

**Project Name:** Katanning land resources survey  
**Project Code:** KLC **Site ID:** 0434 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Heather Percy  
**Date Desc.:** 09/09/92  
**Map Ref.:**  
**Northing/Long.:** 6281540 AMG zone: 50  
**Easting/Lat.:** 563600 Datum: AGD84  
**Locality:**  
**Elevation:** 275 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Imperfectly drained

#### Geology

**ExposureType:** Auger boring  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

#### Land Form

**Rel/Slope Class:** Level plain <9m <1%  
**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** 0 %  
**Pattern Type:** Alluvial plain  
**Relief:** 1 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Firm

**Erosion:** (wind); (sheet) (rill) (gully)

#### Soil Classification

**Australian Soil Classification:** N/A  
**Mapping Unit:** N/A  
**Principal Profile Form:** Dy5.42  
**ASC Confidence:** Confidence level not specified  
**Great Soil Group:** N/A

**Site** Complete clearing. Pasture, native or improved, cultivated at some stage

#### Vegetation:

**Surface Coarse** No surface coarse fragments; No surface coarse fragments

#### Profile

|      |              |   |
|------|--------------|---|
| A1   | 0 - 0.12 m   | Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Moist; Loose      |
| A2e  | 0.12 - 0.4 m | Pale brown (10YR6/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Wet; Loose consistence;   |
|      |              | 20-50%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Common,      |
|      |              | fine (1-2mm) roots; Abrupt change to -  |
| B21t | 0.4 - 0.6 m  | Grey (10YR6/1-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Light clay; Moderate grade of      |
|      |              | structure; Smooth-ped fabric; Moderately moist; Firm consistence; Field pH 6.5 (Raupach); Common,     |
|      |              | fine (1-2mm) roots; Clear change to -   |
| B22t | 0.6 - 1.05 m | Brownish yellow (10YR6/7-Moist); Mottles, 2.5Y63, 10-20% , 0-5mm, Distinct; Light clay; Weak grade of |
|      |              | structure; Rough-ped fabric; Dry; Weak consistence; Field pH 7 (Raupach); Common, fine (1-2mm)        |
|      |              | roots;  |

#### Morphological Notes

#### Observation Notes

#### Site Notes

Guidera Road

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#### Laboratory Test Results:

| Depth    | pH    | 1:5 EC | Ca | Exchangeable Cations | Na          | Exchangeable | CEC | ECEC | ESP |
|----------|-------|--------|----|----------------------|-------------|--------------|-----|------|-----|
| m        |       | dS/m   |    | Mg K                 | Acidity     |              |     |      | %   |
|          |       |        |    |                      | Na          |              |     |      |     |
|          |       |        |    |                      | Cmol (+)/kg |              |     |      |     |
| 0 - 0.11 | 5.25B |        |    |                      |             |              |     |      |     |

|             |       |     |       |      |      |      |  |  |  |  |       |
|-------------|-------|-----|-------|------|------|------|--|--|--|--|-------|
| 0.16 - 0.26 | 4.91B |     |       |      |      |      |  |  |  |  |       |
| 0.4 - 0.6   | 5.7B  | 17B | 1.63A | 2.88 | 0.33 | 1.51 |  |  |  |  | 6.35D |
|             | 6.6H  |     |       |      |      |      |  |  |  |  |       |
| 0.4 - 0.6   | 5.7B  | 17B | 1.63A | 2.88 | 0.33 | 1.51 |  |  |  |  | 6.35D |
|             | 6.6H  |     |       |      |      |      |  |  |  |  |       |
| 0.41 - 0.51 | 5.59B |     |       |      |      |      |  |  |  |  |       |

| Depth       | CaCO3 | Organic<br>C<br>Clay | Avail.<br>P | Total<br>P | Total<br>N | Total<br>K | Bulk<br>Density | Particle<br>GV | Size<br>CS | Analysis<br>FS | Silt |
|-------------|-------|----------------------|-------------|------------|------------|------------|-----------------|----------------|------------|----------------|------|
| m           | %     | %                    | mg/kg       | %          | %          | %          | Mg/m3           |                |            | %              |      |
| 0 - 0.11    |       |                      |             |            |            |            |                 |                |            |                |      |
| 0.16 - 0.26 |       |                      |             |            |            |            |                 |                |            |                |      |
| 0.4 - 0.6   |       |                      |             |            |            |            |                 |                |            |                |      |
| 0.4 - 0.6   |       |                      |             |            |            |            |                 |                |            |                |      |
| 0.41 - 0.51 |       |                      |             |            |            |            |                 |                |            |                |      |

#### Laboratory Analyses Completed for this profile

|                          |  |
|--------------------------|--|
| 15_NR_CM                 | Exchangeable bases (Ca/Mg ratio) - Not recorded  |
| 15A1_CA<br>for soluble   | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15A1_CEC                 | Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts                 |
| 15A1_K<br>for soluble    | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15A1_MG<br>for soluble   | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15A1_NA<br>for soluble   | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts                |
| 15J_BASES                | Sum of Bases   |
| 15L1_a<br>Sum of Cations | Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay |
| 15N1_a                   | Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC                              |
| 15N1_b                   | Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations                   |
| 3_NR                     | Electrical conductivity or soluble salts - Not recorded  |
| 4_NR                     | pH of soil - Not recorded  |
| 4B1                      | pH of 1:5 soil/0.01M calcium chloride extract - direct   |
| P10_gt2m                 | > 2mm particle size analysis, (method not recorded)  |