

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0201 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 11/07/95
Map Ref.:
Northing/Long.: 6258360 AMG zone: 50
Easting/Lat.: 614035 Datum: AGD84
Locality:
Elevation: 310 metres
Rainfall: No Data
Runoff: No Data
Drainage: Poorly drained

Geology

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

Landform

Rel/Slope Class: No Data
Morph. Type: Flat
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: 5 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: Hypocalcic Subnatric Grey Sodosol
ASC Confidence: All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.13
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

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

Profile Morphology

Ap 0 - 0.08 m Dark grey (2.5Y4/1-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moist; Very weak
 consistence; Field pH 6.5 (Raupach); Abrupt, Wavy change to -
 B21 0.08 - 0.25 m Greyish brown (2.5Y5/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped
 fabric; Moderately moist; Firm consistence; Field pH 9 (Raupach); Clear change to -
 B22 0.25 - 0.55 m Light grey (2.5Y7/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric;
 Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Clear change to -
 B23 0.55 - 0.9 m Light grey (2.5Y7/2-Moist); Mottles, 7.5YR56, 2-10% , 15-30mm, Distinct; Sandy medium clay; Moderate
 grade of structure; Rough-ped fabric; Dry; Firm consistence; Soil matrix is Slightly calcareous; Field pH
 9.5 (Raupach);

Morphological Notes

Ap Slight dispersion.

Observation Notes

Site Notes

Site currently in a cereal crop - "hardsetting grey clay".

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Laboratory Test Results:

| Depth m | pH | 1:5 EC dS/m | Ca | Exchangeable Mg | Cations K | Na Cmol (+)/kg | Exchangeable Acidity | CEC | ECEC | ESP % |
|------------|--------------|----------------|-------|--------------------|--------------|-------------------|-------------------------|-----|-------|----------|
| 0 - 0.08 | 5.4B 6.1H | 51B | 3.12H | 2.81 | 0.16 | 0.86 | <0.02J | | 6.95D | |

| | | | | | | | | | |
|-------------|--------------|-----|-------|------|------|------|--------|-------|--------------|
| 0 - 0.08 | 5.4B 6.1H | 51B | 3.12H | 2.81 | 0.16 | 0.86 | <0.02J | 6.95D | |
| 0 - 0.08 | 5.4B 6.1H | 51B | 3.12H | 2.81 | 0.16 | 0.86 | <0.02J | 6.95D | |
| 0 - 0.1 | 5.4B | | | | | | | | |
| 0.08 - 0.28 | 7.6B 8.4H | 68B | 3.73E | 5.65 | 0.32 | 2.09 | | 16B | 11.79D 13.06 |
| 0.08 - 0.28 | 7.6B 8.4H | 68B | 3.73E | 5.65 | 0.32 | 2.09 | | 16B | 11.79D 13.06 |
| 0.08 - 0.28 | 7.6B 8.4H | 68B | 3.73E | 5.65 | 0.32 | 2.09 | | 16B | 11.79D 13.06 |
| 0.15 - 0.25 | 7.6B | | | | | | | | |
| 0.4 - 0.5 | 8.3B | | | | | | | | |

| Depth | CaCO ₃ | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis | GV | CS | FS | Silt |
|---------------------|-------------------|-------------------|----------|---------|---------|---------|-------------------|------------------------|----|-------|----|------|
| m | % | % | mg/kg | % | % | % | Mg/m ³ | | | | % | |
| 0 - 0.08 12.5 | | 1.41D | | | | | | | | 82.5I | | 5 |
| 0 - 0.08 12.5 | | 1.41D | | | | | | | | 82.5I | | 5 |
| 0 - 0.08 12.5 | | 1.41D | | | | | | | | 82.5I | | 5 |
| 0 - 0.1 | | | | | | | | | | | | |
| 0.08 - 0.28 44.5 | <2C | 0.34D | | | | | | | | 50.5I | | 5 |
| 0.08 - 0.28 44.5 | <2C | 0.34D | | | | | | | | 50.5I | | 5 |
| 0.08 - 0.28 44.5 | <2C | 0.34D | | | | | | | | 50.5I | | 5 |
| 0.15 - 0.25 | | | | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|------------------|---|
| 15_NR_BSa | Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available |
| 15_NR_CMV | Exchangeable bases (Ca/Mg ratio) - Not recorded |
| 15C1_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 | |
| 15E1_AL | Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts |
| 15E1_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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 |
| 15L1_a | Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using |
| Sum of Cations | and measured clay |

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| 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 (CaCO ₃) - 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 |
| 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 |