

Project Name: Corrigin land resources survey
Project Code: COR **Site ID:** 0181 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Bill Verboom	Locality:	
Date Desc.:	11/06/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6417600 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	608300 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Land Form

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

Morph. Type:	Simple-slope	Relief:	8 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epibasic Pedal Hypercalcic Calcarosol Medium Non-gravelly Clay-loamy Clayey Deep	Principal Profile Form:	N/A

ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments

Profile

A1	0 - 0.07 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular
		blocky; Moderately moist; AbundantClear, Smooth change to -
A1	0.07 - 0.22 m	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky;
		Moderately moist; Strong consistence; CommonGradual, Smooth change to -
B1k	0.22 - 0.45 m	Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky;
		Moderately moist; Very strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft
		segregations; Soil matrix is Slightly calcareous; FewClear, Smooth change to -
B21k	0.45 - 0.8 m	Brown (7.5YR4/4-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm, Angular blocky;
		Dry; Very firm consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations;
		Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Soil matrix is Very highly
		calcareous; Diffuse, Smooth change to -
B22k	0.8 - 1.2 m	Brown (7.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky;
		Moist; Common (10 - 20 %), Calcareous, , Soft segregations; Soil matrix is Very highly calcareous;

Morphological Notes

A1	
A1	Termites active, varigated in colour clay skin.
B1k	CaCO3 segs subang, 15%, soft 2-3mm. Varigated in colour.
B21k	Varigated colours.
B22k	CaCO3 throughout soil mass. Separated from above layer for chem ana.

Observation Notes

Site Notes

Roadside verge.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.07	6.4B 7.2H	16B	9.12A	4.1	2.26	0.79			16.27D	
0 - 0.07	6.4B 7.2H	16B	9.12A	4.1	2.26	0.79			16.27D	
0 - 0.04 0.1 - 0.2	6.8B 8.2H	6B	9.56E	5.23	1.88	1.58		22B	18.25D	7.18
0.1 - 0.2	6.8B 8.2H	6B	9.56E	5.23	1.88	1.58		22B	18.25D	7.18
0.15 - 0.19 0.3 - 0.4	8.1B 9H	23B	10.93E	7.95	2.32	3.01		27B	24.21D	11.15
0.3 - 0.4	8.1B 9H	23B	10.93E	7.95	2.32	3.01		27B	24.21D	11.15
0.6 - 0.7	8.5B 9.6H	47B	4.66E	8.43	2.68	8.51		26B	24.28D	32.73
0.6 - 0.7	8.5B 9.6H	47B	4.66E	8.43	2.68	8.51		26B	24.28D	32.73
0.6 - 0.64 0.9 - 1	8.6B 9.7H	57B	3.44E	6.66	2.49	10.26		23B	22.85D	44.61
0.9 - 1	8.6B 9.7H	57B	3.44E	6.66	2.49	10.26		23B	22.85D	44.61

Depth m	CaCO ₃ %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m ³	Particle GV CS FS %	Size Analysis Silt
0 - 0.07 17.3		1.53D		130B	0.129E				20.3
0 - 0.07 17.3		1.53D		130B	0.129E				20.3
0 - 0.04 0.1 - 0.2							1.37		
0.1 - 0.2 38.5	<2C	0.51D		80B	0.046E				17.5
0.1 - 0.2 38.5	<2C	0.51D		80B	0.046E				17.5
0.15 - 0.19 0.3 - 0.4							1.23		
0.3 - 0.4 47.3	3C			75B					16
0.3 - 0.4 47.3	3C			75B					16
0.6 - 0.7 46.1	15C			51B					16.2
0.6 - 0.7 46.1	15C			51B					16.2
0.6 - 0.64 0.9 - 1							1.33		
0.9 - 1 49.4	21C			45B					17
0.9 - 1 49.4	21C			45B					17

Laboratory Analyses Completed for this profile

12C1 Calcium chloride extractable boron - manual colour
 15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
 15_NR_CMV 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

15A1_CEC salts
Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts

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15A1_K for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15C1_CA pretreatment for	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using 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
19B_NR	Calcium Carbonate (CaCO ₃) - 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
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)
P3A_NR	Bulk density - Not recorded