Project Nam Project Cod Agency Nan	e: ES	SK Site SK Site SIRO Division of Sc		0	bservatior	n ID: 1	I
<u>Site Informa</u> Desc. By:		Nicholls	Locality	<i>r</i> :			gford:property "Kimlet":.9CH N of s and 2.38CH W of fence with
Date Desc.: Map Ref.: Northing/Lon Easting/Lat.: <u>Geology</u> ExposureTyp Geol. Ref.:	-41.6 e: Soil	090277777778 61666666666667		:	160 metre 630 Slow Poorly drai	ined No Data	a sedimentary rock (unidentified)
Land Form Rel/Slope Cla Morph. Type: Elem. Type: Slope: Surface Soil	ss: No I Ridg Hills 2.5 °	Data je lope %	Pattern Relief:	Type: ategory:	No Data No Data Very gentl 0 degrees		
<u>Erosion:</u> Soil Classifi	cation						
Australian So Mottled Mesot ASC Confide Analytical data	il Classif rophic Bro nce: a are inco ance: C	own Chromosol mplete but reasonable omplete clearing. Past		Princi Great	ng Unit: pal Profile F Soil Group: ivated at son		N/A Db2.12 Lateritic podzolic soil
Profile Morp							
Ap 0-0.	1 m						ure, <2 mm, Granular; Wet; Shale, coarse fragments;
B 0.15	- 0.23 m	Brown (7.5YR4/2-Moist); , 7.5YR44; Clay loam (Heavy); Moderate grade of structure, 2-5 mm, Granular; Wet; Weak consistence; 10-20%, coarse gravelly, 20-60mm, angular platy, Shale, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change					
B 0.23	- 0.33 m	Brown (7.5YR4/4-Moist); , 5YR46; , 10YR21; Heavy clay; Weak grade of structure, 2-5 mm, Granular; Wet; Firm consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -					
B 0.33	- 0.46 m	m Dark brown (10YR3/3-Moist); , 2.5YR36; Heavy clay; Weak grade of structure, 2-5 mm, Granular; Wet; Firm consistence; Slightly plastic; Normal plasticity; 2-10%, Gravel, coarse fragments; Diffuse change to -					
0.46	- 0.61 m	Brown (10YR4/3-Mo consistence; Slightly					cture, 2-5 mm, Granular; Firm
0.61	- 0.74 m	Dark yellowish brown (10YR4/4-Moist); , 2.5YR36; Heavy clay; Weak grade of structure, 2-5 mm, Granular; Moderately plastic; Normal plasticity; 2-10%, Gravel, coarse fragments; Diffuse change to -					
0.76	- 0.89 m						ve grade of structure; ents; Diffuse change to -
1.17	- 1.27 m	Yellowish red (5YR4 change to -	/6-Moist); , 2.5Y5	52; Heavy o	clay; 2-10%,	Gravel,	coarse fragments; Diffuse
1.62	- 1.7 m	Grey (5Y6/1-Moist); coarse fragments; D			lerately plast	tic; Norn	nal plasticity; 2-10%, Gravel,
1.9 -	2.01 m	Light grey (5Y7/2-Mo to -	bist); , 10YR56; H	leavy clay;	Very plastic;	; Norma	I plasticity; Diffuse change

Morphological Notes

Project Name:ESKProject Code:ESKSite ID:Agency Name:CSIRO Division of Soils (TAS)

Observation ID: 1

Observation Notes THROUGH PIT OCCASIONAL PIECES OF PLATY LATERITE TO 60MM:

Site Notes

LONGFORD

Project Name:	ESK				
Project Code:	ESK	Site ID:	H196	Observation ID:	1
Agency Name:	CSIRO Div	vision of Soils (T	AS)		

Laboratory Test Results:

Depth	рН	1:5 EC	Exc a	:hangeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		ing	n		(+)/kg			%
0 - 0.1	6.3A	0.152A	18.2H	1.4	0.35	0.46	6H 13.4E		33.8B	
0.15 - 0.23	6.3A	0.048A								
0.23 - 0.33	6.8A	0.051A	11.5H	5.8	0.1	0.32	3H 9.4E		27.1B	
0.33 - 0.46	6.9A	0.045A								
0.46 - 0.61 0.61 - 0.74	7A 7A	0.042A 0.036A	9.9H	10.2	0.11	0.57	7.8E		28.6B	
0.76 - 0.89	6.1A	0.039A	8H	9.6	0.11	0.84	4H 9.1E		27.7B	
1.17 - 1.27	5.4A	0.051A								
1.62 - 1.7	5.3A	0.045A	1.1H	4.8	0.14	0.81	16H 21E		27.9B	

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		rticle		nalysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		4.1D		0.076D	0.313A			9	15B	19	21	36
0.15 - 0.23 0.23 - 0.33		1.8D 1.4D		0.046D 0.031D	0.135A 0.114A	1		3	8B	7	10	74
0.33 - 0.46 0.46 - 0.61		0.97D 0.75D		0.019D	0.087A 0.069A			0	4D	3	6	87
0.61 - 0.74 0.76 - 0.89 1.17 - 1.27								18	2D	4	6	86
1.62 - 1.7								3	5D	5	7	82

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g/	ˈɡ- m3/m3	3			mm/h	mm/h

0 - 0.1 0.15 - 0.23 0.23 - 0.33 0.23 - 0.33 0.33 - 0.46 0.46 - 0.61 0.61 - 0.74 0.76 - 0.89 1.17 - 1.27 1.62 - 1.7

Project Name:	ESK		
Project Code:	ESK	Site ID:	H196
Agency Name:	CSIRO Div	ision of Soils (T	'AS)

Observation ID: 1

Laboratory Analyses Completed for this profile

15E1_CA 15E1_K 15E1_MG 15E1_NA 15G_C_H1 15G1_H 15J_H 2 LOI	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 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, 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, 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, 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, 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, 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 bydrogen - meq per 100g of soil - Hydrogen By back titration of A or B Hydrogen Cation - meq per 100g of soil - 1M KCI Exch. Acidity By titration to pH 8.0 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) Loss on Ignition (%)
2_LOI 2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette