Project N Project C Agency N	ode: ED	il Studies in the Lower DGEROI Site ID: SIRO Division of Soils (	ed187	Observatior	י ID: <i>י</i>	1
Site Infor Desc. By: Date Desc. Map Ref.: Northing/L Easting/La Geology	W.T. .: 04/02 Shee .ong.: 6653	Ward 2/86 et No. : 8837_N 1:50000 500 AMG zone: 55 00 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route 241 metres No Data No Data No Data	,	of Buddah
Exposure Geol. Ref.:		sturbed soil core Data	Conf. Sub. is Par Substrate Materi		a a	
Land For Rel/Slope Morph. Type Elem. Type Slope:	Class: No D pe: No D		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data		
<u>Surface S</u> Erosion:	Soil Conditi	on (dry): Surface crust				
Soil Class	<u>sification</u> Soil Classifi	instian	Мар	ping Unit:		N/A
N/A ASC Conf			Princ	cipal Profile F t Soil Group:		Dr3.13 Solodic soil
<u>Site Distu</u> Vegetatio	irbance:					
	orphology	<u>inents.</u>				
	- 0.1 m		angular blocky; Sandy ery fine (0.075-1mm) r	(grains promi macropores, N	inent) fa	sand; Weak grade of bric; Fine, (0 - 5) mm crack; ely moist; Firm consistence;
A12 0.	1 - 0.25 m	25 m Dark brown (7.5YR3/2-Moist); Dark yellowish brown (10YR4/4-Dry); ; Loamy sand; Weak grade of structure, 5-10 mm, Platy; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 7 (pH meter); Few, very fine (0-1mm) roots;				
A13 0.	25 - 0.4 m		r; Weak grade of struc (0 - 5) mm crack; Few moist; Firm consisten	ture, 5-10 mm / (<1 per 100m	n, Subar nm2) Ve	
A2 0.	4 - 0.65 m		e of structure, 5-10 mr ly (grains prominent) f 5-1mm) macropores, lium (2 -6 mm), Nodule	m, Platy; Wea abric; Fine, (0 Moderately m	k grade - 5) mn oist; Firi	of structure, 5-10 mm,
B21 0.	65 - 1 m		clay; Moderate grade per 100mm2) Fine (1- - 2 %), Ferruginous, N	of structure, 5 -2mm) macrop	5-10 mn oores, N	
B22 1	- 2.3 m	5-15mm, Prominent; Hea Fine, (0 - 5) mm crack; F moist; Strong consistence Few (2 - 10 %), Ferruging	avy clay; Moderate gra ew (<1 per 100mm2) <sup>1</sup> e; 0-2%, fine gravelly, bus, Coarse (6 - 20 m segregations; Field p	ade of structur Very fine (0.07 2-6mm, subro m), Nodules; I	e, 10-20 75-1mm ounded, Few (2 -	Distinct; , 10YR73, 2-10% , ) mm, Platy; Earthy fabric; ) macropores, Moderately Quartz, coarse fragments; - 10 %), Calcareous, w, very fine (0-1mm) roots;

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B23 2.3 - 2.73 m Yellowish red (5YR4/6-Moist); , 10YR42, 10-20%, 15-30mm, Distinct; , 10YR43, 2-10%, 5-15mm, Prominent; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Smoothped fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Moderately moist; Few (2 -10%), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots;

### Morphological Notes

morphological	Notes
A11	A rounded concretion in B2 70-80 is 10R3/3. Possible stratigraphic change at 230 to
	clayier material. Amount of lime increased below 120-130 to 250-260. Fe concretions
	continue throughout 120-230, more common near top. The reddish colour at
A12	bottom is ?prior soil.

# **Observation Notes**

Parent Rock: alluvial sediment, sandstone, Tertiary beds, weathered

#### Site Notes

Site on side of road is disturbed by recent road works.

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## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC		ECEC	1	ESP
m		dS/m	Ca	Mg	к	Na Cmol (+)	Acidity )/kg					%
0 - 0.02	6.35A	0.126A	1.67B	1.13	0.69	<0.01						
0 - 0.1	5.66A	0.095A	2.44B	1.55	0.35	0.07						
0.1 - 0.2	6.22A	0.06A	3.08B	1.1	0.28	0.05						
0.3 - 0.4	5.93A	0.024A		0.77	0.3	<0.01						
0.5 - 0.6	6.36A	0.014A		0.48	0.27	<0.01						
0.7 - 0.8	7.75A	0.037A	-	5.77	0.96	0.82						
1.2 - 1.3	8.97A	0.139A		10.45	1.32	2.4						
2.5 - 2.6	9.39A	0.428A	4.34B	10.61	1.1	6.15						
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K		Pa GV	rticle CS	Size FS		
m	%	С %	r mg/kg	۲ %	N %	к %	Density Mg/m3	Gv	US	гэ %	Silt	Clay
	70	70	iiig/kg	70	70	/0	Mg/mo			70		
0 - 0.02	<0.1B	0.92C									5.4	9.4
0 - 0.1	<0.1B	0.99C	38.9J								7.6	11.9
0.1 - 0.2	<0.1B	0.85C	38.6J								9.1	13.7
0.3 - 0.4	<0.1B	0.35C	34.7J								9	12.9
0.5 - 0.6	<0.1B	0.17C	20.9J								10.1	9.4
0.7 - 0.8	<0.1B	0.15C	28.3J								8.3	37.9
1.2 - 1.3	<0.1B	0.1C	31.4J								8.7	47.8
2.5 - 2.6	1.6B	0.1C	15.6J								14.4	44.8
Depth	COLE					Nater Cont		-	Ks	at	K unsa	t
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	ı/h	mm/h	
				5								
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 15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA 19B1	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 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