Project Name: DAN

Project Code: DAN Site ID: P453 Observation ID: 1

Agency Name: CSIRO Division of Soils (WA)

**Site Information** 

Desc. By: H.M. Churchwood Locality: 23.4KM W of Moora on `Yarri Yarri' Station + 5CH N of

Moora/Dandaraganrd:25CH from S boundary + 30CH

from E boundary:

No Data Date Desc.: 02/08/61 Elevation: Map Ref.: Sheet No. : 2036 1:100000 Rainfall: Northing/Long.: 115.675 Runoff: No Data Easting/Lat.: -30.5466666666667 Drainage: No Data

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: Sand

**Land Form** 

Rel/Slope Class:No DataPattern Type:No DataMorph. Type:Lower-slopeRelief:No Data

Elem. Type: Hillslope Slope Category: Moderately inclined

Slope: 0 % Aspect: No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABasic Regolithic Orthic TenosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

All necessary analytical data are available.

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

Vegetation:

Mid Strata - Tree, , Sparse. \*Species includes - None recorded Tall Strata - Tree, , . \*Species includes - None Recorded

## **Surface Coarse Fragments:**

## **Profile Morphology**

| 0 - 0.08 m    | Yellowish red (5YR5/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
|---------------|---|
| 0.08 - 0.2 m  | Yellowish red (5YR5/8-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 0.2 - 0.3 m   | Yellowish red (5YR5/8-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 0.3 - 0.41 m  | Red (2.5YR5/8-Moist); ; Sand; Single grain grade of structure; Very weak consistence;         |
| 0.53 - 0.76 m | Red (2.5YR5/8-Moist); ; Sand; Single grain grade of structure; Very weak consistence;         |
| 0.96 - 1.17 m | Yellowish red (5YR5/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 1.52 - 1.68 m | Yellowish red (5YR5/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 1.83 - 1.98 m | Yellowish red (5YR5/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 2.44 - 2.59 m | Yellowish red (5YR5/8-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 3.5 - 3.66 m  | Yellowish red (5YR5/8-Moist); ; Sand; Single grain grade of structure; Very weak consistence; |
| 4.72 - 4.88 m | Red (2.5YR4/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence;         |
| 4.88 - 5.18 m | Red (10R4/6-Moist); ; Sand; Single grain grade of structure; Very weak consistence;           |

## **Morphological Notes**

**Observation Notes** 

**Site Notes** 

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| Laboratory Test Results.  |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
|---------------------------|-------|---------|------------|---------------------------------------|-----------|----------------|------------------|-----|-------|---------|----------|-----|--|
| Depth                     | рН    | 1:5 EC  |            | hangeable                             |           |                | xchangeable      | CEC | E     | CEC     | E        | SP  |  |
| m                         |       | dS/m    | Ca         | Mg                                    | K         | Na<br>Cmol (+) | Acidity          |     |       |         | 9        | ,   |  |
| ""                        |       | us/III  |            |                                       |           | Cilioi (+)     | /kg              |     |       |         | 7        | 0   |  |
| 0 - 0.08                  | 6.6A  | 0.015A  | 2.3K       | 0.8                                   | 0.05      | 0.04           |                  |     |       |         |          |     |  |
| 0.08 - 0.2                | 6.6A  | 0.012A  | 1K         | 0.65                                  | 0.03      | 0.06           |                  |     |       |         |          |     |  |
| 0.2 - 0.3                 | 6.8A  | 0.012A  |            | 0.00                                  | 0.00      | 0.00           |                  |     |       |         |          |     |  |
| 0.3 - 0.41                | 6.5A  | 0.015A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0.53 - 0.76               | 5.6A  | 0.012A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0.96 - 1.17               | 6.1A  | 0.009A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 1.52 - 1.68               | 6.1A  | 0.012A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 1.83 - 1.98               | 6.1A  | 0.012A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 2.44 - 2.59               | 6A    | 0.015A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 3.5 - 3.66                | 5.9A  | 0.012A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 4.72 - 4.88               | 5.7A  | 0.018A  |            |                                       |           |                |                  |     |       |         |          |     |  |
| 4.88 - 5.18               | 5.7A  | 0.018A  |            |                                       |           |                |                  |     |       |         |          |     |  |
|                           |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| Depth                     | CaCO3 | Organic | Avail.     | Total                                 | Total     | Total          | Bulk             |     |       |         | Analysis |     |  |
| m                         | %     | C<br>%  | P<br>mg/kg | P<br>%                                | N<br>%    | K<br>%         | Density<br>Mg/m3 | GV  | CS    | FS<br>% | Silt (   | Jay |  |
|                           | ,,,   | , ,     |            | , ,                                   | ,-        |                |                  |     |       |         |          |     |  |
| 0 - 0.08                  |       | 0.93D   |            | 0.011D                                | 0.03      | 89B            |                  | 1   | 71D   | 22      | 1        | 5   |  |
| 0.08 - 0.2                |       | 0.34D   |            | 0.01D                                 | 0.01      | 9B             |                  | <1  | 68D   | 25      | 2        | 5   |  |
| 0.2 - 0.3                 |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0.3 - 0.41                |       |         |            | 0.083D                                | )         |                |                  | <1  | 63D   | 30      | 1        | 5   |  |
| 0.53 - 0.76               |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0.96 - 1.17               |       |         |            | 0.009D                                | )         |                |                  | <1  | 57D   | 37      | 2        | 4   |  |
| 1.52 - 1.68               |       |         |            |                                       |           |                |                  |     |       |         | _        | _   |  |
| 1.83 - 1.98               |       |         |            | 0.006D                                | )         |                |                  | <1  | 53D   | 40      | 2        | 4   |  |
| 2.44 - 2.59               |       |         |            | 0.0440                                |           |                |                  | .4  | 40D   | 40      | _        | _   |  |
| 3.5 - 3.66<br>4.72 - 4.88 |       |         |            | 0.011D                                | ,         |                |                  | <1  | 48D   | 43      | 5        | 5   |  |
| 4.88 - 5.18               |       |         |            | 0.019D                                | )         |                |                  | 24  | 41D   | 46      | 3        | 10  |  |
|                           |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| Depth                     | COLE  |         | Gra        | Gravimetric/Volumetric Water Contents |           |                |                  |     | K sat |         | K unsat  |     |  |
| •                         |       | Sat.    | 0.05 Bar   | 0.1 Bar 0.5 Bar                       |           |                |                  | Bar |       |         |          |     |  |
| m                         |       |         |            | g/g                                   | g - m3/m3 | 3              |                  |     | mm/h  | l       | mm/h     |     |  |
| 0 - 0.08                  |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0 - 0.08<br>0.08 - 0.2    |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0.06 - 0.2                |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |
| 0.2 - 0.3                 |       |         |            |                                       |           |                |                  |     |       |         |          |     |  |

<sup>0.3 - 0.41</sup> 

<sup>0.3 - 0.41</sup> 0.53 - 0.76 0.96 - 1.17 1.52 - 1.68 1.83 - 1.98 2.44 - 2.59 3.5 - 3.66 4.72 - 4.88 4.88 - 5.18

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## **Laboratory Analyses Completed for this profile**

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded 15\_NR\_CA 15\_NR\_K 15\_NR\_MG 15\_NR\_NA Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

Air-dry moisture content 2A1 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1\_UC Organic carbon (%) - Uncorrected Walkley and Black method

Total nitrogen (%) - Not recorded 7\_NR 9A\_HCL Total element - P(%) - By boiling HCI

P10\_GRAV

Gravel (%) Clay (%) - Plummet balance P10\_PB\_C P10\_PB\_CS Coarse sand (%) - Plummet balance P10\_PB\_FS P10\_PB\_Z Fine sand (%) - Plummet balance Silt (%) - Plummet balance