Project Name: **North Coastal Plain land resources survey**
Project Code: **NCP** **Site ID:** **0611** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Noel Schoknecht	**Locality:**	
Date Desc.:	26/08/92	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6651622 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	331447 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Existing vertical exposure	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Landform

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Open depression (vale)	**Relief:**	No Data
Elem. Type:	Gully	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Firm

Erosion

Soil Classification

Australian Soil Classification:
Mottled Mesotrophic Black Dermosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dd2.12
Great Soil Group: N/A

Site Disturbance

Complete clearing. Pasture, native or improved, but never cultivated

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.05 m Very dark grey (10YR3/1-Moist); , 10YR32, 10-20% , 0-5mm, Faint; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; Field pH 5.5 (pH meter);

B21 0.05 - 0.19 m Dark grey (10YR4/1-Moist); , 7.5YR32, 10-20% , 0-5mm, Faint; Light clay; Moderate grade of structure; Moist; Weak consistence; Field pH 6 (pH meter); Gradual change to -

B22 0.19 - 0.4 m Very dark greyish brown (10YR3/2-Moist); , 10YR54, 20-50% , 0-5mm, Faint; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Firm consistence; Field pH 6 (pH meter); Gradual change to -

B23 0.4 - 0.85 m Very dark grey (10YR3/1-Moist); , 10YR43, 20-50% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moist; Firm consistence; Field pH 6 (pH meter); Gradual change to -

BC 0.85 - 1.05 m Dark grey (10YR4/1-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

a broad gully which is eroded.Typical heavy valley soil - suitable for red gum or Wandoo. Soil samples taken. 2 photos taken of soil and 2 of the site.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	4.6B 5.4H 5.2H	14B 13.3B	4.44H	1.48	0.82	0.37	0.2J		7.11D	
0 - 0.05	4.6B 5.4H 5.2H	14B 13.3B	4.44H	1.48	0.82	0.37	0.2J		7.11D	
0 - 0.05	4.6B 5.4H 5.2H	14B 13.3B	4.44H	1.48	0.82	0.37	0.2J		7.11D	
0 - 0.1	4.59B 5.3H 4.59B 5.3H									
0 - 0.1	4.59B 5.3H 4.59B 5.3H									
0.05 - 0.19	4.9B 5.8H 5.6H	11B 10.9B	4.52H	2.62	0.4	0.52	0.06J		8.06D	
0.05 - 0.19	4.9B 5.8H 5.6H	11B 10.9B	4.52H	2.62	0.4	0.52	0.06J		8.06D	
0.05 - 0.19	4.9B 5.8H 5.6H	11B 10.9B	4.52H	2.62	0.4	0.52	0.06J		8.06D	
0.15 - 0.25	4.64B 5.37H									
0.19 - 0.4	5B 6.2H 5.9H	8B 7.9B	3.75H	3.94	0.24	0.83	0.04J		8.76D	
0.19 - 0.4	5B 6.2H 5.9H	8B 7.9B	3.75H	3.94	0.24	0.83	0.04J		8.76D	
0.19 - 0.4	5B 6.2H 5.9H	8B 7.9B	3.75H	3.94	0.24	0.83	0.04J		8.76D	
0.4 - 0.85	5.1B 6.1H 5.8H	17B 17.4B	5.04H	5.85	0.23	1.73	0.03J		12.85D	
0.4 - 0.85	5.1B 6.1H 5.8H	17B 17.4B	5.04H	5.85	0.23	1.73	0.03J		12.85D	
0.4 - 0.85	5.1B 6.1H 5.8H	17B 17.4B	5.04H	5.85	0.23	1.73	0.03J		12.85D	
0.4 - 0.5	5.07B 5.93H									
0.85 - 1.05	5.1B 6.1H 5.8H	17B 18B	2.31H	3.29	0.15	1.4	0.03J		7.15D	

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0.85 - 1.05	5.1B 6.1H 5.8H	17B 18B	2.31H	3.29	0.15	1.4	0.03J	7.15D
0.85 - 1.05	5.1B 6.1H 5.8H	17B 18B	2.31H	3.29	0.15	1.4	0.03J	7.15D

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.05		1.77D		140B	0.13E						16.7
14.1											
0 - 0.05		1.77D		140B	0.13E						16.7
14.1											
0 - 0.05		1.77D		140B	0.13E						16.7
14.1											
0 - 0.1											
0 - 0.1											
0.05 - 0.19		0.74D		94B	0.051E						14.5
20.5											
0.05 - 0.19		0.74D		94B	0.051E						14.5
20.5											
0.05 - 0.19		0.74D		94B	0.051E						14.5
20.5											
0.15 - 0.25											
0.19 - 0.4		0.3D		87B	0.029E						9.5
25.5											
0.19 - 0.4		0.3D		87B	0.029E						9.5
25.5											
0.19 - 0.4		0.3D		87B	0.029E						9.5
25.5											
0.4 - 0.85				77B	0.031E						14.4
35.5											
0.4 - 0.85				77B	0.031E						14.4
35.5											
0.4 - 0.85				77B	0.031E						14.4
35.5											
0.4 - 0.5											
0.85 - 1.05				63B	0.014E						4.5
21											
0.85 - 1.05				63B	0.014E						4.5
21											
0.85 - 1.05				63B	0.014E						4.5
21											

Laboratory Analyses Completed for this profile

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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method 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
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity
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_gt2m	> 2mm particle size analysis, (method not recorded)

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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)