

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0876 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Noel Schoknecht **Locality:**
Date Desc.: 10/12/92 **Elevation:** No Data
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6633384 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 329019 Datum: AGD84 **Drainage:** Imperfectly drained

Geology

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

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Plain

Morph. Type: Flat **Relief:** No Data
Elem. Type: Plain **Slope Category:** No Data
Slope: 0 % **Aspect:** No Data

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification: Eutrophic Mottled-Mesonatric Grey Sodosol Very thick Non-gravelly Sandy Clayey Very deep **Mapping Unit:** N/A
Principal Profile Form: Dy5.83
ASC Confidence: Confidence level not specified **Great Soil Group:** N/A

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

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Very weak consistence; Strongly water repellent, "Field pH 6.5 (pH meter); Clear, Wavy change to -

A21 0.1 - 0.35 m Light grey (10YR7/2-Moist); ; Sand; Single grain grade of structure; Moderately moist; Very weak consistence; Field pH 7 (pH meter); Diffuse change to -

A22 0.35 - 0.68 m Very pale brown (10YR7/3-Moist); , 10YR58, 2-10% , 0-5mm, Faint; Clayey sand; Single grain grade of structure; Moist; Very weak consistence; Field pH 9 (pH meter); Sharp, Smooth change to -

B21 0.68 - 0.9 m Light grey (10YR7/1-Moist); , 10YR58, 10-20% , 5-15mm, Prominent; Medium clay; Weak grade of structure, 20-50 mm, Columnar; Rough-ped fabric; Moist; Very firm consistence; Field pH 9 (pH meter); Diffuse change to -

B21 0.9 - 1.25 m Light grey (10YR7/1-Moist); , 10YR58, 20-50% , 5-15mm, Prominent; , 5G42, 2-10% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Very firm consistence; Field pH 9 (pH meter); Diffuse change to -

B23 1.25 - 1.7 m Light grey (10YR7/1-Moist); , 10YR76, 2-10% , 15-30mm, Distinct; Sandy light clay; Moderate grade of structure; Moist; Firm consistence; Field pH 9 (pH meter);

Morphological Notes

A22 bound - smooth and continuous
B21 Red surfaces(columns) 10YR 5/2.

Observation Notes

Site Notes

Moderately deep mottled duplex soil.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.1	5.6B 6.4H 6.3H	22B 21.5B	1.26H	0.64	0.06	0.44	0.03J		2.4D	
0 - 0.1	5.6B 6.4H 6.3H	22B 21.5B	1.26H	0.64	0.06	0.44	0.03J		2.4D	
0 - 0.1	5.6B 6.4H 6.3H	22B 21.5B	1.26H	0.64	0.06	0.44	0.03J		2.4D	
0.1 - 0.35	6.4B 7.1H 6.8H	8B 8.4B	1.08A	0.17	<0.02	0.26			1.52D	
0.1 - 0.35	6.4B 7.1H 6.8H	8B 8.4B	1.08A	0.17	<0.02	0.26			1.52D	
0.1 - 0.35	6.4B 7.1H 6.8H	8B 8.4B	1.08A	0.17	<0.02	0.26			1.52D	
0.35 - 0.68	7.3B 7.9H 8H	33B 30.7B	0.25E	0.27	<0.02	0.16		1B	0.69D	16.00
0.35 - 0.68	7.3B 7.9H 8H	33B 30.7B	0.25E	0.27	<0.02	0.16		1B	0.69D	16.00
0.35 - 0.68	7.3B 7.9H 8H	33B 30.7B	0.25E	0.27	<0.02	0.16		1B	0.69D	16.00
0.68 - 0.9	7.2B 8.1H 7.9H	57B 55.2B	2.44E	3.93	0.3	2.89		11B	9.56D	26.27
0.68 - 0.9	7.2B 8.1H 7.9H	57B 55.2B	2.44E	3.93	0.3	2.89		11B	9.56D	26.27
0.68 - 0.9	7.2B 8.1H 7.9H	57B 55.2B	2.44E	3.93	0.3	2.89		11B	9.56D	26.27
0.9 - 1.25	7.3B 8.3H 8.1H	51B 49.2B	2.7E	4.72	0.34	4.01		11B	11.77D	36.45
0.9 - 1.25	7.3B 8.3H 8.1H	51B 49.2B	2.7E	4.72	0.34	4.01		11B	11.77D	36.45
0.9 - 1.25	7.3B 8.3H 8.1H	51B 49.2B	2.7E	4.72	0.34	4.01		11B	11.77D	36.45
1.25 - 1.7	7.4B 8.2H 8H	60B 58.1B	1.48E	3.11	0.16	1.86		7B	6.61D	26.57
1.25 - 1.7	7.4B 8.2H 8H	60B 58.1B	1.48E	3.11	0.16	1.86		7B	6.61D	26.57

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1.25 - 1.7 7.4B 60B 1.48E 3.11 0.16 1.86 7B 6.61D 26.57
 8.2H 58.1B 8H

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1		0.5D		48B	0.031E				1.7
1.4									
0 - 0.1		0.5D		48B	0.031E				1.7
1.4									
0 - 0.1		0.5D		48B	0.031E				1.7
1.4									
0.1 - 0.35		0.08D		14B	0.003E				1
0.6									
0.1 - 0.35		0.08D		14B	0.003E				1
0.6									
0.1 - 0.35		0.08D		14B	0.003E				1
0.6									
0.35 - 0.68	<2C	0.07D		19B	0.004E				1.2
1.4									
0.35 - 0.68	<2C	0.07D		19B	0.004E				1.2
1.4									
0.35 - 0.68	<2C	0.07D		19B	0.004E				1.2
1.4									
0.68 - 0.9	<2C			25B	0.011E				1.2
48.1									
0.68 - 0.9	<2C			25B	0.011E				1.2
48.1									
0.68 - 0.9	<2C			25B	0.011E				1.2
48.1									
0.9 - 1.25	<2C			22B	0.005E				6.9
17.5									
0.9 - 1.25	<2C			22B	0.005E				6.9
17.5									
0.9 - 1.25	<2C			22B	0.005E				6.9
17.5									
1.25 - 1.7				21B	0.003E				0.1
36.3									
1.25 - 1.7				21B	0.003E				0.1
36.3									
1.25 - 1.7				21B	0.003E				0.1
36.3									

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
 15_NR_CM R 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	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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
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

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15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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
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)
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)