Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0645 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Melanie Roberts Locality:
Date Desc.: 17/10/96 Elevation:

Date Desc.: 17/10/96 Map Ref.:

 17/10/96
 Elevation:
 290 metres

 Rainfall:
 No Data

 6286550 AMG zone: 50
 Runoff:
 No Data

Northing/Long.: 6286550 AMG zone: 50 Runoff: No Data
Easting/Lat.: 639620 Datum: AGD84 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% Pattern Type: Playa plain

Morph. Type:Lower-slopeRelief:5 metresElem. Type:DuneslopeSlope Category:No DataSlope:2 %Aspect:135 degrees

<u>Surface Soil Condition</u> Loose <u>Erosion</u> (wind); (sheet) (rill) (gully)

Soil Classification

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Hypocalcic Mottled-Mesonatric Grey Sodosol
 Principal Profile Form:
 N/A

 ASC Confidence:
 Great Soil Group:
 N/A

All necessary analytical data are available.

Site Disturbance Extensive clearing, for example poisoning, ringbarking

Vegetation

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

Profile Morphology

A1 0 - 0.12 m Dark greyish brown (10YR4/2-Moist); , 0-0%; Sand; Single grain grade of structure;

Sandy (grains

prominent) fabric; Dry; Loose consistence; Field pH 6.5 (Raupach); Common, very fine

(0-1mm) roots;

Clear, Wavy change to -

A2e 0.12 - 0.6 m

Sandy (grains

 $Light\ brownish\ grey\ (10YR6/2-Moist);\ ,\ 0\text{-}0\%\ ;\ Sand;\ Single\ grain\ grade\ of\ structure;$

prominent) fabric; Moderately moist; Loose consistence; Field pH 7 (Raupach); Sharp,

Wavy change to -

B21 0.6 - 0.8 m medium clay;

1.8 m Light brownish grey (2.5Y6/3-Moist); Mottles, 5YR58, 20-50%, 30-mm, Prominent; Light

Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Strong

consistence; Field

pH 7 (Raupach); Abrupt, Wavy change to -

B22 0.8 - 1.1 m

medium clay;

Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5Y76, 20-50%, 5-15mm, Faint; Light

Massive grade of structure; Earthy fabric; Dry; Firm consistence; Field pH 8 (Raupach);

Clear, Irregular

change to -

B23k 1.1 - 1.3 m

Earthy fabric; Dry;

Light brownish grey (2.5Y6/2-Moist); , 0-0%; Light clay; Massive grade of structure;

Firm consistence; 2-10%, coarse gravelly, 20-60mm, Calcrete, coarse fragments; Soil

matrix is Slightly

calcareous; Field pH 9 (Raupach);

Morphological Notes

A1 pH(H2O)-6.2, pH(CaCl2)-5.4

A2e Medium to coarse sand. Below 40cm sand is moist with few faint reddish mottles.

Observation Notes

Site Notes

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| La | bor | ato | ry | Test | Resu | lts: |
|----|-----|-----|----|------|------|------|
|----|-----|-----|----|------|------|------|

| Laboratory | <u>Laboratory Test Results:</u> | | | | | | | | | | | |
|---------------------------|---------------------------------|---------------|-------------|------------------|--------------|-----------|-------------------------|---------------|----------------------|----------------|--|--|
| Depth | pН | 1:5 EC | | hangeable Vig | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP | | |
| m | | dS/m | ou i | ••g | IX. | Cmol (| | | | % | | |
| 0 - 0.12 | 6.4B 7H | 4B | 4.72A | 0.46 | 0.11 | 0.05 | | | 5.34D | | | |
| 0 - 0.12 | 6.4B 7H | 4B | 4.72A | 0.46 | 0.11 | 0.05 | | | 5.34D | | | |
| 0 - 0.1 | 5.4B 6.2H | 3B | | | | | | | | | | |
| 0 - 0.1 | 5.4B 6.2H | 3B | | | | | | | | | | |
| 0.12 - 0.4 | 6.7B 7.7H | 2B | 1A | 0.12 | 0.05 | 0.03 | | | 1.2D | | | |
| 0.12 - 0.4 | 6.7B 7.7H | 2B | 1A | 0.12 | 0.05 | 0.03 | | | 1.2D | | | |
| 0.4 - 0.6 | 6.8B 7.3H | 1B | 0.32A | 0.08 | 0.02 | 0.03 | | | 0.45D | | | |
| 0.4 - 0.6 | 6.8B 7.3H | 1B | 0.32A | 0.08 | 0.02 | 0.03 | | | 0.45D | | | |
| 0.6 - 0.8 | 6.6B | 14B | 3E | 4.95 | 1.3 | 4.04 | | 18B | 13.29D | 22.44 | | |
| 0.6 - 0.8 | 8.1H 6.6B 8.1H | 14B | 3E | 4.95 | 1.3 | 4.04 | | 18B | 13.29D | 22.44 | | |
| 0.8 - 1.1 | 7.3B 8.8H | 20B | 3.59E | 6.57 | 1.96 | 5.63 | | 21B | 17.75D | 26.81 | | |
| 0.8 - 1.1 | 7.3B 8.8H | 20B | 3.59E | 6.57 | 1.96 | 5.63 | | 21B | 17.75D | 26.81 | | |
| 1.1 - 1.3 | 8.4B 9.4H | 48B | 3.89E | 6.3 | 1.94 | 6.25 | | 20B | 18.38D | 31.25 | | |
| 1.1 - 1.3 | 8.4B 9.4H | 48B | 3.89E | 6.3 | 1.94 | 6.25 | | 20B | 18.38D | 31.25 | | |
| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Tota K | al Bulk Density | Parti GV C | cle Size Ana S FS | alysis Silt | | |
| m | % | Clay % | mg/kg | % | % | % | Mg/m3 | | % | | | |
| 0 - 0.12 2.6 | | 1.15D | | 51B | | | | | | 1.8 | | |
| 0 - 0.12 2.6 | | 1.15D | | 51B | | | | | | 1.8 | | |
| 0 - 0.1 | | 0.43D | | 32B | 0.02 | | | | | | | |
| 0 - 0.1 0.12 - 0.4 | | 0.43D 0.1D | | 32B 12B | 0.02 | 4E | | | | 1.4 | | |
| 1.5 0.12 - 0.4 | | 0.1D | | 12B | | | | | | 1.4 | | |
| 1.5 0.4 - 0.6 | | 0.04D | | 11B | | | | | | 1.3 | | |
| 1 0.4 - 0.6 1 | | 0.04D | | 11B | | | | | | 1.3 | | |
| 0.6 - 0.8 47.6 | <2C | 0.11D | | 31B | | | | | | 2.9 | | |
| 0.6 - 0.8 | <2C | 0.11D | | 31B | | | | | | 2.9 | | |
| 47.6 0.8 - 1.1 | <2C | 0.05D | | 34B | | | | | | 2.9 | | |
| 55.1 0.8 - 1.1 55.1 | <2C | 0.05D | | 34B | | | | | | 2.9 | | |
| 55.1 1.1 - 1.3 52.4 | 4C | 0.05D | | 32B | | | | | | 3.7 | | |
| 52.4 1.1 - 1.3 52.4 | 4C | 0.05D | | 32B | | | | | | 3.7 | | |

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

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P10300_600

P106001000

15 NR CMR Exchangeable bases (Ca/Mg ratio) - Not recorded 15A1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble 15A1_CEC Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment 15A1_K for soluble 15A1 MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble 15A1 NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble 15C1 CA Exchangeable bases (Ca2+,Mg2+,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 Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for 15C1 K soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for 15C1_MG soluble salts 15C1 NA Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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 Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC 15N1_a 15N1_b Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 18A1_NR Bicarbonate-extractable potassium (not recorded) 19B NR Calcium Carbonate (CaCO3) - Not recorded 3_NR 4_NR Electrical conductivity or soluble salts - Not recorded 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 7A1 Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 9A3 9B_NR Bicarbonate-extractable phosphorus (not recorded) 9H1 Anion storage capacity P10 1m2m 1000 to 2000u particle size analysis, (method not recorded) P10_20_75 20 to 75u particle size analysis, (method not recorded) P10_75_106 75 to 106u particle size analysis, (method not recorded) P10_gt2m > 2mm particle size analysis, (method not recorded) P10_NR_C Clay (%) - Not recorded P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated P10_NR_Z Silt (%) - Not recorded P10106_150 106 to 150u particle size analysis, (method not recorded) P10150_180 150 to 180u particle size analysis, (method not recorded) P10180_300 180 to 300u particle size analysis, (method not recorded)

300 to 600u particle size analysis, (method not recorded)

600 to 1000u particle size analysis, (method not recorded)