Project Name: **Corrigin land resources survey**
Project Code: **COR** **Site ID:** **0887** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Henry Smolinski	**Locality:**	
Date Desc.:	28/02/97	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6415694 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	478490 Datum: AGD84	**Drainage:**	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	5 %	**Aspect:**	135 degrees

Surface Soil Condition

Soft

Erosion:

Soil Classification

Australian Soil Classification:
Mesotrophic Mottled-Subnatric Yellow Sodosol

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

A11 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); ; Clayey sand; Weak grade of structure, 2-5 mm, Granular; Moderately moist; 20-50%, fine gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; Field pH 6.5 (Raupach); Gradual change to -

A12 0.1 - 0.35 m Strong brown (7.5YR4/6-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 6.5 (Raupach); Gradual change to -

A2 0.35 - 0.5 m Brownish yellow (10YR6/6-Moist); ; Loamy coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 6.5 (Raupach); Clear change to -

BC 0.5 - 0.8 m Brownish yellow (10YR6/8-Moist); , 2.5YR48, 10-20% , Distinct; Coarse sandy light clay; Massive grade of structure; Weak grade of structure, 200-500 mm, Angular blocky; Moderately moist; 20-50%, fine gravelly, 2-6mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 7 (Raupach);

Morphological Notes

A11	Organic
BC	indurated at base, rare preferred pathways in BC, fine roots in old tree root channels---rare preferred pathways

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5B 5.8H	9B	5.78H	0.84	0.45	0.1	0.3J		7.17D	
0 - 0.1	5B 5.8H	9B	5.78H	0.84	0.45	0.1	0.3J		7.17D	
0 - 0.1	5B 5.8H	9B	5.78H	0.84	0.45	0.1	0.3J		7.17D	
0.1 - 0.35	5B 6.2H	2B	1.9H	0.52	0.19	0.03	0.12J		2.64D	
0.1 - 0.35	5B 6.2H	2B	1.9H	0.52	0.19	0.03	0.12J		2.64D	
0.1 - 0.35	5B 6.2H	2B	1.9H	0.52	0.19	0.03	0.12J		2.64D	
0.35 - 0.5	5.4B 6.6H	2B	1.13H	0.4	0.11	0.04			1.68D	
0.35 - 0.5	5.4B 6.6H	2B	1.13H	0.4	0.11	0.04			1.68D	
0.35 - 0.5	5.4B 6.6H	2B	1.13H	0.4	0.11	0.04			1.68D	
0.5 - 0.8	6B 6.6H	4B	0.9A	1.83	0.12	0.21			3.06D	
0.5 - 0.8	6B 6.6H	4B	0.9A	1.83	0.12	0.21			3.06D	
0.5 - 0.8	6B 6.6H	4B	0.9A	1.83	0.12	0.21			3.06D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 6.4		2.93D		300B	0.192E						7.6
0 - 0.1 6.4		2.93D		300B	0.192E						7.6
0 - 0.1 6.4		2.93D		300B	0.192E						7.6
0.1 - 0.35 9		4.46D		63B	0.032E						8.5
0.1 - 0.35 9		4.46D		63B	0.032E						8.5
0.1 - 0.35 9		4.46D		63B	0.032E						8.5
0.35 - 0.5 6.9		0.15D		41B	0.016E						8.4
0.35 - 0.5 6.9		0.15D		41B	0.016E						8.4
0.35 - 0.5 6.9		0.15D		41B	0.016E						8.4
0.5 - 0.8 29.1		0.07D		31B	0.01E						7.3
0.5 - 0.8 29.1		0.07D		31B	0.01E						7.3
0.5 - 0.8 29.1		0.07D		31B	0.01E						7.3

Laboratory Analyses Completed for this profile

15_NR_AL Aluminium Cation - meq per 100g of soil - Not recorded
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

15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts

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15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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_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
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)