Project Name: Project Code: Agency Name:	Katanning land resources KLC Site ID: Agriculture Western Austra	0724 C	bservation ID:	1					
Date Desc.: Map Ref.: Northing/Long.: 6	Heather Percy 19/02/93 6329810 AMG zone: 50 536340 Datum: AGD84	Locality: Elevation: Rainfall: Runoff: Drainage:	350 metres No Data No Data Imperfectly draine	ed					
	Soil pit No Data	Conf. Sub. is Pare Substrate Materia							
Land Form Rel/Slope Class:	Undulating low hills 30-90m 3-10%	% Pattern Type:	Low hills						
Elem. Type:	Mid-slope Hillslope 5 % Idition Hardsetting, Har	Relief: Slope Category: Aspect: rdsetting	30 metres No Data 135 degrees						
Erosion: (wind)	; (sheet) (rill) (gully)	g							
ASC Confidence: All necessary analy	ssification: lesonatric Red Sodosol rtical data are available.	Princi Great	ing Unit: pal Profile Form: Soil Group:	N/A Dr3.42 N/A					
<u>Site</u> Vegetation:	Complete clearing. Pasture, na	tive or improved, cult	tivated at some stag	le					
Surface Coarse	No surface coarse	fragments; 2-10%, ,	subangular, Granite	•					
Profile A1 0 - 0.12 m 10-20 mm,	Very dark greyish brown (1	0YR3/2-Moist); , 0-09	% ; Sandy loam; We	ak grade of structure,					
6mm, angular,	Subangular blocky; Rough-	Subangular blocky; Rough-ped fabric; Dry; Weak consistence; 10-20%, fine gravelly, 2-							
Wavy change to -	Quartz, coarse fragments;	Field pH 5.5 (Raupad	ch); Many, fine (1-2n	nm) roots; Clear,					
A21 0.12 - 0.4 ı Dry; Weak	m Dark reddish brown (5YR3/	/4-Moist); , 0-0% ; Sa	ndy loam; Massive	grade of structure;					
6 (Raupach);	consistence; 20-50%, fine	consistence; 20-50%, fine gravelly, 2-6mm, angular, Dolerite, coarse fragments; Field pH							
e (Common, fine (1-2mm) roo	Common, fine (1-2mm) roots; Abrupt, Wavy change to -							
A22e 0.4 - 0.5 m Massive	Light brownish grey (10YR)	6/2-Moist); Mottles, 5	YR53, 0-2% , 0-5mr	m, Faint; Clayey sand;					
angular, Dolerite,	grade of structure; Dry; Ver	ry weak consistence;	20-50%, medium gi	ravelly, 6-20mm,					
change to -	coarse fragments; Field pH	l 6.5 (Raupach); Com	mon, fine (1-2mm)	roots; Sharp, Wavy					
B21t 0.5 - 0.75 I Moderate grade of	m Red (2.5YR4/6-Moist); Mot	tles, 10YR62, 20-50%	% , 15-30mm, Distin	ct; Medium clay;					
medium gravelly,	structure, 50-100 mm, Colu	structure, 50-100 mm, Columnar; Rough-ped fabric; Dry; Strong consistence; 2-10%,							
Gradual, Wavy	6-20mm, rounded, , coarse	6-20mm, rounded, , coarse fragments; Field pH 7 (Raupach); Few, fine (1-2mm) roots;							
	change to -								
B22 0.75 - 1 m grade of	Yellowish red (5YR5/6-Moi	st); Mottles, 10YR53,	10-20% , 0-5mm, F	aint; Light clay; Weak					
fine gravelly, 2-	structure, 20-50 mm, Polyh	edral; Rough-ped fat	oric; Dry; Very firm c	onsistence; 20-50%,					
mm), Nodules;	6mm, subangular, Quartz,	coarse fragments; Fe	ew (2 -						
min, NOUUIES,	Field pH 7.5 (Raupach); Fe	ew, fine (1-2mm) root	ts; Gradual, Wavy cl	hange to -					
C 1 - 2 m	Yellowish brown (10YR5/4-	Moist); Mottles, 7.5Y	R56, 10-20% , 5-15	mm, Faint; Light clay;					

Weak grade of

10 %),

structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; Few (2 -

Ferruginous, Medium (2 -6 mm), Nodules; Field pH 7.5 (Raupach);

Morphological Notes

A1	Also dolerite and granite gravel
A21	Also quartz and granite gravel and stones
A22e	Also quartz and granite gravel and scattered stones
B21t	Black gravel. Weak to strongly domed, parting to 5 PO
С	Weathered dolerite

Observation Notes

Site Notes

30m downslope of granite rock (gneiss?) outcrop. Patches of soil with a loose surface

Project Name:	Katanning land	resources	survey		
Project Code:	KLC	Site ID:	0724	Observation	1
Agency Name:	Agriculture Wes	stern Austr	alia		

Laboratory Test Results:

Depth	рН	1:5 EC	E) Ca	kchangeable	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	n	Cmol (%
0 - 0.12	5B 5.8H	19B	9.43H	1.55	0.44	0.73	0.09J		12.15D	
0 - 0.1	5.2B 5.9H 5.1B	20B								
0 - 0.12	5B 5.8H	19B	9.43H	1.55	0.44	0.73	0.09J		12.15D	
0 - 0.1	5.2B 5.9H 5.1B	20B								
0 - 0.1	5.2B 5.9H 5.1B	20B								
0.12 - 0.4	5.6B 6.8H	4B	5.99A	1.47	0.11	0.36			7.93D	
0.12 - 0.4	5.6B 6.8H	4B	5.99A	1.47	0.11	0.36			7.93D	
0.15 - 0.25 0.4 - 0.5	5.6B 5.8B 7.2H	2B	1.54A	0.87	0.04	0.25			2.7D	
0.4 - 0.5	5.8B 5.8B 7.2H	2B	1.54A	0.87	0.04	0.25			2.7D	
0.4 - 0.5	5.8B 5.8B 7.2H	2B	1.54A	0.87	0.04	0.25			2.7D	
0.5 - 0.75	5.8B 5.9B 7.4H	7B	4.44A	7.49	0.12	2.14			14.19D	
0.5 - 0.75	5.9B 7.4H	7B	4.44A	7.49	0.12	2.14			14.19D	
0.75 - 1	6.2B 7.9H	7B	4.25A	8.22	0.12	2.68			15.27D	
0.75 - 1	6.2B 7.9H	7B	4.25A	8.22	0.12	2.68			15.27D	
1 - 1.4	6.5B 8H	11B	6.49A	13.34	0.16	7.05			27.04D	
1 - 1.4	6.5B 8H	11B	6.49A	13.34	0.16	7.05			27.04D	
1 - 1.4	6.5B 8H	11B	6.49A	13.34	0.16	7.05			27.04D	

Depth

CaCO3 Organic

Avail.

Total

Total Total

Bulk

Particle Size Analysis

		C Clay	Р	Р	Ν	к	Density	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.12 7.2		2.38D		210B	0.192E						9.7
0 - 0.1 0 - 0.12 7.2		2.37D 2.38D		220B 210B	0.193E 0.192E						9.7
0 - 0.1 0 - 0.1		2.37D 2.37D		220B 220B	0.193E 0.193E						

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0.12 - 0.4 11.9		0.48D	95B	0.048E			8.9
0.12 - 0.4 11.9 0.15 - 0.25		0.48D	95B	0.048E			8.9
0.4 - 0.5		0.12D	51B	0.017E			6.4
0.4 - 0.5 5		0.12D	51B	0.017E			6.4
0.4 - 0.5 5		0.12D	51B	0.017E			6.4
0.5 - 0.75 39.1		0.15D	32B	0.02E			9
0.5 - 0.75 39.1		0.15D	32B	0.02E			9
0.75 - 1		0.07D	19B	0.01E			9.2
0.75 - 1 32		0.07D	19B	0.01E			9.2
1 - 1.4 16.1	<2C	0.04D	57B	0.009E			13.7
1 - 1.4 16.1	<2C	0.04D	57B	0.009E			13.7
1 - 1.4 16.1	<2C	0.04D	57B	0.009E			13.7

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_AL	salts
15E1_CA	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts
salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
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 (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 18A1_NR 3_NR 4_NR 4B_AL_NR 4B1 6A1_UC 7A1 9A3 9B_NR 9H1	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Bicarbonate-extractable potassium (not recorded) Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded 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 nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded) Anion storage capacity

P10_1m2m1000 to 2000u particle size analysis, (method not recorded)P10_20_7520 to 75u particle size analysis, (method not recorded)P10_75_10675 to 106u particle size analysis, (method not recorded)P10_gt2m> 2mm particle size analysis, (method not recorded)P10_NR_CClay (%) - Not recordedP10_NR_SaaSand (%) - Not recorded arithmetic difference, auto generatedP10_NR_ZSilt (%) - Not recordedP1016_150106 to 150u particle size analysis, (method not recorded)P10180_300180 to 300u particle size analysis, (method not recorded)P10300_600300 to 600u particle size analysis, (method not recorded)P106001000600 to 1000u particle size analysis, (method not recorded)