

Project Name: Knox Creek Plain survey (Kununurra)
Project Code: KNX **Site ID:** 0129 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Noel Schoknecht	Locality:	
Date Desc.:	11/06/94	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	8286682 AMG zone: 52	Runoff:	No Data
Easting/Lat.:	497351 Datum: AGD84	Drainage:	Poorly 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 Cracking

Erosion:

Soil Classification

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

Site No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse

Profile

A1	0 - 0.07 m	Brown (10YR4/3-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Granular; Rough-ped meter); Clear
		fabric; Dry; Very firm consistence; Soil matrix is Slightly calcareous; Field pH 7.1 (pH change to -
A12	0.07 - 0.3 m	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Dry; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 7.7 (pH meter); Gradual change to -
B21	0.3 - 1.07 m	Brown (10YR4/3-Moist); ; Heavy clay; Strong grade of structure, 100-200 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Field pH 8.4 (pH meter); Diffuse change to -
B22	1.07 - 1.83 m	Brown (7.5YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Common (10 - 20 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 7.9 (pH meter);

Morphological Notes

Observation Notes

Site Notes

South of knox creek 20m E of track, the area appears to be seasonally wet as sedges are prevalent in the understorey. Photos: 5-13. Thin crust on weakly gilgaied prominently cracked PEDAL BROWN VERTOSOL. Heavily grazed and 60% bare.Prominen

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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 - 0.07	6.5B 6.8H	64B	16.83A	17.82	1.66	0.72			37.03D	
0.07 - 0.3	6.9B 7.4H	33B	14.96A	19.11	1.42	1.39			36.88D	
0.3 - 0.65	7.8B 8.5H	48B	14.05E	16.47	0.63	3.94		35B	35.09D	11.26
0.65 - 1.07	7.7B 7.9H	350B	14.66E	17.55	0.75	7.54		37B	40.5D	20.38
1.07 - 1.5	7.7B 7.8H	440B	12.61E	18.59	0.86	7.52		36B	39.58D	20.89
1.5 - 1.83	7.8B 7.9H	489B	10.78E		0.73	9.12		34B		26.82

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.07		0.9D		90B	0.048E						27.9
47.9											
0.07 - 0.3		0.25D		94B	0.023E						19
58.5											
0.3 - 0.65	<2C	0.2D		83B	0.018E						18.8
58.9											
0.65 - 1.07		0.16D		90B	0.015E						15.7
63.5											
1.07 - 1.5		0.11D		100B	0.012E						14.1
60.1											
1.5 - 1.83		0.08D		100B	0.01E						27.7
47.9											

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
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
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	
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 (CaCO3) - Not recorded

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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
5_NR	Water soluble Chloride - Cl(%) - Not recorded
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
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)