

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0430 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 12/09/95
Map Ref.:
Northing/Long.: 6253360 AMG zone: 50
Easting/Lat.: 636710 Datum: AGD84
Locality:
Elevation: 300 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: Level plain <9m <1%
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 Mesonatric 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 Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

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

Profile Morphology

Ap 0 - 0.05 m Dark grey (10YR4/1-Moist); , 0-0% ; Clayey sand; Massive grade of structure; Moderately moist; Field
 pH 6.5 (Raupach); Abrupt, Wavy change to -
 B21 0.05 - 0.3 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-
 ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 (Raupach);
 Clear change to -
 B22k 0.3 - 0.6 m Pale yellow (2.5Y8/3-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure;
 Rough-ped
 fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, subrounded, Calcrete,
 coarse fragments;
 Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

Site is an area of gilgai clay soils - west of lakes. ESP of 24.9 in upper B2 - Mesonatric bordering on Hypenatric

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Laboratory Test Results:

Depth m	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
0 - 0.05	5.7B	12B	2.49A	1.84	0.54	0.35			5.22D	
	6.7H									
0 - 0.05	5.7B	12B	2.49A	1.84	0.54	0.35			5.22D	
	6.7H									
0 - 0.05	5.7B	12B	2.49A	1.84	0.54	0.35			5.22D	
	6.7H									

0.05 - 0.25	7.6B 8.7H	25B	3.54E	6.32	0.36	3.74		15B	13.96D	24.93
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0.05 - 0.25	7.6B 8.7H	25B	3.54E	6.32	0.36	3.74		15B	13.96D	24.93

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 - 0.05 8.5		1.65D							86l		5.5
0 - 0.05 8.5		1.65D							86l		5.5
0 - 0.05 8.5		1.65D							86l		5.5
0.05 - 0.25 34.5	<2C	0.31D							60.5l		5
0.05 - 0.25 34.5	<2C	0.31D							60.5l		5
0.05 - 0.25 34.5	<2C	0.31D							60.5l		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
15A1_CA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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

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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