Surface Soil Condition (drv):       Hardsetting, Poached         Erosion:       Soil Classification         Australian Soil Classification:       Mapping Unit:       N/A         NA       Principal Profile Form:       Ug5.4         ASC Confidence:       Great Soil Group:       Grey Clay         Confidence evel not specified       Site Disturbance:       Complete clearing. Pasture, native or improved, cultivated at some stage         Vegetation:       Surface Coarse Fragments:       Profile Morpholoay         M1       0 - 0.03 m       Dark greyish brown (10YR4/2-Moist); Grey (10YR6/1-Dry); : Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots;         A13       0.1 - 0.25 m       Black (10YR2/1-Moist); .10YR61, 0-2%, .0-5mm, Distinct; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.2 (pH meter); Few, very fine (0.1mm) roots;         A14       0.25 - 0.6 m       Very dark grey (10YR3/1-Moist); .10YR61, 0-2%, .5-15mm, Distinct; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist;         A14       0.25 - 0.6 m       Very dark grey (10YR3/1-Moist); .10YR62, 0-2%, .5-15mm, Distinct; Medium clay: Moderate grade of structure, 10-20 mm, Subang	Projec	ct Name: ct Code: cy Name:	Soil Studies in t EDGEROI CSIRO Division	Site ID:	ed041	Observatio	on ID: 🥤	1
Exposure Type:         Undisturbed soil core         Corf. Sub. is Parent. Mat:         No Data           Sol. Ref:         No Data         Substrate Material:         No Data           Rel/Siope Class:         No Data         Relief:         No Data           Rel/Siope Class:         No Data         Relief:         No Data           Siope:         1%         Aspect:         325 degrees           Sufface Soil Condition (dry):         Hardsetting, Poached         Torsion:         N/A           Soil Classification         Aspect:         325 degrees         Stope Category:         Evel           Soil Classification         Great Soil Group:         Grey clay         Grey clay         Confidence evel evel         Ug5 4.           Confidence evel evel not specified         Great Soil Group:         Grey clay         Confidence evel evel not specified           Sufface Coarse Fragments:         Profile Morpholocy         Dark greyish brown (10YR4/2-Moist), Grey (10YR6/1-Dny); Light clay, Massive grade of structure, Earthy fabric; Few (41 per 100mm2) Very fine (0.075-fmm) macropores, Moderately moist, Very strong consistence; Field pH 6.5 (pH meter); Cear, Smooth change to -           N11         0 - 0.03 m         Dark greyish brown (10YR51/-0bist); Very Kine (0.075-fmm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Cear, Smooth change to -           N12         0.3 - 0.	Desc. I Date D Map Re Northin	By: esc.: ef.: ng/Long.:	D. McGarry 10/07/86 Sheet No. : 8837_N 6672800 AMG zone:	55	Elevation: Rainfall: Runoff:	204 metr No Data No Data		10
BerlSiope Class:       No Data       Pattern Type:       No Data         Slope:       No Data       Relief:       No Data         Slope:       1%       Aspect:       325 degrees         Slope:       1%       Aspect:       325 degrees         Slope:       1%       Aspect:       325 degrees         Soli Classification:       Mapping Unit:       N/A         Soli Classification:       Mapping Unit:       N/A         N/A       Principal Profile Form:       Ug5.4         SGC Confidence isvel not specified       Great Soil Group:       Grey classification:         Surface Coarse Fragments:       Principal Profile Morphology       Massive grade of structure; Earthy tabic; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately molis: Very strong consistence; Field PH 5.6 (PH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately molis: Very strong consistence; Field PH 5.6 (PH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately molis: Very strong consistence; Field PH 5.6 (PH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately molis: Very strong consistence; Field PH 5.6 (PH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately molis: Very strong consistence; Field PH 5.6 (PH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately molis: Very strong consistence; Field PH 7.7 (PH meter); Clear, Smooth change to - 100mm2) Very fine (0.075-1mm) macropores, Moderately m	Expos	ureType:		•				
Erosion:       NA         Australian Soil Classification:       Mapping Unit:       N/A         Principal Profile Form:       Ug5.4         GC confidence:       Great Soil Group:       Grey clay         Confidence evel not specified       Great Soil Group:       Grey clay         Surface Coarse Fragments:       Dark greyish brown (10YR4/2-Moist); Grey (10YR8/1-Dry); ; Light clay; Massive grade of structure; Earthy tabric; Few (<1 per 100mm2) Very fine (0.075-fmm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Clear, Smooth change to -         A12       0.03 - 0.1 m       Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Light clay; Moderatel grade of structure; 0.20 mm, Subangular blocky; Earthy tabric; Medium, (6-10) mm crack; Few (<1 per 100mm2) Very fine (0.075-fmm) macropores, Moderately moist; Very strong consistence; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots;         A13       0.1 - 0.25 m       Black (10YR2/1-Moist); 10YR61, 0-2%, 0-5mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-fmm) macropores, Moderately moist; Very strong consistence; Field pH 7.7 (pH meter); Few, very fine (0-10mm) roots;         A14       0.25 - 0.6 m       Very dark grey (10YR3/1-Moist); 10YR81, 0-2%, 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine (0 - 2 mm), Nodules; Field pH 3 (pH meter); Few, very fine (0-10mm) roots;         321       0.6 - 1 m       Dark brown (10YR3/3-Moist	Rel/Slo Morph	ope Class: . Type: Type:	No Data Terrace plain		Relief: Slope Category	No Data : Level	rees	
Australian Soil Classification:         Mapping Unit: Principal Profile Form: Great Soil Group:         N/A Ug5.4. Grey clay           ASC Confidence:         Confidence level not specified         Great Soil Group:         Grey clay           Site Disturbance:         Confidence level not specified         Grey clay:         Grey clay:           Surface Coarse Fragments:         Englisher Disturbance;         Confidence level not specified         Surface Coarse Fragments:           Profile Morphology         Dark greyish brown (10YR4/2-Moist); Grey (10YR6/1-Dry); : Light clay: Massive grade of structure: Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Clear, Smooth change to -	Erosic	on:		dsetting, Poa	ched			
Profile Morphology         Dark greyish brown (10YR4/2-Moist); Grey (10YR6/1-Dry); ; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Clear, Smooth change to -           A12         0.03 - 0.1 m         Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots;	Austra N/A ASC C Confid Site D Veget	lian Soil Cl Confidence: lence level r listurbanc ation:	assification: not specified <u>e:</u> Complete clearing	. Pasture, nat	Prin Gre	acipal Profile at Soil Grou	p:	Ug5.4 Grey clay
<ul> <li>A11 0 - 0.03 m Dark greyish brown (10YR4/2-Moist); Grey (10YR6/1-Dry); ; Light clay; Massive grade of structure; Earthy fabric; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Clear, Smooth change to -</li> <li>A12 0.03 - 0.1 m Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots;</li> <li>A13 0.1 - 0.25 m Black (10YR2/1-Moist); .10YR61, 0-2%, 0-5mm, Distinct; Medium (15 - 10) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.7 (pH meter); Few, very fine (0-1mm) roots;</li> <li>A14 0.25 - 0.6 m Very dark grey (10YR3/1-Moist); .10YR62, 0-2%, .5-15mm, Distinct; .10YR81, 2-10%, .0-5mm, Distinct; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.1 (pH meter); Few, very fine (0-1mm) roots;</li> <li>A14 0.25 - 0.6 m Very dark grey (10YR3/1-Moist); .10YR62, 0-2%, .5-15mm, Distinct; .10YR81, 2-10%, .0-5mm, Distinct; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;</li> <li>322 1 - 1.9 m Dark brown (10YR3/3-Moist); .10YR81, 2-10%, .5-15mm, Distinct; .10YR81, 0-2%, .0-5mm, Distinct; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (&lt;1 per 100mm2) Very fine (0.0-20 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Fine</li></ul>								
<ul> <li>structure, 10-20 mm, Subangular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots;</li> <li>0.1 - 0.25 m Black (10YR2/1-Moist); , 10YR51, 0-2%, 0-5mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.7 (pH meter); Few, very fine (0-1mm) roots;</li> <li>0.25 - 0.6 m Very dark grey (10YR3/1-Moist); , 10YR62, 0-2%, 5-15mm, Distinct; , 10YR81, 2-10%, 0-5mm, Distinct; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -</li> <li>0.6 - 1 m Dark brown (10YR3/3-Moist); , 10YR81, 2-10%, 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;2 - 10 %), Calcareous, Mediar Units; Field pH 9 (pH meter); Few, very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;</li> <li>1 - 1.9 m Dark brown (10YR3/3-Moist); , N20, 2-10%, 0-5mm, Distinct; , 10YR81, 0-2%, 0-5mm, Distinct; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Very fine (0.275 mm, Subangular blocky; Smooth-ped fabric; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (&lt;2 - 0 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0.178 Moist); , N20, 2-10%, 0-5mm, Distinct; , 10YR81</li></ul>	A11		n Dark greyish b structure; Eart	hy fabric; Fev	v (<1 per 100mm2	) Very fine (0	.075-1mm	n) macropores, Moderately
<ul> <li>structure, 20-50 mm, Šubangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm črack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7.7 (pH meter); Few, very fine (0-1mm) roots;</li> <li>0.25 - 0.6 m Very dark grey (10YR3/1-Moist); , 10YR62, 0-2%, 5-15mm, Distinct; , 10YR81, 2-10%, 0-5mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -</li> <li>0.6 - 1 m Dark brown (10YR3/3-Moist); , 10YR81, 2-10%, 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;</li> <li>1 - 1.9 m Dark brown (10YR3/3-Moist); , N20, 2-10%, 0-5mm, Distinct; , 10YR81, 0-2%, 0-5mm, Distinct; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter);</li> <li>323 1.9 - 2.78 m Dark brown (10YR3/3-Moist); , N20, 2-10%, 5-15mm, Distinct; , 10YR81, 2-10%, 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter);</li> </ul>	A12	0.03 - 0.1	structure, 10- 100mm2) Ver	structure, 10-20 mm, Subangular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field				
<ul> <li>Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -</li> <li>0.6 - 1 m Dark brown (10YR3/3-Moist); , 10YR81, 2-10%, 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;</li> <li>1 - 1.9 m Dark brown (10YR3/3-Moist); N20, 2-10%, 0-5mm, Distinct; , 10YR81, 0-2%, 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter);</li> <li>1.9 - 2.78 m Dark brown (10YR3/3-Moist); N20, 2-10%, 5-15mm, Distinct; , 10YR81, 2-10%, 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Field pH 8.7 (pH meter);</li> <li>323 1.9 - 2.78 m Dark brown (10YR3/3-Moist); N20, 2-10%, 5-15mm, Distinct; , 10YR81, 2-10%, 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter);</li> </ul>	A13	0.1 - 0.25	structure, 20-5 (<1 per 100mr	structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong				
<ul> <li>grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (&lt;1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;</li> <li>322 1 - 1.9 m Dark brown (10YR3/3-Moist); , N20, 2-10%, 0-5mm, Distinct; , 10YR81, 0-2%, 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter);</li> <li>323 1.9 - 2.78 m Dark brown (10YR3/3-Moist); , N20, 2-10%, 5-15mm, Distinct; , 10YR81, 2-10%, 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter);</li> </ul>	A14	0.25 - 0.6	Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm),					
<ul> <li>Heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter);</li> <li>B23 1.9 - 2.78 m Dark brown (10YR3/3-Moist); , N20, 2-10% , 5-15mm, Distinct; , 10YR81, 2-10% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (&lt;1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter);</li> </ul>	B21	0.6 - 1 m	grade of struct Few (<1 per 10 consistence; F	ture, 10-20 mi 00mm2) Very <sup>5</sup> ew (2 - 10 %)	m, Subangular blo fine (0.075-1mm) ), Calcareous, Med	cky; Smooth macropores,	ped fabrie Moderate	c; Fine, (0 - 5) mm crack; ely moist; Strong
Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.2 (pH meter);	B22	1 - 1.9 m	Heavy clay; M Medium, (5 - 1 Very firm cons	oderate grade 0) mm crack;	e of structure, 10-2 Few (<1 per 100n	20 mm, Suba nm2) Fine (1	ngular blo -2mm) ma	cky; Smooth-ped fabric; acropores, Moderately moist;
Morphological Notes	B23	Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %),						
	<u>Morph</u>	nological I	<u>Notes</u>					

Project Name:	Soil Studies in the Lower Namoi Valley	
Project Code: Agency Name:	EDGEROI Site ID: ed041 CSIRO Division of Soils (QLD)	Observation ID: 1
A11	A most strong crust on the top 3cm of this s	oil. The crust is grey-white and comp

A most strong crust on the top 3cm of this soil. The crust is grey-white and composed of fine sand and silt. The profile is cracked to 25cm. Carbonate begins at 27cm. Darkish orange B2 begins at 60cm. Manganese coatings being at 100cm. The
 A12 surface crust seems to be formed in situ through dispersion, i.e. is not a sedimentary feature. The whole soil has a dull grey look, mainly from greyish faces on peds from a little of layer 01 distributed through the profile. Two samples ta
 A13 ken every 10cm for lan Little.

**Observation Notes** 

Parent Rock: alluvial sediment, clay, parna on fourth fan

## Site Notes

Vanes of 150 shearvane did not penetrate the surface. Two photos towards Boolcarrol Farm and towards Bald Hill. Mag bearing to Llano 316; to Boolcarrol 335. Deep ripping required to grow any crops.

Project Name:	Soil Studies in t	the Lower	Namoi Valley		
Project Code:	EDGEROI	Site ID:	ed041	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (C	(LD)		

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeab Acidity	le CEC	;	ECEC	ESP
m		dS/m	Ga	wig	ĸ	Cmol (-					%
0 - 0.02 0 - 0.03 0.03 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6	7.45A 6.75A 7.55A 8.56A 8.94A 8.23A 8.99A 8.61A	0.108A 0.124A 0.113A 0.447A 1.283A 0.668A	5.69B 5.91B 12.28B 15.22B 16.35B 20.32B 21.61B 22.47B	4.2 5.43 10.06 10.29 11.62 13.82 15.83 16.97	0.6 0.54 0.56 0.46 0.42 0.82 0.97	1.05 1.17 2.26 2.98 5.03 6.75 8.30999 9 9.5					
Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	l Bulk Densit Mg/m3	y GV	article CS	Size FS %	Analysis Silt Clay
0 - 0.02 0 - 0.03 0.03 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6	<0.1B <0.1B <0.1B <0.1B 0.6B 1B 1.3B 0.1B	0.46C 0.98C 0.69C 0.63C 0.44C 0.15C 0.13C 0.06C	8.9J 2.6J 1.1J 3.3J 5.7J 6.2J 2.6J								14.420.915.522.919.236.221.337.8224117.850.615.656.814.158.4
Depth m	COLE	Sat.	Grav 0.05 Bar	rimetric/Vo 0.1 Bar g/	olumetric 0.5 Bar /g - m3/m	1 Bar	ntents 5 Bar	15 Bar	K s		K unsat mm/h
0 - 0.02 0 - 0.03 0.03 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6											

## Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROIAgency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

## 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