Project Name: **Corrigin land resources survey**
Project Code: **COR** **Site ID:** **0891** **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.:	6415037 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	477504 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:**	Hills
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	8 %	**Aspect:**	180 degrees

Surface Soil Condition

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Ferric Eutrophic Red Chromosol Thick Non-gravelly Sandy Clayey Deep **Principal Profile Form:** N/A
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

Site

Vegetation:

Surface Coarse

Profile

A11 0 - 0.1 m Dark brown (7.5YR3/4-Moist); ; Loamy fine sand; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Field pH 6 (Raupach); Clear change to -

A12c 0.1 - 0.3 m Yellowish red (5YR4/6-Moist); ; Fine sandy clay loam; 20-50 mm, Angular blocky; Rough-ped fabric; 50-90%, medium gravelly, 6-20mm, Ironstone, coarse fragments; , Argillaceous, , Soft segregations; Field pH 6.5 (Raupach); Abrupt, Wavy change to -

B2 0.3 - 0.7 m Dark reddish brown (2.5YR3/4-Moist); ; Light medium clay; Strong grade of structure, 200-500 mm, Angular blocky; Smooth-ped fabric; Field pH 7 (Raupach); Diffuse, Wavy change to -

C 0.7 - 1 m Olive yellow (2.5Y6/6-Moist); , 2.5Y36, 10-20% , Distinct; Light medium clay; Moderate grade of structure, 100-200 mm, Angular blocky; Smooth-ped fabric; Field pH 7 (Raupach);

Morphological Notes

B2 Some _____ ____ ---<3 mm
C some rock at 100cm+

Observation Notes

Site Notes

Spur

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.8B 5.6H 5.1J	13B	8.95H 10F	3.07 2.5	1.35 0.15	0.24 0.61	0.38J	27.1C	13.61D 13.26D	2.25
0 - 0.1	4.8B 5.6H 5.1J	13B	8.95H 10F	3.07 2.5	1.35 0.15	0.24 0.61	0.38J	27.1C	13.61D 13.26D	2.25
0 - 0.1	4.8B 5.6H 5.1J	13B	8.95H 10F	3.07 2.5	1.35 0.15	0.24 0.61	0.38J	27.1C	13.61D 13.26D	2.25
0 - 0.1	4.8B 5.6H 5.1J	13B	8.95H 10F	3.07 2.5	1.35 0.15	0.24 0.61	0.38J	27.1C	13.61D 13.26D	2.25
0.1 - 0.3	5.4B 6.6H 5.7J	3B	6.31H 14.1F	3.15 9.4	0.49 0.1	0.26 0.45	0.04J	33.2C	10.21D 24.05D	1.36
0.1 - 0.3	5.4B 6.6H 5.7J	3B	6.31H 14.1F	3.15 9.4	0.49 0.1	0.26 0.45	0.04J	33.2C	10.21D 24.05D	1.36
0.1 - 0.3	5.4B 6.6H 5.7J	3B	6.31H 14.1F	3.15 9.4	0.49 0.1	0.26 0.45	0.04J	33.2C	10.21D 24.05D	1.36
0.1 - 0.3	5.4B 6.6H 5.7J	3B	6.31H 14.1F	3.15 9.4	0.49 0.1	0.26 0.45	0.04J	33.2C	10.21D 24.05D	1.36
0.3 - 0.7	5.8B 7.1H 5.7J	2B	6.33A 12F	7.24 9.1	0.27 0.08	0.31 0.43		32C	14.15D 21.61D	1.34
0.3 - 0.7	5.8B 7.1H 5.7J	2B	6.33A 12F	7.24 9.1	0.27 0.08	0.31 0.43		32C	14.15D 21.61D	1.34
0.3 - 0.7	5.8B 7.1H 5.7J	2B	6.33A 12F	7.24 9.1	0.27 0.08	0.31 0.43		32C	14.15D 21.61D	1.34
0.3 - 0.7	5.8B 7.1H 5.7J	2B	6.33A 12F	7.24 9.1	0.27 0.08	0.31 0.43		32C	14.15D 21.61D	1.34
0.3 - 0.7	5.8B 7.1H 5.7J	2B	6.33A 12F	7.24 9.1	0.27 0.08	0.31 0.43		32C	14.15D 21.61D	1.34
0.7 - 1	5.7B 7H	4B	10.3A	12.33	0.52	0.86			24.01D	
0.7 - 1	5.7B 7H	4B	10.3A	12.33	0.52	0.86			24.01D	
0.7 - 1	5.7B 7H	4B	10.3A	12.33	0.52	0.86			24.01D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		3.58D		640B	0.267E					24	20.5	12.3

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	4.69A				20
	16				
0 - 0.1	3.58D	640B	0.267E	24	20.5
12.3					
	4.69A				20
	16				
0 - 0.1	3.58D	640B	0.267E	24	20.5
12.3					
	4.69A				20
	16				
0 - 0.1	3.58D	640B	0.267E	24	20.5
12.3					
	4.69A				20
	16				
0.1 - 0.3	0.8D	260B	0.062E	7	11.2
11.5					
	0.95A				20
	58				
0.1 - 0.3	0.8D	260B	0.062E	7	11.2
11.5					
	0.95A				20
	58				
0.1 - 0.3	0.8D	260B	0.062E	7	11.2
11.5					
	0.95A				20
	58				
0.1 - 0.3	0.8D	260B	0.062E	7	11.2
11.5					
	0.95A				20
	58				
0.3 - 0.7	0.12D	60B	0.016E	7	13
46.6					
	0.56A				15
	63				
0.3 - 0.7	0.12D	60B	0.016E	7	13
46.6					
	0.56A				15
	63				
0.3 - 0.7	0.12D	60B	0.016E	7	13
46.6					
	0.56A				15
	63				
0.3 - 0.7	0.12D	60B	0.016E	7	13
46.6					
	0.56A				15
	63				
0.3 - 0.7	0.12D	60B	0.016E	7	13
46.6					
	0.56A				15
	63				
0.7 - 1	0.16D	94B	0.015E		18.2
35.2					
0.7 - 1	0.16D	94B	0.015E		18.2
35.2					
0.7 - 1	0.16D	94B	0.015E		18.2
35.2					

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)
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
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
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
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

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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
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
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
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)