

**Project Name:** Corrigin land resources survey  
**Project Code:** COR **Site ID:** 0183 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Bill Verboom  
**Date Desc.:** 13/06/96  
**Map Ref.:**  
**Northing/Long.:** 6416366 AMG zone: 50  
**Easting/Lat.:** 622089 Datum: AGD84  
**Locality:**  
**Elevation:** No Data  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** No Data

#### Geology

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

#### Land Form

**Rel/Slope Class:** Gently undulating rises 9-30m 1-3% **Pattern Type:** Peneplain

**Morph. Type:** Simple-slope  
**Elem. Type:** No Data  
**Slope:** 2 %  
**Relief:** 50 metres  
**Slope Category:** No Data  
**Aspect:** 135 degrees

**Surface Soil Condition** Surface crust

#### Erosion:

#### Soil Classification

**Australian Soil Classification:** Eutrophic Hypernatric Red Sodosol  
**ASC Confidence:** Analytical data are incomplete but reasonable confidence.  
**Mapping Unit:** N/A  
**Principal Profile Form:** N/A  
**Great Soil Group:** N/A

**Site** No effective disturbance. Natural

#### Vegetation:

**Surface Coarse** ; No surface coarse fragments

#### Profile

**A1** 0 - 0.04 m Reddish brown (5YR4/3-Moist); , 0-0% ; Fine sandy loam; Weak grade of structure, 5-10 mm,  
 Subangular blocky; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous,  
 Medium (2 -6 mm), Concretions; ManyClear, Smooth change to -  
**B21** 0.04 - 0.24 m Red (2.5YR4/6-Moist); , 0-0% ; Light clay; Moderate grade of structure, 20-50 mm,  
 Angular blocky; Dry; Very strong consistence; Soil matrix is Slightly calcareous; FewGradual, Smooth change to -  
**B22kr** 0.24 - 0.8 m Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 2-5 mm,  
 Angular blocky; Moderately moist; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments;  
 Common cutans, 10- 50% of ped faces or walls coated; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm),  
 Soft segregations; , Calcareous, Coarse (6 - 20 mm), Concretions; Soil matrix is Slightly  
 calcareous; FewDiffuse, Smooth change to -  
**B23r** 0.8 - 1.2 m Yellowish red (5YR5/6-Moist); , 0-0% ; Heavy clay; Strong grade of structure, 20-50 mm,  
 Angular blocky; Moderately moist; Very strong consistence; Common cutans, 10-50% of ped faces or  
 walls coated; Few

#### Morphological Notes

**B21** Occasional clayskins. Structure breaks down to fine AB.  
**B22kr** 20% CaCO3 segs, both hard and soft 10-20mm---weathering granite and IS  
**B23r** Weathering granite and IS---roots present along clayskin faces

#### Observation Notes

#### Site Notes

In slight depression with sand/gravel above on break of slope 175m away.

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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				Cmol (+)/kg				%
0 - 0.04	7.6B 8.3H	27B	5.42E	4.17	0.56	0.8		12B	10.95D	6.67
0 - 0.04	7.6B 8.3H	27B	5.42E	4.17	0.56	0.8		12B	10.95D	6.67
0 - 0.04	7.6B 8.3H	27B	5.42E	4.17	0.56	0.8		12B	10.95D	6.67
0.1 - 0.2	7.5B 8.2H	85B	3.7E	6.99	0.49	3.94		17B	15.12D	23.18
0.1 - 0.2	7.5B 8.2H	85B	3.7E	6.99	0.49	3.94		17B	15.12D	23.18
0.18 - 0.22										
0.5 - 0.6	8.7B 9.4H	130B	1.13E	6.71	0.66	7.6		15B	16.1D	50.67
0.5 - 0.6	8.7B 9.4H	130B	1.13E	6.71	0.66	7.6		15B	16.1D	50.67
0.76 - 0.8										
0.95 - 1.05	4.9B 5.5H	140B	0.45H	5.59	0.39	8.11	0.14J		14.54D	
0.95 - 1.05	4.9B 5.5H	140B	0.45H	5.59	0.39	8.11	0.14J		14.54D	

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 - 0.04	2C	0.92D		82B	0.055E		1.44	
20.6								
0 - 0.04	2C	0.92D		82B	0.055E		1.44	
20.6								
0 - 0.04	2C	0.92D		82B	0.055E		1.44	
20.6								
0.1 - 0.2	<2C	0.32D		48B	0.028E			
32.6								
0.1 - 0.2	<2C	0.32D		48B	0.028E			
32.6								
0.18 - 0.22							1.48	
0.5 - 0.6	2C			34B				
37.3								
0.5 - 0.6	2C			34B				
37.3								
0.76 - 0.8							1.56	
0.95 - 1.05				35B				
46.3								
0.95 - 1.05				35B				
46.3								

**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  
 15\_NR\_MN Exchangeable bases (Mn++) - meq per 100g of soil - 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

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

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15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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_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
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - 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