Project Name: Regional

Project Code: Observation ID: 1 **REG** Site ID: T271

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: G.G. Murtha Locality: On highway 2.2KM south of Silkwood turnoff: 07/09/79

Elevation: 10 metres

Map Ref.: Sheet No.: 8162 1:100000 Rainfall:

Northing/Long.: 146.0333333333333 Runoff: Very slow

-17.7666666666667 Imperfectly drained Easting/Lat.: Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Substrate Material: Geol. Ref.: Unconsolidated material (unidentified) QA

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Alluvial plain

1-3%

No Data No Data Morph. Type: Relief:

Elem. Type: Plain Slope Category: Very gently sloped

Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Acidic Dystrophic Yellow Dermosol Gn3.74 **Principal Profile Form:**

Gleyed podzolic **ASC Confidence: Great Soil Group:**

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

<u>Profile</u>	<u>Morphology</u>	
A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loam; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Many, medium (2-5mm) roots; Gradual change to -
A21	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Clay loam (Light); Strong grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Common, medium (2-5mm) roots;
A22	0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Common, medium (2-5mm) roots; Diffuse change to -
B1	0.3 - 0.45 m	Dark grey (10YR4/1-Moist); , 10YR53, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Clay loam (Heavy); Strong grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules;
B1	0.45 - 0.6 m	Brownish yellow (10YR6/6-Moist); , 10YR42, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Diffuse change to -
B2	0.6 - 0.9 m	Brownish vellow (10YR6/6-Moist): , 2.5YR48, 2-10% , 0-5mm, Distinct: , 2-10% , 0-5mm.

0.6 - 0.9 m

Distinct; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Very

firm consistence; Diffuse change to -

В3 0.9 - 1.2 m Light grey (2.5Y7/2-Moist); , 2.5YR48, 10-20% , 0-5mm, Distinct; , 10YR66, 10-20% , 0-5mm,

Distinct; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Very firm

consistence; Few (2 - 10 %), Ferromanganiferous, , Nodules; Diffuse change to -

Light grey (10YR7/1-Moist); , 2.5YR48, 10-20% , 5-15mm, Prominent; , 10-20% , 5-15mm,

Prominent; Fine sandy medium clay; Moderate grade of structure, 5-10 mm; Moist; Very firm consistence:

Morphological Notes

1.2 - 1.5 m

Observation Notes

BC

30-60CM A2 AND B2 MATERIAL MIXED BY WORM ACTIVITY

Project Name: Project Code: Agency Name: Regional REG Site ID: T271 CSIRO Division of Soils (QLD) Observation ID: 1

Site Notes SILKWOOD

Observation ID: 1

Project Name: Project Code: Agency Name: Regional REG Site ID: T271 CSIRO Division of Soils (QLD)

Laboratory Test Results	L	abora	torv	Test	Res	ults:
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<u>Laboratory Test Results:</u>												
Depth	рН	1:5 EC		hangeabl Mg	e Cations K	Na Ex	xchangeable Acidity	CEC	I	ECEC	E	ESP
m		dS/m		_		Cmol (+)/	/kg				•	%
0 - 0.1	4.9A	0.064A	0.13H	0.24	0.05	0.08	2.9F	2.5A 18.70		3.4F		3.20).43
0.1 - 0.2	5A	0.029A	0.08H	0.05	<0.01	0.05	2.5F	2.1A 11.60		2.7F	2	2.38 2.43
0.2 - 0.3 0.3 - 0.45	5A 4.9A	0.024A 0.051A	0 04H	0.16	<0.01	0.16	2.6F 2.5F	8.3C 2.3A	;	2.9F		5.96
0.45 - 0.6	5A	0.02A	0.0411	0.10	VO.01	0.10	2.01	5.3C		2.01		3.02
0.6 - 0.9	5A 5A	0.02A 0.024A	0.04H	0.23	<0.01	0.03	2.5F	2.2A 5.3C		2.8F		.36).57
0.9 - 1.2 1.2 - 1.5	5.1A 4.9A	0.019A 0.018A						3.30	,			.57
Depth	CaCO3	Organic C	Avail. P	Total P	l Total N	Total K	Bulk Density	Pai GV	rticle CS	Size /	Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	•		%	•	J,
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45		4.25D 2.39D 1.58D	14B 9B 3B 2B	0.043	0.0 0.0	9A 7A	A	0 0 0 0	13A 11A 10A 11A	19 21 22 24	22 23	47 46 45 42
0.45 - 0.6 0.6 - 0.9 0.9 - 1.2		0.44D	6B	0.011	0.0 A	4A 0.91	A	0 0	8A 11A	17 16	_	50 47
1.2 - 1.5												
Depth COLE Gravimetric/Volumetric Water Contents K sat							ıt	K unsat	:			
m		Sat.	0.05 Bar	0.1 Bar g	0.5 Bar y/g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/	h	mm/h	
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5												

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

15A2_CEC Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15D1_CEC CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach

15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15G_C Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by

titration to pH 8.4

Effective CEC 15J1

17A1 Total potassium - X-ray fluorescence

2A1 Air-dry moisture content 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method 7A2 Total nitrogen - semimicro Kjeldahl, automated colour

9A1 Total phosphorus - X-ray fluorescence

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

MIN_EC Exchange Capacity - Minerology

P10_CF_C Clay (%) - Coventry and Fett pipette method

P10_CF_CS P10_CF_FS P10_CF_Z Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)

Chloritized 2:1 minerals - X-Ray Diffraction

XRD_C_Ch2 XRD_C_Gb Gibbsite - X-Ray Diffraction XRD_C_II XRD_C_K2O XRD_C_Ka Illite - X-Ray Diffraction

K2O - X-Ray Diffraction or Clay Fraction (air dry)

Kaolin - X-Ray Diffraction