Project Name Project Code: Agency Name	: EC	bil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed085	Observatio	on ID:	1
Site Informati Desc. By: Date Desc.: Map Ref.: Northing/Long. Easting/Lat.:	M.E. 07/04 Shee : 6667	Heape 4/86 et No. : 8837_N 1:50000 7300 AMG zone: 55 200 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Lewis J. (308 metre No Data No Data No Data		Myall Valley West
<u>Geology</u> ExposureType: Geol. Ref.:	Undi No [isturbed soil core Data	Conf. Sub. is Pa Substrate Mater		No Data No Data	
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope: Surface Soil (No E Hills 0 %	Data lope	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gent 90 degree		d
Erosion:	Jonani	ion (ory). Thin, trampied				
Soil Classifica						N1/A
Australian Soil N/A	Classif	ication:		ping Unit: cipal Profile	Form:	N/A Dy2.53
ASC Confidence		ecified	Grea	at Soil Group):	Solodic soil
<u>Site Disturbar</u>		omplete clearing. Pasture, na	tive or improved, cu	ultivated at so	ome stag	e
Vegetation: Surface Coars	se Frag	gments:				
Profile Morph						
A1 0 - 0.13	3 m	Brown (7.5YR4/2-Moist); D structure; Earthy fabric; Co Moderately moist; Very we Sharp, Wavy change to -	mmon (1-5 per 100	mm2) Very fi	ne (0.07	
A21 0.13 - ().25 m	Brown (10YR5/3-Moist); , 7 Distinct; Loamy sand; Mass Fine (1-2mm) macropores, Manganiferous, Medium (2	sive grade of structu Moderately moist; '	ure; Earthy fa Very weak co	bric; Cor	mmon (1-5 per 100mm2) æ; Very few (0 - 2 %),
A22 0.25 - ().41 m	Greyish brown (10YR5/2-M Distinct; Sandy loam; Mas Fine (1-2mm) macropores, Manganiferous, Fine (0 - 2	sive grade of struct Moderately moist;	ture; Earthy fa Very weak co	abric; Co	e; Very few (0 - 2 %),
B2 0.41 - ().8 m	Greyish brown (10YR5/2-M 15mm, Distinct; Fine sandy grade of structure, 10-20 m crack; Common (1-5 per 10 consistence; Field pH 8 (pł	/ light clay; Weak gr nm, Angular blocky; 00mm2) Fine (1-2m	rade of struct Earthy fabric m) macropor	ure, 50-1 ; Rough- es, Mode	00 mm, Prismatic; Weak ped fabric; Fine, (0 - 5) mm
C 0.8 - 1.	61 m	Brown (10YR5/3-Moist); , N Sandy loam; Massive grad 100mm2) Very fine (0.075- (pH meter); Abrupt, Smoot	e of structure; Earth 1mm) macropores,	ny fabric; Fine	e, (0 - 5) I	0-2% , 0-5mm, Distinct; mm crack; Few (<1 per rong consistence; Field pH 8
2B2 1.61 - 2	2.7 m	Yellowish brown (10YR5/4 15mm, Distinct; Light clay; fabric; Fine, (0 - 5) mm cra moist; Very strong consiste Field pH 8.5 (pH meter); Al	Weak grade of stru ck; Few (<1 per 100 ence; Very few (0 - 2	cture, 50-100 0mm2) Fine (2 %), Calcare) mm, Su 1-2mm) i	ibangular blocky; Earthy macropores, Moderately
Morphologica	I Note		o thin (2.20m) auto	oo horizon	wich and	with forget litter but
A1		There is some evidence of a it is too disturbed to sample becomes progressively more	- so we include it w	vith the 0-10 l	ayer. Fro	

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A21	terms. From 34-40cm there are 6 or 8 horizontal bands of organic-stained sand (each 1-
	2mm thick). Cause may be rising/falling water table (?). At 270cm the clayey sand
	changes abruptly to mottled grey clay which may be a buried B layer. Un
A22	sure whether the rock comp 2 is correct, i.e. whether this is in situ or colluvium.

Observation Notes Parent Rock: alluvial sediment, mixed texture, non-calcareous, sandstone Pilliga Sandstone

Site Notes

Slope <1/2. Erosion gully 50m north of site. Contour bank near site. Check landform, topography, ? donga.

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Laboratory Test Results:

Depth	рН	1:5 EC	E	changeabl	e Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.02	6.94A	0.048A	2.27B	0.97	0.52	0.06				
0 - 0.1	5.83A	0.175A	1.64B	0.61	0.45	0.04				
0.13 - 0.2	5.96A	0.035A	0.44B	0.29	0.23	<0.01				
0.3 - 0.4	6.68A	0.037A	3.01B	0.56	0.24	<0.01				
0.7 - 0.8	7.9A	0.03A	8.36B	6.6	0.56	0.36				
1.2 - 1.3	8.92A	0.033A	3.46B	7.63	0.56	2.63				
2.5 - 2.6	9.11A	9.100001 02A	E-3.05B	5.52	0.33	5.07				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02	<0.1B	1.34C									6.2	7.5
0 - 0.1	<0.1B	1.5C	31.7J								9.6	9.4
0.13 - 0.2	<0.1B	0.29C	19J								9.6	6.8
0.3 - 0.4	<0.1B	0.37C	1J								11.2	9.5
0.7 - 0.8	<0.1B	0.08C	<1J								8	32
1.2 - 1.3	<0.1B	0.04C	1.7J								5.4	26.7
2.5 - 2.6	<0.1B	0.03C	10.9J								2.7	27.1

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar	5 Bar	15 Bar	mm/h	mm/h
				9	g morne					
0 - 0.02										
0 - 0.1										
040 00										

0 - 0.1 0.13 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension

- Chloride 1:5 soil/water extract, automated colour 5A2
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z