

Project Name: Corrigin land resources survey
Project Code: COR **Site ID:** 1031 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Paul Galloway
Date Desc.: 08/04/97
Map Ref.:
Northing/Long.: 6459021 AMG zone: 50
Easting/Lat.: 589533 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: No Data
Morph. Type: Flat
Elem. Type: No Data
Slope: 0 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Hardsetting

Erosion: (wind); (sheet)

Soil Classification

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

Site

Vegetation:

Surface Coarse

Profile

A1	0 - 0.14 m	Dark brown (7.5YR3/2-Moist); ; Fine sandy clay loam; Strong grade of structure, 10-20 mm, Subangular
		blocky; Moderately moist; Very weak consistence; FewAbrupt, Smooth change to -
B21	0.14 - 0.3 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky;
		Moderately moist; , Calcareous, , Nodules; Clear, Wavy change to -
B22	0.3 - 0.95 m	Brown (7.5YR4/4-Moist); ; Medium clay; Moderately moist; , Calcareous, Fine (0 - 2 mm), Nodules;
		Diffuse, Wavy change to -
B23k	0.95 - 1.35 m	Strong brown (7.5YR4/6-Moist); , 2.5Y53; Heavy clay; Moderate grade of structure, 20-50 mm,
		Subangular blocky; Moist; Strong consistence; , Calcareous, Extremely coarse (> 60 mm), Nodules;

Morphological Notes

B21 Carbonates in matrix from 14 cm breaking to micro-aggregate
 B22 Old tee roots

Observation Notes

Site Notes

Gravel content by volume

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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 - 0.1	5.5B 6.4H 5.4J	12B	4.16H 3.9F	3.53 3.4	1.04 0.88	0.24 0.2	0.02J	11.3C	8.97D 8.38D	1.77

0 - 0.1	5.5B 6.4H 5.4J	12B	4.16H 3.9F	3.53 3.4	1.04 0.88	0.24 0.2	0.02J	11.3C	8.97D 8.38D	1.77
0.2 - 0.3	8B 8.8H 7.8J	17B	10.97E 20.9F	9.18 10.9	1.25 1.15	1.01 1.35		25B 26.3C	22.41D 34.3D	4.04 5.13
0.2 - 0.3	8B 8.8H 7.8J	17B	10.97E 20.9F	9.18 10.9	1.25 1.15	1.01 1.35		25B 26.3C	22.41D 34.3D	4.04 5.13
0.5 - 0.6	8.7B 9.9H 8.6J	53B	1.7E 14.2F	8.6 11.6	1.84 1.43	7.33 8.08		20B 20.8C	19.47D 35.31D	36.65 38.85
0.5 - 0.6	8.7B 9.9H 8.6J	53B	1.7E 14.2F	8.6 11.6	1.84 1.43	7.33 8.08		20B 20.8C	19.47D 35.31D	36.65 38.85
1 - 1.1	8.7H 8.5J	9.9B	0.76E 6.2F	6.92 10.8	1.91 1.03	11.08 12.34		21B 20.7C	20.67D 30.37D	52.76 59.61
1 - 1.1	8.7H 8.5J	9.9B	0.76E 6.2F	6.92 10.8	1.91 1.03	11.08 12.34		21B 20.7C	20.67D 30.37D	52.76 59.61

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³				%	
0 - 0.1 16.8		0.95D 1A 19		160B							31	6.5 8
0 - 0.1 16.8		0.95D 1A 19		160B							31	6.5 8
0.2 - 0.3 48	5C	0.59D		94B							17	12.3 12
0.2 - 0.3 48	2.5C 53	0.51A		94B							17	12.3 12
0.5 - 0.6 47.3	17C	0.21D		55B							17	13.4 11
0.5 - 0.6 47.3	12.9C 52	0.21A		55B							17	13.4 11
1 - 1.1 48	4C	0.12D		40B							13	8.9 9
1 - 1.1 48	0.07A 54	0.12D		40B							13	8.9 9

Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
14B1	Electrical conductivity/SE
14C1	pH/SE
14H1_CA	Soluble bases/SE (Ca,Mg,K,Na)
14H1_K	Soluble bases/SE (Ca,Mg,K,Na)

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14H1_MG	Soluble bases/SE (Ca,Mg,K,Na)
14H1_NA	Soluble bases/SE (Ca,Mg,K,Na)
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	
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	
15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for
soluble salts;	
	manual leach
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;
manual leach	
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;
manual leach	
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;
manual leach	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	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	Base saturation percentage (BSP)
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 (CaCO3) - 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
4B_C_2.5	pH of soil - pH of 1:2.5 Soil/0.1M CaCl2 suspension
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10_PB_FS	Fine sand (%) - Plummet balance
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)
P10200_500	200 to 500u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P105002000	500 to 2000u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)

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