

**Project Name:** HEL  
**Project Code:** HEL **Site ID:** H140 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	3.2KM WNW of Yolla 3.6KM south of Oldina:
<b>Date Desc.:</b>	22/03/56	<b>Elevation:</b>	366 metres
<b>Map Ref.:</b>	Sheet No. : 8015 1:100000	<b>Rainfall:</b>	1440
<b>Northing/Long.:</b>	144.67	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.0166667	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, 1.6 m deep,Basalt

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plateau
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Fill-top	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Humose-Acidic Mesotrophic Red Ferrosol	<b>Principal Profile Form:</b>	Gn4.11
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Krasnozem
All necessary analytical data are available.		

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.05 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; 0-2%, Charcoal, coarse fragments; Diffuse change to -
A	0.05 - 0.13 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Strong grade of structure, <2 mm, Subangular blocky; Moist; Weak consistence; Clear change to -
B	0.14 - 0.23 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
B	0.23 - 0.36 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; Diffuse change to -
B	0.36 - 0.54 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Weak grade of structure, 2-5 mm, Angular blocky; Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
BC	0.64 - 0.74 m	Yellowish red (5YR4/5-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 10-20%, Basalt, coarse fragments; Diffuse change to -
BC	0.74 - 0.89 m	Yellowish red (5YR4/5-Moist); ; Light clay; Massive grade of structure; Moist; Very firm consistence; 20-50%, Basalt, coarse fragments; Diffuse change to -
BC	0.89 - 1.04 m	Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Moist; Very firm consistence; 20-50%, Basalt, coarse fragments; Very few (0 - 2 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -
	1.04 - 1.24 m	Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Very firm consistence; 20-50%, Basalt, coarse fragments;
	1.6 - 1.63 m	Black (5YR2/1-Moist); ; 50-90%, Gravel, coarse fragments;
	1.63 - 1.73 m	;

**Morphological Notes**

On parent material:

**Observation Notes**

0-5CM WORMS ACTIVE:160-163CM MEALY DECOMPOSED BA:74-163CM BLACK STAINING ON GRAVELS:

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**Site Notes**

YOLLA

**Observation ID: 1**

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**Laboratory Analyses Completed for this profile**

15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
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_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance