



Wylfa Newydd Project

6.4.32 ES Volume D - WNDA Development
App D8-7 - Surface water and
groundwater modelling results (Part 6/7)

PINS Reference Number: EN010007

Application Reference Number: 6.4.32

June 2018

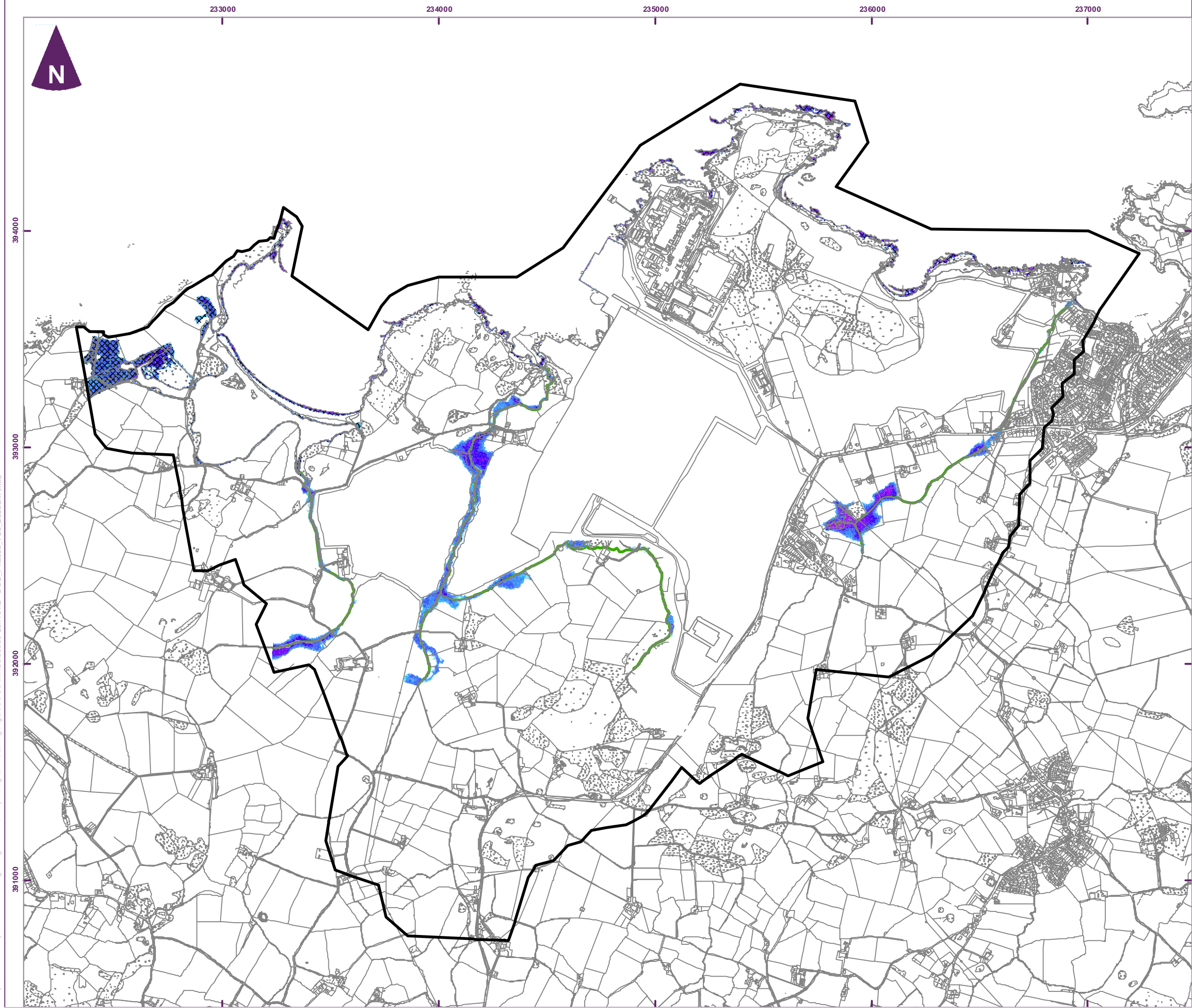
Revision 1.0

Regulation Number: 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

[This page is intentionally blank]



Key

- Peak flood depth (m)
Reference Point 5
1 : 30 year AEP fluvial
Climate change 2080s -
reasonably foreseeable
- | |
|------------------------|
| 0.01 - 0.05 |
| 0.05 - 0.10 |
| 0.10 - 0.25 |
| 0.25 - 0.50 |
| 0.50 - 0.75 |
| 0.75 - 1.00 |
| 1.00 - 1.50 |
| 1.50 - 2.00 |
| > 2.00 |
| Model boundary |
| MHWS Extent 2080s |
| Model river centreline |

Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1261i2_DCO_Phase5_F30_2080sRF.xlsx

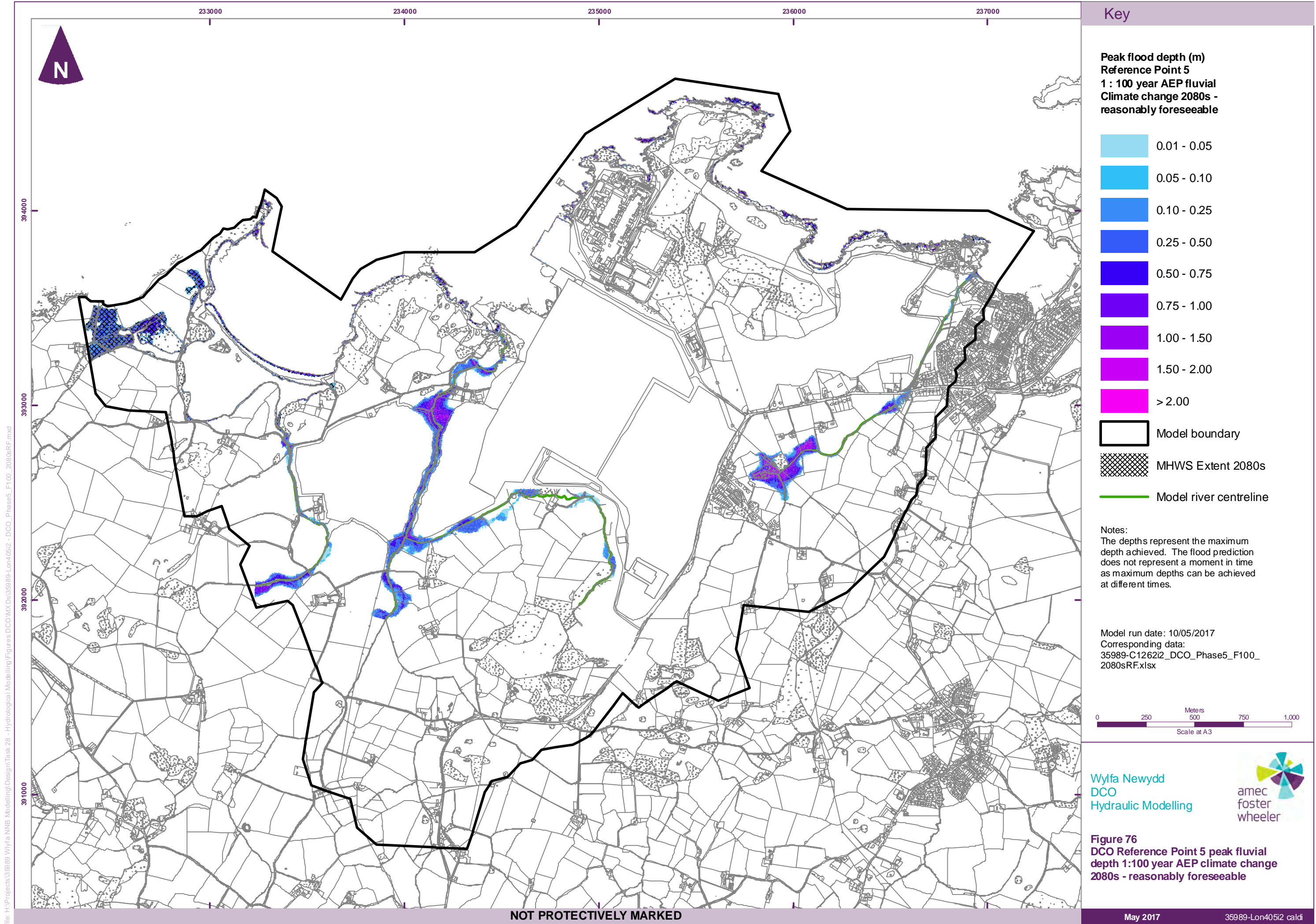


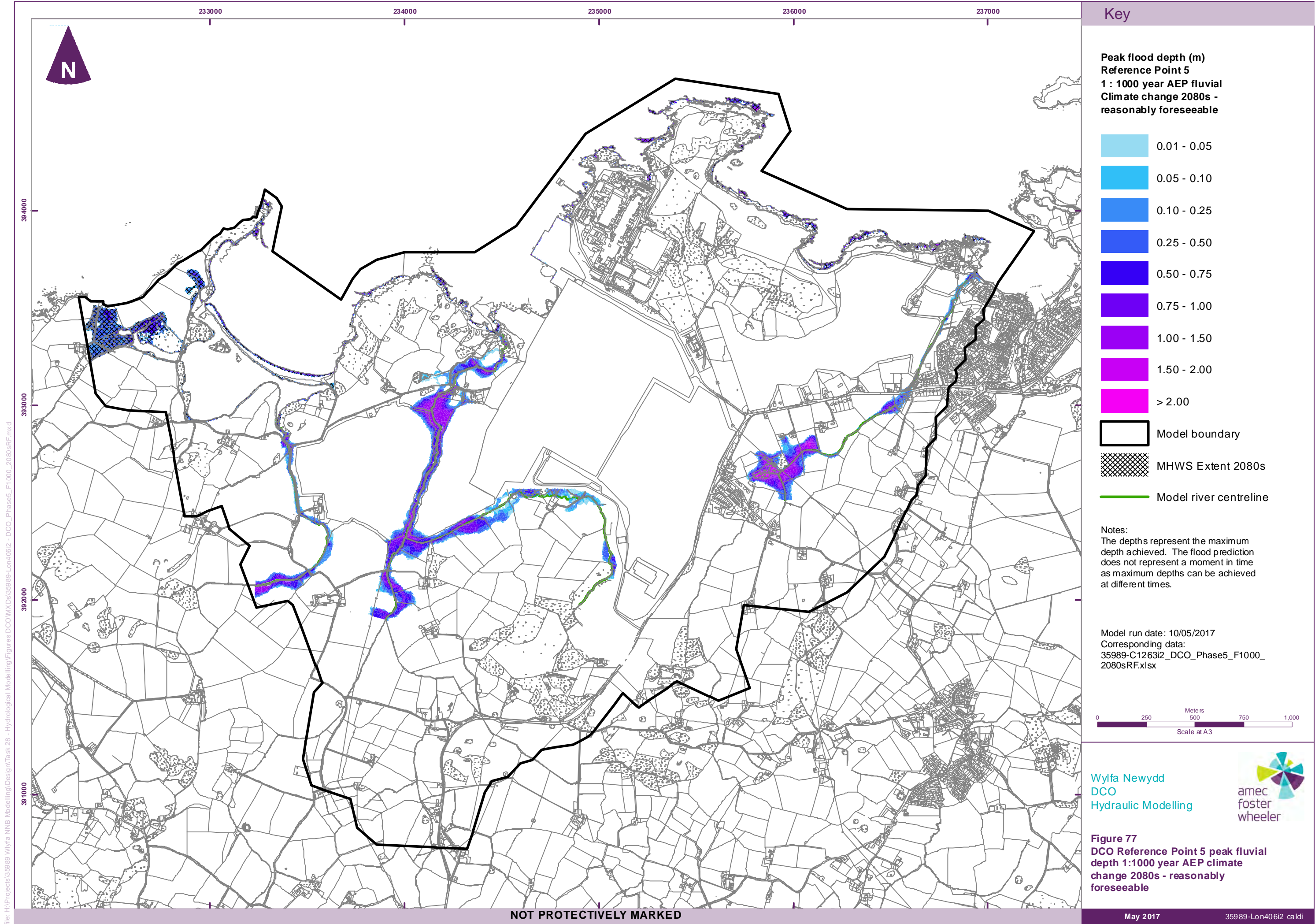
Wylfa Newydd
DCO
Hydraulic Modelling

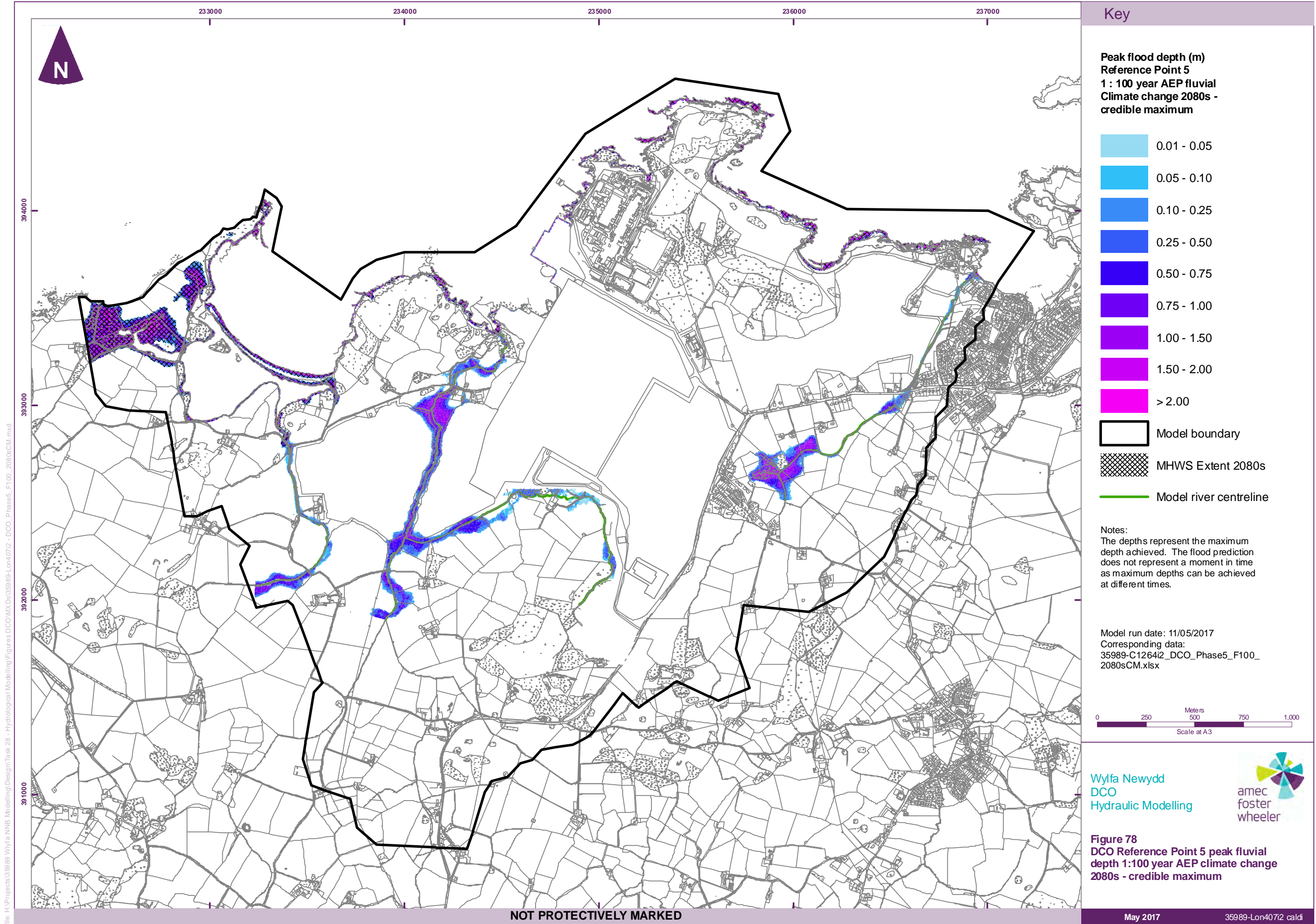


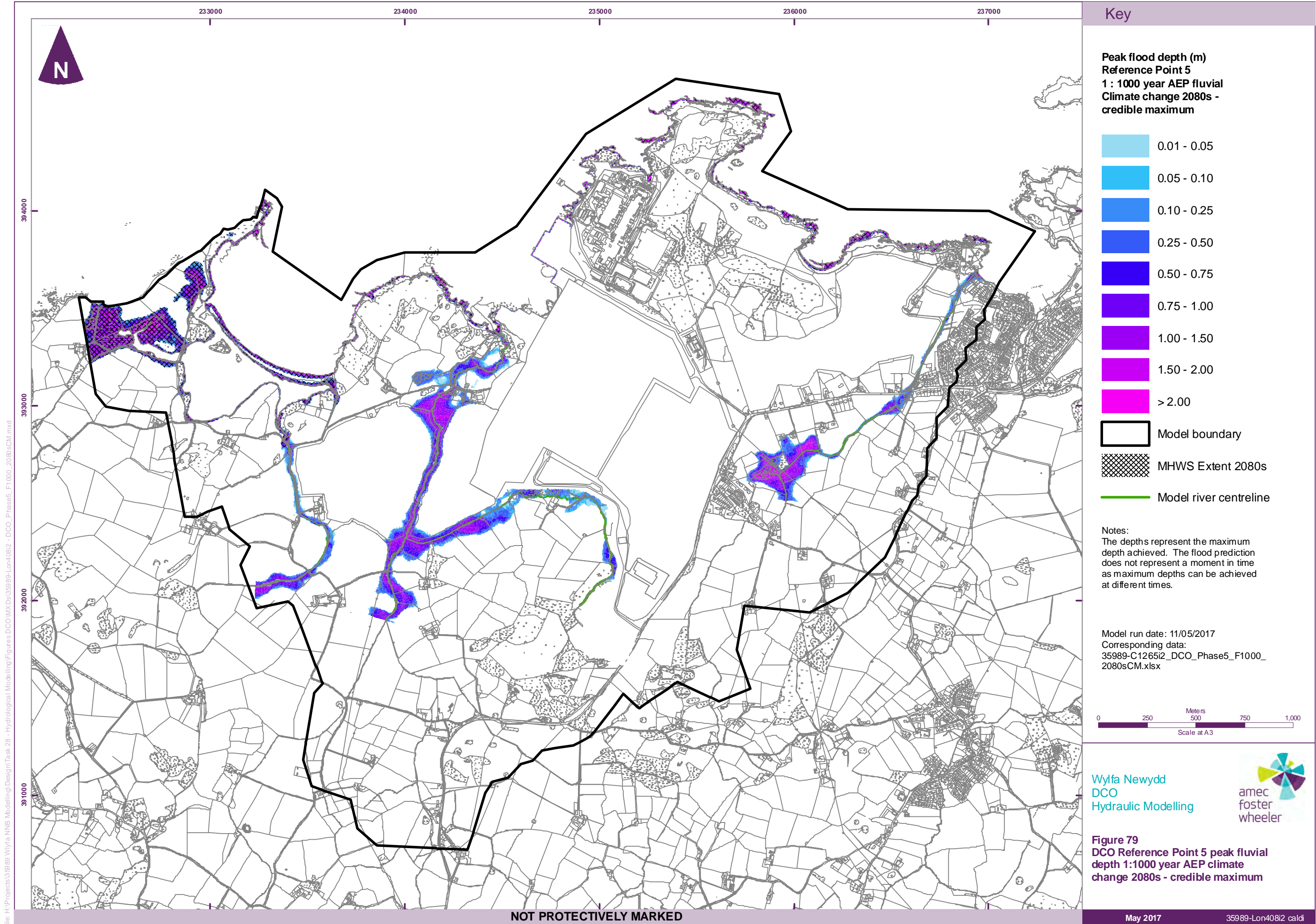
Figure 75
DCO Reference Point 5 peak fluvial
depth 1:30 year AEP climate change
2080s - reasonably foreseeable

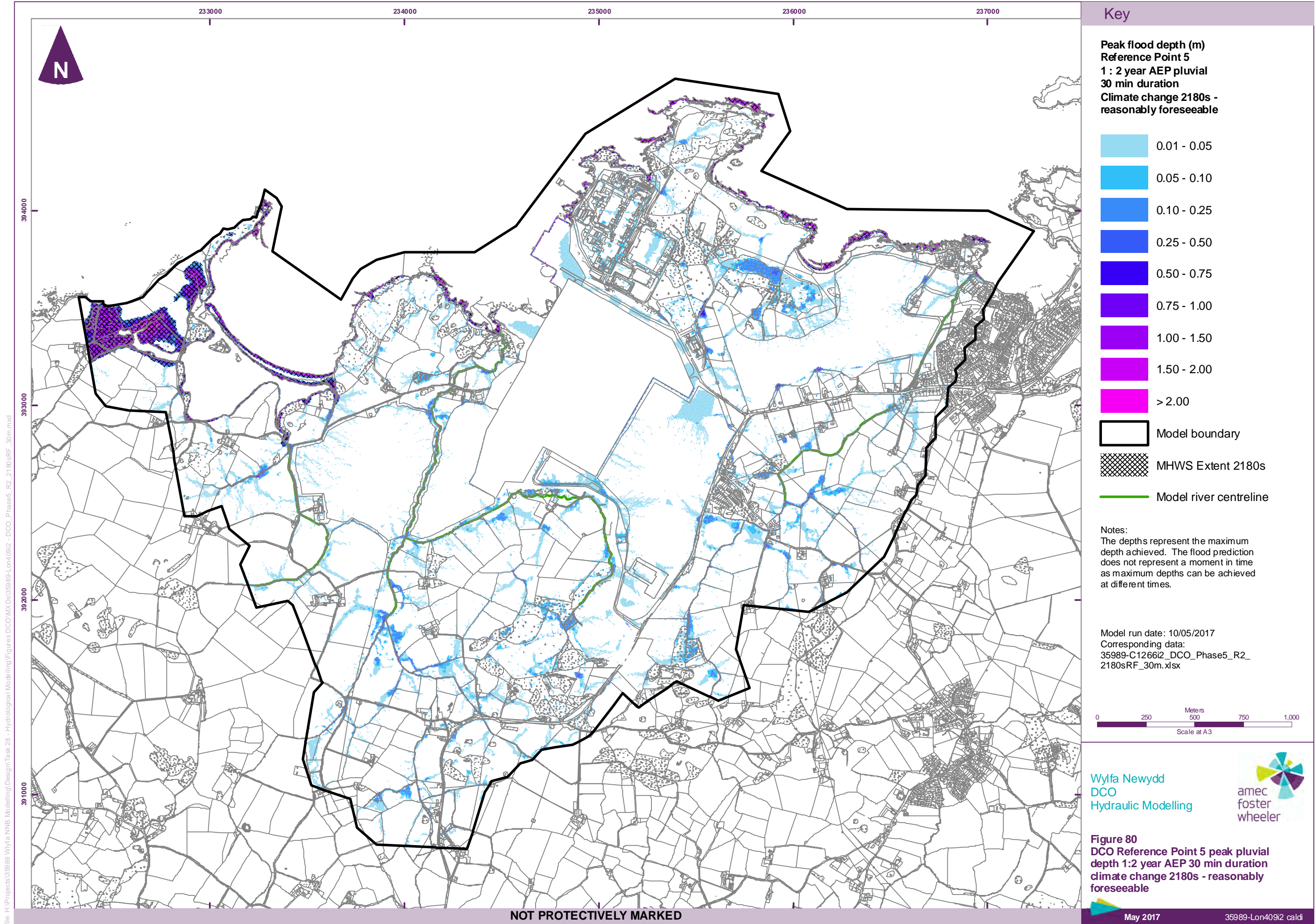
NOT PROTECTIVELY MARKED

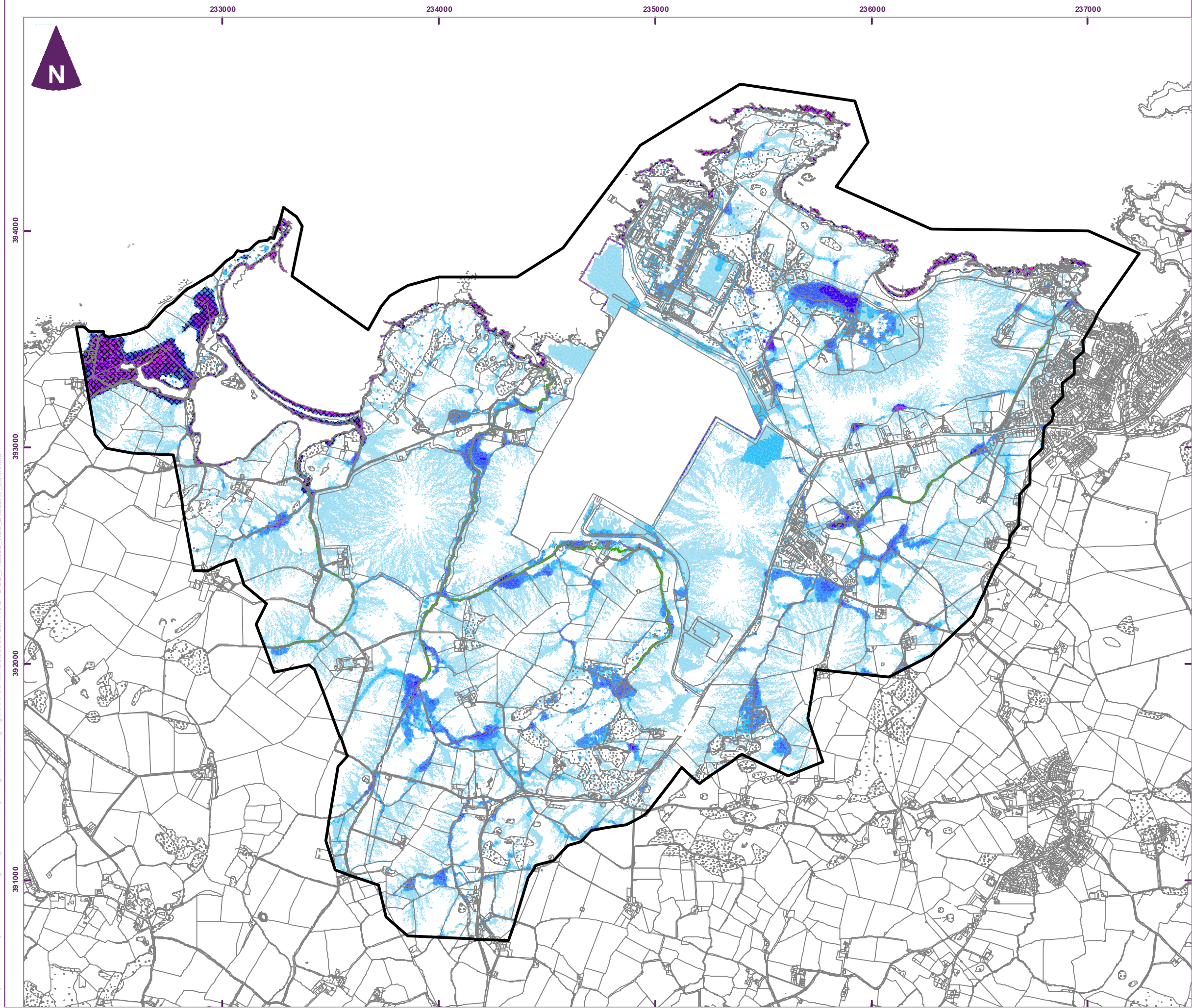












Key

Peak flood depth (m)

Reference Point 5

1 : 30 year AEP pluvial

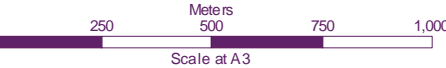
30 min duration

Climate change 2180s - reasonably foreseeable

	0.01 - 0.05
	0.05 - 0.10
	0.10 - 0.25
	0.25 - 0.50
	0.50 - 0.75
	0.75 - 1.00
	1.00 - 1.50
	1.50 - 2.00
	> 2.00
	Model boundary
	MHS Extent 2180s
	Model river centreline

Notes:
The depths represent the maximum depth achieved. The flood prediction does not represent a moment in time as maximum depths can be achieved at different times.

Model run date: 10/05/2017
Corresponding data: 35989-C126712_DCO_Phase5_R30_2180sRF_30m.xlsx

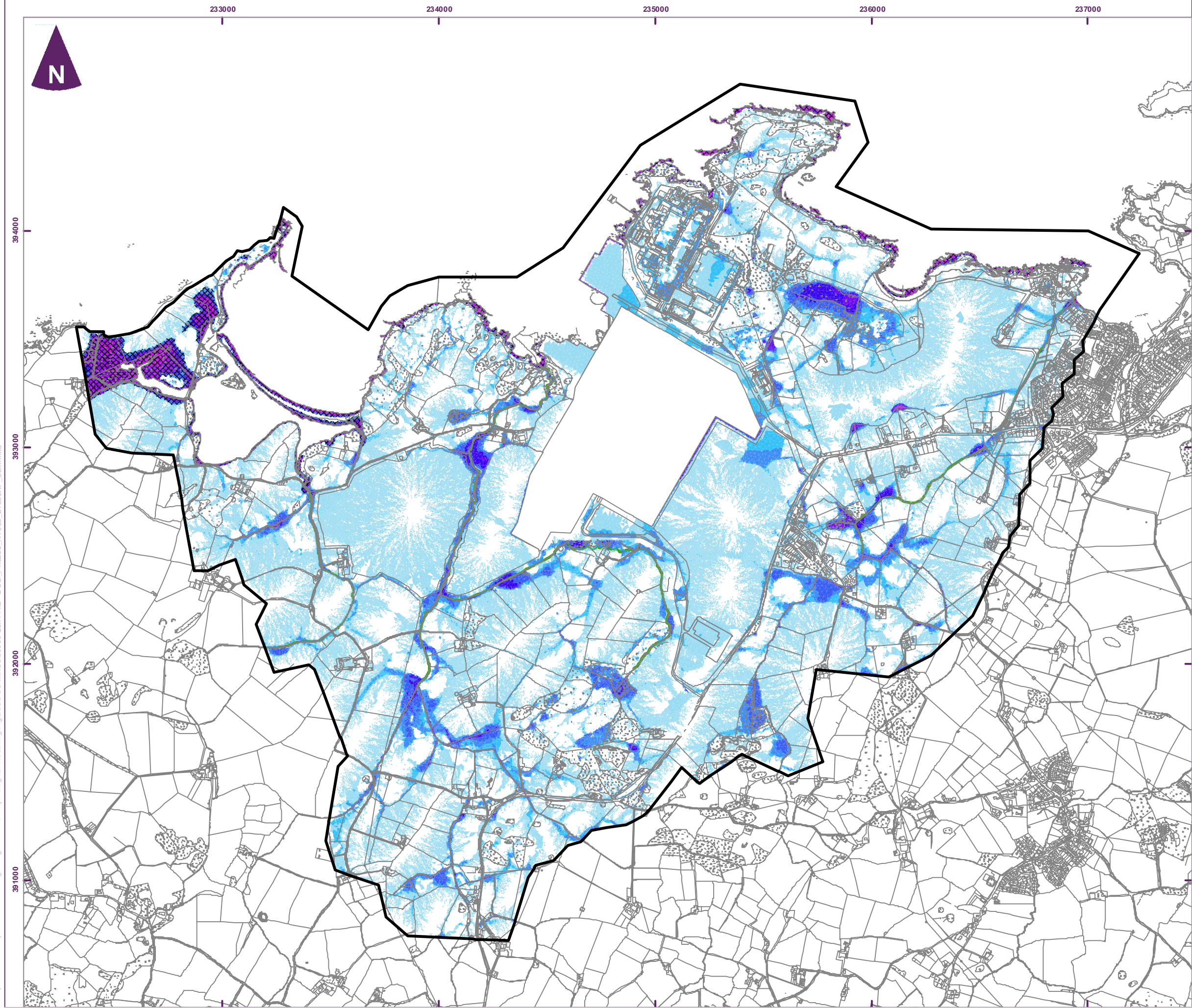


Wylfa Newydd

DCO

Hydraulic Modelling

Figure 81
DCO Reference Point 5 peak pluvial depth 1:30 year AEP 30 min duration climate change 2180s - reasonably foreseeable



Key

Peak flood depth (m)

Reference Point 5

1 : 100 year AEP pluvial

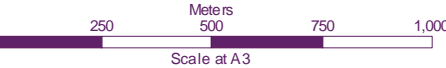
30 min duration

Climate change 2180s - reasonably foreseeable

	0.01 - 0.05
	0.05 - 0.10
	0.10 - 0.25
	0.25 - 0.50
	0.50 - 0.75
	0.75 - 1.00
	1.00 - 1.50
	1.50 - 2.00
	> 2.00
	Model boundary
	MHWS Extent 2180s
	Model river centreline

Notes:
The depths represent the maximum depth achieved. The flood prediction does not represent a moment in time as maximum depths can be achieved at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1268i2_DCO_Phase5_R100_2180sRF_30m.xlsx

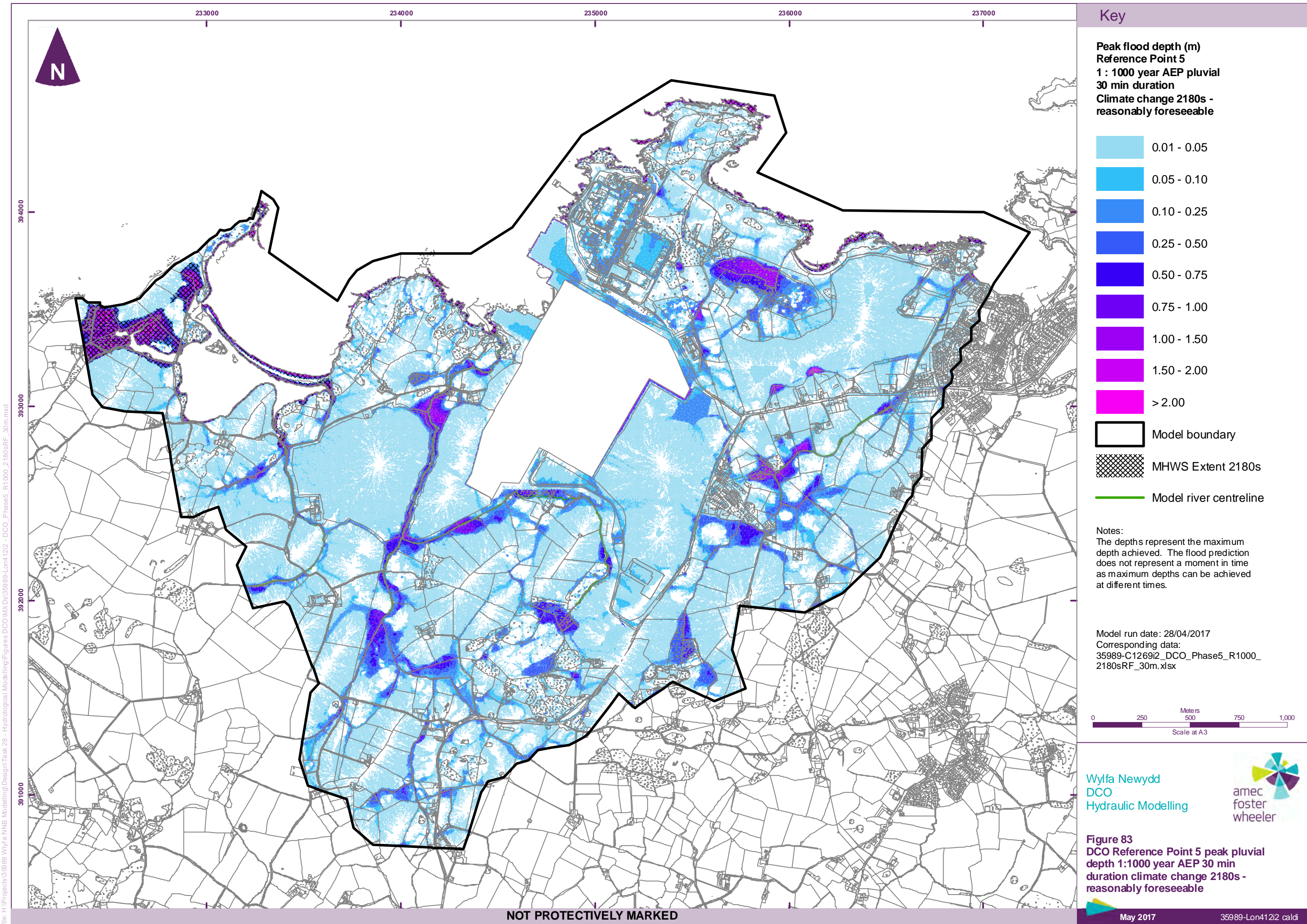


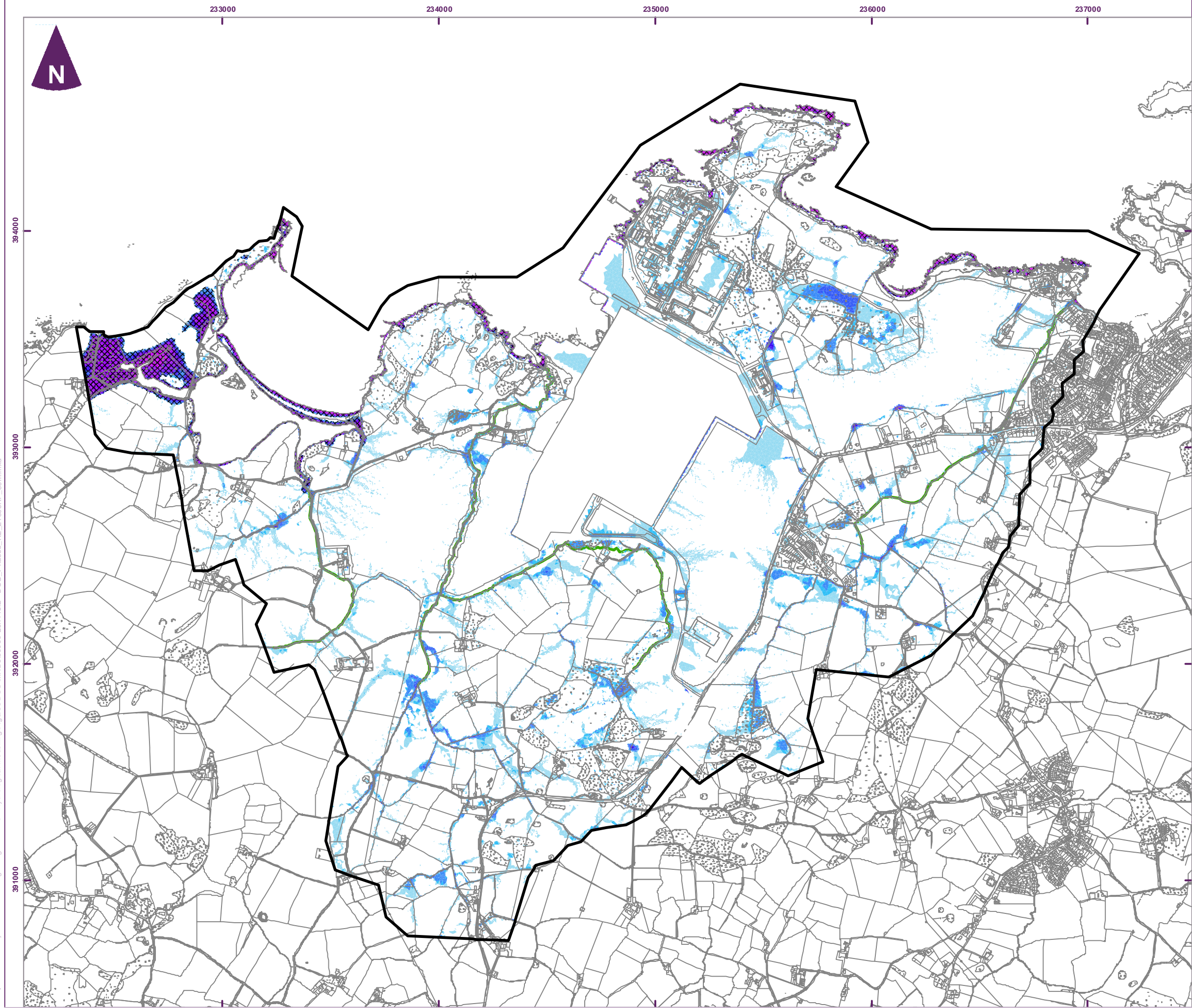
Wylfa Newydd

DCO

Hydraulic Modelling

Figure 82
DCO Reference Point 5 peak pluvial depth 1:100 year AEP 30 min duration climate change 2180s - reasonably foreseeable





Key

- Peak flood depth (m)
Reference Point 5
1 : 2 year AEP pluvial
60 min duration
Climate change 2180s -
reasonably foreseeable
- | |
|------------------------|
| 0.01 - 0.05 |
| 0.05 - 0.10 |
| 0.10 - 0.25 |
| 0.25 - 0.50 |
| 0.50 - 0.75 |
| 0.75 - 1.00 |
| 1.00 - 1.50 |
| 1.50 - 2.00 |
| > 2.00 |
| Model boundary |
| MHS Extent 2180s |
| Model river centreline |

Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1270i2_DCO_Phase5_R2_
2180sRF_60m.xlsx

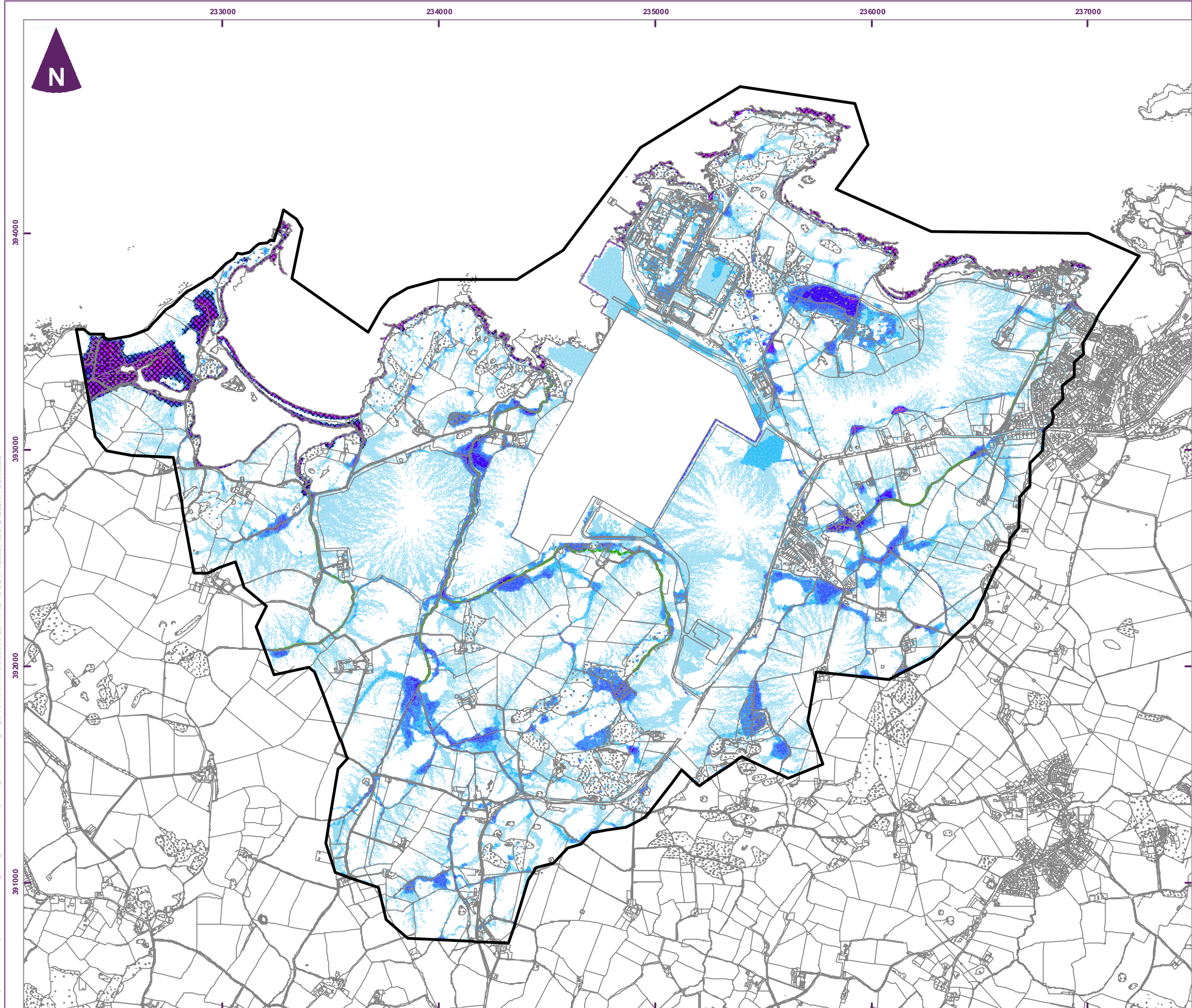


Wylfa Newydd
DCO
Hydraulic Modelling

amec
foster
wheeler

Figure 84
DCO Reference Point 5 peak pluvial
depth 1:2 year AEP 60 min duration
climate change 2180s - reasonably
foreseeable

NOT PROTECTIVELY MARKED



Key

- Peak flood depth (m)
Reference Point 5
1 : 30 year AEP pluvial
60 min duration
Climate change 2180s -
reasonably foreseeable
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2180s
- Model river centreline

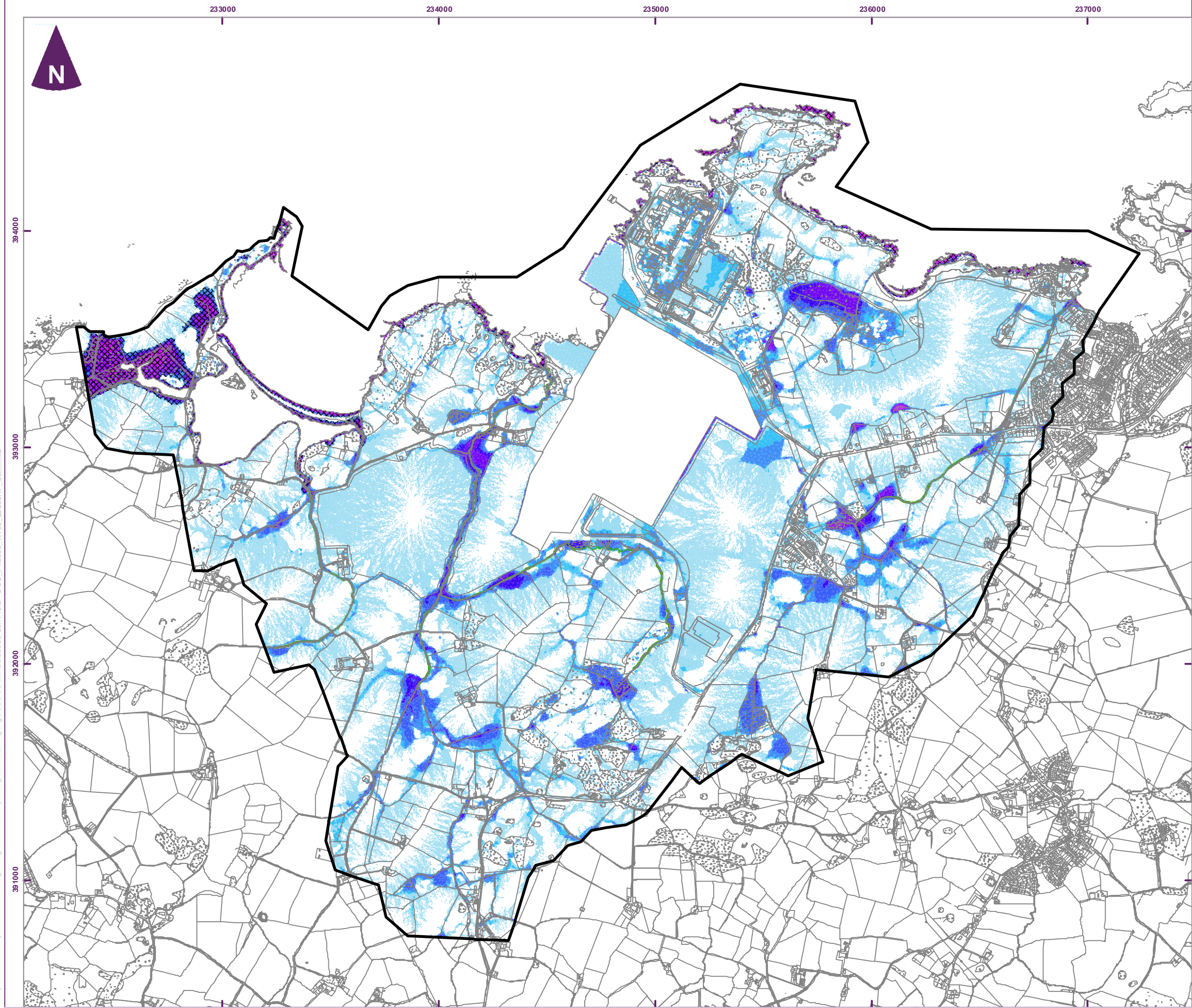
Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1271i2_DCO_Phase5_R30_
2180sRF_60m.xlsx



Wylfa Newydd
DCO
Hydraulic Modelling

Figure 85
DCO Reference Point 5 peak pluvial
depth 1:30 year AEP 60 min
duration climate change 2180s -
reasonably foreseeable



Key

- Peak flood depth (m)
Reference Point 5
1 : 100 year AEP pluvial
60 min duration
Climate change 2180s -
reasonably foreseeable
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2180s
- Model river centreline

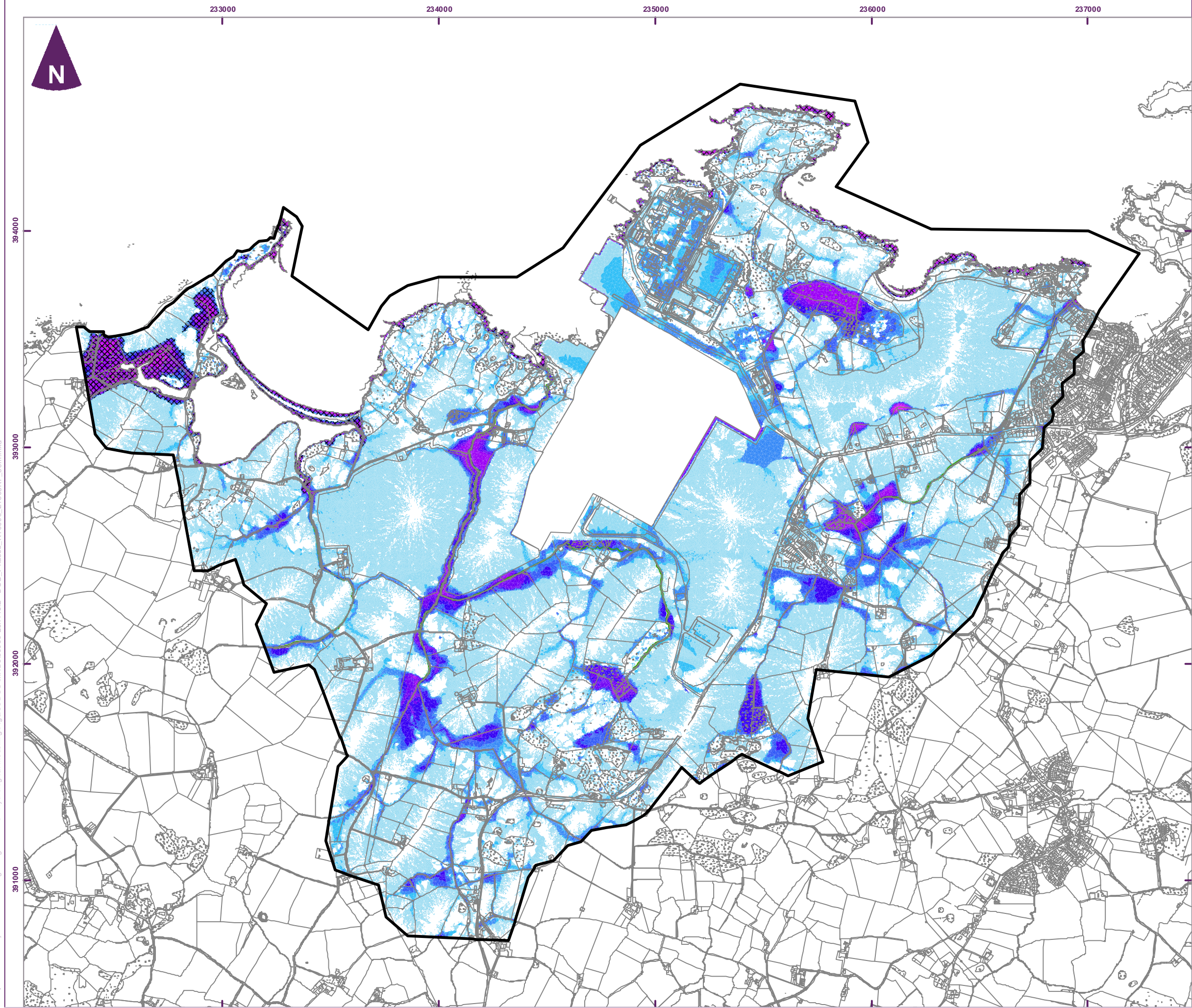
Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1272i2_DCO_Phase5_R100_
2180sRF_60m.xlsx



Wylfa Newydd
DCO
Hydraulic Modelling

Figure 86
DCO Reference Point 5 peak pluvial
depth 1:100 year AEP 60 min
duration climate change 2180s -
reasonably foreseeable



Key

- Peak flood depth (m)
Reference Point 5
1 : 1000 year AEP pluvial
60 min duration
Climate change 2180s -
reasonably foreseeable
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2180s
- Model river centreline

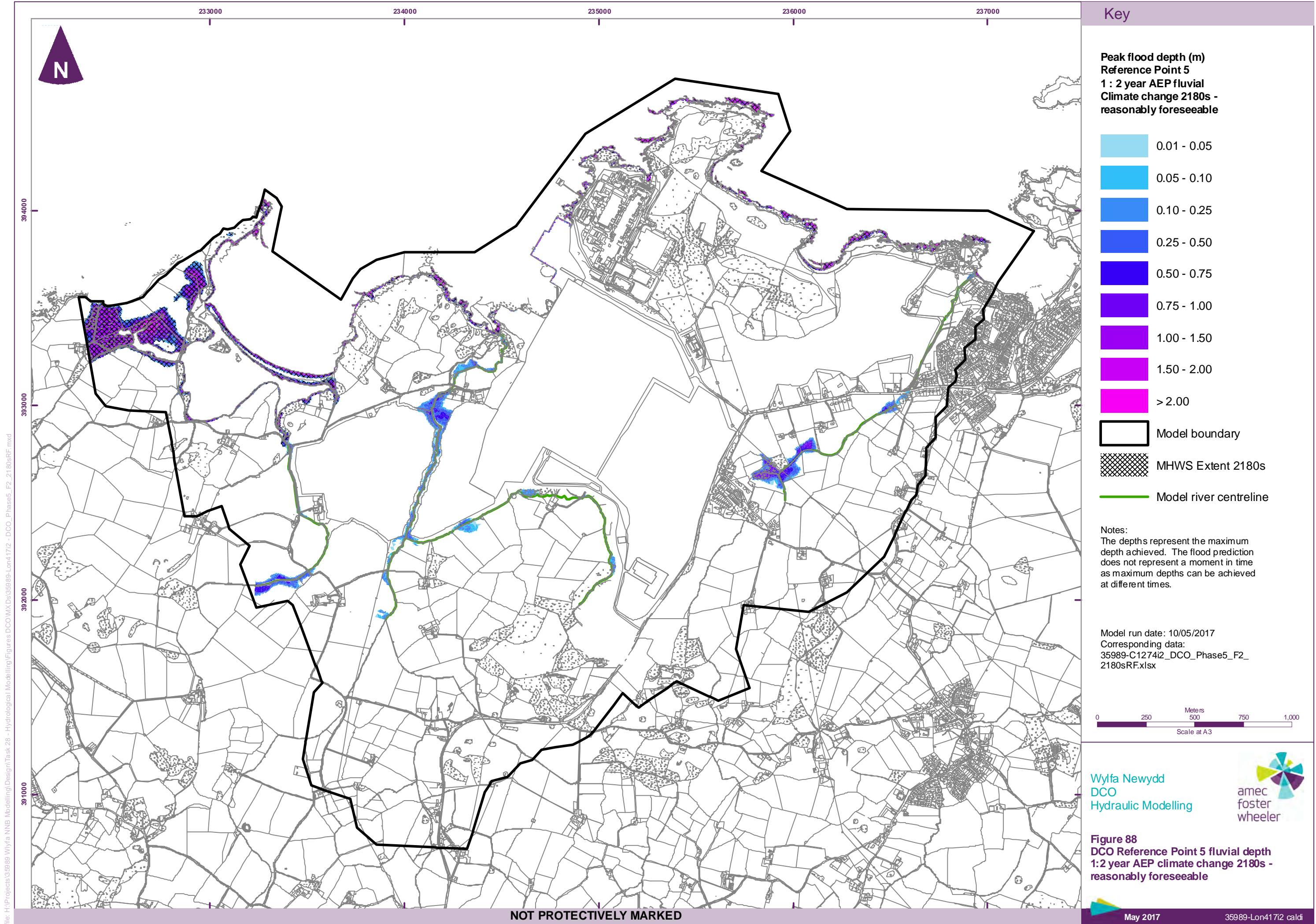
Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1273i2_DCO_Phase5_R1000_
2180sRF_60m.xlsx



Wylfa Newydd
DCO
Hydraulic Modelling

Figure 87
DCO Reference Point 5 peak pluvial
depth 1:1000 year AEP 60 min
duration climate change 2180s -
reasonably foreseeable



file: H:\Projects\35989 Wylfa NNB Modelling\DesignTask 28 - Hydrological Modelling\Figures\DCO\WYDA\35989-Lon41712 - DCO_Phase5_F2_2180sRF.mxd

NOT PROTECTIVELY MARKED

