Project Name Project Code: Agency Name	EDGEROI Site ID:	we001 Observation ID: 1
Site Informati Desc. By: Date Desc.: Map Ref.: Northing/Long. Easting/Lat.:		Locality:gravel pit, opposite 'Doreen'Elevation:178 metresRainfall:No DataRunoff:No DataDrainage:No Data
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data
Land Form Rel/Slope Class Morph. Type: Elem. Type: Slope:	: No Data No Data Terrace flat 0 %	Pattern Type:No DataRelief:No DataSlope Category:Very gently slopedAspect:No Data
	ondition (dry): Surface crust, F	-irm
Erosion: Soil Classifica	tion	
Australian Soil N/A ASC Confidence Confidence leve	Classification: e: I not specified	Mapping Unit: N/A Principal Profile Form: N/A Great Soil Group: Grey clay ative or improved, cultivated at some stage
Vegetation:		
Surface Coars Profile Morph		
A11 0 - 0.08	m Dark grey (10YR4/1-Moist structure, <2 mm, Granula ped fabric; Fine, (0 - 5) mm); Dark greyish brown (10YR4/2-Dry); ; Light clay; Moderate grade of Ir; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth- n crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, consistence; Field pH 6.5 (pH meter); Common, fine (1-2mm) roots;
A12 0.08 - (Angular blocky; Smooth-pe (0.075-1mm) macropores,); ; Light medium clay; Moderate grade of structure, 20-50 mm, ed fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine Moderately moist; Very strong consistence; Very few (0 - 2 %), n), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots;
A13 0.25 - (Lenticular; Strong grade of - 10) mm crack; Few (<1 Very strong consistence; 0); ; Light medium clay; Weak grade of structure, 50-100 mm, f structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Medium, (5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist;)-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; eous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine
A14 0.55 - ²	Moderate grade of structur crack; Few (<1 per 100mm strong consistence; 0-2%,); ; Medium clay; Moderate grade of structure, 50-100 mm, Lenticular; re, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm n2) Very fine (0.075-1mm) macropores, Moderately moist; Very fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few edium (2 -6 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-
A15 1 - 1.4	Moderate grade of structur crack; Few (<1 per 100mm consistence; Few (2 - 10 %); ; Medium clay; Moderate grade of structure, 50-100 mm, Lenticular; re, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm n2) Very fine (0.075-1mm) macropores, Moderately moist; Strong %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); ots; Sharp, Smooth change to -
B2 1.4 - 2.	Distinct; Light clay; Weak (Earthy fabric; Fine, (0 - 5)	7.5YR58, 0-2%, 5-15mm, Distinct; , 10YR41, 10-20%, 5-15mm, grade of structure, 50-100 mm, Prismatic; Massive grade of structure; mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, rm consistence; Field pH 9 (pH meter);
Morphologica A11	bu003. One coarse carbon Bingara Road, deep dark g	ate concretion at 20cm. This profile is like the pits on the rey top over brownish B, the break extending from 140- nts occur at 180cm (these are the cause of colour 2)

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Agency Name:	CSIRO Division	of Soils (C	LD)		

A12

. There are no lime segregations below 180cm; slickensides extent to 2m. I think this is relatively undifferentiated alluvium, with baked clay at top, beneath slightly watersorted parna.

Observation Notes

Parent Rock: alluvial sediment, clay, mixed texture, non-calcareous parna on third fan, Namoi

Site Notes

Do we have a thin clay drift here, over prior (young) alluvium? A proline hole shows a fairly rapid transition at bottom of second bite (at 160cm).

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl		Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.1	7.14A	0.159A	21.34B	12.68	1.63	2.92				
0.1 - 0.2	8.56A	0.164A	26.51B	10.87	1.2	5.5				
0.3 - 0.4	8.88A	0.342A	23.45B	14.41	1.34	10.1				
0.7 - 0.8	9.03A	0.595A	17.37B	16.57	1.7	17.89				
1.2 - 1.3	8.93A	0.707A	15.05B	16.17	1.61	17.83				
2.4 - 2.5	8.96A	0.48A	8.41B	10.89	0.41	17.54				

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CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	5
	С	P	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
%	%	mg/kg	%	%	%	Mg/m3			%		
0.1B	1.66C	82.8J								15.6	62.9
<0.1B	0.75C	19J								16.7	67.7
0.3B	0.66C	21.4J								16.3	65.9
0.4B	0.54C	49.7J								17.6	68.7
0.4B	0.38C	52J								19	65.4
0.1B	0.09C	48.1J								29.8	39
	% <0.1B 0.3B 0.4B 0.4B	c % % 0.1B 1.66C <0.1B 0.75C 0.3B 0.66C 0.4B 0.54C 0.4B 0.38C	C P % % mg/kg 0.1B 1.66C 82.8J <0.1B	C P P % % mg/kg % 0.1B 1.66C 82.8J <0.1B	C P P N % % mg/kg % % 0.1B 1.66C 82.8J <0.1B	C P P N K % % mg/kg % % % 0.1B 1.66C 82.8J % % % <0.1B	C P P N K Density % % mg/kg % % Mg/m3 0.1B 1.66C 82.8J <0.1B	C P P N K Density GV % % mg/kg % % % Mg/m3 GV 0.1B 1.66C 82.8J Mg/m3 GV <0.1B	C P P N K Density GV CS % % % % % Mg/m3 V CS 0.1B 1.66C 82.8J Mg/m3 V CS <0.1B	C P P N K Density GV CS FS % % % % % Mg/m3 % % 0.1B 1.66C 82.8J % % Mg/m3 % 0.1B 0.75C 19J 3 % 0.3B 0.66C 21.4J 49.7J	C P P N K Density GV CS FS Silt % % mg/kg % % Mg/m3 % 15.6 <0.1B

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

0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.4 - 2.5

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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

- 9B1 P10_CF_C P10_CF_Z