

**Project Name:** YAL  
**Project Code:** YAL      **Site ID:** P553A      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (WA)

#### Site Information

<b>Desc. By:</b>	G.M. Dimmock	<b>Locality:</b>	Gravel quarry 5 chains S.W. of main road through property - roughly opposite shearing sheds: 10M from P553:
<b>Date Desc.:</b>	18/12/68	<b>Elevation:</b>	349 metres
<b>Map Ref.:</b>	Sheet No. : 2134 1:100000	<b>Rainfall:</b>	620
<b>Northing/Long.:</b>	116.466666666667	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	-31.766666666667	<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>	Granite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	5.5 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Dy5.61
		<b>Great Soil Group:</b>	Lateritic podzolic soil

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

#### Vegetation:

**Surface Coarse Fragments:** 2-10%, , rounded, Substrate material

#### Profile Morphology

Ap	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Greyish brown (10YR5/2-Dry); ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
A21	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Common, very fine (0-1mm) roots; Gradual change to -
A22	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Gradual change to -
A23	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Gradual change to -
A24	0.6 - 0.76 m	Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Abrupt, Irregular change to -
	0.76 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46; Sandy medium clay; Massive grade of structure; Strong consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	0.9 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46; Sandy medium clay; Massive grade of structure; Strong consistence; 50-90%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;
	1.2 - 1.5 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46; Sandy medium clay; Massive grade of structure; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Strong consistence; Moderately plastic; Subplastic; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments;
	1.5 - 1.8 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 2-10% ; , 10YR81, 2-10% ; Sandy medium clay; Massive grade of structure; Many (>5 per 0.01m <sup>2</sup> ) Medium (2-5mm) macropores, Strong consistence; Moderately plastic; Subplastic; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Few

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1.8 - 2 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 2-10% ; , 10YR81, 2-10% ; Sandy medium clay; Massive grade of structure; Strong consistence; 10-20%, fine gravelly, 2-6mm, rounded, Substrate material, coarse fragments;
2 - 2.29 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 2-10% ; , 10YR81, 2-10% ; Sandy medium clay; Massive grade of structure; Strong consistence;
2.29 - 2.68 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 2-10% ; , 10YR81, 2-10% ; Sandy medium clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Ferruginous, , Concretions; Few, fine (1-2mm) roots;
2.72 - 3 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 2-10% ; , 10YR81, 2-10% ; Sandy medium clay; Massive grade of structure; Strong consistence; Few (2 - 10 %), Ferruginous, , Concretions;
3 - 3.45 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 10-20% ; , 10YR81, 10-20% ; Medium clay; Massive grade of structure; Strong consistence; Few, fine (1-2mm) roots;

**Morphological Notes**

**Observation Notes**

LARGE PIPES <8CM DIA. EXTEND TO 180CM - FILLED WITH LOOSE GV FROM SURFACE HORIZONS: 300-345CM  
PROMINENT GRANITIC FABRIC:LAYERS RE NUMBERED 15/10/92

**Site Notes**

AVON L.S.2/80

**Observation ID: 1**

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3 - 3.45

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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_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
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19A1	Carbonates - rapid titration
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
P10_GRAV	Gravel (%)
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