Project Name: **North Coastal Plain land resources survey**
Project Code: **NCP** **Site ID:** **0376** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Noel Schoknecht	**Locality:**	
Date Desc.:	20/05/92	**Elevation:**	40 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6686672 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	319468 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

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

Landform

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

Hardsetting

Erosion

Soil Classification

Australian Soil Classification:
Mesotrophic Subnatric Brown Sodosol Very thick Non-gravelly Sandy Clay-loamy Deep

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: N/A

Site Disturbance

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

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.07 m Brown (10YR4/3-Moist); ; Loamy sand; Moderate grade of structure; Dry; Weak consistence; Field pH 7.5 (pH meter); Clear change to -

A21 0.07 - 0.3 m Brown (10YR5/3-Moist); ; Loamy sand; Moderate grade of structure; Dry; Weak consistence; Field pH 6.5 (pH meter); Gradual change to -

A22 0.3 - 0.55 m Brownish yellow (10YR6/6-Moist); ; Loamy sand; Moderate grade of structure; Dry; Weak consistence; Field pH 6.5 (pH meter); Gradual change to -

A3 0.55 - 0.65 m Yellow (10YR7/6-Moist); ; Sandy loam; Moderate grade of structure; Moist; Very weak consistence; 2-10%, Ironstone, coarse fragments; Field pH 6.5 (pH meter); Clear change to -

B21 0.65 - 0.85 m Yellowish brown (10YR5/8-Moist); , 7.5YR58, 20-50% , 5-15mm, Distinct; Sandy light clay; Moderate grade of structure; Moderately moist; Weak consistence; Field pH 6.5 (pH meter); Sharp, Wavy change to -

B22 0.85 - 1.1 m Light brownish grey (10YR6/2-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; Sandy light clay; Moderate grade of structure, 50-100 mm, Columnar; Rough-ped fabric; Dry; Strong consistence; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Site is at cutting of a drain in the plain. Columnar clay overlies layers of mottled clay (historic) [ESP just sodic]

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.07	5.3B 5.9H 5.8H	33B 33.6B	1.32H	0.74	0.13	0.39	0.12J		2.58D	
0 - 0.07	5.3B 5.9H 5.8H	33B 33.6B	1.32H	0.74	0.13	0.39	0.12J		2.58D	
0 - 0.07	5.3B 5.9H 5.8H	33B 33.6B	1.32H	0.74	0.13	0.39	0.12J		2.58D	
0.07 - 0.3	4.5B 4.7H 4.6H	150B 148B	0.87H	0.83	0.12	0.21	0.36J		2.03D	
0.07 - 0.3	4.5B 4.7H 4.6H	150B 148B	0.87H	0.83	0.12	0.21	0.36J		2.03D	
0.07 - 0.3	4.5B 4.7H 4.6H	150B 148B	0.87H	0.83	0.12	0.21	0.36J		2.03D	
0.3 - 0.55	4.7B 4.9H 4.8H	76B 73.8B	0.74H	0.88	0.12	0.4	0.33J		2.14D	
0.3 - 0.55	4.7B 4.9H 4.8H	76B 73.8B	0.74H	0.88	0.12	0.4	0.33J		2.14D	
0.3 - 0.55	4.7B 4.9H 4.8H	76B 73.8B	0.74H	0.88	0.12	0.4	0.33J		2.14D	
0.55 - 0.65	5.4B 5.5H 5.5H	100B 94.1B	0.96H	1.38	0.16	0.25	0.15J		2.75D	
0.55 - 0.65	5.4B 5.5H 5.5H	100B 94.1B	0.96H	1.38	0.16	0.25	0.15J		2.75D	
0.55 - 0.65	5.4B 5.5H 5.5H	100B 94.1B	0.96H	1.38	0.16	0.25	0.15J		2.75D	
0.65 - 0.85	5.6B 5.7H 5.6H	360B 339B	1.66H	3.13	0.42	0.59	0.04J		5.8D	
0.65 - 0.85	5.6B 5.7H 5.6H	360B 339B	1.66H	3.13	0.42	0.59	0.04J		5.8D	
0.65 - 0.85	5.6B 5.7H 5.6H	360B 339B	1.66H	3.13	0.42	0.59	0.04J		5.8D	
0.85 - 1.1	5.9B 6H 6H	250B 227B	1.69H	4.88	0.56	0.64	0.02J		7.77D	
0.85 - 1.1	5.9B 6H 6H	250B 227B	1.69H	4.88	0.56	0.64	0.02J		7.77D	

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0.85 - 1.1	5.9B 6H 6H	250B 227B	1.69H	4.88	0.56	0.64	0.02J	7.77D

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	GV	Particle Size Analysis CS	FS %	Silt
0 - 0.07 5.3		0.56D		42B	0.039E						0.8
0 - 0.07 5.3		0.56D		42B	0.039E						0.8
0 - 0.07 5.3		0.56D		42B	0.039E						0.8
0.07 - 0.3 10.2		0.23D		28B	0.021E						1.1
0.07 - 0.3 10.2		0.23D		28B	0.021E						1.1
0.07 - 0.3 10.2		0.23D		28B	0.021E						1.1
0.3 - 0.55 13.2		0.14D		35B	0.017E						1.3
0.3 - 0.55 13.2		0.14D		35B	0.017E						1.3
0.3 - 0.55 13.2		0.14D		35B	0.017E						1.3
0.55 - 0.65 17.9				37B	0.016E						1.7
0.55 - 0.65 17.9				37B	0.016E						1.7
0.55 - 0.65 17.9				37B	0.016E						1.7
0.65 - 0.85 28				47B	0.021E						4.4
0.65 - 0.85 28				47B	0.021E						4.4
0.65 - 0.85 28				47B	0.021E						4.4
0.85 - 1.1 30.6				31B	0.013E						2.7
0.85 - 1.1 30.6				31B	0.013E						2.7
0.85 - 1.1 30.6				31B	0.013E						2.7

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)
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)

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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)