

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0237 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

| | | | |
|------------------------|----------------------|-------------------|---------------------|
| Desc. By: | Heather Percy | Locality: | |
| Date Desc.: | 17/07/95 | Elevation: | 330 metres |
| Map Ref.: | | Rainfall: | No Data |
| Northing/Long.: | 6254490 AMG zone: 50 | Runoff: | No Data |
| Easting/Lat.: | 595290 Datum: AGD84 | Drainage: | Imperfectly drained |

Geology

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

Landform

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

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

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

| | | |
|--|--------------------------------|--------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Eutrophic Mesonatric Red Sodosol | Principal Profile Form: | Dr3.41 |
| ASC Confidence: | Great Soil Group: | N/A |
| All necessary analytical data are available. | | |

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

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

| | | |
|-----|---------------|---|
| A1 | 0 - 0.08 m | Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy coarse sand; Massive grade of structure; Moist; |
| | | Field pH 6.5 (Raupach); Abrupt, Wavy change to - |
| A2e | 0.08 - 0.12 m | Pale brown (10YR6/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moist; Field pH |
| | | 6.5 (Raupach); Abrupt, Wavy change to - |
| B1 | 0.12 - 0.25 m | Brown (10YR5/3-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Prominent; Sandy light clay; Moderate |
| | | grade of structure; Sandy (grains prominent) fabric; Moderately moist; Field pH 6 (Raupach); Gradual |
| | | change to - |
| B2t | 0.25 - 0.4 m | Red (2.5YR4/6-Moist); Mottles, 10YR54, 2-10% , 5-15mm, Faint; Medium heavy clay; Strong grade of |
| | | structure; Rough-ped fabric; Dry; Very firm consistence; Field pH 6 (Raupach); |
| B3 | 0.4 - 0.45 m | Red (2.5YR4/6-Moist); Mottles, 10YR54, 10-20% , 5-15mm, Distinct; Light clay; Weak grade of |
| | | structure; Rough-ped fabric; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, Granite, |
| | | coarse fragments; Field pH 5.5 (Raupach); |
| C | 0.45 - 0.8 m | Yellowish brown (10YR5/4-Moist); Mottles, 2.5YR46, 10-20% , 30-mm, Distinct; , 10YR82, 10-20% , 30- |
| | | mm, Distinct; Clay loam, sandy; Massive grade of structure; Moderately moist; 20-50%, fine gravelly, 2- |
| | | 6mm, subangular, Granite, coarse fragments; Field pH 5.5 (Raupach); |

Morphological Notes

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|----|-------------------------------|
| B3 | >40% |
| C | Kaolinised weathered granite. |

Observation Notes

Site Notes

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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 - 0.08 | 4.9B 6H | 8B | 1.94H | 0.72 | 0.1 | 0.22 | 0.14J | | 2.98D | |
| 0 - 0.08 | 4.9B 6H | 8B | 1.94H | 0.72 | 0.1 | 0.22 | 0.14J | | 2.98D | |
| 0 - 0.1 | 4.7B | | | | | | | | | |
| 0.12 - 0.32 | 4.8B 6H | 11B | 1.39H | 3.79 | 0.13 | 1.35 | 0.13J | | 6.66D | |
| 0.12 - 0.32 | 4.8B 6H | 11B | 1.39H | 3.79 | 0.13 | 1.35 | 0.13J | | 6.66D | |
| 0.15 - 0.25 | 4.6B | | | | | | | | | |
| 0.4 - 0.5 | 4.3B | | | | | | | | | |
| 0.4 - 0.5 | 4.3B | | | | | | | | | |
| 0.4 - 0.5 | 4.3B | | | | | | | | | |

| 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 - 0.08 | | 1.3D | | | | | | 90I 4.5 |
| 5.5 | | | | | | | | |
| 0 - 0.08 | | 1.3D | | | | | | 90I 4.5 |
| 5.5 | | | | | | | | |
| 0 - 0.1 | | | | | | | | |
| 0.12 - 0.32 | | 0.62D | | | | | | 55I 6.5 |
| 38.5 | | | | | | | | |
| 0.12 - 0.32 | | 0.62D | | | | | | 55I 6.5 |
| 38.5 | | | | | | | | |
| 0.15 - 0.25 | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|-----------|---|
| 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 |
| 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 |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 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 |