

Project Name: Knox Creek Plain survey (Kununurra)
Project Code: KNX **Site ID:** 0132 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose	Locality:
Date Desc.: 11/06/94	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 8278564 AMG zone: 52	Runoff: No Data
Easting/Lat.: 497824 Datum: AGD84	Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition Firm

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: N/A
	Great Soil Group: N/A

Site No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse

Profile

A1 0 - 0.15 m	Brown (7.5YR4/2-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Platy; Earthy fabric; Dry;
	Weak consistence; Field pH 6.7 (pH meter); Clear change to -
B2t 0.15 - 0.75 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Smooth-
	ped fabric; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions;
	Field pH 6.6 (pH meter); Clear change to -
BC 0.75 - 1.15 m	Yellowish red (5YR4/6-Moist); ; Sandy clay loam; Moderate grade of structure; Earthy fabric; Dry; Firm
	consistence; Field pH 6.8 (pH meter); Gradual change to -
2C1 1.15 - 1.7 m	Yellowish red (5YR4/6-Moist); ; Clayey sand; Moderate grade of structure; Earthy fabric; Moderately
	moist; Firm consistence; Field pH 7 (pH meter); Diffuse change to -
2C2 1.7 - 2 m	Yellowish red (5YR5/8-Moist); ; Clayey sand; Moderate grade of structure; Earthy fabric; Dry; Very weak
	consistence; Field pH 7.1 (pH meter); Clear change to -
2C3 2 - 2.2 m	Reddish yellow (7.5YR6/8-Moist); ; Clayey sand; Moderate grade of structure; Sandy (grains prominent)
	fabric; Moderately moist; Loose consistence; Field pH 7.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Levee remnant. Topsoil is earthy and very porous with roots to .75m and fine roots to 1.75m. Clay skins in layer2 and organic layers/sands in 5 and 6. Layer3 is very compact. No surface cracks! Sampled 0-15;15-45;45-75;75-115;115-170;170-20

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.15	5.8B 6.7H	3B	8.02A	6.67	0.67	0.12			15.48D	
0.15 - 0.45	5.8B 6.5H	4B	9.11A	7.06	0.7	0.13			17D	
0.45 - 0.75	5.8B 6.7H	2B	7.94A	6.58	0.66	0.1			15.28D	
0.75 - 1.15	6B 6.8H	2B	4.16A	3.62	0.37	0.06			8.21D	
1.15 - 1.7	6.2B 6.9H	2B	2.99A	2.57	0.26	0.05			5.87D	
1.7 - 2	6.6B 7.2H	2B	1.4A	1.17	0.11	0.04			2.72D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.15		0.46D		82B	0.033E			4
10.7								
0.15 - 0.45		0.38D		97B	0.037E			5.8
45.7								
0.45 - 0.75		0.24D		100B	0.03E			4.7
44.2								
0.75 - 1.15		0.11D		90B	0.016E			2.8
23.4								
1.15 - 1.7		0.04D		56B	0.008E			1.8
14.3								
1.7 - 2		0.01D		32B	0.005E			1.2
4.7								

Laboratory Analyses Completed for this profile

12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
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	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, 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
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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation

9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
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_NR_C	Clay (%) - Not recorded

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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)
 P10300_600 300 to 600u particle size analysis, (method not recorded)
 P106001000 600 to 1000u particle size analysis, (method not recorded)