

Project Name: North Coastal Plain land resources survey
Project Code: NCP **Site ID:** 0875 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Noel Schoknecht
Date Desc.: 09/12/92
Map Ref.:
Northing/Long.: 6647267 AMG zone: 50
Easting/Lat.: 331975 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Rapidly drained

Geology

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

Landform

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 6 %
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Loose

Erosion

Soil Classification

Australian Soil Classification:
 Basic Arenic Yellow-Orthic Tenosol
ASC Confidence:
 Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Uc4.21
Great Soil Group: N/A

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.07 m Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence;
 Strongly water repellent, "Field pH 6.5 (pH meter); Clear change to -
 A2 0.07 - 0.26 m Yellowish brown (10YR5/4-Moist); ; Clayey sand; Single grain grade of structure; Dry; Very weak
 consistence; Field pH 6.5 (pH meter); Diffuse, Wavy change to -
 B2 0.26 - 1 m Brownish yellow (10YR6/8-Moist); ; Clayey sand; Moderate grade of structure; Dry; Weak
 consistence; Field pH 6 (pH meter); Diffuse change to -
 B2 1 - 1.7 m Brownish yellow (10YR6/8-Moist); ; Clayey sand; Moderate grade of structure; Dry; Weak
 consistence; Field pH 6.5 (pH meter);

Morphological Notes

A2 Small inclusions of grey brown sand, probably relates to old root channels of previous crops.
 B2 Top of this layer slightly water repellent.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Na Cmol (+)/kg				%
0 - 0.07	6.3B 6.9H 6.4H	3B	1.42A	0.23	0.06	0.02			1.73D	

0 - 0.07	6.3B 6.9H 6.4H	3B	1.42A	0.23	0.06	0.02			1.73D
0 - 0.07	6.3B 6.9H 6.4H	3B	1.42A	0.23	0.06	0.02			1.73D
0.07 - 0.26	5.2B 6.2H 5.7H	2B 2.2B	1.32H	0.28	0.06	0.03	0.06J		1.69D
0.07 - 0.26	5.2B 6.2H 5.7H	2B 2.2B	1.32H	0.28	0.06	0.03	0.06J		1.69D
0.07 - 0.26	5.2B 6.2H 5.7H	2B 2.2B	1.32H	0.28	0.06	0.03	0.06J		1.69D
0.26 - 1	4.6B 5.5H 5.2H	1B 1.1B	0.37H	0.16	0.06	0.03	0.09J		0.62D
0.26 - 1	4.6B 5.5H 5.2H	1B 1.1B	0.37H	0.16	0.06	0.03	0.09J		0.62D
0.26 - 1	4.6B 5.5H 5.2H	1B 1.1B	0.37H	0.16	0.06	0.03	0.09J		0.62D
1 - 1.7	5.3B 5.9H 5.6H	1B 1.1B	0.34H	0.08	0.06	<0.02	0.02J		0.49D
1 - 1.7	5.3B 5.9H 5.6H	1B 1.1B	0.34H	0.08	0.06	<0.02	0.02J		0.49D
1 - 1.7	5.3B 5.9H 5.6H	1B 1.1B	0.34H	0.08	0.06	<0.02	0.02J		0.49D

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt	%
0 - 0.07 2		0.55D		52B	0.034E				0.5
0 - 0.07 2		0.55D		52B	0.034E				0.5
0 - 0.07 2		0.55D		52B	0.034E				0.5
0.07 - 0.26 4.6		0.49D		50B	0.027E				1.3
0.07 - 0.26 4.6		0.49D		50B	0.027E				1.3
0.07 - 0.26 4.6		0.49D		50B	0.027E				1.3
0.26 - 1 7.3		0.11D		31B	0.009E				1.1
0.26 - 1 7.3		0.11D		31B	0.009E				1.1
0.26 - 1 7.3		0.11D		31B	0.009E				1.1
1 - 1.7 9.5				30B	0.005E				1.2

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1 - 1.7	30B	0.005E	1.2
9.5			
1 - 1.7	30B	0.005E	1.2
9.5			

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMd	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K for soluble	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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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
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)
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)
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)