

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1647 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | |
|---|--|
| Desc. By: Heather Percy | Locality: |
| Date Desc.: 25/05/94 | Elevation: 260 metres |
| Map Ref.: | Rainfall: No Data |
| Northing/Long.: 6310580 AMG zone: 50 | Runoff: No Data |
| Easting/Lat.: 499020 Datum: AGD84 | Drainage: Moderately well drained |

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

| | |
|--------------------------------|--------------------------------|
| Morph. Type: No Data | Relief: 10 metres |
| Elem. Type: Valley flat | Slope Category: No Data |
| Slope: 0 % | Aspect: No Data |

Surface Soil Condition Loose

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

Soil Classification

| | |
|---|---------------------------------------|
| Australian Soil Classification: N/A | Mapping Unit: N/A |
| ASC Confidence: Confidence level not specified | Principal Profile Form: Dy5.82 |
| | 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

| | | |
|-------------------|--------------|---|
| A1p | 0 - 0.1 m | Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Moist; |
| | | Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Abrupt change to - |
| A12 | 0.1 - 0.3 m | Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; |
| Moist; Field pH 6 | | (Raupach); Common, very fine (0-1mm) roots; Clear change to - |
| A21e | 0.3 - 0.4 m | Light brownish grey (10YR6/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; |
| structure; | | Moist; Field pH 6 (Raupach); Clear change to - |
| A22 | 0.4 - 0.55 m | Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; |
| Moist; Field pH | | 7.5 (Raupach); Clear change to - |
| B2w | 0.55 - 1.1 m | Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR56, 10-20% , 15-30mm, Distinct; Coarse |
| sandy clay | | loam; Weak grade of structure; Moist; Field pH 8.5 (Raupach); Clear change to - |
| C | 1.1 - 1.2 m | Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Field |
| pH 8 | | (Raupach); |

Morphological Notes

Observation Notes

Site Notes

Site near drainage line cutting across the Arthur River - Darkan Road.

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Cations | Na | Exchangeable | CEC | ECEC | ESP |
|-------|----|--------|----|----------------------|----|--------------|-----|------|-----|
| | | | | Mg K | | Acidity | | | |

| m | dS/m | Cmol (+)/kg | | | | | | | | | % |
|-------------|------|-------------|-------|-----|------|------|----|-------|------|--|---|
| 0 - 0.1 | 4.8B | | | | | | | | | | |
| 0.15 - 0.25 | 4.6B | | | | | | | | | | |
| 0.4 - 0.5 | 5B | | | | | | | | | | |
| 0.55 - 0.75 | 6.8B | 4B | 0.87E | 2.9 | 0.06 | 0.58 | 7B | 4.41D | 8.29 | | |
| | 8.2H | | | | | | | | | | |
| 0.55 - 0.75 | 6.8B | 4B | 0.87E | 2.9 | 0.06 | 0.58 | 7B | 4.41D | 8.29 | | |
| | 8.2H | | | | | | | | | | |
| 0.55 - 0.75 | 6.8B | 4B | 0.87E | 2.9 | 0.06 | 0.58 | 7B | 4.41D | 8.29 | | |
| | 8.2H | | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size | Analysis |
|-------------|-------|-----------|----------|---------|---------|---------|--------------|---------------|----------|
| m | % | Clay % | mg/kg | % | % | % | Mg/m3 | GV CS FS | Silt |
| 0 - 0.1 | | | | | | | | | |
| 0.15 - 0.25 | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | |
| 0.55 - 0.75 | <2C | | | | | | | 76I | 5 |
| 19 | | | | | | | | | |
| 0.55 - 0.75 | <2C | | | | | | | 76I | 5 |
| 19 | | | | | | | | | |
| 0.55 - 0.75 | <2C | | | | | | | 76I | 5 |
| 19 | | | | | | | | | |

Laboratory Analyses Completed for this profile

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| 13C1_AL | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon |
| 13C1_FE | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon |
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15C1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, |
| pretreatment for | soluble salts |
| 15C1_CEC | CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts |
| 15C1_K | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for |
| soluble salts | |
| 15C1_MG | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for |
| soluble salts | |
| 15C1_NA | Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for |
| soluble salts | |
| 15J_BASES | Sum of Bases |
| 15L1_a | Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using |
| Sum of Cations | 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 |
| 19B_NR | Calcium Carbonate (CaCO3) - Not recorded |
| 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_NR_C | Clay (%) - Not recorded |
| P10_NR_S | Sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |