Project Name: **North Coastal Plain land resources survey**
Project Code: **NCP** **Site ID:** **0881** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Noel Schoknecht	**Locality:**	
Date Desc.:	11/12/92	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6648166 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	314148 Datum: AGD84	**Drainage:**	Rapidly 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 rises 9-30m 3-10%	**Pattern Type:**	Dunefield
Morph. Type:	Lower-slope	**Relief:**	No Data
Elem. Type:	Duneslope	**Slope Category:**	No Data
Slope:	5 %	**Aspect:**	No Data

Surface Soil Condition

Loose

Erosion

Soil Classification

Australian Soil Classification:
Shelly Rudosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Uc1.11
Great Soil Group: N/A

Site Disturbance

No effective disturbance. Natural

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.25 m Very dark grey (10YR3/1-Moist); ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Soil matrix is Highly calcareous; Field pH 9.5 (pH meter); Diffuse change to -

C 0.25 - 1.5 m Dark grey (10YR4/1-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Soil matrix is Highly calcareous; Field pH 9.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Cutting near base of calcareous dune. Soil sample site. Deep grey calcareous sand. Layer 2 subsampled into bags 2 and 3 (2 is 25-75cm and 3 is 75-150cm).

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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 - 0.25	7.8B 8.8H 8.7H	10B 10.4B	4.45E	0.67	0.02	0.13		3B	5.27D	4.33
0 - 0.25	7.8B 8.8H 8.7H	10B 10.4B	4.45E	0.67	0.02	0.13		3B	5.27D	4.33
0 - 0.25	7.8B 8.8H 8.7H	10B 10.4B	4.45E	0.67	0.02	0.13		3B	5.27D	4.33

0.25 - 0.75	8B 9.1H 9H	7B 7.2B	3.08E	0.56	<0.02	0.07		3B	3.72D	2.33
0.25 - 0.75	8B 9.1H 9H	7B 7.2B	3.08E	0.56	<0.02	0.07		3B	3.72D	2.33
0.25 - 0.75	8B 9.1H 9H	7B 7.2B	3.08E	0.56	<0.02	0.07		3B	3.72D	2.33
0.75 - 1.5	8.1B 9H 9H	7B 6.4B	2.52E	0.38	<0.02	0.05		2B	2.96D	2.50
0.75 - 1.5	8.1B 9H 9H	7B 6.4B	2.52E	0.38	<0.02	0.05		2B	2.96D	2.50
0.75 - 1.5	8.1B 9H 9H	7B 6.4B	2.52E	0.38	<0.02	0.05		2B	2.96D	2.50

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 - 0.25 5	63C	0.95D		380B	0.087E						3.2
0 - 0.25 5	63C	0.95D		380B	0.087E						3.2
0 - 0.25 5	63C	0.95D		380B	0.087E						3.2
0.25 - 0.75 6	66C	0.63D		390B	0.056E						2.4
0.25 - 0.75 6	66C	0.63D		390B	0.056E						2.4
0.25 - 0.75 6	66C	0.63D		390B	0.056E						2.4
0.75 - 1.5 5.8	67C	0.49D		370B	0.042E						1.5
0.75 - 1.5 5.8	67C	0.49D		370B	0.042E						1.5
0.75 - 1.5 5.8	67C	0.49D		370B	0.042E						1.5

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
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

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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
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - 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)