

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0226 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | |
|---|---------------------------------|
| Desc. By: Heather Percy | Locality: |
| Date Desc.: 26/05/92 | Elevation: 278 metres |
| Map Ref.: | Rainfall: No Data |
| Northing/Long.: 6270880 AMG zone: 50 | Runoff: No Data |
| Easting/Lat.: 515840 Datum: AGD84 | Drainage: Poorly drained |

Geology

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|--|--|
| ExposureType: Undisturbed soil core | Conf. Sub. is Parent. Mat.: No Data |
| Geol. Ref.: No Data | Substrate Material: No Data |

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

| | |
|--------------------------------|--------------------------------|
| Morph. Type: Flat | Relief: 40 metres |
| Elem. Type: Valley flat | Slope Category: No Data |
| Slope: 0 % | Aspect: No Data |

Surface Soil Condition Soft

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: Dy5.21 |
| | Great Soil Group: N/A |

Site

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

| | | |
|-----|-------------|---|
| A1 | 0 - 0.4 m | Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure; |
| | | Moist; Loose consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to - |
| A2 | 0.4 - 0.5 m | Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moist; Loose |
| | | consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear change to - |
| B21 | 0.5 - 0.6 m | Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Distinct; Sandy medium clay; |
| | | Moderate grade of structure; Smooth-ped fabric; Moderately moist; Field pH 6 (Raupach); Common, |
| | | medium (2-5mm) roots; Clear change to - |
| B22 | 0.6 - 0.8 m | Light grey (10YR7/1-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Distinct; Medium clay; Moderate |
| | | grade of structure; Smooth-ped fabric; Moist; Field pH 6 (Raupach); Common, coarse (> 5mm) roots; |

Morphological Notes

| | |
|-----|---|
| A1 | Top 20cm dry water repellent deposited sand |
| A2 | Becomes sandy loam above clay |
| B21 | Sampled ESP |
| B22 | Wet at 80cm. Water entered hole |

Observation Notes

Site Notes

Much organic matter deposited on soil surface near fence line

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | Exchangeable | CEC | ECEC | ESP |
|-----------|--------------|--------|----------------------|------|------|-------------------|---------|-------|-----|
| m | | dS/m | Ca | Mg | K | Na Cmol (+)/kg | Acidity | | % |
| 0.5 - 0.6 | 4.9B 5.3H | 78B | 0.83H | 3.67 | 0.07 | 1.24 | 0.18J | 5.81D | |
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| Depth | CaCO3 | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis |
|-----------|-------|-------------------|----------|---------|---------|---------|--------------|------------------------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | GV CS FS Silt |
| 0.5 - 0.6 | | | | | | | | 53I 6.5 |
| 40.5 | | | | | | | | |
| 0.5 - 0.6 | | | | | | | | 53I 6.5 |
| 40.5 | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|------------|---|
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMRR | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15E1_AL | Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts |
| 15E1_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_K | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MG | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MN | Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts |
| 15E1_NA | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15J_BASES | Sum of Bases |
| 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) |
| P10_NR_C | Clay (%) - Not recorded |
| P10_NR_S | Sand (%) - Not recorded |
| P10_NR_Z | Silt (%) - Not recorded |