Project Name: **Tambellup Borden land resources survey**
Project Code: **TBO** **Site ID:** **0160** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Rohan Marold	**Locality:**	
Date Desc.:	11/03/97	**Elevation:**	204 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6213450 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	624155 Datum: AGD84	**Drainage:**	Moderately well 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Simple-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition

Loose

Erosion

(wind); (scald) (sheet) (rill) (mass) (gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:
Bleached-Mottled Natric Red Kurosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.21
Great Soil Group: N/A

Site Disturbance

Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments

10-20%, medium gravelly, 6-20mm, subrounded, Gravel; No surface coarse fragments

Profile Morphology

Ap 0 - 0.12 m Dark brown (7.5YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 5.6 (pH meter); Abrupt change to -

A21e 0.12 - 0.14 m Light brownish grey (10YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Field pH 5.3 (pH meter); Clear, Tongued change to -

B21 0.14 - 0.35 m Yellowish red (5YR5/8-Moist); Mottles, 10YR63, 20-50% , 30-mm, Distinct; Light medium clay; Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Dry; Very firm consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Soft segregations; Field pH 6 (pH meter); Clear change to -

B22 0.35 - 0.7 m Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Massive grade of structure; Dry; Very strong consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Soft segregations; Field pH 4.8 (pH meter); Gradual change to -

C 0.7 - 1.8 m Pale yellow (2.5Y7/3-Moist); , 0-0% ; Light clay; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Soft segregations; Field pH 4.5 (pH meter);

Morphological Notes

B21 Almost indurated--very hard
B22 Almost indurated--very hard

Observation Notes

Site Notes

Grey shallow sandy duplex

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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	4.7B 5.5H	12B	3.91H	0.56	0.13	0.33	0.15J		4.93D	
0 - 0.1	4.7B 5.5H	12B	3.91H	0.56	0.13	0.33	0.15J		4.93D	
0.1 - 0.25	4.9B 6.1H	21B	2.01H	5.38	0.28	2.11	0.09J		9.78D	
0.1 - 0.25	4.9B 6.1H	21B	2.01H	5.38	0.28	2.11	0.09J		9.78D	
0.25 - 0.55	4.3B 5.4H	20B	0.32H	1.58	0.14	1.33	0.1J		3.37D	
0.25 - 0.55	4.3B 5.4H	20B	0.32H	1.58	0.14	1.33	0.1J		3.37D	
0.55 - 0.85	4.3B 5.2H 4.3B 5.2H	40B	0.72H 0.72H	4.26 4.26	0.28 0.28	3.92 3.92	0.2J 0.2J		9.18D 9.18D	
0.55 - 0.85	4.3B 5.2H 4.3B 5.2H	40B	0.72H 0.72H	4.26 4.26	0.28 0.28	3.92 3.92	0.2J 0.2J		9.18D 9.18D	
0.55 - 0.85	4.3B 5.2H 4.3B 5.2H	40B	0.72H 0.72H	4.26 4.26	0.28 0.28	3.92 3.92	0.2J 0.2J		9.18D 9.18D	
0.55 - 0.85	4.3B 5.2H 4.3B 5.2H	40B	0.72H 0.72H	4.26 4.26	0.28 0.28	3.92 3.92	0.2J 0.2J		9.18D 9.18D	
0.85 - 1.15	4B 4.7H	72B	0.39H	4.18	0.36	4.85	0.46J		9.78D	
0.85 - 1.15	4B 4.7H	72B	0.39H	4.18	0.36	4.85	0.46J		9.78D	
1.15 - 1.65	3.9B 4.4H	82B	0.24H	2.88	0.29	3.25	0.32J		6.66D	
1.15 - 1.65	3.9B 4.4H	82B	0.24H	2.88	0.29	3.25	0.32J		6.66D	
1.65 - 1.9	3.9B 4.4H	100B	0.18H	2.51	0.29	2.13	0.27J		5.11D	
1.65 - 1.9	3.9B 4.4H	100B	0.18H	2.51	0.29	2.13	0.27J		5.11D	

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		1.85D		140B							3.9	4.2
0 - 0.1		1.85D		140B							3.9	4.2
0.1 - 0.25		0.47D		42B							4.7	33.7
0.1 - 0.25		0.47D		42B							4.7	33.7
0.25 - 0.55		0.07D		27B							3.7	9.7
0.25 - 0.55		0.07D		27B							3.7	

9.7

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0.55 - 0.85	0.17D	29B	2.8	21.8
	0.17D	29B	2.8	21.8
0.55 - 0.85	0.17D	29B	2.8	21.8
	0.17D	29B	2.8	21.8
0.55 - 0.85	0.17D	29B	2.8	21.8
	0.17D	29B	2.8	21.8
0.55 - 0.85	0.17D	29B	2.8	21.8
	0.17D	29B	2.8	21.8
0.85 - 1.15	0.17D	30B	8.4	35.4
0.85 - 1.15	0.17D	30B	8.4	35.4
1.15 - 1.65	0.12D	35B	8	42.4
1.15 - 1.65	0.12D	35B	8	42.4
1.65 - 1.9	0.11D	28B	8.7	32.4
1.65 - 1.9	0.11D	28B	8.7	32.4

Laboratory Analyses Completed for this profile

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
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_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
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
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)