

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0479 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy **Locality:**
Date Desc.: 20/09/95 **Elevation:** 350 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6278630 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 624680 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:** 20 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
 Hypocalcic Mesonatric Grey Sodosol **Principal Profile Form:** Dy2.13
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 - 0.1 m Dark grey (10YR4/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Dry; Very weak
 consistence; Field pH 6.5 (Raupach); Abrupt, Wavy change to -
 B2k 0.1 - 0.4 m Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
 ped fabric; Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Calcrete, coarse fragments;
 Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Pasture at site includes medics, capeweed, rye grass and barley grass pasture.

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Cations | Na | Exchangeable | CEC | ECEC | ESP |
|-----------|--------------|--------|-------|----------------------|-------------|--------------|-------|--------|-------|
| m | | dS/m | | Mg K | Na | Acidity | | | % |
| | | | | | Cmol (+)/kg | | | | |
| 0 - 0.1 | 5.2B 6.3H | 8B | 2.35H | 1.45 | 0.36 | 0.19 | 0.05J | 4.35D | |
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| 0 - 0.1 | 5.2B 6.3H | 8B | 2.35H | 1.45 | 0.36 | 0.19 | 0.05J | 4.35D | |
| 0.1 - 0.3 | 8.4B 9.3H | 29B | 3.34E | 7.44 | 0.12 | 2.23 | 13B | 13.13D | 17.15 |
| 0.1 - 0.3 | 8.4B 9.3H | 29B | 3.34E | 7.44 | 0.12 | 2.23 | 13B | 13.13D | 17.15 |
| 0.1 - 0.3 | 8.4B | 29B | 3.34E | 7.44 | 0.12 | 2.23 | 13B | 13.13D | 17.15 |

9.3H

| Depth | CaCO ₃ | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt |
|-----------------|-------------------|-------------------|-------------|------------|------------|------------|-------------------|----------------|------------|----------------|------|
| m | % | % | mg/kg | % | % | % | Mg/m ³ | | | % | |
| 0 - 0.1 9.5 | | 1.41D | | | | | | | 86.5I | | 4 |
| 0 - 0.1 9.5 | | 1.41D | | | | | | | 86.5I | | 4 |
| 0 - 0.1 9.5 | | 1.41D | | | | | | | 86.5I | | 4 |
| 0.1 - 0.3 43 | 2C | 0.24D | | | | | | | 54I | | 3 |
| 0.1 - 0.3 43 | 2C | 0.24D | | | | | | | 54I | | 3 |
| 0.1 - 0.3 43 | 2C | 0.24D | | | | | | | 54I | | 3 |

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 |
| 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 |

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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