

Project Name: Tambellup Borden land resources survey
Project Code: TBO **Site ID:** 1381 **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.: 6222215 AMG zone: 50	Runoff: No Data
Easting/Lat.: 566666 Datum: AGD84	Drainage: Poorly drained

Geology

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

Landform

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: No Data
Elem. Type: Scald	Slope Category: No Data
Slope: 1 %	Aspect: No Data

Surface Soil Condition Firm, Hardsetting

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Mesotrophic Sodosolic Salic Hydrosol	Principal Profile Form: N/A
ASC Confidence:	Great Soil Group: N/A
All necessary analytical data are available.	

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); ; Sandy loam; Single grain grade of structure; Sandy (grains)
		prominent) fabric; Moist; Loose consistence; Clear, Wavy change to -
B21	0.1 - 0.15 m	Greyish brown (2.5Y5/3-Moist); ; Sandy medium clay; Weak grade of structure, Columnar; Sandy (grains)
		prominent) fabric; Moist; Weak consistence; Clear, Irregular change to -
B22	0.15 - 0.3 m	Light brownish grey (2.5Y6/3-Moist); ; Sandy medium clay; Weak grade of structure, Columnar; Sandy
		(grains prominent) fabric; Moist; Weak consistence; Clear, Wavy change to -
B23	0.3 - 0.5 m	Light brownish grey (2.5Y6/2-Moist); ; Fine sandy medium clay; Massive grade of structure; Sandy
		(grains prominent) fabric; Moist; Weak consistence; Clear, Irregular change to -
B24	0.5 - 0.9 m	Light brownish grey (2.5Y6/3-Moist); , 10YR68, 2-10% , 5-15mm, Faint; Fine sandy medium clay; Clear, Smooth
		Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; change to -
B25	0.9 - 1 m	Light brownish grey (2.5Y6/3-Moist); , 10YR68, 2-10% , 5-15mm, Faint; Medium clay; Massive grade of
		structure; Moist; Firm consistence; Abrupt, Smooth change to -
B31t	1 - 1.4 m	Grey (2.5Y6/1-Moist); , 10YR68, 10-20% , 15-30mm, Distinct; , 5YR46, 10-20% , 15-30mm, Prominent; 2-6mm,
		Medium clay; Massive grade of structure; Moist; Firm consistence; 10-20%, fine gravelly, subrounded, Ironstone, coarse fragments; Abrupt, Wavy change to -
B32	1.4 - 1.6 m	Grey (2.5Y6/1-Moist); , 10YR68, 10-20% , 15-30mm, Prominent; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Sandy (grains prominent) fabric; Wet; Weak consistence; 2-10%, fine
		gravelly, 2-6mm, subrounded, Ironstone, coarse fragments; Sharp, Smooth change to -

Cm 1.6 - m ;

Morphological Notes

Observation Notes

Site Notes

Pit site on saline scald. Pit located where site TBO #0875 done. Pit completely filled with water after 2 days rain.

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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	6.2B 6.9A	110A	3.63A	4.94	0.39	2.87			11.83D	
0.1 - 0.15	5.8B 6.5A	120A	2.24A	6.38	0.4	4.48			13.5D	
0.15 - 0.3	6.5B 7.4A	91A	1.57A	5.43	0.49	7.53			15.02D	
0.3 - 0.5	6.7B 7.6A	120A	1.1A	5.95	0.63	6.83			14.51D	
0.5 - 0.9	6B 6.6A	140A	0.6A	5.2	0.6	6.88			13.28D	
0.9 - 1	4.6B 5.2A	140A	0.43H	4.4	0.37	6.02	0.04J		11.22D	
1 - 1.4	4.3B 4.7A	190A	0.34H	4.44	0.32	6.06	0.09J		11.16D	
1.4 - 1.6	4.3B 4.6A	240A	0.22H	3.28	0.22	3.25	0.05J		6.97D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		1.9A									6.8
15.7											
0.1 - 0.15		0.59A									5
30.5											
0.15 - 0.3		0.31A									5.3
33.5											
0.3 - 0.5		0.14A									5.9
35.9											
0.5 - 0.9		0.1A									6.1
38.5											
0.9 - 1		0.1A									6.8
39											
1 - 1.4		0.09A									14.3
57.2											
1.4 - 1.6		0.1A									9.1
28.1											

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
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 for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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 Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay

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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
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)