

Project Name: Soil Carbon Paired Sites project
Project Code: SC2 **Site ID:** COU1 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Bill Verboom **Locality:**
Date Desc.: 22/02/01 **Elevation:** No Data
Map Ref.: **Rainfall:** No Data
Northing/Long.: 6276608 AMG zone: 51 **Runoff:** No Data
Easting/Lat.: 481071 Datum: AGD84 **Drainage:** Well drained

Geology

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

Landform

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

Morph. Type: Mid-slope **Relief:** 30 metres
Elem. Type: Hillslope **Slope Category:** No Data
Slope: 1 % **Aspect:** 270 degrees

Surface Soil Condition Loose

Erosion (wind); (scald) (sheet) (rill) (gully)

Soil Classification

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

Site Disturbance No effective disturbance. Natural

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Clear, Smooth change to -
A21	0.1 - 0.2 m	Pale brown (10YR6/3-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Diffuse, Smooth change to -
A22	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Diffuse, Smooth change to -
A23	0.3 - 0.55 m	Brownish yellow (10YR6/6-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Clear, Wavy change to -
A3	0.55 - 0.65 m	Brownish yellow (10YR6/6-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; 50-90%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Abrupt, Smooth change to -
B2	0.65 - 0.95 m	Light grey (10YR7/2-Moist); ; 7.5YR58, 10-20% , 15-30mm, Distinct; Light clay; Strong grade of structure, Angular blocky; Moderately moist; Very firm consistence;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity	%	
0 - 0.1	5B 6.2H	2B	1.46H	0.35	0.06	0.05	0.05J	1.92D
0 - 0.1	5B 6.2H	2B	1.46H	0.35	0.06	0.05	0.05J	1.92D
0 - 0.1	5B 6.2H	2B	1.46H	0.35	0.06	0.05	0.05J	1.92D
0 - 0.1	5B 6.2H	2B	1.46H	0.35	0.06	0.05	0.05J	1.92D
0 - 0.1	5B 6.2H	2B	1.46H	0.35	0.06	0.05	0.05J	1.92D
0 - 0.1	5B 6.2H	2B	1.46H	0.35	0.06	0.05	0.05J	1.92D
0.1 - 0.2	5B 6.3H	2B	0.91H	0.33	0.06	0.06	0.06J	1.36D
0.1 - 0.2	5B 6.3H	2B	0.91H	0.33	0.06	0.06	0.06J	1.36D
0.1 - 0.2	5B 6.3H	2B	0.91H	0.33	0.06	0.06	0.06J	1.36D
0.1 - 0.2	5B 6.3H	2B	0.91H	0.33	0.06	0.06	0.06J	1.36D
0.1 - 0.2	5B 6.3H	2B	0.91H	0.33	0.06	0.06	0.06J	1.36D
0.1 - 0.2	5B 6.3H	2B	0.91H	0.33	0.06	0.06	0.06J	1.36D
0.2 - 0.3	5.2B 6.4H	2B	0.45H	0.2	0.04	0.06	0.03J	0.75D
0.2 - 0.3	5.2B 6.4H	2B	0.45H	0.2	0.04	0.06	0.03J	0.75D
0.2 - 0.3	5.2B 6.4H	2B	0.45H	0.2	0.04	0.06	0.03J	0.75D
0.2 - 0.3	5.2B 6.4H	2B	0.45H	0.2	0.04	0.06	0.03J	0.75D
0.2 - 0.3	5.2B 6.4H	2B	0.45H	0.2	0.04	0.06	0.03J	0.75D
0.2 - 0.3	5.2B 6.4H	2B	0.45H	0.2	0.04	0.06	0.03J	0.75D
0.3 - 0.55	5.6B 6.8H	2B	0.28A	0.23	0.04	0.07		0.62D
0.3 - 0.55	5.6B 6.8H	2B	0.28A	0.23	0.04	0.07		0.62D
0.3 - 0.55	5.6B 6.8H	2B	0.28A	0.23	0.04	0.07		0.62D
0.3 - 0.55	5.6B 6.8H	2B	0.28A	0.23	0.04	0.07		0.62D
0.3 - 0.55	5.6B 6.8H	2B	0.28A	0.23	0.04	0.07		0.62D
0.3 - 0.55	5.6B 6.8H	2B	0.28A	0.23	0.04	0.07		0.62D
0.45 - 0.55 0.55 - 0.65	5.6B 6.8H	2B	0.43A	0.32	0.07	0.07		0.89D

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0.55 - 0.65	5.6B 6.8H	2B	0.43A	0.32	0.07	0.07			0.89D
0.55 - 0.65	5.6B 6.8H	2B	0.43A	0.32	0.07	0.07			0.89D
0.55 - 0.65	5.6B 6.8H	2B	0.43A	0.32	0.07	0.07			0.89D
0.55 - 0.65	5.6B 6.8H	2B	0.43A	0.32	0.07	0.07			0.89D
0.55 - 0.65	5.6B 6.8H	2B	0.43A	0.32	0.07	0.07			0.89D
0.65 - 0.95	5.3B 6H	49B	1.53H	6.37	0.4	1.97	<0.02J		10.27D
0.65 - 0.95	5.3B 6H	49B	1.53H	6.37	0.4	1.97	<0.02J		10.27D
0.65 - 0.95	5.3B 6H	49B	1.53H	6.37	0.4	1.97	<0.02J		10.27D
0.65 - 0.95	5.3B 6H	49B	1.53H	6.37	0.4	1.97	<0.02J		10.27D
0.65 - 0.95	5.3B 6H	49B	1.53H	6.37	0.4	1.97	<0.02J		10.27D
0.75 - 0.85									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%	
0 - 0.1 2		0.84D		16F	0.028B	0.03B				97.5I		0.5
0 - 0.1 2		19.6D 0.84D		110F 16F	0.321B 0.028B	0.03B				97.5I		0.5
0 - 0.1 2		19.6D 0.84D		110F 16F	0.321B 0.028B	0.03B				97.5I		0.5
0 - 0.1 2		19.6D 0.84D		110F 16F	0.321B 0.028B	0.03B				97.5I		0.5
0 - 0.1 2		19.6D 0.84D		110F 16F	0.321B 0.028B	0.03B				97.5I		0.5
0 - 0.1 2		19.6D 0.84D		110F 16F	0.321B 0.028B	0.03B				97.5I		0.5
0.1 - 0.2 1.5		19.6D 0.5D		110F <10F	0.321B 0.011B	0.03B				98I		0.5
0.1 - 0.2 1.5		32.5D 0.5D		86F <10F	0.272B 0.011B	0.03B				98I		0.5
0.1 - 0.2 1.5		32.5D 0.5D		86F <10F	0.272B 0.011B	0.03B				98I		0.5
0.1 - 0.2 1.5		32.5D 0.5D		86F <10F	0.272B 0.011B	0.03B				98I		0.5
0.1 - 0.2 1.5		32.5D 0.5D		86F <10F	0.272B 0.011B	0.03B				98I		0.5
0.1 - 0.2 1.5		32.5D 0.5D		86F <10F	0.272B 0.011B	0.03B				98I		0.5
0.2 - 0.3 1.5		32.5D 0.24D		86F 12F	0.272B <0.005B	0.03B				98I		0.5
0.2 - 0.3		31D 0.24D		57F 12F	0.247B <0.005B	0.03B				98I		0.5

1.5	31D	57F	0.247B			
0.2 - 0.3	0.24D	12F	<0.005B	0.03B	98I	0.5
1.5	31D	57F	0.247B			

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0.2 - 0.3 1.5	0.24D	12F	<0.005B	0.03B	98I	0.5
0.2 - 0.3 1.5	0.24D	12F	<0.005B	0.03B	98I	0.5
0.2 - 0.3 1.5	0.24D	12F	<0.005B	0.03B	98I	0.5
0.3 - 0.55	0.1D 0.95D 14.9D	24F 33F	<0.005B	0.03B 0.019B 0.17B		
0.3 - 0.55	0.1D 0.95D 14.9D	24F 33F	<0.005B	0.03B 0.019B 0.17B		
0.3 - 0.55	0.1D 0.95D 14.9D	24F 33F	<0.005B	0.03B 0.019B 0.17B		
0.3 - 0.55	0.1D 0.95D 14.9D	24F 33F	<0.005B	0.03B 0.019B 0.17B		
0.3 - 0.55	0.1D 0.95D 14.9D	24F 33F	<0.005B	0.03B 0.019B 0.17B		
0.45 - 0.55 0.55 - 0.65	0.19D 0.13D	13F 36F	0.007B <0.005B	0.04B 0.19B		
0.55 - 0.65	0.19D 0.13D	13F 36F	0.007B <0.005B	0.04B 0.19B		
0.55 - 0.65	0.19D 0.13D	13F 36F	0.007B <0.005B	0.04B 0.19B		
0.55 - 0.65	0.19D 0.13D	13F 36F	0.007B <0.005B	0.04B 0.19B		
0.55 - 0.65	0.19D 0.13D	13F 36F	0.007B <0.005B	0.04B 0.19B		
0.55 - 0.65	0.19D 0.13D	13F 36F	0.007B <0.005B	0.04B 0.19B		
0.65 - 0.95	0.21D 0.28D	<10F 19F	0.008B 0.013B	0.37B 0.62B		
0.65 - 0.95	0.21D 0.28D	<10F 19F	0.008B 0.013B	0.37B 0.62B		
0.65 - 0.95	0.21D 0.28D	<10F 19F	0.008B 0.013B	0.37B 0.62B		
0.65 - 0.95	0.21D 0.28D	<10F 19F	0.008B 0.013B	0.37B 0.62B		
0.65 - 0.95	0.21D 0.28D	<10F 19F	0.008B 0.013B	0.37B 0.62B		
0.75 - 0.85	0.28D	19F	0.013B	0.62B		

Laboratory Analyses Completed for this profile

12_NR_FE Total element - Fe(%) - Not recorded
 15_NR_CMRE Exchangeable bases (Ca/Mg ratio) - Not recorded
 15A1_CAF Exchangeable bases (Ca²⁺,Mg²⁺,Na⁺,K⁺) - 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
 15A1_K Exchangeable bases (Ca²⁺,Mg²⁺,Na⁺,K⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts

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15A1_MG for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15A1_NA for soluble	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 (Mn ²⁺) 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	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	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
17A_NR	Total element - K (%) - Not recorded
2A1	Air-dry moisture content
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
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_gt2MI	> 2mm particle size analysis mineral fragments, (method not recorded)
P10_gt2OM	> 2mm particle size analysis organic fragments, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
P3A1_C4	Bulk density - core, 100mm by 81mm dia
TE_NR_AL	Total Element Al - Not recorded
TE_NR_AL2O	Total Element Al ₂ O ₃ - Not recorded
TE_NR_FE2O	Total Element Fe ₂ O ₃ - Not recorded