

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 1380 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Angela Stuart-Street	Locality:	
Date Desc.:	25/05/99	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6229381 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	561689 Datum: AGD84	Drainage:	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 plains <9m 1-3% **Pattern Type:** Dunefield

Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Swale	Slope Category:	No Data
Slope:	1 %	Aspect:	270 degrees

Surface Soil Condition Soft

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mottled-Mesonatric Grey Sodosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1p	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Single grain grade of structure;
Sandy (grains		prominent) fabric; Moist; Loose consistence; Abrupt, Wavy change to -
A21e	0.1 - 0.5 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure;
Sandy (grains		prominent) fabric; Moist; Loose consistence; Gradual, Smooth change to -
A22e	0.5 - 0.6 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sand; Single grain grade of structure;
Sandy (grains		prominent) fabric; Moist; Loose consistence; Clear, Smooth change to -
A31	0.6 - 1 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy
(grains		prominent) fabric; Moist; Loose consistence; Gradual, Smooth change to -
A32	1 - 1.1 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy
(grains		prominent) fabric; Moist; Loose consistence; Sharp, Smooth change to -
B21t	1.1 - 1.3 m	Grey (2.5Y6/1-Moist); Mottles, 10YR58, 2-10% , 15-30mm, Faint; Sandy light clay;
Massive grade of		structure; Sandy (grains prominent) fabric; Moist; Weak consistence; Abrupt, Smooth
change to -		
B22	1.3 - 1.7 m	Light grey (2.5Y7/1-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Prominent; Mottles,
2.5YR46, 20-50%		, 15-30mm, Prominent; Sandy light clay; Massive grade of structure; Sandy (grains
prominent) fabric;		Moist; Weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, Ironstone, coarse
fragments;		

Morphological Notes

Observation Notes

Site Notes

slope of dune east of Gordon River. Pit located where site TBO #0820 done.

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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	5.2B 6.2A	3A	1.79H	0.18	0.03	0.03	0.03J		2.03D	
0.1 - 0.5	5B 6.2A	2A	0.29H	0.06	<0.02	0.04	0.02J		0.4D	
0.5 - 0.6	6.3B 7.1A	3A	0.17A	0.05	<0.02	0.09			0.32D	
0.6 - 1	6.6B 7.6A	5A	0.19A	0.03	<0.02	0.18			0.41D	
1 - 1.1	7.4B 8.8A	20A	0.13E	0.16	0.02	0.19		1B	0.5D	19.00
1.1 - 1.3	7.1B 8.6A	14A	1.78E	3.51	0.36	1.68		9B	7.33D	18.67
1.3 - 1.7	7.8B 9A	26A	1.1E	2.34	0.35	2.03		8B	5.82D	25.38

Depth	CaCO ₃	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m ³	GV CS FS	Silt
0 - 0.1		0.54A							1.5
1.2									
0.1 - 0.5		0.08A							0.7
0.4									
0.5 - 0.6		0.05A							0.4
0.4									
0.6 - 1		0.04A							0.5
0.5									
1 - 1.1		0.05A							0.3
0.5									
1.1 - 1.3		0.12A							1.3
29.6									
1.3 - 1.7	<2C	0.06A							6
39.4									

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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

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

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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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B_AL	Aluminium in 1:5 soil/0.01M calcium chloride extract - following Method 4A1
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9A_S14	Total element - P(%) method S14 CCWA
9I1	Phosphate sorption index
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75a	20 to 75u particle size analysis, (arithmetic difference)
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)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)