Project Name: **Dandaragan land resources survey**
Project Code: **DAN** **Site ID:** **0841** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Ted (E.A.) Griffin	**Locality:**	
Date Desc.:	08/05/96	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6656245 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	367422 Datum: AGD84	**Drainage:**	No Data

Geology

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

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	0 degrees

Surface Soil Condition Loose

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Basic Ferric Bleached-Orthic Tenosol **Principal Profile Form:** N/A
ASC Confidence: **Great Soil Group:** N/A
All necessary analytical data are available.

Site Vegetation:

Surface Coarse

Profile

A1h 0 - 0.1 m Light brownish grey (2.5Y6/2-Moist); ; Clayey fine sand; Single grain grade of structure; Strongly water repellent, "Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -

A2e 0.1 - 0.4 m Pale yellow (2.5Y7/3-Moist); ; Clayey fine sand; Single grain grade of structure; Field pH 5.9 (pH meter); Few, fine (1-2mm) roots; Gradual, Smooth change to -

B1 0.4 - 0.7 m Yellow (2.5Y7/6-Moist); ; Loamy fine sand; Single grain grade of structure; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots;

B21 0.7 - 1 m Yellow (10YR7/6-Moist); , 10YR72, 0-2% ; Clayey fine sand; Single grain grade of structure; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots;

B22w 1 - 1.3 m Yellow (10YR7/8-Moist); , 10YR72, 0-2% ; Clayey fine sand; Single grain grade of structure; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots;

B23 1.3 - 1.6 m Brownish yellow (10YR6/8-Moist); , 10YR72, 0-2% ; Clayey fine sand; Single grain grade of structure; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, Ironstone, coarse fragments; Field pH 6.2 (pH meter); Few, very fine (0-1mm) roots;

B24 1.6 - 1.9 m Brownish yellow (10YR6/8-Moist); , 10YR72, 0-2% ; Clayey fine sand; Single grain grade of structure; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 6.4 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -

B25c	1.9 - 2.2 m	Yellow (2.5Y7/6-Moist); ; 2-10%, 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); Gradual, Irregular change to -
B26c	2.2 - 2.8 m	Yellow (2.5Y7/6-Moist); Mottles, 2.5YR48, 10-20% , 30-mm, Distinct; Mottles, 10YR86, 10-20% , 30-mm, Distinct; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; 20-50%, coarse gravelly, 20-60mm, subrounded, Ironstone, coarse fragments; Field pH 6.4 (pH meter); Clear, Irregular change to -

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2.8 - 3 m Yellow (2.5Y7/6-Moist); Mottles, 2.5YR48, 20-50% , 30-mm, Distinct; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone, coarse fragments; Field pH 6.2 (pH meter);

Morphological Notes

B25c Heavy clayey fine to coarse sandy gravel
B26c Heavy clayey fine to coarse sandy gravel

Observation Notes

Site Notes

photos also include roll 17; 25-22

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5B 5.8H	4B	0.9H	0.12	0.04	0.11	0.02J		1.17D	
0 - 0.1	5B 5.8H	4B	0.9H	0.12	0.04	0.11	0.02J		1.17D	
0.1 - 0.4	5B 5.8H	1B	0.19H	0.02	0.02	0.11	0.02J		0.34D	
0.1 - 0.4	5B 5.8H	1B	0.19H	0.02	0.02	0.11	0.02J		0.34D	
0.12 - 0.16										
0.4 - 0.7	5.3B 6H	1B	0.14H	<0.02	<0.02	0.1	<0.02J		0.26D	
0.4 - 0.7	5.3B 6H	1B	0.14H	<0.02	<0.02	0.1	<0.02J		0.26D	
0.6 - 0.64										
0.7 - 1	5.4B 6.2H	1B	0.19H	0.02	<0.02	0.06	<0.02J		0.28D	
0.7 - 1	5.4B 6.2H	1B	0.19H	0.02	<0.02	0.06	<0.02J		0.28D	
1 - 1.3										
1.3 - 1.6										
1.6 - 1.9	5.6B 6.4H	1B	0.14H	0.09	<0.02	0.04	<0.02J		0.28D	
1.6 - 1.9	5.6B 6.4H	1B	0.14H	0.09	<0.02	0.04	<0.02J		0.28D	
1.7 - 1.74										
1.9 - 2.2										
2.2 - 2.5	5.9B 6.3H	2B	0.53H	0.48	<0.02	0.08	<0.02J		1.1D	
2.2 - 2.5	5.9B 6.3H	2B	0.53H	0.48	<0.02	0.08	<0.02J		1.1D	
2.5 - 2.8										
2.8 - 3	5.7B 6H	1B	0.31H	0.37	<0.02	0.07	<0.02J		0.76D	
2.8 - 3	5.7B 6H	1B	0.31H	0.37	<0.02	0.07	<0.02J		0.76D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1		0.57D		45B	0.028E						1.6

0.5					
0 - 0.1	0.57D	45B	0.028E		1.6
0.5					
0.1 - 0.4	0.09D	27B	0.005E		1.4
0.1					
0.1 - 0.4	0.09D	27B	0.005E		1.4
0.1					
0.12 - 0.16				1.59	
0.4 - 0.7	0.05D	28B	0.003E		1.3
0.4					
0.4 - 0.7	0.05D	28B	0.003E		1.3
0.4					
0.6 - 0.64				1.56	
0.7 - 1	0.06D	28B	0.005E		1.2
1.9					
0.7 - 1	0.06D	28B	0.005E		1.2
1.9					
1 - 1.3					

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1.3 - 1.6					
1.6 - 1.9	0.05D	30B	0.004E		1.1
2.5					
1.6 - 1.9	0.05D	30B	0.004E		1.1
2.5					
1.7 - 1.74				1.59	
1.9 - 2.2					
2.2 - 2.5	0.06D	28B	0.006E		0.9
10.9					
2.2 - 2.5	0.06D	28B	0.006E		0.9
10.9					
2.5 - 2.8					
2.8 - 3	0.04D	22B	0.003E		1.8
10.9					
2.8 - 3	0.04D	22B	0.003E		1.8
10.9					

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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 (Mn2+) 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
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)
P3A_NR	Bulk density - Not recorded