Project I Project (Agency	Code: E	oil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed079 C	Observatio	n ID:	1
Site Info	rmation					
Desc. By:		. Ward	Locality:	K.G.(Ken) Walker	Westholme
Date Des		01/87	Elevation:	220 metre	, es	
Map Ref.:	: She	et No. : 8837_N 1:50000	Rainfall:	No Data		
Northing/		7800 AMG zone: 55	Runoff:	No Data		
Easting/L	.at.: 763	700 Datum: AGD66	Drainage:	No Data		
<u>Geology</u> Exposure Geol. Ref	Type: Und	disturbed soil core Data	Conf. Sub. is Pare Substrate Materia		No Data No Data	
		Data	Substrate Materia		NO Data	2
Land Fo		Data	Dettern Turner		:	
Rel/Slope		Data	Pattern Type:	Flood pla	in	
Morph. Ty Elem. Typ		Data Data	Relief: Slope Category:	No Data Level		
Slope:	pe. NO 0%		Aspect:	No Data		
-			Азресс.	NO Data		
		tion (dry): Surface crust				
Erosion:						
Soil Clas	<u>ssification</u>					
Australia	n Soil Classi	fication:	Марр	ing Unit:		N/A
N/A				ipal Profile	Form:	Ug5.14
ASC Con	fidence			Soil Group		Brown clay
	ce level not s	pecified	Great			Brown oldy
		Complete clearing. Pasture, na	tive or improved cul	tivated at sc	me stad	<u>م</u>
Vegetati		somploto cloanng. Pactaro, na			ino olag	.
		amonto				
	Coarse Fra					
	lorphology					
A11 (0 - 0.1 m	Dark brown (7.5YR3/2-Mois structure, 20-50 mm, Prism Smooth-ped fabric; Fine, (0 macropores, Moderately m Quartz, coarse fragments;	natic; Moderate grade) - 5) mm crack; Few oist; Strong consiste	e of structure (<1 per 100 nce; 0-2%, f	e, 10-20 0mm2) V ine grave	mm, Subangular blocky; ery fine (0.075-1mm) elly, 2-6mm, subangular,
A12 (0.1 - 0.2 m		Fine, (0 - 5) mm cra noist; Strong consiste	ck; Few (<1 ence; 0-2%,	per 100r fine grav	
2A11 (0.2 - 0.55 m	Very dark brown (10YR2/2 5mm, Faint; Light medium ped fabric; Fine, (0 - 5) mm Moderately moist; Very stro Nodules; Field pH 9 (pH m	clay; Strong grade of a crack; Few (<1 per ong consistence; Ver	f structure, 2 100mm2) V y few (0 - 2	20-50 mn ery fine (%), Calc	n, Angular blocky; Smooth- 0.075-1mm) macropores,
2A12 (0.55 - 0.9 m	Brown (7.5YR4/2-Moist); , Light medium clay; Modera 20-50 mm, Angular blocky Very fine (0.075-1mm) mac gravelly, 2-6mm, subangula (0 - 2 mm), Nodules; Field change to -	te grade of structure v; Smooth-ped fabric; cropores, Moderately ar, Quartz, coarse fra	, 50-100 mn ; Fine, (0 - 5 ; moist; Very agments; Ve	n, Prisma) mm cra v strong c ry few (0	atic; Weak grade of structure, ack; Few (<1 per 100mm2) consistence; 0-2%, fine - 2 %), Calcareous, Fine
	0.9 - 1.16 m	5-15mm, Distinct; Light me Smooth-ped fabric; Fine, (C macropores, Moderately m subrounded, Consolidated Medium (2 -6 mm), Soft se Crystals; Field pH 8.5 (pH r	dium clay; Moderate 0 - 5) mm crack; Few oist; Very strong con rock (unidentified), c gregations; Very few	grade of str (<1 per 100 sistence; 2- oarse fragm (0 - 2 %), G	ucture, 5 mm2) V 10%, coa ents; Fe Sypseous	arse gravelly, 20-60mm, w (2 - 10 %), Calcareous,
<u>Morphol</u> A11	logical Note	<u>es</u> The carbonates at 85cm als	so occur as soft sear	enations A	stone line	e at 103-105cm

A11

The carbonates at 85cm also occur as soft segregations. A stone line at 103-105cm includes basalt, quartz and sandstone. Also at 116cm there appear to be more stones, as casts of stones may be observed. Soil too developed to be a floodplain

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed079Observation ID:1Agency Name:CSIRO Division of Soils (QLD)

A12

. Possibly equals red terrace Q but note heavy lime impregnation (plus gypsum). Burial shown by sandy textured top and inwashed sand below.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, parna on third fan

Site Notes

Hole stopped at 116cm by waterworn gravels.. Hole on side of creek in cleared strip. (Bearing 18 to Westholme).

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca		ble Cations K	s Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	ĸ	Cmol (%
0 - 0.02	7.75A	0.149A	A 22.93B	5.72	0.98999 99	0.26				
0 - 0.1	7.51A	0.013A	A 15.73B	3.48	0.25	0.57				
0.1 - 0.2	8.31A	0.109A	A 20.9B	5.34	0.21	1.23				
0.3 - 0.4	9.42A	0.215A	15.33B	6.49	0.17	3.22				
0.7 - 0.8	9.25A	0.688A	A 13.39B	8.77	0.22	7.93				
1.1 - 1.16	8.82A	1.042	13.66B	8.26	0.32	8.19000 1				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				Analysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02	<0.1B	1.64C									11	36
0 - 0.1	<0.1B	0.82C	9.5J								10.3	26.1
0.1 - 0.2	<0.1B	0.75C	ЗJ								10.9	31.3
0.3 - 0.4	3.7B	0.61C	1.4J								9.7	30.8
0.7 - 0.8	4B	0.33C	<1J								13.2	36.3
1.1 - 1.16	2.3B	0.16C	1.8J								18.2	36.1

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/	/g - m3/m3	3			mm/h	mm/h

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.1 - 1.16

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

P10_CF_Z Silt (%) - Coventry and Fett pipette method