

Project Name: Corrigin land resources survey
Project Code: COR **Site ID:** 0180 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Bill Verboom	Locality:	
Date Desc.:	10/05/96	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6418214 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	607801 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
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Morph. Type:	Simple-slope	Relief:	8 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	1 %	Aspect:	225 degrees

Surface Soil Condition Firm

Erosion: (wind); (scald) (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse 0-2%, medium gravelly, 6-20mm, subrounded, Calcrete; No surface coarse fragments

Profile

A1	0 - 0.07 m	Brown (7.5YR4/2-Moist); , 0-0% ; Fine sandy clay loam; Massive grade of structure; Moderately moist;
Medium (2 -6		Very weak consistence; , Calcareous, , Soft segregations; Very few (0 - 2 %), Calcareous, mm), Concretions; Soil matrix is Slightly calcareous; ManyClear, Wavy change to -
A2	0.07 - 0.25 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Fine sandy clay loam; Weak grade of structure, 10-20 mm,
segregations; Few (2 - 10		Subangular blocky; Moderately moist; Firm consistence; , Calcareous, , Soft %, Calcareous, Medium (2 -6 mm), Concretions; Soil matrix is Very highly calcareous;
Many		
B1k	0.25 - 0.5 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Light clay; Moderate grade of structure, 20-50 mm, Subangular
Calcareous,		blocky; Dry; Strong consistence; , Calcareous, , Soft segregations; Many (20 - 50 %), Medium (2 -6 mm), Concretions; Soil matrix is Very highly calcareous; FewAbrupt, Wavy change to -
B2k	0.5 - 0.75 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Strong grade of structure, 5-10 mm, Subangular
100 %),		blocky; Dry; Very strong consistence; , Calcareous, , Soft segregations; Very many (50 - Calcareous, Very coarse (20 - 60 mm), Concretions; Soil matrix is Very highly calcareous;
FewClear,		Smooth change to -
B2k	0.75 - 1.02 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular
60 mm),		blocky; Dry; Strong consistence; Very many (50 - 100 %), Calcareous, Very coarse (20 - Concretions; Soil matrix is Very highly calcareous;
B2km	1.02 - 1.1 m	; Dry; , Calcareous, , ; Calcrete, Massive;

Morphological Notes

A1	Termite activity.
A2	Soft CaCO ₃ segs---termite activity
B1k	CaCO ₃ segs harder than above layer (still soft)---termite activity.
B2k	Soft and hard concretions.
B2k	Seperated from above horizon for lab analysis. Segs harder with depth
B2km	Massive and indurated calcrete

Observation Notes**Site Notes**

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Roadside verge at base of valley floor. Small salt lake 100m to SE. Free CaCO₃ nodules in isolated patches on surface (ie variable distribution).

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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	7.2B 7.8H	14B	18.62A	4.46	2.94	0.22			26.24D	
0 - 0.07	7.2B 7.8H	14B	18.62A	4.46	2.94	0.22			26.24D	
0 - 0.04 0.1 - 0.2	8.1B 8.6H	25B	12.19E	6.37	1.79	1.06		22B	21.41D	4.82
0.1 - 0.2	8.1B 8.6H	25B	12.19E	6.37	1.79	1.06		22B	21.41D	4.82
0.1 - 0.14 0.3 - 0.4	8.2B 9H	31B	7.2E	8.53	1.9	2.15		21B	19.78D	10.24
0.3 - 0.4	8.2B 9H	31B	7.2E	8.53	1.9	2.15		21B	19.78D	10.24
0.5 - 0.54 0.6 - 0.7	8.3B 9.3H	33B	5.28E	7.87	1.97	3.02		20B	18.14D	15.10
0.6 - 0.7	8.3B 9.3H	33B	5.28E	7.87	1.97	3.02		20B	18.14D	15.10
0.8 - 0.9	8.4B 9.6H	44B	3.06E	6.33	1.63	5.15		17B	16.17D	30.29
0.8 - 0.9	8.4B 9.6H	44B	3.06E	6.33	1.63	5.15		17B	16.17D	30.29

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	Size FS	Analysis Silt
0 - 0.07 12.6		1.5D		150B	0.14E					24.9
0 - 0.07 12.6		1.5D		150B	0.14E					24.9
0 - 0.04 0.1 - 0.2	5C	0.56D		77B	0.048E		1.49			24
0.1 - 0.2 23.5	5C	0.56D		77B	0.048E					24
0.1 - 0.14 0.3 - 0.4	9C			69B			1.12			23.4
0.3 - 0.4 27.6	9C			69B						23.4
0.5 - 0.54 0.6 - 0.7	16C			50B			1.23			20.9
0.6 - 0.7 29.8	16C			50B						20.9
0.8 - 0.9 30.5	30C			37B						18.6
0.8 - 0.9 30.5	30C			37B						18.6

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_CMRE Exchangeable bases (Ca/Mg ratio) - Not recorded
 15A1_CAE 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