swell and site drainage
Capability for On-Site Effluent Disposal: 5	
Most Limiting Factors:	Flood hazard and depth to winter water table
Other Limitations:	Site drainage and soil profile permeability
Capability for Grazing: 4	
Most Limiting Factors:	Flood hazard and site drainage
Other Limitations:	Depth to winter water table
Capability for Playing Fields: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Intensive Use Areas: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage
Capability for Paths and Tracks: 5	
Most Limiting Factors:	Flood hazard
Other Limitations:	Site drainage

**COMPONENT NUMBER: 18**

**Terrain:** this covers the hill sloping gently up from the plain, in the west of the area.

**Soils:** These soils are yellow duplex soils with Northcote Classification and Dy 3.21. There are derived from metamorphosed siltstones and sandstones.

**Present Land Use:** Grazing

**Constraints:**

Capability for Urban Use: 2 Limiting Factors:	B horizon Unified Soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Intensive Cropping: 4 Most Limiting Factors: Other Limitations:	Depth to friable soil Percentage gravel, depth to rock, B horizon Emerson dispersion and slaking class, A horizon pH and % organic matter and dry consistence.
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B Horizon unified Soil Group, Emerson dispersion and slaking class and shrink-swell, and depth to winter water table
Capability for Concrete Slab Foundations: 2 Limiting Factors:	Slope, B horizon Emerson slaking and dispersion class and shrink-swell and depth to winter water table
Capability for Access Roads and Parking Lots: 5 Limiting Factors:	Slope, B horizon Emerson slaking and dispersion class and shrink-swell and depth to winter water table
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors: Other Limitations:	Depth to rock, soil profile permeability and depth to winter water table Slope, percentage gravel and Emerson dispersion and slaking class
Capability for Grazing: 1	
Capability for Playing Fields: 2 Limiting Factors:	Slope, % gravel and depth to rock
Capability for Intensive Use Areas: 2 Limiting Factors:	Slope and depth to rock
Capability for Paths and Tracks: 2 Limiting Factors:	Slope and B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 19**

**Terrain:** This small component is the moderately steep slope of a hill in the north east corner of the area.

**Soils:** These are various shallow skeletal soils with or without well defined B horizons. As a result a variety of Northcote Classifications are applicable.

**Present Land Use:** Grazing

**Constraints:** Slope, the shallow depth to bedrock and the boulders present are the main limitations within this component.

Capability for Urban Use: 3	
Most Limiting Factors:	Slope, B horizon Unified Soil Group and % outcropping boulders
Other Limitations:	Percentage of gravel and stones, B horizon Emerson dispersion and slaking class and shrink-swell and site drainage
Capability for Intensive Cropping: 4	
Most Limiting Factors:	Percentage of outcropping boulders
Other Limitations:	Slope, percentage of gravel and stones and depth of friable soil
Capability for Stump or Strip footing Foundations: 3	
Most Limiting Factors:	Slope and % outcropping boulders
Other Limitations:	Percentage of gravel and stones, depth to rock, B horizon Emerson slaking and dispersion class, shrink-swell and Unified Soil Group and site drainage.
Capability for Concrete Slab Foundations: 4	
Most Limiting Factors:	Slope
Other Limitations:	B horizon Unified Soil Group and % outcropping boulders.
Capability for Access Roads and Parking Lots: 3	
Most Limiting Factors:	Slope, depth to rock and % outcropping boulders.
Other Limitations:	B horizon Emerson dispersion and slaking class and shrink-swell and % stones and site drainage.
Capability for On-Site Effluent Disposal: 4	
Most Limiting Factors:	Percentage of outcropping boulders, slope and depth to rock
Other Limitations:	Soil profile permeability and % stones.
Capability for Grazing: 3	
Most Limiting Factors:	Slope
Other Limitations:	Site drainage
Capability for Playing Fields: 5	
Most Limiting Factors:	Slope and % outcropping boulders
Other Limitations:	Depth to rock
Capability for Intensive Use Areas: 4	
Most Limiting Factors:	Slope and depth to rock
Other Limitations:	Site drainage and % outcropping boulders
Capability for Paths and Tracks: 3	
Most Limiting Factors:	Slope
Other Limitations:	A horizon texture, % stones and outcropping boulders, site drainage and B horizon Emerson dispersion and slaking class.

**COMPONENT NUMBER: 20**

**Terrain:** This is gently sloping hill I the east of the area.

**Soils:** These are sandy loams, with Northcote Classifications Uc 2 and Uc 3.

**Present Land Use:** Grazing

**Constraints:**

Capability for Urban Use: 2 Limiting Factors:	B horizon Unified Soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Intensive Cropping: 2 Limiting Factors:	B horizon Emerson dispersion and slaking class, A horizon % organic matter and pH, depth of friable soil and dry consistence
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified Soil Group Emerson dispersion and slaking class and shrink-swell
Capability for Concrete Slab Foundations: 2 Limiting Factors:	Slope and B horizon Unified Soil Group
Capability for Access Roads and Parking Lots: 2 Limiting Factors:	Slope, B horizon Emerson slaking and dispersion class and shrink-swell
Capability for On-Site Effluent Disposal: Limiting Factors:	Slope and B horizon slaking and dispersion class
Capability for Grazing: 1	
Capability for Playing Fields: 2 Limiting Factors:	Slope
Capability for Intensive Use Areas: 2 Limiting Factors:	Slope
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon slaking and dispersion class.

**COMPONENT NUMBER: 21**

**Terrain:** This component is a gently sloping hill in the east of the area.

**Soils:** These are sandy loams, with Northcote Classifications of Uc and Uc 3.

**Present Land Use:** Grazing and timbered

**Constraints:**

Capability for Urban Use: 2 Limiting Factors:	B horizon Unified Soil Group, Emerson dispersion and slaking class and shrink-swell
Capability for Intensive Cropping: Limiting Factors:	Percentage gravel, depth to rock, B horizon Emerson dispersion and slaking class and A horizon pH and % organic matter
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	B horizon Unified soil Group, Emerson dispersion and slaking class and shrink-swell
Capability for Concrete Slab Foundations: 2 Limiting Factors:	Slope and B horizon Unified soil Group and Emerson dispersion and slaking class and shrink-swell
Capability for Access Roads and Parking Lots: 2 Limiting Factors:	Slope, B horizon Emerson dispersion and slaking class and shrink-swell
Capability for On-Site Effluent Disposal: 2 Limiting Factors:	Slope, depth to rock and B horizon Emerson slaking and dispersion class
Capability for Grazing: 1	
Capability for Playing Fields: 3 Most Limiting Factors: Other Limitations:	Slope and depth to rock None
Capability for Intensive Use Areas: 2 Limiting Factors:	Slope to depth to rock
Capability for Paths and Tracks: 3 Limiting Factors:	Slope, A horizon texture and B horizon Emerson slaking and dispersion class

**COMPONENT NUMBER: 22**

**Terrain:** This component covers a moderately steep hill slope in the east of the area.

**Soils:** These are sandy loams of colluvial origin. The Northcote Classifications are Uc 2 and Uc 3.

**Present Land Use:** Grazing, lightly timbered and residential.

**Constraints:** Slope is the main limitation for development of this component.

Capability for Urban Use: 2 Limiting Factors:	Slope, B horizon unified soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Intensive Cropping: 3 Most Limiting Factors:  Other Limitations:	Availability of dam sites and depth of friable soil A horizon pH and % organic matter, B horizon Emerson slaking and dispersion class, depth to rock, % gravel and slope
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	Slope, B horizon Unified Soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Concrete Slab Foundations: 3 Most Limiting Factors: Other Limitations:	Slope and B horizon Unified Soil Group B horizon Emerson slaking and dispersion class
Capability for Access Roads and Parking Lots: 3 Most Limiting Factors: Other Limitations	Slope B horizon Emerson slaking and dispersion class and shrink-swell
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors: Other Limitations:	Slope and depth to rock B horizon Emerson dispersion and slaking class
Capability for Grazing: 2 Limiting Factors:	Slope
Capability for Playing Fields: 4 Most Limiting Factors: Other Limitations:	Slope B horizon Emerson dispersion and slaking class
Capability for Intensive Use Areas: 3 Most Limiting Factors: Other Limitations:	Slope and depth to rock None
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon Emerson slaking and dispersion class

**COMPONENT NUMBER: 23**

**Terrain:** This component covers a few moderately steep drainage lines I the east of the area.

**Soils:** These are sandy loams of colluvial origin. The Northcote Classifications are Uc 2 and Uc 3.

**Present Land Use:** Timbered

**Constraints:** Flood hazard is the major constraint for all land uses considered.

Capability for Urban Use: 5 Most Limiting Factors: Other Limitations:	Flood hazard B horizon Unified soil Group
Capability for Intensive Cropping: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope, % gravel, A horizon pH and % organic matter, B horizon Emerson dispersion and slaking class and dry consistence.
Capability for Stump or Strip footing Foundations: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon shrink-swell and Emerson dispersion and slaking class and slope
Capability for Concrete Slab Foundations: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope
Capability for Access Roads and Parking Lots: 5 Most Limiting Factors: Other Limitations	Flood hazard Slope
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope
Capability for Grazing: 3 Most Limiting Factors: Other Limitations	Flood hazard Slope
Capability for Playing Fields: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope
Capability for Intensive Use Areas: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope
Capability for Paths and Tracks: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope

**COMPONENT NUMBER: 24**

**Terrain:** This component covers a moderately steep hill found in the north east of the study area.

**Soils:** These are sandy loams of colluvial origin. Their Northcote Classifications are Uc 2 and Uc 3.

**Present Land Use:** Residential and grazing

**Constraints:** Slope is the major constraint for this component.

Capability for Urban Use: 2 Limiting Factors:	Slope, B horizon Unified soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Intensive Cropping: 3 Most Limiting Factors: Other Limitations:	Depth of friable soil Soil, % gravel, B horizon Emerson dispersion and slaking class and A horizon pH and % organic matter
Capability for Stump or Strip footing Foundations: 3 Limiting Factors:	Slope, B horizon Unified Soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Concrete Slab Foundations: 3 Most Limiting Factors: Other Limitations:	Slope and B horizon Unified soil Group B horizon Emerson dispersion and slaking class
Capability for Access Roads and Parking Lots: 3 Most Limiting Factors: Other Limitations	Slope B horizon Emerson slaking and dispersion class and shrink-swell
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors: Other Limitations:	Slope B horizon Emerson slaking and dispersion class
Capability for Grazing: 2 Limiting Factors:	Slope
Capability for Playing Fields: 4 Most Limiting Factors: Other Limitations:	Slope None
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and B horizon Emerson dispersion and slaking class



**COMPONENT NUMBER: 25**

**Terrain:** This component covers a moderately steep hill in the east of the area.

**Soils:** These are colluvial, sandy loams with Northcote Classifications of Uc 2 and Uc 3

**Present Land Use:** Grazing

**Constraints:** The major constraint in all land uses is slope.

Capability for Urban Use: 2 Limiting Factors:	Slope, B horizon Unified soil Group, Emerson slaking and dispersion class and shrink-swell
Capability for Intensive Cropping: 2 Limiting Factors:	Slope, % gravel and B horizon Emerson slaking and dispersion class and shrink-swell
Capability for Stump or Strip footing Foundations: 2 Limiting Factors:	Slope, B horizon Unified Soil Group, Emerson dispersion and slaking class and shrink-swell
Capability for Concrete Slab Foundations: 3 Most Limiting Factors: Other Limitations:	Slope and B horizon Unified Soil Group B horizon Emerson dispersion and slaking class.
Capability for Access Roads and Parking Lots: 3 Most Limiting Factors: Other Limitations	Slope B horizon Emerson slaking and dispersion class and shrink-swell
Capability for On-Site Effluent Disposal: 3 Most Limiting Factors: Other Limitations:	Slope B horizon Emerson slaking and dispersion class
Capability for Grazing: 2 Limiting Factors:	Slope and availability of dams sites
Capability for Playing Fields: 4 Most Limiting Factors: Other Limitations:	Slope None
Capability for Intensive Use Areas: 3 Most Limiting Factors: Other Limitations:	Slope None
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, A horizon texture and Emerson dispersion and slaking class

**COMPONENT NUMBER: 26**

**Terrain:** This is a small component in the north eastern corner of the map. It covers a section of a steep rocky hill.

**Soils:** These are shallow skeletal sandy loams with Northcote Classifications Uc 2 and Uc 3.

**Present Land Use:** Grazing

**Constraints:** The main constraint for all land uses considered is slope.

Capability for Urban Use: 3 Most Limiting Factors: Other Limitations	Slope and B horizon Unified Soil Group B horizon Emerson dispersion and slaking class and shrink-swell
Capability for Intensive Cropping: 4 Most Limiting Factors: Other Limitations	Slope and availability of dam sites Depth of friable soil
Capability for Stump or Strip footing Foundations: 3 Most Limiting Factors: Other Limitations	Slope B horizon Emerson dispersion and slaking class, shrink-swell and Unified Soil Group
Capability for Concrete Slab Foundations: 4 Most Limiting Factors: Other Limitations:	Slope B horizon Unified Soil Group
Capability for Access Roads and Parking Lots: 4 Most Limiting Factors: Other Limitations	Slope B horizon Emerson dispersion and slaking class and shrink-swell
Capability for On-Site Effluent Disposal: 4 Most Limiting Factors: Other Limitations:	Slope Depth to rock
Capability for Grazing: 3 Limiting Factors:	Availability of dams sites and slopes
Capability for Playing Fields: 5 Most Limiting Factors: Other Limitations:	Slope Depth to rock
Capability for Intensive Use Areas: 3 Limiting Factors:	Slope and depth to rock
Capability for Paths and Tracks: Most Limiting Factors: Other Limitations	Slope A horizon texture and B horizon Emerson slaking and dispersion class

**COMPONENT NUMBER: 27**

**Terrain:** This component is a very gently sloping drainage line in the east of the area.

**Soils:** These are alluvial and colluvial sandy loams of Northcote Classifications Uc and Uc 3.

**Present Land Use:** timbered, rural residential and light grazing.

**Constraints:** Flood hazard is the major limitation for every land use considered.

Capability for Urban Use: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon Unified Soil Group
Capability for Intensive Cropping: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon Emerson slaking and dispersion class, % and dispersion class, % gravel, A horizon pH and % organic matter and dry consistence
Capability for Stump or Strip footing Foundations: 5 Most Limiting Factors: Other Limitations	Flood Hazard B horizon shrink-swell and Emerson dispersion and slaking class.
Capability for Concrete Slab Foundations: 5 Most Limiting Factors: Other Limitations:	Flood hazard B horizon Unified soil Group
Capability for Access Roads and Parking Lots: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon Emerson dispersion and slaking class and shrink-swell
Capability for On-Site Effluent Disposal: 5 Limiting Factors:	Flood hazard
Capability for Grazing: 5 Limiting Factors:	Flood hazard
Capability for Playing Fields: 5 Limiting Factors:	Flood hazard
Capability for Intensive Use Areas: 5 Limiting Factors:	Flood hazard
Capability for Paths and Tracks: 5 Limiting Factors:	Flood hazard

**COMPONENT NUMBER: 28**

**Terrain:** This component is a gently sloping drainage line in the east of the area.

**Soils:** These are alluvial and colluvial sandy loams of Northcote Classifications Uc 3 and Uc 2.

**Present Land Use:** Grazing, residential and timbered

**Constraints:** Flood hazard is the major limitation for every land use considered.

Capability for Urban Use: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon Unified Soil Group
Capability for Intensive Cropping: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon Emerson slaking and dispersion class, % gravel, A horizon and pH and % organic matter.
Capability for Stump or Strip footing Foundations: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon Emerson dispersion and slaking class and shrink-swell
Capability for Concrete Slab Foundations: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope and B horizon Unified Soil Group
Capability for Access Roads and Parking Lots: 5 Most Limiting Factors: Other Limitations	Flood hazard B horizon shrink-swell and Emerson dispersion and slaking class and slope
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope and b horizon Emerson slaking and dispersion class
Capability for Grazing: 3 Limiting Factors:	Flood hazard
Capability for Playing Fields: 5 Most Limiting Factors: Other Limitations:	Flood hazard Slope
Capability for Intensive Use Areas: 5 Most Limiting Factors: Other Limitations	Flood hazard Slope
Capability for Paths and Tracks: 5 Most Limiting Factors: Other Limitations	Flood hazard Slope, A horizon texture and B horizon Emerson slaking and dispersion class.

**COMPONENT NUMBER: 29**

**Terrain:** This component is a swampy drainage line in the north east of the area.

**Soils:** These soils are both colluvial and alluvial loams with Northcote Classifications Uc 2 and Uc 3.

**Present Land Use:** Unused cleared swamp.

**Constraints:** Poor site drainage is the main limitation in area.

Capability for Urban Use: 5 Most Limiting Factors: Other Limitations	Flood hazard and site drainage B horizon shrink-swell
Capability for Intensive Cropping: 5 Most Limiting Factors: Other Limitations	Site drainage, soil profile permeability and depth to winter water table Flood hazard and % gravel
Capability for Stump or Strip footing Foundations: 5 Most Limiting Factors: Other Limitations	Flood hazard, site drainage and soil profile permeability B horizon shrink-swell
Capability for Concrete Slab Foundations: 5 Most Limiting Factors: Other Limitations:	Flood hazard, site drainage and soil profile permeability B horizon Unified Soil Group, Emerson slaking and dispersion class and shrink- swell, slope and % gravel.
Capability for Access Roads and Parking Lots: 5 Most Limiting Factors: Other Limitations	Site drainage, soil profile permeability and depth to winter water table B horizon shrink-swell
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors: Other Limitations:	Site drainage, soil profile permeability and depth to winter water table Flood hazard
Capability for Grazing: 3 Most Limiting Factors: Other Limitations	Site drainage and depth to winter water table Flood hazard
Capability for Playing Fields: 5 Most Limiting Factors: Other Limitations:	Site drainage Percentage of gravel
Capability for Intensive Use Areas: 5 Most Limiting Factors: Other Limitations	Site drainage Percentage of gravel
Capability for Paths and Tracks: 5 Most Limiting Factors: Other Limitations	Site drainage B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 30**

**Terrain:** This component covers a gently sloping hillside in the centre of the area.

**Soils:** These are shallow skeletal soils with or without well defined B horizons. As a result a variety of Northcote Classifications are applicable.

**Present Land Use:** Timbered

**Constraints:** the main constraint for this component is the shallow depth to bedrock.

Capability for Urban Use: 3 Most Limiting Factors:	Depth to rock and B horizon shrink-swell and Unified Soil Group and % stones and outcropping boulders
Other Limitations	B horizon Emerson dispersion and slaking class
Capability for Intensive Cropping: 5 Most Limiting Factors:	Availability of dam sites, depth of friable soil, depth to rock and % stones
Other Limitations	Percentage of outcropping boulders
Capability for Stump or Strip footing Foundations: 3 Most Limiting Factors:	Percentage stones and outcropping boulders, depth to rock and B horizon shrink-swell
Other Limitations	B horizon Emerson dispersion and slaking class and Unified Soil Group
Capability for Concrete Slab Foundations: 3 Most Limiting Factors:	Depth to rock, % stones and outcropping boulders, B horizon Unified Soil Group and slope
Other Limitations:	B horizon Emerson dispersion and slaking class and shrink-swell
Capability for Access Roads and Parking Lots: 3 Most Limiting Factors:	Depth to rock, % stones and outcropping boulders and B horizon shrink-swell
Other Limitations	Slope, B horizon Emerson dispersion and slaking class
Capability for On-Site Effluent Disposal: 5 Most Limiting Factors:	Depth to rock and % outcropping boulders
Other Limitations:	Soil profile permeability and % stones
Capability for Grazing: 3 Limiting Factors:	Depth to rock, limiting depth of pasture roots and availability of dam sites
Capability for Playing Fields: 5 Most Limiting Factors:	Depth to rock
Other Limitations:	Percentage of stones and outcropping boulders
Capability for Intensive Use Areas: 3 Most Limiting Factors:	Depth to rock and % stones and outcropping boulders
Other Limitations	Slope
Capability for Paths and Tracks: 2 Limiting Factors:	Slope, % stones and outcropping boulders and B horizon Emerson dispersion and slaking class

**COMPONENT NUMBER: 31**

**Terrain:** This is a component covering a steep hillside in the north eastern corner of the area.

**Soils:** these soils are derived from volcanic rock. The Northcote Classification is Dy 3.41

**Present Land Use:** Timbered, rural residential and urban.

**Constraints:** The main constraint in all land uses considered in slope.

Capability for Urban Use: 3 Most Limiting Factors: Other Limitations	Slope and B horizon shrink-swell B horizon Unified Soil Group and Emerson dispersion and slaking class and slumping of batters.
Capability for Intensive Cropping: 4 Most Limiting Factors: Other Limitations	Slope and availability of dam sites Depth of friable soil
Capability for Stump or Strip footing Foundations: 3 Most Limiting Factors: Other Limitations	Slope and B horizon shrink-swell Depth to rock and B horizon Emerson dispersion and slaking class and Unified soil Group.
Capability for Concrete Slab Foundations: 4 Most Limiting Factors: Other Limitations:	Slope B horizon Unified Soil Group, shrink-swell and Emerson slaking and dispersion class, depth to rock and slumping of batters
Capability for On-Site Effluent Disposal: 4 Most Limiting Factors: Other Limitations:	Slope and depth to rock Soil profile permeability
Capability for Grazing: 3 Limiting Factors:	Slope and availability of dam sites
Capability for Playing Fields: 5 Most Limiting Factors: Other Limitations:	Slope Depth to rock
Capability for Intensive Use Areas: 4 Limiting Factors:	Slope and depth to rock
Capability for Paths and Tracks: 3 Most Limiting Factors: Other Limitations	Slope A horizon texture and B horizon Emerson dispersion and slaking class