

Project Name: SC
Project Code: SC **Site ID:** C312 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|--|
| Desc. By: | D.C. van Dijk | Locality: | Quarry or blow hole camping area Kiama |
| Date Desc.: | 25/01/56 | Elevation: | 25 metres |
| Map Ref.: | Sheet No. : 9028 1:100000 | Rainfall: | 1160 |
| Northing/Long.: | 150.85 | Runoff: | Rapid |
| Easting/Lat.: | -34.6666666666667 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|---------|------------------------------------|---------------------------|
| ExposureType: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Non-porous, dense, Basalt |

Land Form

| | | | |
|-------------------------|-----------------------------------|------------------------|-----------------|
| Rel/Slope Class: | Undulating low hills 30-90m 3-10% | Pattern Type: | Low hills |
| Morph. Type: | Hillock | Relief: | No Data |
| Elem. Type: | Cone | Slope Category: | Gently inclined |
| Slope: | 5 % | Aspect: | No Data |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | | | |
|--|---|--------------------------------|--------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Melanic Mesotrophic Brown Chromosol | | Principal Profile Form: | N/A |
| ASC Confidence: | No analytical data and little or no knowledge of this soil. | Great Soil Group: | Prairie soil |

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|---|---------------|---|
| A | 0 - 0.1 m | Black (7.5YR2/0-Moist); ; Silty clay loam; Strong grade of structure, <2 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Field pH 6.1 (pH meter); |
| | 0.1 - 0.3 m | Black (7.5YR2/0-Moist); ; Silty clay loam; Strong grade of structure, <2 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; 0-2%, stony, 200-600mm, dispersed, Basalt, coarse fragments; Field pH 6.2 (pH meter); |
| | 0.3 - 0.51 m | Grey (5YR5/1-Moist); ; Silty clay loam; Strong grade of structure, <2 mm, Angular blocky; Weak consistence; 2-10%, stony, 200-600mm, dispersed, Basalt, coarse fragments; Field pH 5.9 (pH meter); |
| | 0.51 - 0.66 m | Brown (7.5YR4/2-Moist); ; Silty clay loam; Moderate grade of structure, <2 mm, Angular blocky; Weak consistence; 2-10%, stony, 200-600mm, dispersed, Basalt, coarse fragments; Field pH 5.9 (pH meter); |
| | 0.66 - 0.91 m | Light olive brown (2.5Y5/4-Moist); , 10R44, 20-50% ; , 20-50% ; Heavy clay; 10-20 mm, Angular blocky; Strong grade of structure, 50-100 mm, Prismatic; Very firm consistence; Field pH 5.5 (pH meter); |
| | 1.32 - 1.52 m | White (10YR8/2-Moist); , 10R46, 20-50% ; , 20-50% ; Heavy clay; 5-10 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Field pH 5 (pH meter); |
| | 1.52 - 1.82 m | ; Field pH 5 (pH meter); |

Morphological Notes

Parent material:soft weathered basalt

Observation Notes

GERIGONG BASALT (PERMIAN) WORM ACTIVITY TO 50CM:STONE LAYER 30-66CM

Site Notes

KIAMA

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | Exchangeable | CEC | ECEC | ESP |
|-------|----|--------|----------------------|----|---|--------------|---------|------|-----|
| m | | dS/m | Ca | Mg | K | Na | Acidity | | |
| | | | | | | Cmol (+)/kg | | | % |

| Depth | CaCO3 | Organic | Avail. | Total | Total | Total | Bulk | Particle | | Size | Analysis | |
|-------|-------|---------|--------|-------|-------|-------|---------|----------|----|------|----------|------|
| m | % | C | P | P | N | K | Density | GV | CS | FS | Silt | Clay |
| | | % | mg/kg | % | % | % | Mg/m3 | | | % | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | | K sat | K unsat |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|-------|---------|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| m | | | | | g/g - | m3/m3 | | | mm/h | mm/h |

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Laboratory Analyses Completed for this profile