

Project Name: YAL
Project Code: YAL **Site ID:** P552A **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|--|
| Desc. By: | G.M. Dimmock | Locality: | 97KM S.W. of main road through property on south side of E. Watson's 'Spillway Sand' plot enclosure: in from P552: |
| Date Desc.: | 02/09/69 | Elevation: | 341 metres |
| Map Ref.: | Sheet No. : 2134 1:100000 | Rainfall: | 620 |
| Northing/Long.: | 116.466666666667 | Runoff: | Rapid |
| Easting/Lat.: | -31.766666666667 | Drainage: | Imperfectly drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|----------------------------------|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Auger boring, 35 m deep, Granite |

Land Form

| | | | |
|-------------------------|---------------------|------------------------|---------|
| Rel/Slope Class: | No Data | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Drainage depression | Slope Category: | No Data |
| Slope: | 2.5 % | Aspect: | No Data |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|--|--------------------------------|--------------------------------|-------------------------|
| Australian Soil Classification: | N/A | Mapping Unit: | N/A |
| ASC Confidence: | Confidence level not specified | Principal Profile Form: | Uc2.12 |
| | | Great Soil Group: | Lateritic podzolic soil |

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|--------------|---|
| A1p | 0 - 0.04 m | Very dark grey (10YR3/1-Moist); Dark grey (10YR4/1-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 50-90%, cobbly, 60-200mm, Substrate material, coarse fragments; Clear, Irregular change to - |
| A21 | 0.04 - 0.1 m | Grey (10YR5/1-Moist); Light brownish grey (10YR6/2-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 90-100%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Gradual change to - |
| A22 | 0.1 - 0.2 m | Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Dry; Loose consistence; 90-100%, Substrate material, coarse fragments; Diffuse change to - |
| A23 | 0.2 - 0.3 m | Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 90-100%, Substrate material, coarse fragments; Diffuse change to - |
| A24 | 0.3 - 0.6 m | Pale brown (10YR6/3-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; 90-100%, bouldery, 600mm-2m, Substrate material, coarse fragments; Gradual change to - |
| A25 | 0.6 - 0.9 m | Light yellowish brown (10YR6/4-Moist); Light grey (10YR7/2-Dry); ; Sand; Single grain grade of structure; Moderately moist; Loose consistence; Diffuse, Irregular change to - |
| | 0.9 - 1.2 m | ; Sand; Weak grade of structure, 20-50 mm, Platy; |
| | 1.2 - 1.37 m | ; Clayey sand; Weak grade of structure, 20-50 mm, Platy; Abrupt, Irregular change to - |
| | 1.37 - 1.5 m | Brownish yellow (10YR6/6-Dry); , 10R56; Sandy clay loam; Weak grade of structure, 20-50 mm, Platy; Diffuse, Irregular change to - |
| | 1.5 - 1.63 m | Reddish yellow (7.5YR6/6-Dry); , 10R46; , 10YR63; Sandy clay loam; Massive grade of structure; Very strong consistence; Diffuse change to - |
| | 1.63 - 1.8 m | Brownish yellow (10YR6/6-Dry); , 10YR73; , 10R46; Sandy clay loam; Massive grade of structure; Very strong consistence; 10-20%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Clear, Irregular change to - |

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| | |
|---------------|---|
| 1.8 - 2 m | Brownish yellow (10YR6/6-Dry); , 10YR76; , 2.5Y74; Sandy medium clay; Massive grade of structure; Very strong consistence; 2-10%, Substrate material, coarse fragments; , Ferruginous, Coarse (6 - 20 mm), Soft segregations; FewDiffuse change to - |
| 2 - 2.25 m | Light grey (2.5Y7/2-Dry); , 10YR76; , 7.5YR66; Medium clay; Massive grade of structure; 2-10%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Few cutans, <10% of ped faces or walls coated; Few, very fine (0-1mm) roots; Gradual change to - |
| 2.25 - 2.44 m | Strong brown (7.5YR5/6-Dry); , 2.5Y72; , 10R46; Medium clay; Massive grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; FewClear change to - |
| 2.44 - 2.53 m | Strong brown (7.5YR5/6-Dry); , 7.5R44; , 2.5Y82; Medium clay; Massive grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; Clear change to - |
| 2.53 - 2.73 m | White (2.5Y8/1-Dry); , 7.5YR68; , 7.5R44; Medium clay; Massive grade of structure; Many cutans, >50% of ped faces or walls coated, distinct; FewDiffuse change to - |
| 2.73 - 2.88 m | White (2.5Y8/1-Dry); , 7.5R44; , 7.5YR66; Medium clay; Massive grade of structure; Common cutans, 10-50% of ped faces or walls coated, distinct; Few, very fine (0-1mm) roots; |

Morphological Notes

Observation Notes

0-225CM AL GV IS FERRUGINOUS: 90-137CM FRAGMENTARY DURICRUST: LAYERS RE NUMBERED 15/10/92

Site Notes

AVON L.S.2/80

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1.2 - 1.37
1.37 - 1.5
1.5 - 1.63
1.63 - 1.8
1.8 - 2
2 - 2.25
2.25 - 2.44
2.44 - 2.53
2.53 - 2.73
2.73 - 2.88

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Laboratory Analyses Completed for this profile

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|-----------|--|
| 15_NR | Sum of Ex. cations + Ex. acidity - Not recorded |
| 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 |