Project Code:	Fambellup Borden land res FBO Site ID: Agriculture Western Austra	0191 Observation ID: 1									
Date Desc.:12Map Ref.:62Northing/Long.:62Easting/Lat.:62	ohan Marold /03/97 04415 AMG zone: 50 9749 Datum: AGD84	Locality:Elevation:188 metresRainfall:No DataRunoff:No DataDrainage:Well drained									
	bil pit o Data	Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data									
Morph. Type: Mi		Pattern Type:RisesRelief:No DataSlope Category:No DataAspect:No Data									
	(scald) (sheet) (rill) (mass) (gu	ully)									
(stbank) Soil Classification	(/										
Australian Soil Class Hypocalcic Subnatric ASC Confidence: Confidence level not	sification: Brown Sodosol specified	Mapping Unit:N/APrincipal Profile Form:Db3.23Great Soil Group:N/A	Db3.23 N/A								
	Complete clearing. Pasture, nat	tive or improved, cultivated at some stage									
Vegetation Surface Coarse Fr	agments 10-20%, , suban	gular, Quartz									
Profile Morpholog											
Ap 0 - 0.1 m Sandy (grains	Dark reddish brown (5YR2.	5/2-Moist); ; Loamy sand; Single grain grade of strue	cture;								
	prominent) fabric; Dry; Loos	prominent) fabric; Dry; Loose consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz,									
coarse	fragments; Field pH 5 (pH n	fragments; Field pH 5 (pH meter); Clear change to -									
A21 0.1 - 0.42 m		Brown (7.5YR4/3-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains									
prominent) fabric;		Dry; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.6 (pH									
meter); Abrupt		change to -									
B21 0.42 - 0.62 n	Dark yellowish brown (10YR4/4-Moist); ; Light medium clay; Moderate grade of structure,										
Subangular	blocky; Smooth-ped fabric; Dry; Very firm consistence; Field pH 8.4 (pH meter); Gradual										
change to -	blocky, Smooth-ped lablic,		Gradual								
C 0.62 - 1.7 m	Brown (7.5YR4/4-Moist); , 10YR78; , 5YR58; Sandy clay loam; Moderate grade of										
structure, Subangular	blocky; Smooth-ped fabric; Dry; Firm consistence; Field pH 8 (pH meter);										
Morphological Not	tes										
Observation Notes											
Site Notes											
Alkaline red deep loar sandy duplex]	ny duplexBrown sandy loam/bi	rown clay/weathering gneiss (lots of mica) [lab data	suggests								
Project Code: 1	Fambellup Borden land res FBO Site ID: Agriculture Western Austra	0191 Observation 1									

Agency Na	anne. P	yncultu		estern Austra	ana					
Laboratory	/ Test Re	<u>esults:</u>								
Depth	рН	1:5 EC	Ca	Exchangeable Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m				-			-			

0 - 0.1	4.7B	16B	5.57H	0.74	0.36	0.21	0.19J		6.88D	
0 - 0.1	5.4H 4.7B 5.4H	16B	5.57H	0.74	0.36	0.21	0.19J		6.88D	
0.1 - 0.25	5B 6.1H	4B	4.99H	0.61	0.17	0.19	0.09J		5.96D	
0.1 - 0.25	5B 6.1H	4B	4.99H	0.61	0.17	0.19	0.09J		5.96D	
0.25 - 0.4	6B 7.4H	4B	2.48A	1.02	0.1	0.36			3.96D	
0.25 - 0.4	6B 7.4H	4B	2.48A	1.02	0.1	0.36			3.96D	
0.4 - 0.65	7.4B 8.5H	31B	6.81E	8.22	0.47	4.69		23B	20.19D	20.39
0.4 - 0.65	7.4B 8.5H	31B	6.81E	8.22	0.47	4.69		23B	20.19D	20.39
0.65 - 1	8.4B 9.4H	57B	8.24E	10.42	0.57	9.15		30B	28.38D	30.50
0.65 - 1	8.4B 9.4H	57B	8.24E	10.42	0.57	9.15		30B	28.38D	30.50
1 - 1.4	7.8B 8.9H	39B	3.75E	5.25	0.32	5.78		16B	15.1D	36.13
1 - 1.4	7.8B 8.9H	39B	3.75E	5.25	0.32	5.78		16B	15.1D	36.13
1.4 - 1.8	5.4B 6.5H	27B	1.63A	2.6	0.17	2.76			7.16D	
1.4 - 1.8	5.4B 6.5H	27B	1.63A	2.6	0.17	2.76			7.16D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 5.2		1.69D		180B						9.5
0 - 0.1 5.2		1.69D		180B						9.5
0.1 - 0.25 6.8		0.66D		89B						12.4
0.1 - 0.25 6.8		0.66D		89B						12.4
0.25 - 0.4 8		0.3D		83B						8.9
0.25 - 0.4 8		0.3D		83B						8.9
0.4 - 0.65 49.4	<2C	0.28D		71B						8.6
49.4 0.4 - 0.65 49.4	<2C	0.28D		71B						8.6
0.65 - 1 43.8	<2C	0.11D		82B						8.5
0.65 - 1 43.8	<2C	0.11D		82B						8.5
1 - 1.4 23.2	<2C	0.08D		160B						5.9
1 - 1.4 23.2	<2C	0.08D		160B						5.9
1.4 - 1.8		0.11D		240B						4.2
10.6 1.4 - 1.8 10.6		0.11D		240B						4.2

Laboratory Analyses Completed for this profile

15_NR_BSa

Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available

Project Name: Project Code: Agency Name:	Tambellup Borden land resources survey TBO Site ID: 0191 Observation 1 Agriculture Western Australia
15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC 15A1_K for soluble	salts Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC 15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG 15E1_MN 15E1_NA 15E1_NA 15J_BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a 15N1_b 19B_NR 3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
4_NR 4B_AL_NR 4B1 6A1_UC 9A3	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1 P10_1m2m P10_20_75 P10_75_106 P10_gt2m P10_NR_C	Anion storage capacity 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded) > 2mm particle size analysis, (method not recorded) Clay (%) - Not recorded
P10_NR_Saa P10_NR_Z P10106_150 P10150_180	Sand (%) - Not recorded arithmetic difference, auto generated Silt (%) - Not recorded 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded)
P10180_300 P10300_600 P106001000	180 to 300u particle size analysis, (method not recorded) 300 to 600u particle size analysis, (method not recorded) 600 to 1000u particle size analysis, (method not recorded)