Project Name: Nyabing Kukerin land resourcs survey

Project Code: NYA Site ID: 0398 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy Locality:

Date Desc.:29/08/95Elevation:270 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6240900 AMG zone: 50 Runoff: No Data

Easting/Lat.: 629500 Datum: AGD84 Drainage: Imperfectly drained

<u>Geology</u>

ExposureType:Auger boringConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Landform

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

Morph. Type:Lower-slopeRelief:5 metresElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:0 degrees

<u>Surface Soil Condition</u> Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHypocalcic Mesonatric Yellow SodosolPrincipal Profile Form:Dy2.13ASC Confidence:Great Soil Group:N/A

All necessary analytical data are available. **Site Disturbance** Cultivation. Rainfed

Vegetation

Surface Coarse Fragments 20-50%, medium gravelly, 6-20mm, subrounded, ; 10-20%, , subangular,

Quartz

Profile Morphology

A1 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0%; Clayey sand; Massive grade of structure;

20-50%.

20mm,

medium gravelly, 6-20mm, subangular, , coarse fragments; 10-20%, medium gravelly, 6-

subrounded, Quartz, coarse fragments; Field pH 6 (Raupach); Abrupt, Smooth change to

A3 0.1 - 0.12 m

gravelly, 2-6mm,

Brown (10YR5/3-Moist); , 0-0%; Clayey sand; Massive grade of structure; 10-20%, fine

subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Abrupt, Wavy change to

B21 0.12 - 0.4 m

Rough-ped fabric;

Brownish yellow (10YR6/6-Moist); , 0-0%; Medium clay; Moderate grade of structure;

calcareous; Field pH

Dry; 0-2%, fine gravelly, 2-6mm, Calcrete, coarse fragments; Soil matrix is Slightly

balcarcous, r icia pi i

9 (Raupach); Gradual change to -

B22 0.4 - 0.5 m

Rough-ped fabric;

Olive yellow (2.5Y6/6-Moist); , 0-0%; Light medium clay; Moderate grade of structure;

Dry; 0-2%, fine gravelly, 2-6mm, Calcrete, coarse fragments; Soil matrix is Slightly

calcareous; Field pH

9.5 (Raupach);

Morphological Notes

B22 Stopped by large carbonate nodule.

Observation Notes

Site Notes

Site in lupin crop - drainage line downslope is affected by severe salinity and moderate sheet and rill erosion - "hardsetting grey clay".

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Depth	рН	1:5 EC	Ex Ca	changeat Mg	ole Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		Ū		Cmol	(+)/kg			%
0 - 0.1	4.9B 5.8H	6B	3.06H	0.63	0.22	0.04	0.11J		3.95D	
0 - 0.1	4.9B 5.8H	6B	3.06H	0.63	0.22	0.04	0.11J		3.95D	
0 - 0.1	4.9B 5.8H	6B	3.06H	0.63	0.22	0.04	0.11J		3.95D	
0.12 - 0.32	8.3B 9.1H	21B	4E	4.56	0.74	0.84		11B	10.14D	7.64
0.12 - 0.32	8.3B 9.1H	21B	4E	4.56	0.74	0.84		11B	10.14D	7.64
0.12 - 0.32	8.3B 9.1H	21B	4E	4.56	0.74	0.84		11B	10.14D	7.64

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV F		ize Analysis FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%
0 - 0.1 5.5		1.16D							901	4.5
0 - 0.1 5.5		1.16D							901	4.5
0 - 0.1 5.5		1.16D							901	4.5
0.12 - 0.32 41	<2C	0.2D							55.5I	3.5
0.12 - 0.32 41	<2C	0.2D							55.51	3.5
0.12 - 0.32 41	<2C	0.2D							55.51	3.5

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15C1_CA pretreatment for	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	soluble salts 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_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
15E1_AL 15E1_CA salts 15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES 15L1_a Sum of Cations	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a 15N1_b 19B_NR 3_NR 4_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded 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

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Observation 1

P10_gt2m P10_NR_C P10_NR_S P10_NR_Z > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded