

**Project Name:** Dandaragan land resources survey  
**Project Code:** DAN **Site ID:** 0844 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Ted (E.A.) Griffin	<b>Locality:</b>	
<b>Date Desc.:</b>	13/05/96	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6656364 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	367464 Datum: AGD84	<b>Drainage:</b>	No Data

#### Geology

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

**Rel/Slope Class:** Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Basic Regolithic Sequi-Nodular Tenosol	<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A
All necessary analytical data are available.		

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

#### Vegetation:

#### Surface Coarse

#### Profile

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Loamy fine sand; 10-20%, medium gravelly, 6-20mm, subrounded,
		Ironstone, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 5.6 (pH meter); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21c	0.1 - 0.5 m	Pale brown (10YR6/3-Moist); ; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots;
B22c	0.5 - 0.8 m	Very pale brown (10YR7/4-Moist); ; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 50-90%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots;
B23c	0.8 - 1.4 m	Very pale brown (10YR7/4-Moist); ; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; 50-90%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots; Gradual, Irregular change to -
B24c	1.4 - 1.7 m	Brownish yellow (10YR6/6-Moist); ; Clayey coarse sand; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 6.6 (pH meter); Gradual, Irregular change to
	1.7 - 2 m	; Massive grade of structure;

#### Morphological Notes

B21c Weakly clayey fine sandy gravel  
 B22c Weakly clayey medium to fine sandy gravel  
 B23c Weakly clayey coarse to fine sandy gravel

### Observation Notes

### Site Notes

photos also include roll 17; 21-18

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### 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	5.2B 5.9H	11B	4.08H	0.72	0.23	0.18	0.02J		5.21D	
0 - 0.1	5.2B 5.9H	11B	4.08H	0.72	0.23	0.18	0.02J		5.21D	
0.1 - 0.5	4.8B 5.8H	1B	0.4H	0.06	0.02	0.06	0.05J		0.54D	
0.1 - 0.5	4.8B 5.8H	1B	0.4H	0.06	0.02	0.06	0.05J		0.54D	
0.5 - 0.8	5.2B 6.1H	1B	0.34H	0.08	0.03	0.08	<0.02J		0.53D	
0.5 - 0.8	5.2B 6.1H	1B	0.34H	0.08	0.03	0.08	<0.02J		0.53D	
0.8 - 1.1										
1.1 - 1.4	5.7B 6.6H	2B	0.73A	0.4	0.11	0.06			1.3D	
1.1 - 1.4	5.7B 6.6H	2B	0.73A	0.4	0.11	0.06			1.3D	
1.4 - 1.7	5.8B 6.6H	2B	0.96A	0.65	0.1	0.11			1.82D	
1.4 - 1.7	5.8B 6.6H	2B	0.96A	0.65	0.1	0.11			1.82D	
1.7 - 2	5.9B 6.4H	2B	0.58H	0.71	0.05	0.1	<0.02J		1.44D	
1.7 - 2	5.9B 6.4H	2B	0.58H	0.71	0.05	0.1	<0.02J		1.44D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1		2.3D		179B	0.165E				1.5
0 - 0.1		2.3D		179B	0.165E				1.5
0.1 - 0.5		0.26D		54B	0.017E				1.8
0.1 - 0.5		0.26D		54B	0.017E				1.8
0.5 - 0.8		0.12D		47B	0.009E				1.5
0.5 - 0.8		0.12D		47B	0.009E				1.5
0.8 - 1.1									
1.1 - 1.4		0.16D		56B	0.011E				1.8
1.1 - 1.4		0.16D		56B	0.011E				1.8
1.4 - 1.7		0.13D		65B	0.011E				2.7
1.4 - 1.7		0.13D		65B	0.011E				2.7
1.7 - 2		0.06D		68B	0.007E				2.6

23.3				
1.7 - 2	0.06D	68B	0.007E	2.6
23.3				

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts

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15A1_K for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_MG for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn <sup>2+</sup> ) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (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
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)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)