

Project Name: Ravensthorpe land resources survey
Project Code: RAV **Site ID:** 0247 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Brendan Nicholas	Locality:	
Date Desc.:	21/08/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6303091 AMG zone: 51	Runoff:	No Data
Easting/Lat.:	314394 Datum: AGD84	Drainage:	Imperfectly drained

Geology

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

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% **Pattern Type:** Plain

Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1.5 %	Aspect:	45 degrees

Surface Soil Condition Hardsetting

Erosion

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 Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Sandy clay loam; Single grain grade of structure; Sandy (grains prominent) fabric; Field pH 7.6 (pH meter);
0.08 - 0.21 m	Light yellowish brown (10YR6/4-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Soil matrix is Slightly calcareous; Field pH 8.2 (pH meter);
0.21 - 0.6 m	Very pale brown (10YR8/3-Moist); ; Light clay; Moderate grade of structure, Polyhedral; Soil matrix is Slightly calcareous; Field pH 9.2 (pH meter);
0.6 - 0.8 m	Very pale brown (10YR8/3-Moist); ; Light clay; Moderate grade of structure, Polyhedral; Soil matrix is Slightly calcareous; Field pH 9.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Geoff males over track from r246.very minor gilgai relief. Intergrade of scaddan.res1280.

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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 - 0.08	7.3B 8.1H	10B	5.53E	5.12	0.68	0.3		13B	11.63D	2.31
0.08 - 0.21	8.1B 8.9H	24B	7.74E	9.67	0.71	1.56		19B	19.68D	8.21
0.21 - 0.6	8.7B 9.8H	42B	3.32E	10.03	0.79	4.03		16B	18.17D	25.19
0.6 - 0.8	8.9B 10H	87B	1.05E	8.38	0.89	7.21		15B	17.53D	48.07

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 - 0.08 18.3	<2C	1.18D		91B	0.069E			2.6
0.08 - 0.21 36	2C	0.62D		33B	0.037E			2.1
0.21 - 0.6 46.1	42C	0.32D		25B	0.023E			14.7
0.6 - 0.8 36.6	28C	0.1D		18B	0.01E			8.9

Laboratory Analyses Completed for this profile

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
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	
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 (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - 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_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)

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P10300_600 300 to 600u particle size analysis, (method not recorded)
P106001000 600 to 1000u particle size analysis, (method not recorded)