Projec	t Code: E	oil Studies in the Lower N DGEROI Site ID: SIRO Division of Soils (Q	ed045 O	bservation ID:	1		
Desc. E Date De Map Re Northin Easting	esc.: 16/ f.: She g/Long.: 667 g/Lat.: 766	1. Roberts 07/85 2et No. : 8837_N 1:50000 2600 AMG zone: 55 600 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	S.L. Gourley, Eur 233 metres No Data No Data No Data No Data	owie		
<u>Geolog</u> Exposu Geol. R	ireType: Und	disturbed soil core Data	Conf. Sub. is Pare Substrate Materia	ia ia			
Morph. Elem. T Slope:	pe Class: No Type: No 'ype: Lev 0 % e Soil Condi		Pattern Type: Relief: Slope Category: Aspect: Recently cultivated	No Data No Data Very gently slope No Data	d		
	assification						
N/A ASC C	ian Soil Class onfidence: ence level not s		Princi	ing Unit: ipal Profile Form: Soil Group:	N/A Ug5.15 Brown clay		
		Cultivation. Rainfed					
<u>Vegeta</u> Surfac	e Coarse Fra	igments:					
	Morphology						
A11p	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Grey (10YR5/1-Dry); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded tabular, Quartz, coarse fragments; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -					
A12	0.1 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded tabular, Quartz, coarse fragments; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;					
A13	0.25 - 0.5 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter); Few, very fine (0- 1mm) roots; Clear, Smooth change to -					
B21k	0.5 - 0.65 m	Brown (7.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Few (2 - 10 %), Argillaceous, Coarse (6 - 20 mm), Veins; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;					
B22k	0.65 - 1 m	Brown (7.5YR4/2-Moist); ; I Earthy fabric; Smooth-ped (0.075-1mm) macropores, I Fine (0 - 2 mm), Crystals; F	fabric; Fine, (0 - 5) m Moderately moist; Fir	im crack; Few (<1 p m consistence; Ver	y few (0 - 2 %), Gypseous,		
B23	1 - 1.9 m	Brown (7.5YR4/4-Moist); ; I blocky; Smooth-ped fabric 1mm) macropores, Modera Medium (2 -6 mm), Nodule	; Fine, (0 - 5) mm cra ately moist; Firm cons	ack; Few (<1 per 10 sistence; Very few (0 - 2 %), Calcareous,		

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B24 1.9 - 2.76 m Brown (7.5YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

Visible crackdepth is 56cm.

Observation Notes

Parent Rock: , , second terraced fan

Site Notes

Few water worn quartz gravels on surface, 60mm diameter.

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K	E Na	xchangeable	CEC		ECEC	E	SP
m		dS/m	Ca	Mg	n	Na Cmol (+)	Acidity /kg					%
0 - 0.02	7.84A	0.069A	19.83B	6.37	1.6	0.93						
0 - 0.1	7.57A	0.176A	17.52B	7.2	1.14	1.42						
0.1 - 0.2	8.82A	0.165A	21.2B	8.93	0.77	2.74						
0.3 - 0.4	9.35A	0.232A		9.5	0.62	5.32						
0.5 - 0.6	9.38A	0.323A	19.9B	11.32	0.84	7.68						
0.7 - 0.8	8.54A		20.45B	11.59	1.12	8.95						
1.2 - 1.3	8.94A		22.94B	12.9	1.3	10.25						
2.5 - 2.6	9.04A	0.616A	21.09B	14.64	1.27	11.08						
Depth	CaCO3	Organic	Avail. P	Total	Total	Total	Bulk				Analysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
	70	70	iiig/kg	70	70	70	Mg/115			70		
0 - 0.02	<0.1B	0.78C									26	40.8
0 - 0.1	0.1B	1.06C	35.8J								24.7	39.9
0.1 - 0.2	0.3B	0.58C	17.6J								25.1	42.7
0.3 - 0.4	0.9B	0.45C	6.3J								25.8	47
0.5 - 0.6	0.9B	0.33C	8J								23.5	51.9
0.7 - 0.8	0.9B	0.16C	12.9J								22.2	55.6
1.2 - 1.3	0.6B	0.08C	11.9J								19	62.7
2.5 - 2.6	3.5B	0.1C	8.8J								15	65.2
Depth	COLE		Grav	/imetric/Vo	olumetric \	Vater Cont	ents		Ks	at	K unsat	1
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 15 I	Bar				
m					g - m3/m	3			mm	/h	mm/h	
0 - 0.02												
0 - 0.1												

0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.5 - 0.6 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
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