Project Name: **Soil Carbon Paired Sites project**
Project Code: **SC2** **Site ID:** **NHS1** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Bill Verboom	**Locality:**	
Date Desc.:	24/10/00	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6890905 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	239533 Datum: AGD84	**Drainage:**	Rapidly drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Lower-slope	**Relief:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	270 degrees

Surface Soil Condition

Soft

Erosion

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

Soil Classification

Australian Soil Classification:
Basic Regolithic Yellow-Orthic Tenosol

ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

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

Vegetation

Surface Coarse Fragments

No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1 0 - 0.15 m Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Dry; Very weak consistence;
Water repellent; Clear change to -

A2 0.15 - 0.4 m Light yellowish brown (10YR6/4-Moist); ; Sand; Massive grade of structure; Dry; Weak consistence;
Gradual change to -

B1 0.4 - 0.8 m Brownish yellow (10YR6/8-Moist); ; Sand; Massive grade of structure; Dry; Weak consistence; Diffuse
change to -

B2 0.8 - 1.5 m Brownish yellow (10YR6/8-Moist); ; Sand; Massive grade of structure; Moderately moist; Weak
consistence;

Morphological Notes

A1	Many very fine roots
A2	Few very fine roots, some carbonised remnants of larger K roots
B1	Very few, very fine roots. Old carbonised course (K) roots
B2	Very few, very fine roots. Old carbonised caurse (K) roots.

Observation Notes

Site Notes

wheel ruts, Some wood 0.5 - 2 cm. Dia. on ground, wheat stubble

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.3B	3B	1.54H	0.39	0.03	0.04	<0.02J		2D	
	6.3H									
0 - 0.1	5.3B	3B	1.54H	0.39	0.03	0.04	<0.02J		2D	
	6.3H									
0 - 0.1	5.3B	3B	1.54H	0.39	0.03	0.04	<0.02J		2D	
	6.3H									
0 - 0.1	5.3B	3B	1.54H	0.39	0.03	0.04	<0.02J		2D	
	6.3H									
0 - 0.1	5.3B	3B	1.54H	0.39	0.03	0.04	<0.02J		2D	
	6.3H									
0 - 0.1	5.3B	3B	1.54H	0.39	0.03	0.04	<0.02J		2D	
	6.3H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2H		0.96H	0.22	<0.02	0.02	0.02J		1.21D	
	6.2B									
	6.2H									

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0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J	1.21D
	6.2H		0.96H	0.22	<0.02	0.02	0.02J	1.21D
	6.2B							
	6.2H							
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J	1.21D
	6.2H		0.96H	0.22	<0.02	0.02	0.02J	1.21D
	6.2B							
	6.2H							
0.1 - 0.2	6.2B	2B	0.96H	0.22	<0.02	0.02	0.02J	1.21D
	6.2H		0.96H	0.22	<0.02	0.02	0.02J	1.21D
	6.2B							
	6.2H							
0.2 - 0.3	5.2B	1B	0.46H	0.13	<0.02	<0.02	0.02J	0.61D
	6.3H							
0.2 - 0.3	5.2B	1B	0.46H	0.13	<0.02	<0.02	0.02J	0.61D
	6.3H							
0.2 - 0.3	5.2B	1B	0.46H	0.13	<0.02	<0.02	0.02J	0.61D
	6.3H							
0.2 - 0.3	5.2B	1B	0.46H	0.13	<0.02	<0.02	0.02J	0.61D
	6.3H							
0.3 - 0.5	5.2B	1B	0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	6.2H		0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	5.2B							
	6.2H							
0.3 - 0.5	5.2B	1B	0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	6.2H		0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	5.2B							
	6.2H							
0.3 - 0.5	5.2B	1B	0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	6.2H		0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	5.2B							
	6.2H							
0.35 - 0.45								
0.3 - 0.5	5.2B	1B	0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	6.2H		0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	5.2B							
	6.2H							
0.3 - 0.5	5.2B	1B	0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	6.2H		0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	5.2B							
	6.2H							
0.3 - 0.5	5.2B	1B	0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	6.2H		0.35H	0.11	0.02	<0.02	<0.02J	0.49D
	5.2B							
	6.2H							
0.35 - 0.45								
0.5 - 0.8	5.6B	1B	0.31A	0.16	0.03	0.03		0.53D
	6.6H							
0.5 - 0.8	5.6B	1B	0.31A	0.16	0.03	0.03		0.53D
	6.6H							
0.5 - 0.8	5.6B	1B	0.31A	0.16	0.03	0.03		0.53D
	6.6H							
0.6 - 0.7								
0.8 - 1.1	5.5B	1B	0.59A	0.27	0.04	<0.02		0.91D
	6.5H							
0.8 - 1.1	5.5B	1B	0.59A	0.27	0.04	<0.02		0.91D
	6.5H							

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0.8 - 1.1	5.5B 6.5H	1B	0.59A	0.27	0.04	<0.02	0.91D
0.9 - 1							
1.1 - 1.4	5.5B 6.6H	1B	0.58A	0.23	0.04	0.02	0.87D
1.1 - 1.4	5.5B 6.6H	1B	0.58A	0.23	0.04	0.02	0.87D
1.1 - 1.4	5.5B 6.6H	1B	0.58A	0.23	0.04	0.02	0.87D
1.2 - 1.3							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		Particle	Size	Analysis
		C Clay	P	P	N	K	Density	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 2.4		0.65D		35F	0.047B	0.0076B					1.8
		10.6D		420F	0.529B						
0 - 0.1 2.4		0.65D		35F	0.047B	0.0076B					1.8
		10.6D		420F	0.529B						
0 - 0.1 2.4		0.65D		35F	0.047B	0.0076B					1.8
		10.6D		420F	0.529B						
0 - 0.1 2.4		0.65D		35F	0.047B	0.0076B					1.8
		10.6D		420F	0.529B						
0 - 0.1 2.4		0.65D		35F	0.047B	0.0076B					1.8
		10.6D		420F	0.529B						
0 - 0.1 2.4		0.65D		35F	0.047B	0.0076B					1.8
		10.6D		420F	0.529B						
0.1 - 0.2 2.7		0.32D		20F	0.016B	0.0061B					1.4
		4.24D 2.7		140F	0.164B	0.0061B					1.4
		0.32D		20F	0.016B						
		4.24D		140F	0.164B						
0.1 - 0.2 2.7		0.32D		20F	0.016B	0.0061B					1.4
		4.24D 2.7		140F	0.164B	0.0061B					1.4
		0.32D		20F	0.016B						
		4.24D		140F	0.164B						
0.1 - 0.2 2.7		0.32D		20F	0.016B	0.0061B					1.4
		4.24D 2.7		140F	0.164B	0.0061B					1.4
		0.32D		20F	0.016B						
		4.24D		140F	0.164B						
0.1 - 0.2 2.7		0.32D		20F	0.016B	0.0061B					1.4
		4.24D 2.7		140F	0.164B	0.0061B					1.4
		0.32D		20F	0.016B						
		4.24D		140F	0.164B						
0.1 - 0.2 2.7		0.32D		20F	0.016B	0.0061B					1.4
		4.24D 2.7		140F	0.164B	0.0061B					1.4
		0.32D		20F	0.016B						
		4.24D		140F	0.164B						
0.1 - 0.2 2.7		0.32D		20F	0.016B	0.0061B					1.4
		4.24D		140F	0.164B	0.0061B					1.4

	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		
0.1 - 0.2	0.32D	20F	0.016B	0.0061B	1.4
2.7					
	4.24D	140F	0.164B	0.0061B	1.4
	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		

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0.1 - 0.2	0.32D	20F	0.016B	0.0061B	1.4
2.7					
	4.24D	140F	0.164B	0.0061B	1.4
	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		
0.1 - 0.2	0.32D	20F	0.016B	0.0061B	1.4
2.7					
	4.24D	140F	0.164B	0.0061B	1.4
	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		
0.1 - 0.2	0.32D	20F	0.016B	0.0061B	1.4
2.7					
	4.24D	140F	0.164B	0.0061B	1.4
	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		
0.1 - 0.2	0.32D	20F	0.016B	0.0061B	1.4
2.7					
	4.24D	140F	0.164B	0.0061B	1.4
	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		
0.1 - 0.2	0.32D	20F	0.016B	0.0061B	1.4
2.7					
	4.24D	140F	0.164B	0.0061B	1.4
	2.7				
	0.32D	20F	0.016B		
	4.24D	140F	0.164B		
0.2 - 0.3	0.14D	18F	0.007B	0.0075B	0.9
3					
0.2 - 0.3	0.14D	18F	0.007B	0.0075B	0.9
3					
0.2 - 0.3	0.14D	18F	0.007B	0.0075B	0.9
3					
0.2 - 0.3	0.14D	18F	0.007B	0.0075B	0.9
3					
0.3 - 0.5	0.07D	17F	<0.005B	0.018B	0.9
3.4					
	0.07D	17F	<0.005B	0.018B	0.9
	3.4				
0.3 - 0.5	0.07D	17F	<0.005B	0.018B	0.9
3.4					
	0.07D	17F	<0.005B	0.018B	0.9
	3.4				
0.3 - 0.5	0.07D	17F	<0.005B	0.018B	0.9
3.4					
	0.07D	17F	<0.005B	0.018B	0.9
	3.4				
0.35 - 0.45					
0.3 - 0.5	0.07D	17F	<0.005B	0.018B	0.9
3.4					
	0.07D	17F	<0.005B	0.018B	0.9
	3.4				
0.3 - 0.5	0.07D	17F	<0.005B	0.018B	0.9
3.4					
	0.07D	17F	<0.005B	0.018B	0.9
	3.4				
0.3 - 0.5	0.07D	17F	<0.005B	0.018B	0.9
3.4					
	0.07D	17F	<0.005B	0.018B	0.9
	3.4				
0.35 - 0.45					
0.5 - 0.8	0.06D	18F	<0.005B	0.026B	1.2
5.1					
0.5 - 0.8	0.06D	18F	<0.005B	0.026B	1.2
5.1					

0.5 - 0.8	0.06D	18F	<0.005B	0.026B	1.2
5.1					
0.6 - 0.7					
0.8 - 1.1	0.07D	24F	0.005B	0.027B	1.1
10.6					
0.8 - 1.1	0.07D	24F	0.005B	0.027B	1.1
10.6					
0.8 - 1.1	0.07D	24F	0.005B	0.027B	1.1
10.6					
0.9 - 1					
1.1 - 1.4	0.07D	18F	0.005B	0.025B	1
12.1					
1.1 - 1.4	0.07D	18F	0.005B	0.025B	1
12.1					
1.1 - 1.4	0.07D	18F	0.005B	0.025B	1
12.1					
1.2 - 1.3					

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
15A1_CA	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

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15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
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
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_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_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_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)
P3A1_C4	Bulk density - core, 100mm by 81mm dia
TE_NR_AL	Total Element Al - Not recorded
TE_NR_AL2O	Total Element Al2O3 - Not recorded
TE_NR_FE20	Total Element Fe2O - Not recorded