XLINKS' MOROCCO-UK POWER PROJECT

Environmental Statement

Volume 2, Appendix 8.1: Soil Survey and Agricultural Land Classification Data

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RPS

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Xlinks 1 Limited

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Glossary

Term	Meaning
Agricultural Land Classification	Agricultural Land Classification is a grading system used to assess and compare the quality of agricultural land in England and Wales. ALC agricultural land is graded from 1, the highest quality land to 5, the lowest quality land.
Converter Site	The Converter Site is proposed to be located to the immediate west of the existing Alverdiscott Substation site in north Devon. The Converter Site would contain two converter stations (known as Bipole 1 and Bipole 2) and associated infrastructure, buildings and landscaping.
Environmental Impact Assessment	The process of identifying and assessing the significant effects likely to arise from a project. This requires consideration of the likely changes to the environment, where these arise as a consequence of a project, through comparison with the existing and projected future baseline conditions.
Onshore HVDC Cable Corridor	The proposed corridor within which the onshore High Voltage Direct Current cables would be located.
Environmental Statement	The document presenting the results of the Environmental Impact Assessment process.
Proposed Development	The element of Xlinks' Morocco-UK Power Project within the UK. The Proposed Development covers all works required to construct and operate the offshore cables (from the UK Exclusive Economic Zone to Landfall), Landfall, onshore Direct Current and Alternating Current cables, converter stations, and highways improvements.
Xlinks' Morocco-UK Power Project	The overall scheme from Morocco to the national grid, including all onshore and offshore elements of the transmission network and the generation site in Morocco (referred to as the 'Project').

Acronyms

Acronym	Meaning
ALC	Agricultural Land Classification
EIA	Environmental Impact Assessment
ES	Environmental Statement
HVDC	High Voltage Direct Current
UK	United Kingdom

Units

Units	Meaning
cm	Centimetre

1 SOIL SURVEY AND AGRICULTURAL LAND CLASSIFICATION DATA

1.1 Introduction

1.1.1 This document forms Volume 2, Appendix 8.1: Soil Survey and Agricultural Land Classification data of the Environmental Statement (ES) prepared for the United Kingdom (UK) elements of Xlinks' Morocco-UK Power Project (the 'Project'). For ease of reference, the UK elements of the Project are referred to as the 'Proposed Development, which is the focus of the Environmental Statement (ES). The ES presents the findings of the Environmental Impact Assessment (EIA) process for the Proposed Development.

1.1.2 This document provides the summary of soil types and auger borings from surveys done for the Atlantic Array Offshore Wind Farm in 2013, together with the detailed auger boring descriptions recorded at the Convertor Site as part of these surveys. The locations of the auger borings are presented in **Figure 1.1**.

1.1.3 As a result of the overlap of the survey area with the Onshore High Voltage Direct Current (HVDC) Cable Corridor and Converter Site, the results can provide an indicative idea of the soil types for the proposed Onshore HVDC Cable Corridor and Converter Site and the likely distribution of ALC grades. This data remains relevant as the survey work considers the physical characteristics of soil profiles that would still remain *in-situ* today, except where land may have been subject to permanent disturbance.

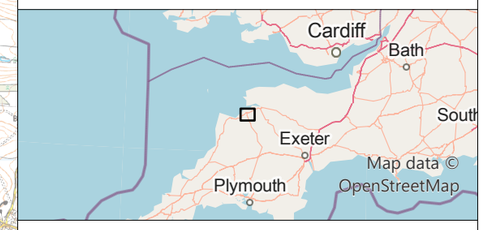
N

0 500 1,000 m

Notes
1. This plan is scaled at paper size A3. If received electronically it is the recipients responsibility to print to the correct scale. Only written dimensions should be used.

Legend

- Order Limits
- Converter Site
- Western Auger Borings
- Eastern Auger Borings
- Substation Auger Borings



P01	FINAL	SHB	MB	22.10.24
Rev	Description	By	CB	Date

Client: Xlinks 1 Limited

Project: Xlinks' Morocco-UK Power Project

Title: Locations of Auger Borings

Status: FINAL

Scale @ A3: 1:35,000

Date Created: Nov 2024

Figure Number: **1.1**

Rev: **P01**

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1.2 Summary of Soil Types and Auger Borings

1.2.1 The following tables provide the summary data from the Atlantic Array Offshore Wind Farm Surveys. **Figure 1.2** presents the distribution of ALC Grades on Converter Site.

Table 1.1: Atlantic Array Offshore Wind Farm survey results near Proposed Development Converter Site

Converter Site		
Number	**Soil Type**	**ALC Grade and Limitation**
S1	Hallsworth	3b Wetness
S2	Hallsworth	3b Wetness
S3	Hallsworth	3b Wetness
S4	Hallsworth	3b Wetness
S5	Hallsworth	3b wetness
S6	Denbigh	3a Stone/depth
S7	Denbigh	3a stone/depth
S8	Denbigh(s)	3b stone/depth
S9	Denbigh(s)	3b stone/depth
S10	Denbigh(s)	3b stone/depth
S11	Denbigh(s)	3b stone/depth
S12	Denbigh(s)	3b stone/depth
S13	Denbigh	3a stone/depth
S14	Denbigh(s)	3b stone/depth
S15	Hallsworth	4 wetness
S16	Hallsworth	3b wetness
S17	Hallsworth	3b wetness
S18	Hallsworth	3b/4 wetness
S19	Denbigh	3a stone/wetness
S20	Denbigh	3a stone/depth
S21	Denbigh	3a stone/depth
S22	Denbigh(s)	3ab stone/depth
S23	Hallsworth	4 wetness
S24	Hallsworth	3b wetness
S25	Hallsworth	3b wetness
S26	Hallsworth	3b wetness
S27	Hallsworth	3b wetness
S28	Hallsworth	3b wetness
S29	Hallsworth	3b/4 wetness
S30	Hallsworth	4 wetness
S31	Hallsworth	4 wetness
S32	Hallsworth	3b wetness
S33	Hallsworth	3b wetness

Converter Site		
Number	**Soil Type**	**ALC Grade and Limitation**
S34	Hallsworth	4 wetness
S35	Hallsworth	4 wetness
S36	Denbigh	3a stone/depth
S37	Denbigh	3a stone/depth
S38	Denbigh	3a stone/depth
S38	Denbigh	3a stone/depth

Table 1.2: Atlantic Array Offshore Wind Farm Auger Boring results – Converter Site

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
S1	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S2	0 -24	dgb	10 YR 4/2	Mcl/hcl			IV	N/A	Wetness	3b
	24 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S3	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S4	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S6	0 – 24	DB	7.5 yr 4/2	Mcl	10% >2cm Stones		I	MB: Wheat -12 Potatoes 3	Stoniness/depth/ droughtiness	3a
	24 – 45	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	45+	IMP								
S7	0 – 24	DB	7.5 yr 4/2	Mcl	10% >2cm Stones		I	MB: Wheat – 16 Potatoes -1	Stoniness/depth/ droughtiness	3a
	24 – 42	B	7.5.YR 4/3	Mcl	15 – 20% total stone					

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
	42+	IMP			Stony bedrock					
S8	0 – 26	DB	7.5 YR 4/2	Mcl	15% > 2cm		I	MB: Wheat -28 MB Potatoes: -13	Stoniness/ droughtiness	3b
	26 - 35	b	7.5.YR 4/3	Mcl	15 – 20% total stone					
	IMP									
S9	0 – 25	DB	7.5 YR 4/2	Mcl	15% > 2cm		I	MB: Wheat -28 MB Potatoes: -14	Stoniness/ droughtiness	3b
	25 - 37	b	7.5.YR 4/3	Mcl	15 – 20% total stone					
	IMP									
S10	0 – 26	DB	7.5 YR 4/2	Mcl	15% > 2cm		I	MB: Wheat -28 MB Potatoes: -13	Stoniness/ droughtiness	3b
	26 - 35	b	7.5.YR 4/3	Mcl	15 – 20% total stone					
	IMP									
S11	0 – 27	DB	7.5 YR 4/2	Mcl	15% > 2cm		I	MB: Wheat -27 MB Potatoes: -12	Stoniness/ droughtiness	3b
	27 - 36	b	7.5.YR 4/3	Mcl	15 – 20% total stone					
	IMP									
S12	0 – 26	DB	7.5 YR 4/2	Mcl	15% > 2cm		I	MB: Wheat -26 MB Potatoes: -11	Stoniness/ droughtiness	3b
	26 - 37	b	7.5.YR 4/3	Mcl	15 – 20% total stone					
	IMP									
S13	0 – 24	DB	7.5 yr 4/2	Mcl	10% >2cm Stones		I	MB: Wheat -12 Potatoes 3	Stoniness/depth	3a

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
	24 – 45	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	45+	IMP								
S14	0 – 25	DB	7.5 YR 4/2	Mcl	15% > 2cm		I	MB: Wheat -26 MB Potatoes: -11	Stoniness/ droughtiness	3b
	25 - 37	b	7.5.YR 4/3	Mcl	15 – 20% total stone					
	IMP									
S15	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	4
	25 – 40	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	40 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S16	0 -24	dgb	10 YR 4/2	Mcl/hcl			IV	N/A	Wetness	3b
	24 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S17	0 -24	dgb	10 YR 4/2	Mcl/hcl			IV	N/A	Wetness	3b
	24 – 47	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	47 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S18	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	3b/4
	25 – 52	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	52 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S19	0 – 24	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB: Wheat -12 Potatoes 3	Stoniness/depth/ droughtiness	3a

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
	24 – 45	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	45+	IMP								
S20	0 – 25	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB: Wheat -13 Potatoes 2	Stoniness/depth/ droughtiness	3a
	25 – 45	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	45+	IMP								
S21	0 – 25	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB: Wheat -16 Potatoes 2	Stoniness/depth/ droughtiness	3a
	25 – 43	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	43+	IMP								
S22	0 – 25	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB: Wheat -10 Potatoes 5	Stoniness/depth/ droughtiness	3a
	25 – 47	B	7.5.YR 4/3	Mcl	15 – 20% total stone					2/3a
	47+	IMP								
S23	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	4
	25 – 40	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	40 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S24	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S25	0 -24	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 48	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	48 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S26	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S27	0 -25	dgb	10 YR 4/2	Mcl/hcl			IV	N/A	Wetness	3b
	25 – 45	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	45 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S28	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S29	0 -25	dgb	10 YR 4/2	Hcl/mcl			IV	N/A	Wetness	3b/4
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S30	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	4
	25 – 40	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	40 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S31	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	4

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
	25 – 40	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	40 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S32	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 50	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	50 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S33	0 -25	dgb	10 YR 4/2	Mcl			IV	N/A	Wetness	3b
	25 – 47	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	47 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S34	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	4
	25 – 40	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	40 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S35	0 -25	dgb	10 YR 4/2	hcl			IV	N/A	Wetness	4
	25 – 43	Yb	10 YR 4/2	Hcl/c	Cdom	Y				
	43 – 75+	Gb	10 YR 5/2	C	Cdom SPL					
S36	0 – 24	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB Wheat -13 MB Potatoes 2	Stoniness/depth/drought	3a
	24 – 45	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	45+	IMP								
S37	0 – 24	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB Wheat -17 MB Potatoes -2	Stoniness/depth/drought	3a

Number	Depth	Colour	Munsell	Texture	Description	Gleyed	Wetness Class	Droughtiness	ALC Limitation	ALC Grade
	24 – 42	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	42+	IMP								
S38	0 – 24	DB	7.5 YR 4/2	Mcl	10% >2cm Stones		I	MB Wheat -20 MB Potatoes -5	Stoniness/depth/drought	3a
	24 – 40	B	7.5.YR 4/3	Mcl	15 – 20% total stone					
	40+	IMP								

Table 1.3: Atlantic Array Offshore Wind Farm Auger Boring results West

Auger Boring Results West		
Auger Boring Number	**Soil Type**	**ALC Grade and Limitation**
W1	Powys	3b depth/stone/slope
W2	Denbigh	3b slope
W3	Powys	3b slope
W4	Powys	3b stone
W5	Hallsworth	3b wetness
W5a,5b	Powys	3b depth/stone
W6	Powys	3b slope
W7	Powys	3b/4 slope
W8	Powys	3b slope/depth
W9	Powys	3b stone/depth
W10	Powys	3b stone/depth
W11	Powys	3b stone/depth
W12	Powys	3b stone/depth
W13	Powys	3a stone/depth
W14	Denbigh	3a depth
W15	Nercwys	3b wetness
W16	Powys	3a stone/depth
W17	Powys	3b stone/depth
W18	Neath(s)	3b stone/depth
W19	Powys	3b stone/depth/slope
W20	Powys	3b/4 slope
W21	Powys	3b depth
W22	Powys	3b stone/depth
W23	Powys	3a depth
W24	Powys	3a depth
W25	Powys	3b depth/stone
W26	Powys	3a depth/stone
W27	NON	AGRIC
W28	Neath	3a depth/stone
W29	Denbigh	3a depth/stone
W30	Denbigh	3a depth/stone
W31	Neath	2
W32	Powys	3a depth/stone
W33	Neath(s)	3a stone/depth
W34	Neath	2
W35	Neath	2
W36	Nercwys	3b wetness
W37	Neath(s)	3a stone/depth
W38	Nercwys	3a wetness
W39	Hallsworth	3b wetness

Auger Boring Results West		
Auger Boring Number	**Soil Type**	**ALC Grade and Limitation**
W40	Hallsworth	3b wetness
W41	Hallsworth	3b wetness
W42	Hallsworth	3b wetness
W43	Hallsworth	3b wetness
W44	Hallsworth	3b wetness
W45	Hallsworth	3b wetness
W46	Nercwys	3b wetness
W47	Hallsworth	3b wetness
W48	Hallsworth	3b wetness
W49	Hallsworth	3b wetness
W50	Hallsworth	3b wetness
W51	Hallsworth	3b wetness
W52	Neath	3a stone/depth
W53	Neath	3a stone/depth
W54	Hallsworth	3b wetness
W55	Neath(s)	3a stone/depth
W56	Neath(s)	3b stone/depth
W57	Neath(s)	3a stone/depth
W58	Neath(s)	3a stone/depth
W59	Neath(s)	3a stone/depth
W60	Neath(s)	3a stone/depth
W61	Neath(s)	3b depth
W62	Neath(s)	3b depth
W63	Neath(s)	3a stone/depth
W64	Neath(s)	3a stone/depth
W65	Neath(s)	3b stone/depth
W66	Neath	3a depth/stone
W67	Powys	3a depth/stone
W68	Neath	3a depth/stone
W69	Neath	3a stone/depth
W70	Neath	2 depth/stone
W71	Powys	3a depth/stone
W72	Denbigh	3a depth
W73	Neath(s)	3b stone/depth
W74	Nercwys	3a wetness
W75	Neath(s)	3b stone/depth
W76	Neath(s)	3a stone/depth
W77	Neath(s)	3b depth/stone
W78	Neath	3a
W79	Neath(s)	3a stone/depth
W80	Neath(s)	3b stone/depth

Auger Boring Results West		
Auger Boring Number	**Soil Type**	**ALC Grade and Limitation**
W81	Neath(s)	3a stone/depth
W82	Neath	3a depth
W83	Neath	3a depth
W84	Neath	2
W85	Neath(s)	3b stone/depth
W86	Denbigh	3a stone
W87	Denbigh	2 depth/stone
W88	Denbigh	2
W89	Denbigh	2
W90	Neath(s)	3a depth
W91	Neath(s)	3a stone/depth
W92	Neath(s)	3a stone/depth
W93	Neath(s)	3a stone/depth
W94	Neath(s)	3a stone/depth
W95	Neath(s)	3a stone/depth
W96	Neath(s)	3a stone/depth
W97	Neath(s)	3a stone/depth
W98	Neath(s)	3b depth/stone
W99	Neath	(s) 3a
W100	Neath(s)	3a depth/stone
W101	Hallsworth	3b wetness
W102	Hallsworth	4 wetness
W103	Hallsworth	4 wetness
W104	Neath(s)	3a stone/depth
W105	Neath(s)	3a stone/depth
W106	Neath(s)	3a stone/depth
W107	Hallsworth	3b wetness
W108	Neath	3a stone/depth
W109	Neath(s)	3a stone/depth
W110	Neath(s)	3b depth/stone
W111	Neath(s)	3b depth/stone
W112	Neath(s)	3a stone/depth
W113	Neath(s)	3a stone/depth
W114	Neath	3a depth/stone
W115	Neath	3a depth
W116	Neath	3a depth
W117	Neath	3a depth (3b slope close by)
W118	Denbigh	3a depth
W119	Neath(s)	3b depth/stone
W120	Neath	3a depth
W121	Neath(s)	3b depth/stone

Auger Boring Results West		
Auger Boring Number	**Soil Type**	**ALC Grade and Limitation**
W122	Neath(s)	3b depth/stone
W123	Neath	3b stone
W124	Nercwys	3a wetness
W125	Denbigh	3a stone
W126	Nercwys	3a wetness
W127	Nercwys	3a wetness
W128	Neath	3a stone/depth
W129	Powys	3b stone
W130	Powys	3b stone
W131	Powys	3b/stone/depth/slope
W132	Powys	3b stone/depth/slope
W133	Powys	3b stone/depth
W134	Powys	3b/4 slope
W135	Powys	3b stone/depth
W136	Powys	3b slope
W137	Neath	3a depth

Table 1.4: Atlantic Array Offshore Wind Farm Auger Boring results East

Auger Boring Results East		
Auger Boring Number	**Soil Type**	**ALC Grade and Limitation**
E1	Denbigh	3a depth/stone
E2	Denbigh	3a depth/stone
E3	Nercwys	3b wetness
E4	Hallsworth	3b/4 wetness
E5	Hallsworth	3b/4 wetness
E6	Nercwys	3b wetness
E7	Neath	3a stone/depth
E8	Neath(s)	3b depth
E9	Neath(s)	3b depth
E10	Denbigh	3a Depth
E11	Neath	3a stone/depth
E12	Neath	3a stone/depth
E13	Neath	3a stone/depth
E14	Powys	3a stone/depth
E15	Hallsworth	3b wetness
E16	Hallsworth	3b wetness
E17	Powys	3a stone/depth
E18	Neath(s)	3b stone/depth
E19	Hallsworth	3b wetness
E20	Neath(s)	3b stone/depth
E21	Hallsworth	3b wetness
E22	Neath(s)	3a stone/depth
E23	Neath(s)	3b depth
E24	Neath(s)	3b depth
E25	Powys	3a depth
E26	Denbigh	3a stone/depth
E27	Denbigh	2
E28	Neath	3a stone
E29	Powys	3a stone/depth
E30	Neath(s)	3a stone/depth
E31	Neath	3a stone
E32	Neath(s)	3a stone/depth
E33	Neath(s)	3a stone/depth
E34	Neath(s)	3a stone/depth
E35	Neath	3a depth
E35(a)	Disturbed	
E36	Neath(s)	3a stone/depth
E37	Neath(s)	3b depth/stone
E38	Powys	3b/4 slope/stone
E39	Powys	3b/4 slope/stone

Auger Boring Results East		
Auger Boring Number	**Soil Type**	**ALC Grade and Limitation**
E40	Powys	3b depth
E41	Powys	3b depth
E42	Nercwys	3b wetness
E43	Powys	3b depth
E44	Neath	3a depth
E45	Nercwys	3b wetness
E46	Powys	3b depth
E47	Neath(s)	3a depth/stone
E48	Neath(s)	3a depth
E49	Neath(s)	3a depth
E50	Neath(s)	3a stone/depth
E51	Neath(s)	3b stone/depth
E52	Neath	3a stone
E53	Neath	3a stone
E54	Denbigh	3a depth
E55	Neath(s)	3b depth
E56	Powys	3b depth/stone
E57	Denbigh	3a
E58	Powys	3a depth/stone
E59	Powys	3a depth/stone
E60	Powys	4 slope
E61	Powys	3b/4 slope
E62	Powys	3b slope
E63	Powys	3b/4 slope
E64	Powys	3b/4 slope
E65	Powys	4 slope
E66	Powys	4 slope

N

0 500 1,000m

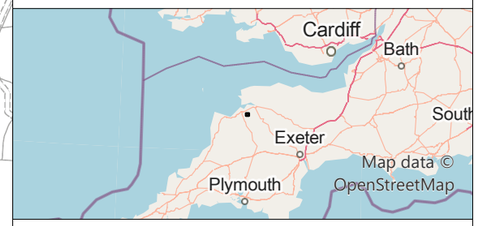
Notes
1. This plan is scaled at paper size A3. If received electronically it is the recipients responsibility to print to the correct scale. Only written dimensions should be used.

Legend

- Order Limits
- Converter Site

ALC Grade

- Grade 3a
- Grade 3b
- Grade 4



Rev	Description	By	CB	Date
P01	FINAL	SHB	JT	15.10.24

Xlinks

Client: Xlinks 1 Limited

Project: Xlinks' Morocco-UK Power Project

Title: Agricultural Land Classification - Converter Site

Status: FINAL

Scale @ A3: 1:7,500

Date Created: Nov 2024

Figure Number: **1.2**

Rev: **P01**

www.xlinks.co

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1.3 Results from Soil Pits and Archaeological Trial Trenching

Pit 1 – Close to Auger Boring W8 – Identified as Powys series

1.3.1 0 – 19 cm Dark brown (Munsell Code 7.5YR 4/2); medium clay loam; abundant small and medium fragments of shale and mudstone; well-developed medium granular structure; moist; friable; occasional worms; abundant grass roots (Topsoil).

1.3.2 19 – 25 cm Brown (Munsell Code 7.5YR 4/3); medium clay loam; in pockets in extremely stony material (fragmented shale and mudstone); indeterminate structure; moist; friable; no worms observed; common grass roots concentrated in the clay loam pockets and exploiting fissures in the fragmented rock (Subsoil/Parent Material).

1.3.3 25+ cm Rubble of fragmented angular shale and mudstone, showing signs of bedding at depth, and with a small amount of interstitial clay loam similar to above in approximately the top 10cm; occasional grass roots exploiting fissures in the fragmented rock (Parent Material).

Archaeological Trench 18 – Identified as Denbigh series

1.3.4 0 – 23 cm Dark brown (Munsell Code 7.5YR 4/2); medium clay loam; common small soft fragments of shale, siltstone or fine sandstone; well-developed medium granular structure; moist; friable; occasional worms; abundant grass roots (Topsoil).

1.3.5 23 – 50 cm Brown (Munsell Code 7.5YR 4/3); medium clay loam; common small soft fragments of rock similar to those in topsoil, becoming more abundant with depth; well-developed fine and medium subangular blocky structure; moist; friable; no worms observed; common grass roots (Subsoil).

1.3.6 50-75 cm Fragmented grey shale and siltstone with about 10% brown interstitial material similar to horizon above (Parent Material).

1.3.7 75+ cm Bedded hard shale and siltstone (Parent Material).

Soil Pit 2 – Close to Boring W93 – Identified as Neath Series

1.3.8 0 – 26 cm Dark brown (Munsell Code 10YR 4/3); heavy clay loam; common hard, rounded medium stones; moderately developed fine subangular blocky structure; moist; friable to firm; common worms; abundant roots (Topsoil).

1.3.9 26 – 55 cm Brown (Munsell Code 10YR 5/3); heavy clay loam; stones as above, becoming stonier with depth; weakly developed fine subangular blocky structure; moist; friable; no worms observed; occasional roots (Subsoil).

1.3.10 55 – 75 cm Brown (Munsell Code 10YR 5/3); heavy clay loam; very stony, with many hard stones larger than 2 cm diameter and a few larger than 6 cm diameter; indeterminate structure; moist; firm; no worms or roots observed (Subsoil continued).

1.3.11 75+ cm Pit abandoned (too rocky) Wetness Class I.

Archaeological Trench 22 – Identified as Neath Series (stony phase)

1.3.12 0 – 22 cm Dark brown (Munsell Code 10YR 4/3); heavy clay loam; common to abundant hard, rounded and angular medium stones (greyish sandstone); weakly developed fine subangular blocky structure; moist; friable to firm; common worms; abundant roots (Topsoil).

1.3.13 22 – 35 cm Brown (Munsell Code 10YR 5/3); heavy clay loam; abundant stones as above, becoming stonier with depth; weakly developed fine subangular blocky structure; moist; friable; no worms observed; occasional grass roots (Subsoil).

1.3.14 35+ cm Pit abandoned (too rocky).

Soil Pit Close to Boring E5 - Hallsworth series

1.3.15 0 – 24 cm Dark greyish brown (Munsell Code 10YR 4/2); heavy clay loam; common hard, rounded medium stones; moderately developed fine subangular blocky structure; moist; friable to firm; common worms; abundant roots (Topsoil).

1.3.16 24 – 55 cm Yellowish brown (Munsell Code 10YR 5/4) with many fine and medium ochreous and light grey mottles; clay; common to abundant stones as above; moderately developed coarse prismatic structure; moist; firm; no worms observed; occasional roots, mainly restricted to fissures between peds; slowly permeable layer (Subsoil).

1.3.17 55+ cm Greyish brown (Munsell Code 10YR 5/2) with many fine medium and large ochreous and grey mottles; clay; common to abundant stones as above; massive structure; moist; very firm; no worms or roots observed; slowly permeable layer (Subsoil continued) Wetness Class IV.