

Project Name: Northam (Avon District Agricultural Centre)
Project Code: ADA **Site ID:** 0007 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Ian Fulton **Locality:**
Date Desc.: 05/12/90 **Elevation:** 250 metres
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6503700 AMG zone: 50 **Runoff:** No Data
Easting/Lat.: 545000 Datum: AGD84 **Drainage:** Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type: Upper-slope **Relief:** 20 metres
Elem. Type: No Data **Slope Category:** No Data
Slope: 2 % **Aspect:** No Data

Surface Soil Condition Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
 N/A **Principal Profile Form:** N/A
ASC Confidence: **Great Soil Group:** N/A
 Confidence level not specified

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; 0-2%, , , Granite

Profile

| | | |
|----|---------------|---|
| A1 | 0 - 0.12 m | Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy |
| | | fabric; Field pH 7.5 (pH meter); Abrupt change to - |
| B2 | 0.12 - 0.35 m | Brown (7.5YR4/4-Moist); , 2-10% , 5-15mm; Medium clay; Moderate grade of structure, 10-20 mm, |
| | | Polyhedral; Smooth-ped fabric; Few (2 - 10 %), Calcareous, , ; Soil matrix is Highly calcareous; Field pH |
| | | 9 (pH meter); Gradual change to - |
| B2 | 0.35 - 0.85 m | Strong brown (7.5YR5/6-Moist); , 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, |
| | | 10-20 mm, Polyhedral; Smooth-ped fabric; Many (20 - 50 %), Calcareous, , ; Soil matrix is Highly |
| | | calcareous; Field pH 9 (pH meter); Gradual change to - |
| BC | 0.85 - 1.05 m | Brown (7.5YR4/4-Moist); , 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, 10-20 |
| | | mm, Polyhedral; Smooth-ped fabric; Few (2 - 10 %), Calcareous, , ; Soil matrix is Highly calcareous; |

Morphological Notes

Observation Notes

Site Notes

Clay would be dispersive adjacent wheat crop not so good. - sandy loam duplex

Project Name: Northam (Avon District Agricultural Centre)
Project Code: ADA **Site ID:** 0007 **Observation** 1
Agency Name: Agriculture Western Australia

Laboratory Test Results:

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

| | | |
|-------------|------|------|
| 0 - 0.1 | 8.3B | 29B |
| | 9.2H | |
| 0 - 0.1 | 8.3B | 29B |
| | 9.2H | |
| 0.1 - 0.4 | 8.5B | 109B |
| | 9.3H | |
| 0.1 - 0.4 | 8.5B | 109B |
| | 9.3H | |
| 0.4 - 0.6 | 8.8B | 167B |
| | 9.6H | |
| 0.4 - 0.6 | 8.8B | 167B |
| | 9.6H | |
| 0.6 - 0.85 | 8.7B | 172B |
| | 9.5H | |
| 0.6 - 0.85 | 8.7B | 172B |
| | 9.5H | |
| 0.85 - 1.05 | 8.7B | 200B |
| | 9.2H | |
| 0.85 - 1.05 | 8.7B | 200B |
| | 9.2H | |

| Depth | CaCO ₃ | Organic C Clay | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt |
|-------------|-------------------|-------------------|-------------|------------|------------|------------|-------------------|----------------|------------|----------------|------|
| m | % | % | mg/kg | % | % | % | Mg/m ³ | | | % | |
| 0 - 0.1 | | 0.92D | | | | | | | | 41.5 | 15.1 |
| 16.5 | | | | | | | | | | | |
| 0 - 0.1 | | 0.92D | | | | | | | | 41.5 | 15.1 |
| 16.5 | | | | | | | | | | | |
| 0.1 - 0.4 | | 0.41D | | | | | | | | 22.1 | 9 |
| 47.1 | | | | | | | | | | | |
| 0.1 - 0.4 | | 0.41D | | | | | | | | 22.1 | 9 |
| 47.1 | | | | | | | | | | | |
| 0.4 - 0.6 | 26C | 0.22D | | | | | | | | 16 | 15.9 |
| 52.3 | | | | | | | | | | | |
| 0.4 - 0.6 | 26C | 0.22D | | | | | | | | 16 | 15.9 |
| 52.3 | | | | | | | | | | | |
| 0.6 - 0.85 | 23C | 0.15D | | | | | | | | 15.2 | 15.2 |
| 53.4 | | | | | | | | | | | |
| 0.6 - 0.85 | 23C | 0.15D | | | | | | | | 15.2 | 15.2 |
| 53.4 | | | | | | | | | | | |
| 0.85 - 1.05 | | 0.19D | | | | | | | | 14.3 | 7.8 |
| 56 | | | | | | | | | | | |
| 0.85 - 1.05 | | 0.19D | | | | | | | | 14.3 | 7.8 |
| 56 | | | | | | | | | | | |

Laboratory Analyses Completed for this profile

| | |
|------------|---|
| 18_NR | Extractable potassium (not recorded) |
| 19B_NR | Calcium Carbonate (CaCO ₃) - Not recorded |
| 3_NR | Electrical conductivity or soluble salts - Not recorded |
| 4_NR | pH of soil - Not recorded |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 9_E_NR | Phosphorus extractable - method not recorded |
| 9H1 | Anion storage capacity |
| P10_1m2m | 1000 to 2000u particle size analysis, (method not recorded) |
| P10_20_75 | 20 to 75u particle size analysis, (method not recorded) |
| P10_75_106 | 75 to 106u particle size analysis, (method not recorded) |
| P10_gt2m | > 2mm particle size analysis, (method not recorded) |
| P10_NR_C | Clay (%) - Not recorded |

Project Name: Northam (Avon District Agricultural Centre)
Project Code: ADA **Site ID:** 0007 **Observation** 1
Agency Name: Agriculture Western Australia

P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated
 P10_NR_Z Silt (%) - Not recorded
 P10_PB_FS Fine sand (%) - Plummert balance
 P10106_150 106 to 150u particle size analysis, (method not recorded)
 P10150_180 150 to 180u particle size analysis, (method not recorded)
 P10180_300 180 to 300u particle size analysis, (method not recorded)
 P102002000 200 to 2000u particle size analysis, (method not recorded)
 P10300_600 300 to 600u particle size analysis, (method not recorded)
 P106001000 600 to 1000u particle size analysis, (method not recorded)