Project Name: RR

B360 Project Code: BB Site ID: Observation ID: 1

CSIRO Division of Soils (QLD) **Agency Name:**

Site Information

C.H. Thompson Desc. By: Locality:

Date Desc.: 03/10/58 Elevation: 60 metres Map Ref.: Sheet No.: 9543 1:100000 Rainfall: 1100

Northing/Long.: 153.0833333333333 Runoff: Moderately rapid -27.58333333333333 Well drained Easting/Lat.: Drainage:

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 3.5 m deep, Non-porous, Τo

dense, Basalt

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Low hills

1-3%

Morph. Type: Simple-slope Relief: 30 metres Slope Category: Very gently sloped Elem. Type: Hillslope

Aspect: 0 degrees Slope: 2 %

Surface Soil Condition (dry): Soft

Erosion: Not apparent (sheet)

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Ferric Mesotrophic Red Ferrosol **Principal Profile Form:** Gn3 11 **ASC Confidence: Great Soil Group:** Krasnozem

Analytical data are incomplete but reasonable confidence. Site Disturbance: No effective disturbance. Natural

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Mid Strata - Shrub, 1.01-3m, Sparse. *Species includes - Acacia aulacocarpa, Lantana camara

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.13 m Dark reddish brown (5YR3/3-Moist): Clay loam: Strong grade of structure, 2-5 mm, Subangular blocky; Moist; Non-plastic; Normal plasticity; Slightly sticky; Field pH 6.2 (pH meter);

AbundantClear, Smooth change to -

Dark reddish brown (5YR3/3-Moist); , 2.5YR32, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, АЗ 0.13 - 0.2 m Faint; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Non-

plastic; Normal plasticity; Slightly sticky; Field pH 6 (pH meter); AbundantClear, Smooth change

to -

B2 0.2 - 0.41 m Dark red (2.5YR3/8-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Polyhedral;

Wet; Slightly plastic; Normal plasticity; Moderately sticky; Field pH 6 (pH meter); Diffuse, Smooth

change to -

B2 0.41 - 0.76 m Red (10R4/8-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral;

Moist; Slightly plastic; Normal plasticity; Slightly sticky; Very few (0 - 2 %), Manganiferous, Fine

(0 - 2 mm), Concretions; Field pH 6.1 (pH meter); Diffuse, Smooth change to -

B2 0.76 - 1.27 m Red (10R4/8-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral;

Moist; Slightly plastic; Normal plasticity; Slightly sticky; Very few (0 - 2 %), Manganiferous, Fine

(0 - 2 mm), Concretions; Field pH 6 (pH meter); Diffuse, Smooth change to -

Red (10R4/8-Moist); , 10YR68, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; 1.27 - 1.68 m B2

Moderate grade of structure, 5-10 mm, Polyhedral; Moist; Slightly plastic; Normal plasticity; Slightly sticky; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.7 (pH

meter); Diffuse, Smooth change to -

ВЗ 1.68 - 2.18 m

Slightly sticky; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.6 (pH

meter); Diffuse, Smooth change to -

Project Name: BB

Project Code: BB Site ID: **B360** Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

 $\label{eq:Red_continuity} Red~(2.5YR5/8-Moist);~, 7.5YR66,~20-50\%~,~0-5mm,~Faint;~,~2.5Y75,~20-50\%~,~0-5mm,~Faint;~\\ Heavy~clay;~Moderate~grade~of~structure;~Moist;~Slightly~plastic;~Normal~plasticity;~Slightly~sticky;~\\$ ВЗ 2.18 - 2.74 m

Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 5.3 (pH meter);

Diffuse, Smooth change to -

Red (2.5YR5/8-Moist); , 10YR88, 20-50% , 0-5mm, Faint; , 2.5Y71, 20-50% , 0-5mm, Faint; Heavy clay; Moist; Slightly plastic; Normal plasticity; Slightly sticky; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 4.9 (pH meter); Diffuse, Smooth change to -ВЗ 2.24 - 3.18 m

3.18 - 3.58 m Dark red (10R3/6-Moist); , 10YR88, 10-20% , 5-15mm, Prominent; , 2.5Y71, 10-20% , 5-15mm, ВЗ

Prominent; Heavy clay; Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 4.4 (pH meter); Diffuse, Smooth

change to -

ВЗ 3.58 - 4.47 m ; Heavy clay;

ВЗ 4.47 - 4.83 m ; Heavy clay;

Morphological Notes

Layer continues

Observation Notes

Site Notes

RUNCORN

B360 Observation ID: 1

Project Name: BB
Project Code: BB Site ID: B36
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

<u>Laboratory Test Results:</u>												
Depth	pН	1:5 EC	Exc Ca	:hangeable Mg	Cations K	Na E	xchangeable Acidity	CEC	EC	CEC	E	SP
m		dS/m	-	9		Cmol (+)					9	6
0 - 0.13 0.13 - 0.2	6.2H 6H	0.01C 0.01C	5.7K	3	0.15	0.07		21.8	J		0.	.32
0.2 - 0.41 0.41 - 0.76 0.76 - 1.27	6H 6.1H 6H	0.01C 0.01C 0.01C	1.6K	3.4	0.02	0.26		12.7	J		2	.05
1.27 - 1.68 1.68 - 2.18 2.18 - 2.74 2.74 - 3.18	5.7H 5.6H 5.3H 4.9H	0.01C 0.01C 0.02C 0.02C										
3.18 - 3.58 3.58 - 4.47 4.47 - 4.83	4.4H 5.1H 5.4H	0.02C 0.02C 0.01C	0.27K	16.4	0.17	1.7		32.1	J		5	.30
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	CS F	S	nalysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3		,	%		
0 - 0.13 0.13 - 0.2 0.2 - 0.41		2.76E 1.53E 0.38E	2C	0.014F	0.1	7B			16C 13C	23 21	22 18	34 46
0.41 - 0.76 0.76 - 1.27 1.27 - 1.68		0.30L		0.005F	:				7C	13	12	70
1.68 - 2.18 2.18 - 2.74 2.74 - 3.18								60 14	12C	10	14	66
3.18 - 3.58 3.58 - 4.47 4.47 - 4.83				0.009F	:			4	4C	13	13	71
Depth	COLE	0-4	Gravimetric/Volumetric Water Contents 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar						K sat	I	K unsat	
m		Sat.	0.05 Bar		g - m3/m3	1 Bar 3	5 Bar 1	э ваг	mm/h		mm/h	
0 - 0.13 0.13 - 0.2 0.2 - 0.41 0.41 - 0.76 0.76 - 1.27 1.27 - 1.68 1.68 - 2.18 2.18 - 2.74 2.74 - 3.18 3.18 - 3.58 3.58 - 4.47												
4.47 - 4.83												

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Laboratory Analyses Completed for this profile

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_CEC CEC - meq per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded 15_NR_MG Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

2A1 Air-dry moisture content

3A_TSS Electrical conductivity or soluble salts - Total soluble salts %

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

6Z Organic carbon (%) - Not recorded
7_NR Total nitrogen (%) - Not recorded
9_NR Available P (mg/kg) - Not recorded
9A_NR Total element - P(%) - Not recorded

P10_GRAV Gravel (%)

P10_NR_C
P10_NR_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10_NR_FS
Fine sand (%) - Not recorded
P10_NR_Z
Silt (%) - Not recorded