

**Project Name:** Northam (Avon District Agricultural Centre)  
**Project Code:** ADA **Site ID:** 0001 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	04/12/90	<b>Elevation:</b>	295 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6490800 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	452000 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Rolling low hills 30-90m 10-32%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	50 metres
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	18 %	<b>Aspect:</b>	No Data

**Surface Soil Condition** Hardsetting

#### Erosion:

#### Soil Classification

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

#### Site

#### Vegetation:

**Surface Coarse** 2-10%, medium gravelly, 6-20mm, , ; 2-10%, , ,

#### Profile

A1	0 - 0.12 m	Brown (10YR4/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; 10-20%,
		coarse gravelly, 20-60mm, subangular, , coarse fragments; Abrupt change to -
B21	0.12 - 0.4 m	Light brown (7.5YR6/4-Moist); , 2-10% , 0-5mm, Distinct; Light clay; Strong grade of structure, 10-20
		mm, Polyhedral; Smooth-ped fabric; Dry; Gradual change to -
B22	0.4 - 0.8 m	Reddish yellow (7.5YR7/6-Moist); , 20-50% , 5-15mm, Prominent; Light medium clay; Strong grade of
		structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Gradual change to -
BC	0.8 - 1.2 m	White (10YR8/1-Moist); , 10-20% , 5-15mm, Prominent; Clay loam; Strong grade of structure, 10-20 mm,
		Polyhedral; Smooth-ped fabric; Dry; Gradual change to -

#### Morphological Notes

#### Observation Notes

#### Site Notes

Very bare surface 50 m below breakaway; gravelly sl/clay, non wetting.

**Project Name:** Northam (Avon District Agricultural Centre)  
**Project Code:** ADA **Site ID:** 0001 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

**Desc. By:** Tim Overheu  
**Date Desc.:** 04/12/90  
**Map Ref.:**  
**Northing/Long.:** 6490800 AMG zone: 50  
**Easting/Lat.:** 452000 Datum: AGD84  
**Locality:**  
**Elevation:** 295 metres  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Moderately well drained

#### Geology

**Exposure Type:** Undisturbed soil core  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

#### Land Form

**Rel/Slope Class:** Rolling low hills 30-90m 10-32%  
**Morph. Type:** No Data  
**Elem. Type:** No Data  
**Slope:** 18 %  
**Pattern Type:** Hills  
**Relief:** 50 metres  
**Slope Category:** No Data  
**Aspect:** No Data

#### Surface Soil Condition Hardsetting

#### Erosion:

#### Soil Classification

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

#### Site

#### Vegetation:

#### Surface Coarse 2-10%, medium gravelly, 6-20mm, , , 2-10%, , ,

#### Profile

**A1** 0 - 0.12 m Brown (10YR4/3-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; 10-20%, coarse gravelly, 20-60mm, subangular, , coarse fragments; Abrupt change to -  
**B21** 0.12 - 0.4 m Light brown (7.5YR6/4-Moist); , 2-10% , 0-5mm, Distinct; Light clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Gradual change to -  
**B22** 0.4 - 0.8 m Reddish yellow (7.5YR7/6-Moist); , 20-50% , 5-15mm, Prominent; Light medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Gradual change to -  
**BC** 0.8 - 1.2 m White (10YR8/1-Moist); , 10-20% , 5-15mm, Prominent; Clay loam; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Gradual change to -

#### Morphological Notes

#### Observation Notes

#### Site Notes

Very bare surface 50 m below breakaway; gravelly sl/clay, non wetting.

**Project Name:** Northam (Avon District Agricultural Centre)  
**Project Code:** ADA **Site ID:** 0001 **Observation** 1  
**Agency Name:** Agriculture Western Australia

#### Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.12	5B	30B								
	5.7H									
0 - 0.12	5B	30B								
	5.7H									
0.12 - 0.4	4.7B	39B								
	5.3H									
0.12 - 0.4	4.7B	39B								

	5.3H	
0.4 - 0.8	4.7B	112B
	5.1H	
0.4 - 0.8	4.7B	112B
	5.1H	
0.8 - 1.2	4.9B	149B
	5.3H	
0.8 - 1.2	4.9B	149B
	5.3H	

Depth	CaCO <sub>3</sub>	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 <sup>3</sup>			%	
0 - 0.12		4.03D								40.5	15.1
21.7											
0 - 0.12		4.03D								40.5	15.1
21.7											
0.12 - 0.4		0.72D								10.3	16.6
63.8											
0.12 - 0.4		0.72D								10.3	16.6
63.8											
0.4 - 0.8		0.33D								7.2	12
69.4											
0.4 - 0.8		0.33D								7.2	12
69.4											
0.8 - 1.2		0.14D								14.4	20.8
61.8											
0.8 - 1.2		0.14D								14.4	20.8
61.8											

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

18_NR	Extractable potassium (not recorded)
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method 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
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)

**Project Name:** Northam (Avon District Agricultural Centre)  
**Project Code:** ADA **Site ID:** 0001 **Observation** 1  
**Agency Name:** Agriculture Western Australia

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)