

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0432 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | |
|---|---------------------------------|
| Desc. By: Heather Percy | Locality: |
| Date Desc.: 27/08/92 | Elevation: 270 metres |
| Map Ref.: | Rainfall: No Data |
| Northing/Long.: 6281230 AMG zone: 50 | Runoff: No Data |
| Easting/Lat.: 565800 Datum: AGD84 | Drainage: Poorly drained |

Geology

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

Land Form

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

Surface Soil Condition Saline, Hardsetting

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

Soil Classification

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|---|---------------------------------------|
| Australian Soil Classification: N/A | Mapping Unit: N/A |
| ASC Confidence: Confidence level not specified | Principal Profile Form: Dy2.13 |
| | 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 - 0.05 m | Very dark brown (10YR2/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Moderately |
| | | moist; Very weak consistence; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Abrupt, Smooth change |
| | | to - |
| B21t | 0.05 - 0.3 m | Light yellowish brown (10YR6/4-Moist); Mechanical, 10YR22, 20-50% , 15-30mm, Distinct; Medium clay; |
| | | Moderate grade of structure; Rough-ped fabric; Moderately moist; Strong consistence; Field pH 7.5 |
| | | (Raupach); Common, fine (1-2mm) roots; Clear change to - |
| B22t | 0.3 - 0.5 m | Very pale brown (10YR7/4-Moist); Mechanical, 10YR51, 20-50% , 15-30mm, Distinct; Medium clay; |
| | | Moderate grade of structure; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 9.5 |
| | | (Raupach); Common, fine (1-2mm) roots; Clear change to - |
| B3 | 0.5 - 0.7 m | Very pale brown (10YR7/3-Moist); Mottles, 2.5YR48, 10-20% , 5-15mm, Prominent; Light clay; Moderate |
| | | grade of structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 9.5 (Raupach); Few, fine (1- |
| | | 2mm) roots; Clear change to - |
| C | 0.7 - 1 m | White (10YR8/1-Moist); Mottles, 5YR58, 2-10% , 15-30mm, Distinct; Mottles, 2.5YR48, 2-10% , 5- |
| | | 15mm, Distinct; Light clay; Moderate grade of structure; Smooth-ped fabric; Dry; Very firm consistence; |
| | | Field pH 9.5 (Raupach); Few, fine (1-2mm) roots; |

Morphological Notes

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| B21t | Sampled ESP |
| C | Kaolinitic clay |

Observation Notes

Site Notes

Warren Road - north of a small lake

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|-------|--------|-------|-----------------|-----------|-------------|----------------------|-----|--------|-----|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0 - 0.11 | 5.86B | | | | | | | | | |
| 0.05 - 0.3 | 6.9B | 84B | 3.11A | 5.12 | 0.37 | 3.98 | | | 12.58D | |
| | 7.7H | | | | | | | | | |
| 0.05 - 0.3 | 6.9B | 84B | 3.11A | 5.12 | 0.37 | 3.98 | | | 12.58D | |
| | 7.7H | | | | | | | | | |
| 0.16 - 0.26 | 6.97B | | | | | | | | | |
| 0.41 - 0.51 | 7.91B | | | | | | | | | |

| 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 - 0.11 | | | | | | | | |
| 0.05 - 0.3 | | | | | | | | |
| 0.05 - 0.3 | | | | | | | | |
| 0.16 - 0.26 | | | | | | | | |
| 0.41 - 0.51 | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|----------------|---|
| 15_NR_CMR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15A1_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15A1_CEC | Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts |
| 15A1_K | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15A1_MG | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment |
| for soluble | salts |
| 15A1_NA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no 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 |
| 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) |