Projec	et Name: et Code: ey Name:	Knox Creek Plain survey KNX Site ID: Agriculture Western Aust	0130 C	Observation ID:	1					
<u>Site In</u>	formation									
Desc. E Date Do Map Re Northir Easting	esc.: ef.: ng/Long.:	Christopher Grose 11/06/94 8285204 AMG zone: 52 496457 Datum: AGD84	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data No Data No Data Poorly drained						
<u>Geolo</u> Exposu Geol. R	ireType:	Soil pit No Data	Conf. Sub. is Pare Substrate Materia							
Land I Rel/Slo Morph. Elem. 1 Slope:	pe Class: Type:	Level plain <9m <1% Flat Plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	Plain No Data No Data No Data						
<u>Surfac</u>	e Soil Co	ndition Cracking								
Erosic										
	lassificat									
N/A	ian Soil Cl	assification:	Princ	pping Unit: N/A ncipal Profile Form: N/A eat Soil Group: N/A						
		not specified								
Site		No effective disturbance other	r than grazing by hoof	ed animals						
Vegeta										
Profile	<u>e Coarse</u>									
A11 Rough-p	0 - 0.12 r	n Brown (10YR4/3-Moist); ;	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Granular;							
		fabric; Dry; Very firm cons	fabric; Dry; Very firm consistence; Field pH 6.9 (pH meter); Clear change to -							
A12 blocky;	0.12 - 0.2		Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular							
		Rough-ped fabric; Dry; St	Rough-ped fabric; Dry; Strong consistence; Field pH 7.7 (pH meter); Gradual change to -							
B21 Subangu	0.25 - 0.5 Ilar		Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 100-200 mm,							
meter); G	Gradual	blocky; Smooth-ped fabric	blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; Field pH 8.5 (pH change to -							
B21	0.5 - 1.25	-	Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm,							
Subangu Fine (0 -		blocky; Smooth-ped fabric	blocky; Smooth-ped fabric; Moist; Strong consistence; Very few (0 - 2 %), Calcareous,							
	,,	Nodules; Field pH 8.3 (pH	Nodules; Field pH 8.3 (pH meter); Clear change to -							
B23 Angular I	1.25 - 1.8 blocky;	m Brown (7.5YR4/3-Moist);	; Medium heavy clay;	Moderate grade of s	tructure, 20-50 mm,					
•	-		Smooth-ped fabric; Moist; Very firm consistence; Common (10 - 20 %), Gypseous,							
Coarse (6 - 20 mm),			Crystals; Soil matrix is Slightly calcareous; Field pH 8 (pH meter);							

Morphological Notes **Observation Notes**

Site Notes

Site is gilgaied to 15cm amplitude and spaced 1-2m and has cracks to 50cms. Coarse roots to 50cms and fine to 125cms. V.occasional CaCo3 nodules and gypsum crystals (1-2cms) in layer 5. PEDAL BROWN VERTOSOL Photos1-6. Sampled at 0-12;12-25;

	Project Name:	Knox Cree	k Plain sur	vey (Kununurra)	
Project Code:	KNX	Site ID:		Observation	1
Agency Name:	Agriculture We	estern Austr	alia		

Laboratory Test Results:

-	aberatery	1000110	ouno								
	Depth	рН	1:5 EC	Exe	changeabl Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
	m		dS/m				Cmol (%
	0 - 0.12	6.4B 6.9H	20B	15.09A	19.35	1.63	0.62			36.69D	
	0.12 - 0.25	6.9B 7.8H	19B	18.74A		1.4	2.15				
	0.25 - 0.5	7.2B 8.2H	18B	15.27E	16.86	0.76	2.79		39B	35.68D	7.15
	0.5 - 0.9	7.8B 8.6H	38B	14.84E	17.2	0.72	5.3		40B	38.06D	13.25
	0.9 - 1.25	7.8B 8.3H	110B	13.22E	17.71	0.94	6.94		40B	38.81D	17.35
	1.25 - 1.8	7.7B 7.8H	440B	14.36E	19.17	0.88	8.16		38B	42.57D	21.47
	1.25 - 1.8		440B	14.36E	19.17	0.88	8.16		38B	42.57D)

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	F GV	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.12 65.4		0.67D		98B	0.044E						15.1
0.12 - 0.25 68.8		0.26D		78B	0.022E						15.1
0.25 - 0.5 67.4	<2C	0.23D		79B	0.021E						13.7
0.5 - 0.9 69	<2C	0.28D		75B	0.021E						14.9
0.9 - 1.25 71.5	<2C	0.21D		74B	0.016E						12.7
1.25 - 1.8 63.1		0.08D		54B	0.009E						12.5

Laboratory Analyses Completed for this profile

12A1_ZN 15_NR_BSa 15_NR_CMR 15A1_CA for soluble	DTPA - extractable copper, zinc, manganese and iron 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+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K for soluble	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
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
F	soluble salts
15C1_CEC 15C1_K 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	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

Project Name: Project Code: Agency Name:	KNX Site ID: 0130 Observation	1
3_NR 4_NR 4B1 5_NR 6A1_UC 7A1 9A3 P10_1m2m P10_20_75 P10_75_106 P10_NR_C P10_NR_C P10_NR_Saa P10_NR_Z P10106_150 P10150_180 P10180_300 P10300_600 P106001000	Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Water soluble Chloride - Cl(%) - Not recordede Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded) Clay (%) - Not recorded Sand (%) - Not recorded 300 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)	