	Soil profile descriptions																						Soil profile descriptions continued																LCA for areas represented by individual survey points											
					LCA criteria											Table 12 - trafficability assessment			Mottling				Ped faces						Stones and rocks			Structure																		
Survey point	Type	Horizon	Depth	Texture	Texture	Structure	Ped strength	Biopores	depth to Gley	IMPERMEABLE LAYER?	Minimum depth to	Depth to Impermeable layer	topsoil%retained capacity volume	Wetness class	Limited to wetness	L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopores	> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size	Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
14	Core	1	30	SL									L	I	2	a	a		0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	M	FR	NO	NO	Stopped at stone.	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	55	SL				1											0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	M	FR	NO	NO													
		3																																																
		4																																																
		5																																																
31	Core	1	30	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	45	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
32	Core	1	30	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	60	SL															0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
49	Core	1	30	SL									L	I	2	a			2	5YR	6	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FR	NO	NO	Stopped at bedrock, mottle in h1 and h2	I	3.1	1	1	1	0	3.2	1	2	3	Soil Depth	3.2
		2	42	SL				1	31										2	10YR	6	6	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	W	M	FR	NO	NO													
		3																																																
		4																																																
		5																																																
50	Pit	1	25	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	SS	SAB	M	M	FR	NO	NO	Stopped on bedrock	I	3.1	1	1	1	0	2.0	2	2	3	Climate & Droughtiness	3.1
		2	45	SCL	1														0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	35	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
51	Core	1	35	SL									L	I	2	a			2	7.5YR	6	6	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	S	M	FR	NO	NO	Two cores, both stopped at rock.	I	3.1	1	1	1	0	2.0	2	2	3	Climate & Droughtiness	3.1
		2	45	SL				1	36										10	10YR	6	6	YES	5YR	6	1	0	NO	0	0	n/a	SAB	W	M	FR	NO	YES													
		3																																																
		4																																																
		5																																																
68	Core	1	35	SL									L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	70	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	AB	M	F	FR	NO	NO													
		3	120	HCL	1	1	1	1	71	Y		40-80							2	10YR	6	6	NO	n/a	n/a	n/a	0	NO	5	5	SS	AB	W	C	FIR	NO	NO													
		4																																																
		5																																																
69	Core	1	45	SL									L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 100cm as could not penetrate auger any deeper	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	70	SL				1											0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	F	FR	NO	NO													
		3	100	HCL	1	1	1	1	71	Y		40-80							2	10YR	5	4	NO	n/a	n/a	n/a	0	NO	5	0	SS	AB	W	C	VFIR	NO	NO													
		4																																																
		5																																																
86	Core	1	30	SL									L	I	2	a			10	5YR	5	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FR	NO	NO	Two cores, stopped at bedrock. Granite	I	3.1	1	1	1	0	3.2	1	2	3	Soil Depth	3.2
		2	40	SC	1			1	31										10	5YR	6	6	YES	5YR	6	2	0	NO	10	10	H	SAB	W	C	FR	NO	YES													
		3																																																
		4																																																
		5																																																
87	Core	1	40	SL									L	II	3	b			2	10YR	6	6	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	120	MCL	1		1	1	41	Y		40-80							10	10YR	7	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	M	M	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
4	Core	1	45	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 70cm as could not progress auger deeper due to boulders	I	3.1	1	1	1	0	1.0	1	2	2	Climate and Wetness	3.1
		2	70	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
5	Core	1	35	SL									L	III	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	5	H	SAB	S	M	FR	NO	NO	Two cores, both stopped at rock	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
		2	65	SCL	1		1	1	36	Y		<40							10	5YR	6	6	YES	5YR	6	2	0	NO	0	0	n/a	SAB	W	M	VFIR	NO	YES													
		3																																																
		4																																																
		5																																																
15	Core	1	25	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	F	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	55	SL															0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
16	Core	1	35	SL									L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	5	H	SAB	S	M	FR	NO	NO	Stopped at impermeable layer. H2 is g hard to auger.	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
		2	60	SL		1	1	1	36	Y		<40							0	0	0	0	YES	10YR	8	1	0	NO	0	0	n/a	AB	W	C	VFIR	NO	NO													
		3																																																
		4																																																
		5																																																
17	Core	1	30	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	M	FR	NO	NO													
		3																																																
		4																																																
		5																																																
18	Core	1	30	SL									L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	5	H	SAB	M	M	FR	NO	NO	Stopped at impermeable later. Compacted h3	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
		2	50	SC	1			1	31										10	5YR	6	6	YES	10YR	6	1	0	NO	5	0	H	AB	W	M	FR	NO	YES													
		3	75	SC	1	1		1	51	Y		40-80							15	5YR	6	6	YES	10YR	6	1	0	NO	0	0	n/a	MAS	W	VC	EXFIR	NO	YES													
		4																																																
		5																																																
19	Core	1	25	SL									L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	II	3.1	1	1	1	0	2.0	1	3	3	Wetness & Droughtiness	3.2
		2	50	SCL	1	1	1	1		Y		<40							0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
33	Core	1	30	SL									L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	60	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	F	FR	NO	NO													
		3	85	HCL	1	1	1	1		Y		40-80							0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO													
		4																																																
		5																																																
34	Core	1	25	SL			1						L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FIR	NO	NO	Stopped on stones	III	3.1	1	1	1	0	2.0	1	3	3	Wetness & Droughtiness	3.2
		2	50	SCL	1		1	1	26	Y		<40							2	5YR	5	3	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	M	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
35	Core	1	30	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FR	NO	NO	Stopped at rock basement	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SL			1	1											0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	M	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
36	Core	1	30	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate and Wetness	3.1
		2	65	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	2	NO	10	0	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
37	Pit	1	25	SL									L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
		2	40	SCL	1	1													0	0	0	0	NO	n/a	n/a	n/a	2	YES	10	5	SS	SAB	W	M	FR	NO	NO													
		3	85	SC	1	1	1	1	41	Y		40-80							10	10YR	6	6	NO	n/a	n/a	n/a	2	NO	15	10	SS	AB	W	C	FIR	NO	NO													
		4																																																
		5																																																
52	Core	1	45	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 50cm as could not penetrate auger deeper	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
53	Core	1	35	SL									L	III	3	c			10	10YR	6	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	S	M	FR	NO	NO	Stopped at impermeable layer	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	75	SC	1		1	1	36	Y		<40							0	0	0	0	YES	10YR	6	1	0	NO	0	0	n/a	SAB	W	M	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
54	Core	1	20	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stone	I	3.1	1	1	1	0	2.0	1	2	3	Climate &	3.1
		2	50	SCL	1			1											0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	F	FR	NO	NO													
		3																																																

	Soil profile descriptions																						Soil profile descriptions continued																LCA for areas represented by individual survey points											
					LCA criteria											Table 12 - trafficability assessment			Mottling				Ped faces						Stones and rocks			Structure																		
Survey point	Type	Horizon	Depth	Texture	Texture	Structure	Ped strength	Biopores	depth to Gley	IMPERMEABLE LAYER?	Minimum depth to imper	Depth to Impermeable layer	topsoil%retained capacity volume	Wetness class	Limited to wetness	L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopores	> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size	Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
		4 5																																															Droughtiness	
55	Core	1 2 3 4 5	30 70 100	SL SCL HCL	 1 1	 1 1	 1 1	 1	71	Y		40-80	L	II	3	b			0 0 2	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 5 0	0 0 0	SS SS n/a	SAB AB AB	M M W	M C C	FR FIR FIR	NO NO NO	NO NO NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
56	Core	1 2 3 4 5	30 80 90	SL SCL LS	 1 1		 1	 1 1	31	Y		<40	L	III	3	c			0 2 0	0 10YR 0	0 6 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 5 0	0 0 0	SS SS n/a	SAB SAB GR	M M W	M C F	FR FIR VFR	NO NO NO	NO NO NO	Stopped on stones	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
70	Core	1 2 3 4 5	35 60	SL SL			 1	 1	36				L	I	2	a			0 10	0 5YR	0 6	0 6	NO YES	n/a 5YR	n/a 6	n/a 1	0 0	YES NO	5 0	0 0	SS n/a	SAB AB	S W	M M	FR FIR	NO NO	NO YES	Two cores, h2hard to auger. Stopped at rock twice, similar depth	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
71	Pit	1 2 3 4 5	45 60	SL SL		 1	 1	 1					L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 10	0 5	n/a SS	SAB AB	M M	M C	FR FIR	NO NO	NO NO	Terminated at 60cm as could not penetrate boulders	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
72	Core	1 2 3 4 5	30 70	SL SL				 1	31				L	I	2	a			0 0	0 0	0 0	0 0	NO YES	n/a 5YR	n/a 6	n/a 1	0 0	YES NO	15 15	0 0	H H	SAB SAB	M W	F M	FR FR	NO NO	NO NO	H2 v hard to auger. Stopped because of stinginess.	I	3.1	1	1	1	0	1.0	2	2	3	Climate & Droughtiness	3.1
73	Core	1 2 3 4 5	25 55 90	SL SL HCL	 1	 1	 1	 1	56	Y		40-80	L	III	3	c			0 0 2	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 5 0	0 0 0	SS SS n/a	SAB SAB AB	M W W	F F C	FR FR FIR	NO NO NO	NO NO NO	Stopped on stones	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
74	Core	1 2 3 4 5	35 60	SL SL		 1	 1	 1	36	Y		<40	L	I	2	a			0 10	0 10R	0 6	0 6	NO YES	n/a 5YR	n/a 6	n/a 2	0 0	YES NO	10 0	0 0	H n/a	SAB AB	S W	M C	FR FIR	NO NO	NO YES	H2 hard to auger, stopped bc of sandstone, two cores attempts	I	3.1	1	1	1	0	1.0	2	2	3	Climate & Droughtiness	3.1
75	Core	1 2 3 4 5	30 40	SL SL									L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES YES	5 5	0 0	SS SS	SAB AB	M W	M F	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	3.2	1	2	3	Soil Depth	3.2
88	Core	1 2 3 4 5	40	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated as could not penetrate deeper due to boulders. 4 auger attempts made	I	3.1	1	1	1	0	3.2	1	2	3	Soil Depth	3.2
89	Core	1 2 3 4 5	45 60	SL SL				 1	46				L	I	2	a			0 10	0 10YR	0 5	0 1	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	SS SS	SAB AB	M M	F F	FR FR	NO NO	NO NO	Terminated at 60cm as could not penetrate auger further	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
1	Core	1 2 3 4 5	35 70 120	SL SCL C	 1 1	 1	 1	 1 1		Y		40-80	L	II	3	b			0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 5 5	0 0 0	SS SS SS	SAB AB AB	M M W	F F C	FR FR VFIR	NO NO NO	NO NO NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
2	Core	1 2 3 4 5	35 75	SL SCL	 1		 1	 1	36	Y		<40	L	III	3	c			2 10	10R 10YR	6 6	6 6	NO YES	n/a 5YR	n/a 6	n/a 2	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M VC	FR FIR	NO NO	NO YES	Stopped at impermeable later	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
3	Core	1 2 3 4 5	45 120	SL SCL	 1	 1	 1	 1		Y		40-80	L	III	3	c			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES NO	5 5	0 0	SS SS	SAB AB	W M	F C	FR VFIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
6	Core	1 2 3 4 5	40 65 100	SL SCL C	 1 1	 1	 1	 1 1		Y		40-80	L	II	3	b			0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 10	YES NO NO	5 5 5	0 0 0	SS SS SS	SAB SAB AB	W M W	F F C	FR FR VFIR	NO NO NO	NO NO NO	Terminated at 100cm as could not progress auger past boulder	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
7	Core	1 2 3 4 5	45 70 120	SL SCL C	 1 1	 1	 1 1	 1 1		Y		40-80	L	II	3	b			0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 10	YES NO NO	5 5 5	0 0 0	SS SS SS	SAB AB AB	W M W	F M C	FR FIR VFIR	NO NO NO	NO NO NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
8	Pit	1 2 3 4 5	35 70	SL SCL	 1	 1	 1	 1		Y		<40	L	III	3	c			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	10 10	5 5	SS H	SAB AB	S M	C C	FR FIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
9	Core	1 2 3 4 5	35 75 80	SL SCL LS	 1 1	 1	 1 1	 1 1	36	Y		<40	L	II	3	b			0 10 0	0 10YR 0	0 6 0	0 6 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB GR	S W W	M C F	FR VFIR VFIR	NO NO NO	NO NO NO	H3 was v hard to auger, but friendly when out. Syoppef at impermeable layer	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
20	Core	1 2 3 4 5	30 60	SL SC	 1		 1	 1					L	I	2	a			10 10	2.5YR 7.5YR	6 6	6 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a H	SAB AB	S W	M VC	FR FIR	NO NO	NO NO	Stopped at impermeable layer	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
21	Core	1 2 3 4 5	35 60	SL SCL	 1			 1					L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H H	SAB SAB	W W	F C	FR FR	NO NO	NO NO	Terminated as could not progess auger past boulder	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
22	Core	1 2 3 4 5	30 45	SL SCL	 1								L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES YES	5 5	0 0	SS SS	SAB SAB	M M	M C	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
23	Core	1 2 3 4 5	35 60 100	SL SCL HCL	 1 1	 1	 1	 1		Y		40-80	L	II	3	b			0 0 10	0 0 2.5YR	0 0 3	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 5 0	0 0 0	SS SS n/a	SAB SAB AB	M M W	M M C	FR FR FIR	NO NO NO	NO NO NO	Stopped on no recovery	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
24	Core	1 2 3 4 5	25 60	SL SCL	 1								L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES YES	5 5	0 0	SS SS	SAB SAB	M M	M C	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
38	Core	1 2 3 4 5	45 120	SL SC	 1	 1	 1	 1		Y		40-80	L	II	3	b			0 10	0 10YR	0 6	0 6	NO YES	n/a 10YR	n/a 7	n/a 1	2 2	YES NO	5 5	0 0	H H	SAB AB	W M	F C	FR VFIR	NO NO	NO YES	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate	3.1
39	Core	1 2 3 4 5	60 120	SL SCL	 1		 1	 1					L	I	2	a			2 2	10YR 5YR	6 4	8 6	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES NO	5 5	0 0	H H	SAB SAB	W M	F C	FR FIR	NO NO	NO NO	-	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		1	35	SL															2	10YR	6	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FR	NO	NO													

	Soil profile descriptions																						Soil profile descriptions continued																LCA for areas represented by individual survey points											
					LCA criteria											Table 12 - trafficability assessment			Mottling				Ped faces						Stones and rocks			Structure																		
Survey point	Type	Horizon	Depth	Texture	Texture	Structure	Ped strength	Biopores	depth to Gley	IMPERMEABLE LAYER?	Minim um depth to	Depth to Impermeabl	topsoil%retained capacity volume	Wetness class	Limited to wetness	L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopores	> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size	Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
40	**Core**	2	70	SCL	1		1	1					L	I	2	a			15	7.5YR	6	6	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	VC	VFIR	NO	NO	Stopped at impermeable layer	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		3																																																
		4																																																
		5																																																
41	**Core**	1	20	SL									L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	60	SCL	1														0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	M	C	FR	NO	NO													
		3	80	HCL	1		1	1											10	10R	4	4	NO	n/a	n/a	n/a	2	NO	0	0	n/a	AB	W	M	FIR	NO	NO													
		4																																																
		5																																																
57	**Core**	1	35	SL					36				L	II	3	b			10	7.5YR	6	6	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FR	NO	NO	Stopped at impermeable layer.	II	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	70	SCL	1	1		1	71	Y		<40							10	7.5YR	6	6	YES	10G	6	2	0	NO	0	0	n/a	MAS	W	0	EXFIR	NO	YES													
		3																																																
		4																																																
		5																																																
58	**Pit**	1	35	SL					36				L	III	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
		2	80	SCL	1	1	1	1	81	Y		<40							2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
76	**Core**	1	40	SL					41				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	W	F	FR	NO	NO	-	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	45	SL			1	1	46										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	M	M	FIR	NO	NO													
		3																																																
		4																																																
		5																																																
90	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	65	SL					66										2	5YR	5	6	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	C	FR	NO	NO													
		3	85	ZL	1			1	86										2	5YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	F	FR	NO	NO													
		4																																																
		5																																																
91	**Core**	1	35	SL					36				L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	10	0	H	SAB	S	M	FR	NO	NO	Stopped at spl	III	3.1	1	1	1	0	1.0	2	3	3	Wetness & Droughtiness	3.2
		2	70	SC	1	1	1	1	71	Y		<40							2	5YR	6	6	YES	10YR	7	1	0	NO	0	0	n/a	SAB	M	C	FIR	NO	YES													
		3																																																
		4																																																
		5																																																
92	**Core**	1	30	SL					31				L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 100cm as could not progress furher with auger	II	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	70	SCL	1	1	1	1	71	Y		<40							0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	0	H	AB	W	C	FIR	NO	NO													
		3	100	HCL	1	1	1	1	101	Y		40-80							0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	AB	W	M	VFIR	NO	NO													
		4																																																
		5																																																
93	**Core**	1	30	SL					31				L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	40	SC	1				41										0	0	0	0	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	W	C	VFR	NO	NO													
		3	60	HCL	1		1	1	61	Y		40-80							0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	M	FIR	NO	NO													
		4																																																
		5																																																
104	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	5	SS	SAB	S	F	VFR	NO	NO	H2 and h3 very hard to auger, but friable when ex situ.	I	3.1	1	1	1	0	1.0	2	2	2	Climate	3.1
		2	50	SL			1	1	51										15	10YR	6	6	YES	5YR	6	2	0	NO	0	0	n/a	AB	W	M	VFIR	NO	YES													
		3	80	SL			1	1	81										2	10YR	6	2	NO	n/a	n/a	n/a	0	NO	0	0	n/a	SAB	W	C	FIR	NO	NO													
		4																																																
		5																																																
105	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	70	SL				1	71										2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	10	0	SS	SAB	W	C	FR	NO	NO													
		3																																																
		4																																																
		5																																																
106	**Core**	1	30	SL					31				L	I	2	a			2	7.5YR	6	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FR	NO	NO	H2 v hard to dig. Small stones come out. Two cores, stopped when feeling rock and was grinding trough	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	45	SL				1	46										0	0	0	0	NO	n/a	n/a	n/a	0	NO	10	0	H	SAB	W	M	VFR	NO	NO													
		3																																																
		4																																																
		5																																																
107	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 80cm as could not penetrate auger further. Grey coulour of second horizon caused by	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	80	SL				1	81										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	C	FR	NO	NO													
		3																																																
		4																																																
		5																																																
108	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FR	NO	NO	Last layer hard to auger, likely bedrock.	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SL		1	1	1	51	Y		<40							2	10YR	6	6	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	W	C	FIR	NO	NO													
		3	65	LS	1		1	1	66	Y		40-80							0	0	0	0	NO	n/a	n/a	n/a	0	NO	0	0	n/a	AB	W	M	FIR	NO	NO													
		4																																																
		5																																																
109	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	65	SL					66										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3	90	ZL	1			1	91										2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	F	VFR	NO	NO													
		4																																																
		5																																																
119	**Pit**	1	25	SL					26				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	65	SCL	1				66										2	10YR	6	6	NO	n/a	n/a	n/a	2	YES	15	10	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
120	**Core**	1	50	SL					51				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 50cm as could not progress deeper with auger. Broken up sandstone gives grey colour to soil	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2																																																
		3																																																
		4																																																
		5																																																
121	**Core**	1	45	SL					46				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 60cm as could not progress auger	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	60	SL				1	61										0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	M	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
122	**Pit**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	C	FR	NO	NO	Pit terminated at 70cm as could not penetrate through boulders	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	70	SL				1	71										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	C	FR	NO	NO													
		3																																																
		4																																																
		5																																																
123	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	5	1	1	0	1.0	1	2	2	Climate	3.1
		2	50	SL					51										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	M	F	FR	NO	NO													
		3	70	MZCL	1			1	71										2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	F	FR	NO	NO													
		4																																																
		5																																																
131	**Core**	1	30	SL					31				L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	5	H	SAB	S	F	VFR	NO	NO	Faint grey and mottling shades where sand clusters are	III	3.1	1	1	1	0	1.0	2	3	2	Climate and Wetness	3.1
		2	50	SCL	1	1		1	51	Y		<40							10	7.5YR	6	6	YES	10YR	6	1	0	NO	5	5	H	AB	W	C	FR	NO	YES													
		3	90	SC	1	1	1	1	91	Y		40-80							10	10YR	6	2	YES	10YR	6	2	0	NO	0	0	n/a	AB	W	C	FIR	NO	NO													
		4																																																
		5																																																
132	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 65cm as could not penetrate auger further	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	65	SL				1	66										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
133	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	M	FR	NO	NO	Stony at depth. H2 hard to auger but friable when extracted	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	75	SL				1	76										2	7.5YR	6	6	NO	n/a	n/a	n/a	0	NO	5	0	H	AB	W	M	FR	NO	NO													
		3																																																
		4																																																
		5																																																
134	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	60	SL					61										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																																
		4																																																
		5																																																
135	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	M	F	FR	NO	NO	Stopped at sandstone	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	60	SL				1	61										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	5	H	GR	W	F	FR	NO	NO													
		3																																																
		4																																																

	Soil profile descriptions																		Soil profile descriptions continued																				LCA for areas represented by individual survey points											
Survey point	Type	Horizon	Depth	Texture	LCA criteria				depth to Gley	IMPERMEABLE LAYER?	Minimum depth to imper	Depth to Impermeable layer	topsoil%retained capacity volume	Wetness class	Limited to wetness	Table 12 - trafficability assessment			Mottling				Ped faces				FeMn up to %	Biopores	Stones and rocks			Structure			Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
					Texture	Structure	Ped strength	Biopores								L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma			> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size																
		5																																																
141	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	S	M	FR	NO	NO	Stopped on stone	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	65	LS	1				66										2	10YR	6	6	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
142	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	-	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	85	LS	1			1	86										2	10YR	5	8	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	M	M	FR	NO	NO													
		3	120	HZCL	1			1	121										2	10YR	5	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	M	FR	NO	NO													
		4																																															
		5																																															
143	**Core**	1	45	SL					46				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 65cm as could not penetrate auger deeper	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	65	SCL	1		1	1	66	Y		40-80							2	10YR	4	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	M	M	FIR	NO	NO													
		3																																															
		4																																															
		5																																															
144	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on no recovery	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	75	HCL	1		1	1	76	Y		<40							2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	M	FIR	NO	NO													
		3																																															
		4																																															
		5																																															
145	**Core**	1	40	SL					41				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Terminated at 50cm as could not progress auger deeper	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	55	SL			1	1	56										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	F	FIR	NO	NO													
		3																																															
		4																																															
		5																																															
146	**Core**	1	35	SL					36				L	II	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	S	C	FR	NO	NO	Stopped at impermeable layer	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	80	SL		1	1	1	81	Y		<40							10	10YR	5	6	YES	10YR	6	1	0	NO	0	0	n/a	AB	W	C	VFIR	NO	YES													
		3																																															
		4																																															
		5																																															
148	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SFS	SAB	M	M	FR	NO	NO	Stopped on stone	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	55	SL					56										0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SFS	GR	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
149	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	H	SAB	0	M	VFR	NO	NO	Sandstone at bottom.	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SL		1		1	51										0	0	0	0	YES	10YR	6	1	0	NO	5	0	H	AB	W	C	FR	NO	NO													
		3																																															
		4																																															
		5																																															
150	**Pit**	1	25	SL					26				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SFS	SAB	M	M	FR	NO	NO	Stopped on stone	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	55	SL					56										0	0	0	0	NO	n/a	n/a	n/a	0	YES	15	5	SFS	GR	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
151	**Core**	1	35	SL				1	36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	H	SAB	S	M	FR	NO	NO	-	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	80	SL		1	1	1	81										10	7.5YR	6	6	YES	5YR	6	6	0	NO	5	0	H	AB	W	C	VFIR	NO	NO													
		3																																															
		4																																															
		5																																															
152	**Core**	1	35	SL					36				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SL				1	51										0	0	0	0	NO	n/a	n/a	n/a	2	NO	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
153	**Core**	1	45	SL					46				L	I	2	a			2	10YR	5	8	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	0	F	FR	NO	NO	-	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	60	SL				1	61										2	2.5YR	4	8	NO	n/a	n/a	n/a	0	NO	0	5	SS	SAB	M	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
42	**Core**	1	35	SL			1		36				L	III	3	c			2	2.5YR	6	6	NO	n/a	n/a	n/a	0	YES	0	0	n/a	SAB	M	M	FIR	NO	NO	Stopped after impermeable layer.	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	75	SC	1		1	1	76	Y		<40							10	5YR	6	6	YES	10YR	6	1	0	NO	0	0	n/a	SAB	M	C	FIR	NO	YES													
		3																																															
		4																																															
		5																																															
43	**Core**	1	30	SL			1		31				L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FIR	NO	NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	60	SCL	1		1		61										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	M	M	FIR	NO	NO													
		3	90	ZC	1	1	1	1	91	Y		40-80							2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO													
		4																																															
		5																																															
59	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	65	SCL	1				66										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
60	**Core**	1	30	SL					31				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
		2	60	SCL	1				61										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
61	**Core**	1	35	SL		1			36				L	II	3	b			2	7.5YR	6	6	NO	n/a	n/a	n/a	0	YES	5	0	H	AB	S	M	FR	NO	NO	Stopped at impermeable layer	II	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	70	SCL	1		1	1	71	Y		<40							10	5YR	6	6	YES	10YR	6	1	0	NO	0	0	n/a	AB	W	VC	FIR	NO	YES													
		3																																															
		4																																															
		5																																															
61	**Core**	1	35	SL		1			36				L	III	3	c			2	7.5YR	6	6	NO	n/a	n/a	n/a	0	YES	5	0	H	AB	S	M	FR	NO	NO	Stopped at impermeable layer	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	70	SCL	1		1	1	71	Y		<40							10	5YR	6	6	YES	10YR	6	1	0	NO	0	0	n/a	AB	W	VC	FIR	NO	YES													
		3																																															
		4																																															
		5																																															
62	**Core**	1	30	SL			1		31				L	III	3	c			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FIR	NO	NO	Stopped on stones	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	100	ZC	1	1	1	1	101	Y		<40							2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO													
		3																																															
		4																																															
		5																																															
77	**Core**	1	25	SL					26				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	50	SCL	1			1	51										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
78	**Core**	1	25	SL					26				L	II	3	b			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO	Stppped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
		2	60	SCL	1				61										0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO													
		3	70	HCL	1	1	1	1	71	Y		40-80							2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO													
		4																																															
		5																																															
79	**Core**	1	26	SL					27				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	2.0	1	2	3	Climate & Droughtiness	3.1
		2	55	SCL	1				56										0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	W	F	FR	NO	NO													
		3																																															
		4																																															
		5																																															
80	**Core**	1	25	SL					26				L	I	2	a			0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	F	FR	NO	NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
		2	70	SCL	1				71										0	0	0	0	NO	n/a	n/a	n/a	2	YES	5	0	SS	SAB	W	F	VFR	NO	NO													
		3																																															
		4																																															
		5																																															
94	**Core**	1	35	SL					36				L	III	3	c			2	10YR	6	6	NO	n/a	n/a	n/a	2	YES	0	0	n/a	SAB	S	M	FR	NO	NO	Stopped at impermeable layer,	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
		2	60	SL		1	1	1	61	Y		<40							15	5YR	4	6	YES	10YR	6	2	10	NO	0	0	n/a	SAB	M	C	FIR	NO	YES													
		3																																															
		4																																															
		5																																															
		1	25	SL					26										0	0	0	0	NO	n/a	n/a	n/a	0	YES	5	0	SS	SAB	M	M	FR	NO	NO													
		2	60	SL				1	61										0	0	0	0	NO	n/a	n/a	n/a	0	NO	5	0	SS	SAB	M	F	FR	NO	NO													

	Soil profile descriptions																						Soil profile descriptions continued															LCA for areas represented by individual survey points											
Survey point	Type	Horizon	Depth	Texture	LCA criteria					IMPERMEABLE LAYER?	Minimum depth to	Depth to Impermeabl	topsoil%retained capacity volume	Wetness class	Limited to wetness	Table 12 - trafficability assessment			Mottling				Ped faces				FeMn up to %	Biopores	Stones and rocks			Structure			Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
					Texture	Structure	Ped strength	Biopores	depth to Gley							L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma			> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size																
95	**Core**	3 4 5	80	HCL	1	1	1	1	81	Y		40-80	L	II	3	b			2	10YR	6	6	NO	n/a	n/a	n/a	2	NO	5	0	SS	AB	W	C	FIR	NO	NO	Stopped on stone	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
96	**Core**	1 2 3 4 5	35 70	SL SL		 1	 1	 1	36 71	 Y		 <40	L	II	3	b			0 10	0 7.5YR	0 6	0 6	NO YES	n/a 10YR	n/a 6	n/a 2	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M C	FR FIR	NO NO	NO YES	Stopped at impermeable layer. Miss around the bare doil	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
97	**Pit**	1 2 3 4 5	25 60	SL SL				 1	26 61				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	10 10	5 5	SS SS	SAB SAB	M W	M F	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	2	2	3	Climate & Droughtiness	3.1
98	**Core**	1 2 3 4 5	35 50 70	SL SL SL				 1 1	36 51 71				L	II	2	a			10 10 10	10YR 7.5YR 10YR	6 6 6	2 6 6	NO YES YES	n/a 10YR 10YR	n/a 6 6	n/a 1 1	0 0 0	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB SAB AB	S W W	M M M	FR FR FR	NO NO NO	NO YES YES	Stopped at bedrock, two cores attempted. Slight, very slight podzol pattern.bottom of valley	II	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
110	**Core**	1 2 3 4 5	45 60	SL SL				 1	46 61				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H SS	SAB SAB	W M	F F	FR FR	NO NO	NO NO	Terminated at 60cm as cannot progress auger	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
111	**Core**	1 2 3 4 5	30 60	SL SL				 1	31 61				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB GR	S W	M F	FR FR	NO NO	NO NO	Stopped because I was churning sand.	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
112	**Core**	1 2 3 4 5	45 60	SL SL				 1	46 61				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H H	SAB SAB	W W	F F	FR FR	NO NO	NO NO	Terminated as cannot penetrate deeper due to boulders	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
113	**Core**	1 2 3 4 5	30 65	SL SL					31 66				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES YES	5 0	0 0	SS n/a	SAB SAB	M W	F F	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
114	**Core**	1 2 3 4 5	30 60 90	SL SCL ZC	 1 1	 1	1 1 1	 1	31 61 91	 Y		 40-80	L	I	2	a			0 0 2	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 5 0	0 0 0	SS SS n/a	SAB SAB AB	M M W	M M C	FIR FIR FIR	NO NO NO	NO NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate and Wetness	3.1
124	**Core**	1 2 3 4 5	34 70	SL SCL	 1			 1	35 71				L	II	2	a			0 10	0 7.5YR	0 6	0 6	NO YES	n/a 2.5YR	n/a 7	n/a 2	0 2	YES NO	0 0	0 0	n/a n/a	SAB AB	M W	M M	VFR VFR	NO NO	NO YES	H2 v hard to auger but friable when dug out, stopped at impermeable layer	II	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
125	**Core**	1 2 3 4 5	45 70 120	SL SL SC	 1		 1	 1 1	46 71 121	 Y		 40-80	L	II	2	a			0 0 2	0 0 10YR	0 0 8	0 0 1	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES NO NO	5 5 5	0 0 0	H H H	SAB SAB SAB	W M W	F F M	FR FR FIR	NO NO NO	NO NO NO	-	II	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
126	**Core**	1 2 3 4 5	30 60	SL SL				 1	31 61				L	I	2	a			0 2	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M M	FR FR	NO NO	NO NO	Stop at indurement	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
127	**Core**	1 2 3 4 5	30 80	SL SL				 1	31 81				L	I	2	a			0 2	0 10YR	0 7	0 1	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H H	SAB SAB	M W	M F	FR FR	NO NO	NO NO	Terminated at 80cm as cannot penetrate deeper with auger due to boulders	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
136	**Core**	1 2 3 4 5	45 80	SL SL				 1	46 81				L	I	2	a			0 2	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	H H	SAB SAB	W M	F F	FR FR	NO NO	NO NO	Terminated at 80cm as could not penetrate auger though boulder. Bottom 10cm is broken up boulder	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
137	**Core**	1 2 3 4 5	30 75	SL SL				 1	31 76				L	I	2	a			0 10	0 7.5YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 10	YES NO	0 0	0 0	n/a n/a	SAB SAB	S W	M C	FR FR	NO NO	NO NO	Stopped because o boulder beneath	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
138	**Pit**	1 2 3 4 5	45 80	SL SL				 1	46 81				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	10 5	5 0	H H	SAB AB	M W	C M	FR FR	NO NO	NO NO	-	I	3.1	1	1	1	0	1.0	2	2	2	Climate	3.1
139	**Core**	1 2 3 4 5	35 55 80	SL SL SC	 1	 1	 1	 1 1	36 56 81	 Y		 40-80	L	I	2	a			2 2 10	7.5YR 7.5YR 10YR	6 6 6	6 6 6	NO NO YES	n/a n/a 10YR	n/a n/a 6	n/a n/a 1	2 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S M W	M C M	FR FR VFIR	NO NO NO	NO NO YES	Insured layer at bottom.	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
147	**Core**	1 2 3 4 5	50 120	SL SL			 1	 1	51 121				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	2 2	YES NO	5 5	0 0	H H	SAB SAB	W M	F M	FR FIR	NO NO	NO NO	-	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
10	**Core**	1 2 3 4 5	35 65	SL SCL	 1	 1		 1	36 66	 Y		 <40	L	I	2	a			0 0	0 0	0 0	0 0	NO YES	n/a 10YR	n/a 6	n/a 1	0 0	YES NO	10 10	5 5	H H	SAB AB	S W	M C	FR FR	NO NO	NO NO	Too many rocks at depth, two cores	I	3.1	1	1	1	0	1.0	2	2	3	Climate & Droughtiness	3.1
11	**Core**	1 2 3 4 5	50 80	SL SCL	 1	 1	 1	 1	51 81	 Y		 40-80	L	II	3	b			0 10	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a H	SAB AB	W W	F C	FR FIR	NO NO	NO NO	Terminated at 80cm as could not penetrate below boulder	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
12	**Core**	1 2 3 4 5	45 120	SL SCL	 1	 1	 1	 1	46 121	 Y		 40-80	L	II	3	b			0 2	0 10YR	0 5	0 8	NO NO	n/a n/a	n/a n/a	n/a n/a	2 0	YES NO	5 5	0 0	H H	SAB AB	M W	F C	FR VFIR	NO NO	NO NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
13	**Core**	1 2 3 4 5	35 60	SL SC	 1	 1	 1	 1	36 61	 Y		 <40	L	III	3	c			0 10	0 7.5YR	0 6	0 6	NO YES	n/a 2.5YR	n/a 5	n/a 2	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M C	FR VFIR	NO NO	NO YES	Stopped at impermeable layer. H2 indured	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
25	**Core**	1 2 3 4 5	50 80	SL SCL	 1			 1	51 81				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 0	0 0	H n/a	SAB SAB	W W	F F	FR FR	NO NO	NO NO	Terminated at 80cm as could not penetrate through boulder	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
26	**Core**	1 2 3 4 5	45 80 110	SL HCL C	 1 1		 1	 1 1	46 81 111	 Y		 >80	L	II	2	a			0 0 0	0 0 0	0 0 0	0 0 0	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 0	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB SAB	W W W	F F M	FR FR FIR	NO NO NO	NO NO NO	Terminated at 110cm as could not penetrate further	II	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
27	**Pit**	1 2 3 4 5	35 80	SL SCL	 1	 1	 1	 1	36 81	 Y		 <40	L	III	3	c			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H H	SAB AB	M W	C VC	FR FIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2

	Soil profile descriptions																		Soil profile descriptions continued																				LCA for areas represented by individual survey points											
					LCA criteria											Table 12 - trafficability assessment			Mottling				Ped faces						Stones and rocks			Structure																		
Survey point	Type	Horizon	Depth	Texture	Texture	Structure	Ped strength	Biopores	depth to Gley	IMPERMEABLE LAYER?	Minimum depth to	Depth to Impermeabl	topsoil%retained capacity volume	Wetness class	Limited to wetness	L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopores	> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size	Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
28	**Core**	1 2 3 4 5	35 75	SL SCL	 1	 1	 1	 1	36 76	 Y		 <40	L	III	3	c			0 10	0 7.5YR	0 6	0 6	NO YES	n/a 10YR	n/a 6	n/a 1	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M C	FR VFIR	NO NO	NO YES	Stopped at impermeable layer. Sand gleyer inclusions	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
29	**Core**	1 2 3 4 5	35 70 120	SL SCL C	 1 1		 1 1	 1 1	36 71 121	 Y Y		 <40 40-80	L	III	3	c			0 0 10	0 0 10YR	0 0 5	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 10	YES NO NO	5 0 0	0 0 0	H n/a n/a	SAB SAB SAB	W W W	F c C	FR VFIR FIR	NO NO NO	NO NO NO	-	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
30	**Core**	1 2 3 4 5	30 70	SL SCL	 1	 1	 1	 1	31 71	 Y		 <40	L	III	3	c			2 10	10YR 7.5YR	6 6	6 6	NO YES	n/a 7.5YR	n/a 5	n/a 2	0 10	YES NO	0 0	0 0	n/a n/a	SAB AB	S M	M C	FR FIR	NO NO	NO YES	Stopped at impermeable layer.	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
44	**Core**	1 2 3 4 5	35 120	SL SCL	 1		 1	 1	36 121	 Y		 <40	L	III	3	c			0 10	0 10YR	0 5	0 1	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	0 0	0 0	n/a n/a	SAB SAB	M M	F c	FR FIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
45	**Core**	1 2 3 4 5	35 70	SL SCL	 1	 1	1 1	 1	36 71	 Y		 <40	L	III	3	c			0 10	0 7.5YR	0 6	0 6	NO YES	n/a 10YR	n/a 6	n/a 0	0 0	YES NO	0 0	0 0	n/a n/a	SAB MAS	S W	M C	FIR EXFIR	NO NO	NO YES	Stopped at implementable layer, v hard to auger	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
46	**Core**	1 2 3 4 5	35 55 120	SL SCL SCL	 1 1		 1	 1 1	36 56 121	 Y		 40-80	L	II	3	b			0 0 2	0 0 10YR	0 0 5	0 0 8	NO YES NO	n/a 10YR n/a	n/a 6 n/a	n/a 1 n/a	0 0 2	YES NO NO	0 10 5	0 5 0	n/a H H	SAB AB SAB	M W M	F M C	FR FR VFIR	NO NO NO	NO NO NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
47	**Core**	1 2 3 4 5	40 70	SL SC	 1	 1	 1	 1	41 71	 Y		 40-80	L	II	3	b			10 10	7.5YR 7.5YR	6 6	6 6	NO YES	n/a 10YR	n/a 6	n/a 2	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M C	FR VFIR	NO NO	NO YES	Stopped at impermeable layer	II	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
48	**Core**	1 2 3 4 5	60 120	SL SC	 1		 1	 1	61 121	 Y		 40-80	L	II	3	b			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 0	0 5	H H	SAB SAB	M M	F C	FR VFIR	NO NO	NO NO	-	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
63	**Core**	1 2 3 4 5	30 70	SL SC	 1	 1	1 1	 1	31 71	 Y		 <40	L	III	3	c			2 15	10YR 10YR	6 6	6 6	NO YES	n/a 10YR	n/a 6	n/a 1	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M C	FIR VFIR	NO NO	NO YES	Stopped at impermeable layer	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
64	**Core**	1 2 3 4 5	35 100	SL SC	 1	 1	 1	 1	36 101	 Y		 <40	L	III	3	c			0 2	0 10YR	0 5	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	5 5	0 0	H H	SAB AB	M W	F C	FR FIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
65	**Core**	1 2 3 4 5	35 120	SL SC	 1	 1	 1	 1	36 121	 Y		 <40	L	III	3	c			0 2	0 5Y	0 4	0 4	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 5	0 0	n/a H	SAB AB	M W	F C	FR FIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
66	**Core**	1 2 3 4 5	35 120	SL SC	 1	 1	 1	 1	36 121	 Y		 <40	L	III	3	c			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	M W	M C	FR VFIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
67	**Core**	1 2 3 4 5	35 75	SL SC	 1		 1	 1	36 76	 Y		 <40	L	III	3	c			10 15	10YR 10YR	6 6	6 6	NO YES	n/a 10YR	n/a 6	n/a 1	2 10	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	M VC	FR VFIR	NO NO	NO YES	Stopped at impermeable layer, h2 behaved like clay but had gory sand inclusios	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
81	**Core**	1 2 3 4 5	35 65 100	SL SCL HCL	 1 1	 1	1 1	 1	36 66 101	 Y		 40-80	L	II	3	b			0 0 2	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES YES NO	5 5 5	0 0 0	SS SS SS	SAB AB AB	M M W	M M C	FIR FR FIR	NO NO NO	NO NO NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
82	**Core**	1 2 3 4 5	35 55 90	SL SCL SL	 1			 1 1	36 56 91				L	III	3	c			2 10 15	7.5YR 7.5YR 7.5YR	6 6 6	6 6 6	NO YES YES	n/a 10YR 10YR	n/a 6 6	n/a 1 1	0 0 0	YES NO NO	0 0 0	0 0 0	n/a n/a n/a	SAB AB AB	S W W	M M M	FR FR FR	NO NO NO	NO YES YES	Bottom of valley	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
83	**Pit**	1 2 3 4 5	30 120	SL SCL	 1	 1	1 1	 1	31 121	 Y		 <40	L	III	3	c			0 2	0 10YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	10 5	0 0	SS SS	SAB AB	M M	M C	FIR FIR	NO NO	NO NO	-	III	3.1	1	1	1	0	1.0	2	3	2	Climate and Wetness	3.1
84	**Core**	1 2 3 4 5	25 60	SL SCL	 1			 1	26 61				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	SS SS	SAB SAB	M W	M F	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1
85	**Core**	1 2 3 4 5	40 100	SL SC	 1	 1	1 1	 1	41 101	 Y		 40-80	L	III	3	c			0 2	0 10YR	0 6	0 6	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	SS SS	SAB AB	M M	M C	FIR FIR	NO NO	NO NO	Stopped on stones	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
99	**Core**	1 2 3 4 5	35 50 100	SL SL ZL	 1		1 1	 1 1	36 51 101				L	II	2	a			0 10 2	0 10YR 10YR	0 6 6	0 6 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 0	YES NO NO	5 0 5	0 0 0	SS n/a SS	SAB AB SAB	M M W	M M F	FIR FIR FR	NO NO NO	NO NO NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
100	**Core**	1 2 3 4 5	30 60 80	SL SCL ZC	 1 1	 1	 1	 1	31 61 81	 Y		 40-80	L	II	3	b			0 0 10	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES YES NO	5 5 0	0 0 0	SS SS n/a	SAB SAB AB	M M W	F F C	FR FR FIR	NO NO NO	NO NO NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
101	**Core**	1 2 3 4 5	35 75	SL SCL	 1	 1	 1	 1	36 76	 Y		 <40	L	III	3	c			0 10	0 7.5YR	0 6	0 6	NO YES	n/a 5YR	n/a 6	n/a 2	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S M	M C	FR FIR	NO NO	NO YES	Stopped at impermeable layer	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
102	**Core**	1 2 3 4 5	40 60	SL SCL	 1		 1	 1	41 61	 Y		 40-80	L	III	3	c			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	SS SS	SAB SAB	M M	M M	FR FIR	NO NO	NO NO	Stopped on stones	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
103	**Core**	1 2 3 4 5	35 75	SL SC	 1		 1	 1	36 76	 Y		 <40	L	III	3	c			2 10	7.5YR 7.5YR	6 6	6 6	NO YES	n/a 7.5YR	n/a 6	n/a 2	0 0	YES NO	0 5	0 0	n/a H	SAB AB	S W	M M	FR FIR	NO NO	NO YES	Stopped at impermeable layer	III	3.1	1	1	1	0	1.0	1	3	3	Wetness & Droughtiness	3.2
115	**Core**	1 2 3 4 5	40 80	SL SCL	 1			 1	41 81				L	II	2	a			10 15	10YR 10YR	6 6	6 6	NO YES	n/a 10YR	n/a 6	n/a 1	0 0	YES NO	0 0	0 0	n/a n/a	SAB AB	S W	C M	FR FR	NO NO	NO YES	Stopped at sandstone, sandier soilcloser to bedrock. Stopped because I was churning sand	II	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
116	**Core**	1 2 3	30 65 100	SL SCL HZCL	 1 1	 1	 1	 1	31 66 101	 Y		 40-80	L	II	3	b			0 0 2	0 0 10YR	0 0 7	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 0 2	YES YES NO	5 5 5	0 0 0	SS SS SS	SAB SAB AB	M W W	M F C	FR FR FIR	NO NO NO	NO NO NO	Stopped on stones	II	3.1	1	1	1	0	1.0	1	3	2	Climate and	3.1

	Soil profile descriptions																						Soil profile descriptions continued																LCA for areas represented by individual survey points											
					LCA criteria											Table 12 - trafficability assessment			Mottling				Ped faces						Stones and rocks			Structure																		
Survey point	Type	Horizon	Depth	Texture	Texture	Structure	Ped strength	Biopores	depth to Gley	IMPERMEABLE LAYER?	Minimum depth to	Depth to Impermeable layer	topsoil%retained capacity volume	Wetness class	Limited to wetness	L	M	H	Abundance up to %	Hue	Value	Chroma	Colour different to matrix	Hue	Value	Chroma	FeMn up to %	Biopores	> 2 cm up to %	> 6 cm up to %	Type	Type	Development	Ped size	Consistence	Calcareous	Gleying	Notes	Wetness class	Climate	Gradient	Summer flood risk	Winter flood risk	Topsoil texture	Soil Depth	Topsoil stoniness	Wetness	Droughtiness	Limited by	LCA Class
		4 5																																															Wetness	
117	**Core**	1 2 3 4 5	30 80 120	SL SCL ZC	 1 1	 1	 1 1	 1	31 81 121	Y		>80	L	I	2	a			0 0 10	0 0 10YR	0 0 6	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	0 5 0	0 0 0	n/a SS n/a	SAB SAB AB	M M M	M M C	FR FIR FIR	NO NO NO	NO NO NO	-	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
118	**Core**	1 2 3 4 5	20 60 90	SL SCL ZC	 1 1	 1	 1	 1	21 61 91	Y		40-80	L	II	3	b			0 0 2	0 0 10YR	0 0 5	0 0 6	NO NO NO	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	0 2 2	YES YES NO	5 0 0	0 0 0	SS n/a n/a	SAB SAB AB	M M W	M M C	FR FR FIR	NO NO NO	NO NO NO	Stopped on stone	II	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
129	**Core**	1 2 3 4 5	25 70	SL SL				 1	26 71				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	SS SS	SAB SAB	M W	F F	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	2	Climate	3.1
130	**Core**	1 2 3 4 5	35 75 80	SL SCL LS	 1 1			 1 1	36 76 81				L	III	3	b			2 15 0	10YR 7.5YR 0	6 6 0	6 6 0	NO YES NO	n/a 5YR n/a	n/a 4 n/a	n/a 2 n/a	0 0 0	YES NO NO	0 5 0	0 0 0	n/a H n/a	SAB SAB GR	S W W	M M F	FR FR VFR	NO NO NO	NO YES NO	H3 compacted sandstone.	III	3.1	1	1	1	0	1.0	1	3	2	Climate and Wetness	3.1
140	**Core**	1 2 3 4 5	30 60	SL SL				 1	31 61				L	I	2	a			0 0	0 0	0 0	0 0	NO NO	n/a n/a	n/a n/a	n/a n/a	0 2	YES NO	5 5	0 0	SS SS	SAB SAB	M W	M F	FR FR	NO NO	NO NO	Stopped on stones	I	3.1	1	1	1	0	1.0	1	2	3	Climate & Droughtiness	3.1