

## Appendix G

# Flood Mapping

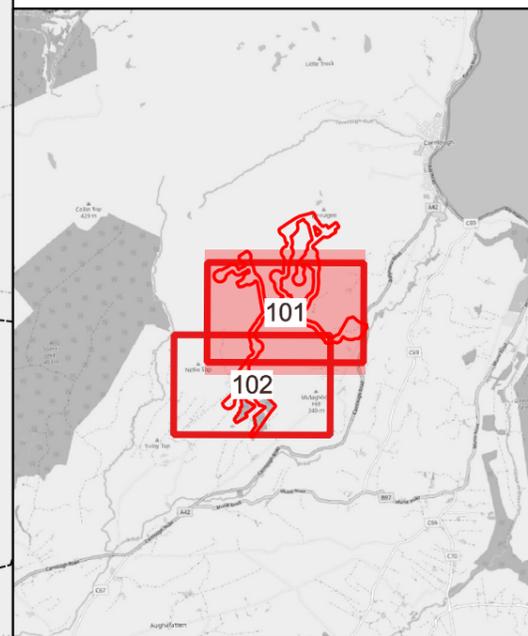
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326000

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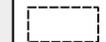


OVERVIEW



LEGEND

The Site

-  Planning Application Boundary
-  Land Under Applicants Control
-  Modelled Watercourse Extent

Hydrology

-  Present Day 1% AEP + CC Flood Extent

Structure

-  Proposed Infrastructure



415000

414000



Mossley Mill,  
Lower Ground (West),  
Carnmoney Road North,  
Newtownabbey, BT36 5QA

T: 028 9084 8694  
E: info@mcclloyconsulting.com  
W: www.mcclloyconsulting.com

<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENT	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE
<b>GEOMETRY SCENARIO</b> PRESENT DAY
<b>FIGURE NUMBER</b> M01616-23_FLG_FL_101

<b>SCALE</b> AS SHOWN	<b>ORIGINAL SIZE</b> A3
<b>DRAWN BY</b> DL	<b>APPROVED</b> DKS
<b>REVISION</b> 1	<b>DATE</b> 01/12/2021

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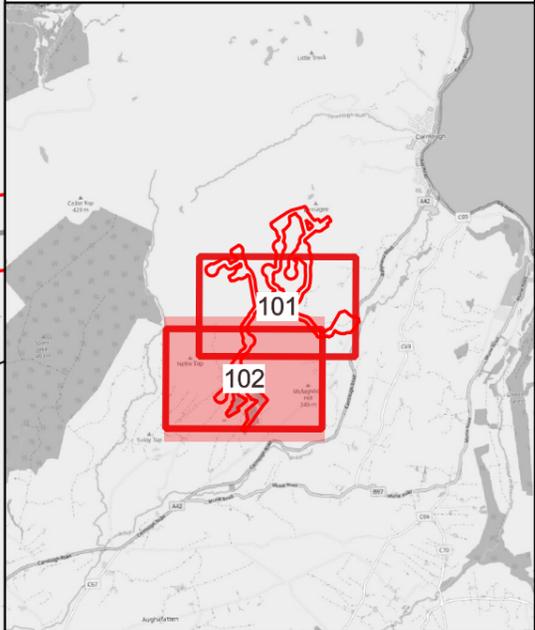
324000

325000

326000



OVERVIEW

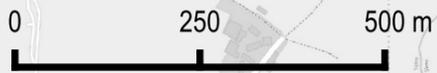


LEGEND

- The Site**
- Planning Application Boundary
  - Land Under Applicants Control
  - Modelled Watercourse Extent
- Hydrology**
- Present Day 1% AEP + CC Flood Extent
- Structure**
- Proposed Infrastructure

414000

413000



<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENT	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE	<b>GEOMETRY SCENARIO</b> PRESENT DAY	<b>FIGURE NUMBER</b> M01616-23_FLU_FL_102
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<b>SCALE</b> AS SHOWN	<b>ORIGINAL SIZE</b> A3
<b>DRAWN BY</b> DL	<b>APPROVED</b> DKS
<b>REVISION</b> 1	<b>DATE</b> 01/12/2021

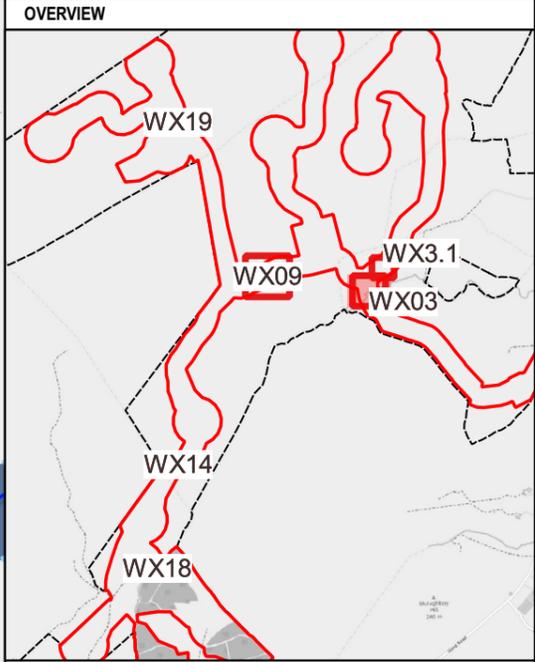


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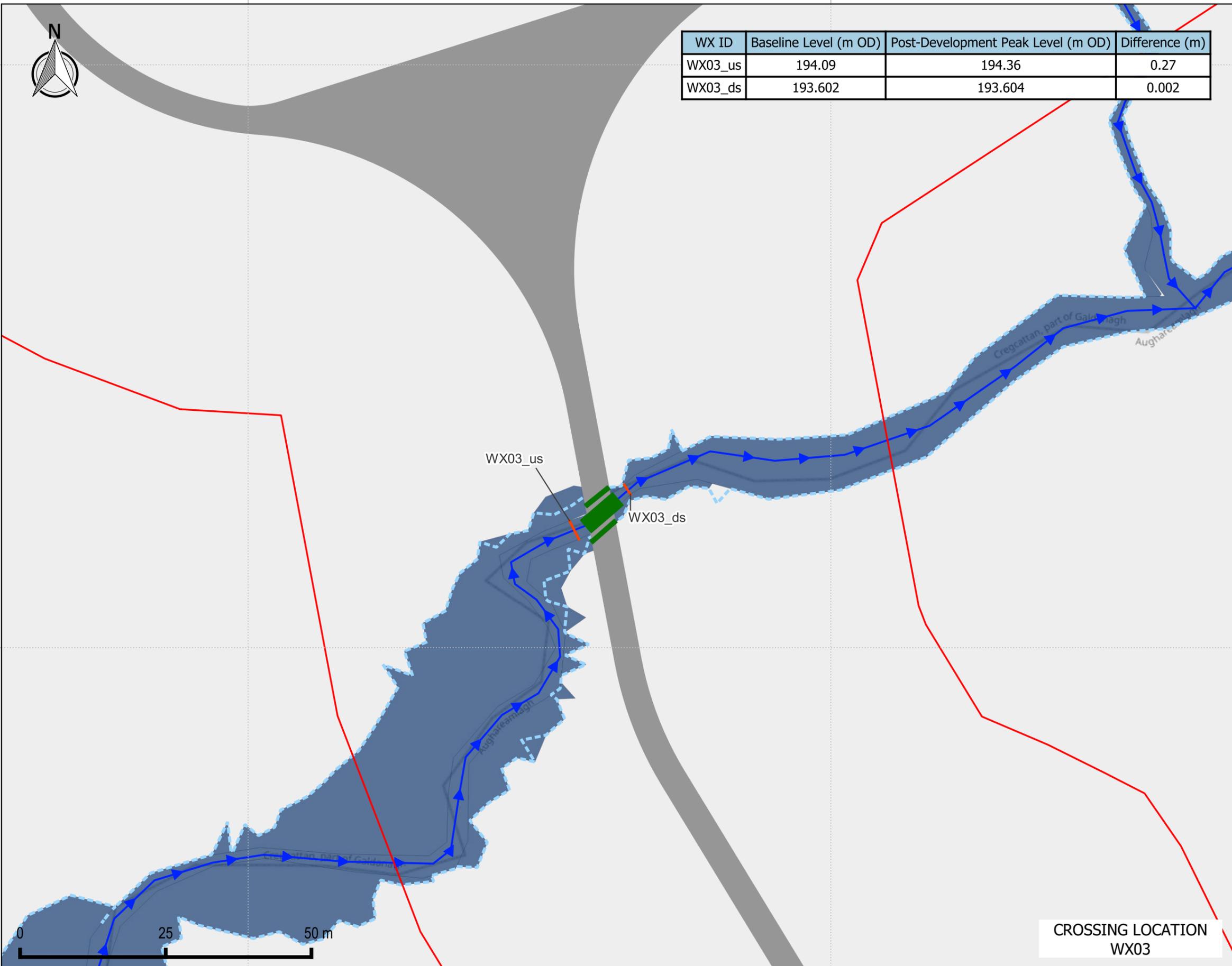


WX ID	Baseline Level (m OD)	Post-Development Peak Level (m OD)	Difference (m)
WX03_us	194.09	194.36	0.27
WX03_ds	193.602	193.604	0.002



LEGEND

- The Site**
- Land Under Applicants Control
  - Planning Application Boundary
  - Open Watercourse
- Hydrology**
- Proposed 1% AEP + CC Flood Extent
  - Pre-Development 1% AEP + CC Flood Extent
- Structure**
- Proposed Infrastructure
  - Proposed Culvert



CROSSING LOCATION  
WX03



<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENTS / COMPARISON	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP +CC

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE	<b>GEOMETRY SCENARIO</b> PROPOSED
<b>FIGURE NUMBER</b> M01616-23_FL_WX03	

<b>SCALE</b> AS SHOWN	<b>ORIGINAL SIZE</b> A3
<b>DRAWN BY</b> DL	<b>APPROVED</b> DKS
<b>REVISION</b> 1	<b>DATE</b> 01/12/2021

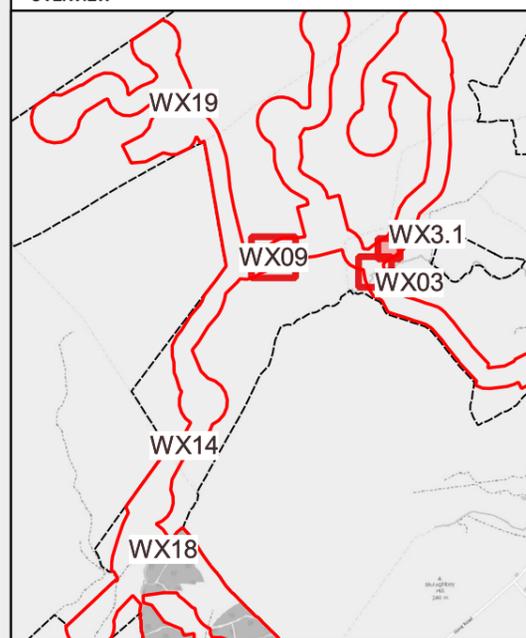
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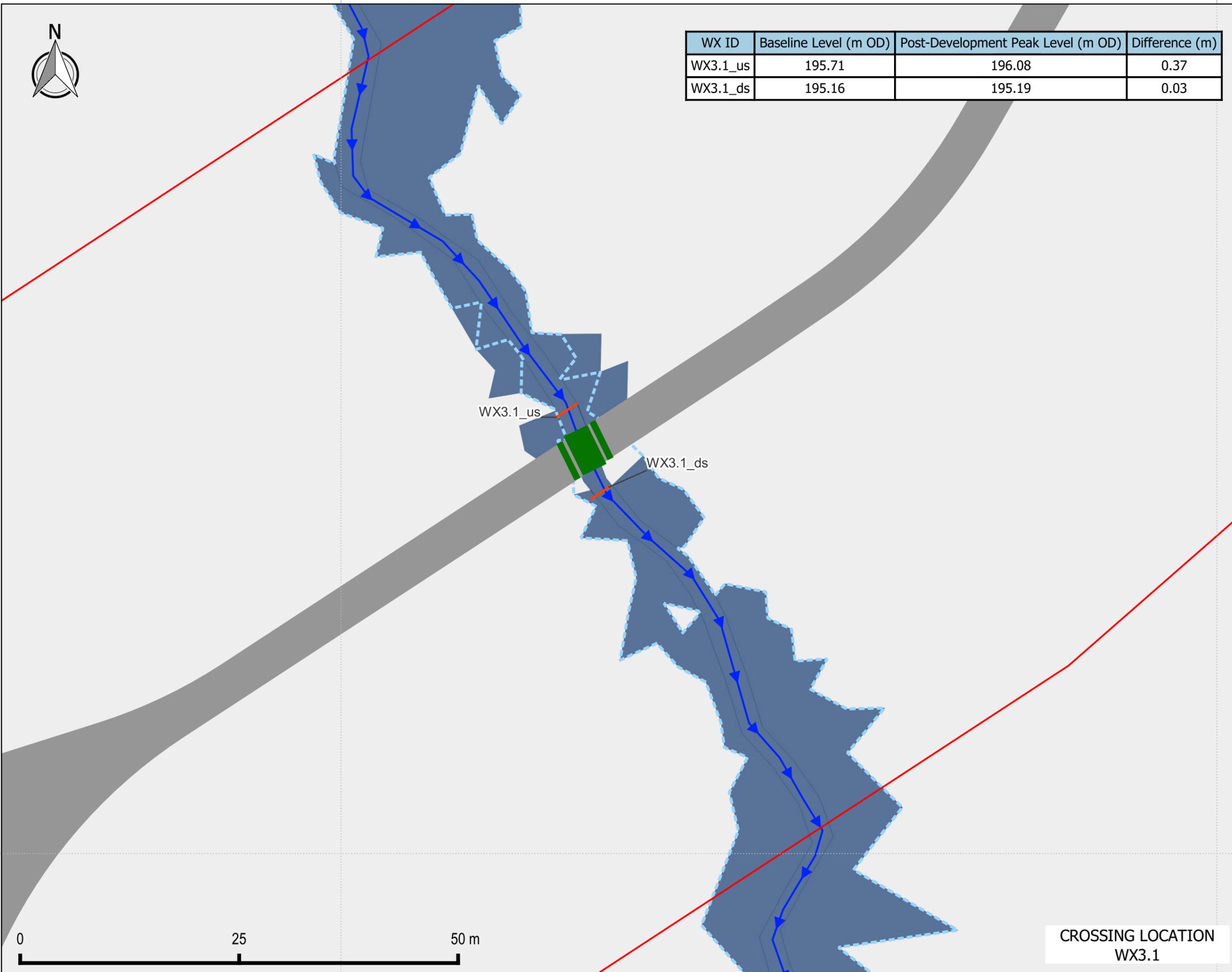
WX ID	Baseline Level (m OD)	Post-Development Peak Level (m OD)	Difference (m)
WX3.1_us	195.71	196.08	0.37
WX3.1_ds	195.16	195.19	0.03

OVERVIEW



LEGEND

- The Site**
- Land Under Applicants Control
  - Planning Application Boundary
  - Open Watercourse
- Hydrology**
- Proposed 1% AEP + CC Flood Extent
  - Pre-Development 1% AEP + CC Flood Extent
- Structure**
- Proposed Infrastructure
  - Proposed Culvert



CROSSING LOCATION  
WX3.1



**M<sup>c</sup>Cloy Consulting**

Mossley Mill,  
Lower Ground (West),  
Carnmoney Road North,  
Newtownabbey, BT36 5QA

T: 028 9084 8694  
E: info@mccloyconsulting.com  
W: www.mccloyconsulting.com

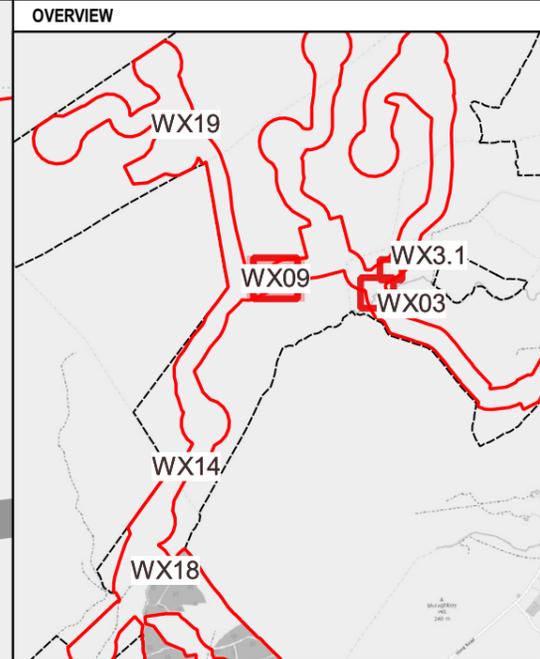
<b>PROJECT</b> UNSHINAGH WIND FARM		<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE		<b>SCALE</b> AS SHOWN	<b>ORIGINAL SIZE</b> A3
<b>MAP TYPE</b> FLOOD EXTENTS / COMPARISON		<b>GEOMETRY SCENARIO</b> PROPOSED		<b>DRAWN BY</b> DL	<b>APPROVED</b> DKS
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP +CC	<b>FIGURE NUMBER</b> M01616-23_FIG_FL_WX3.1		<b>REVISION</b> 1	<b>DATE</b> 01/12/2021

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WX ID	Baseline Level (m OD)	Post-Development Peak Level (m OD)	Difference (m)
WX09_us	202.76	203.11	0.35
WX09_ds	202.686	202.668	-0.018



**LEGEND**

**The Site**

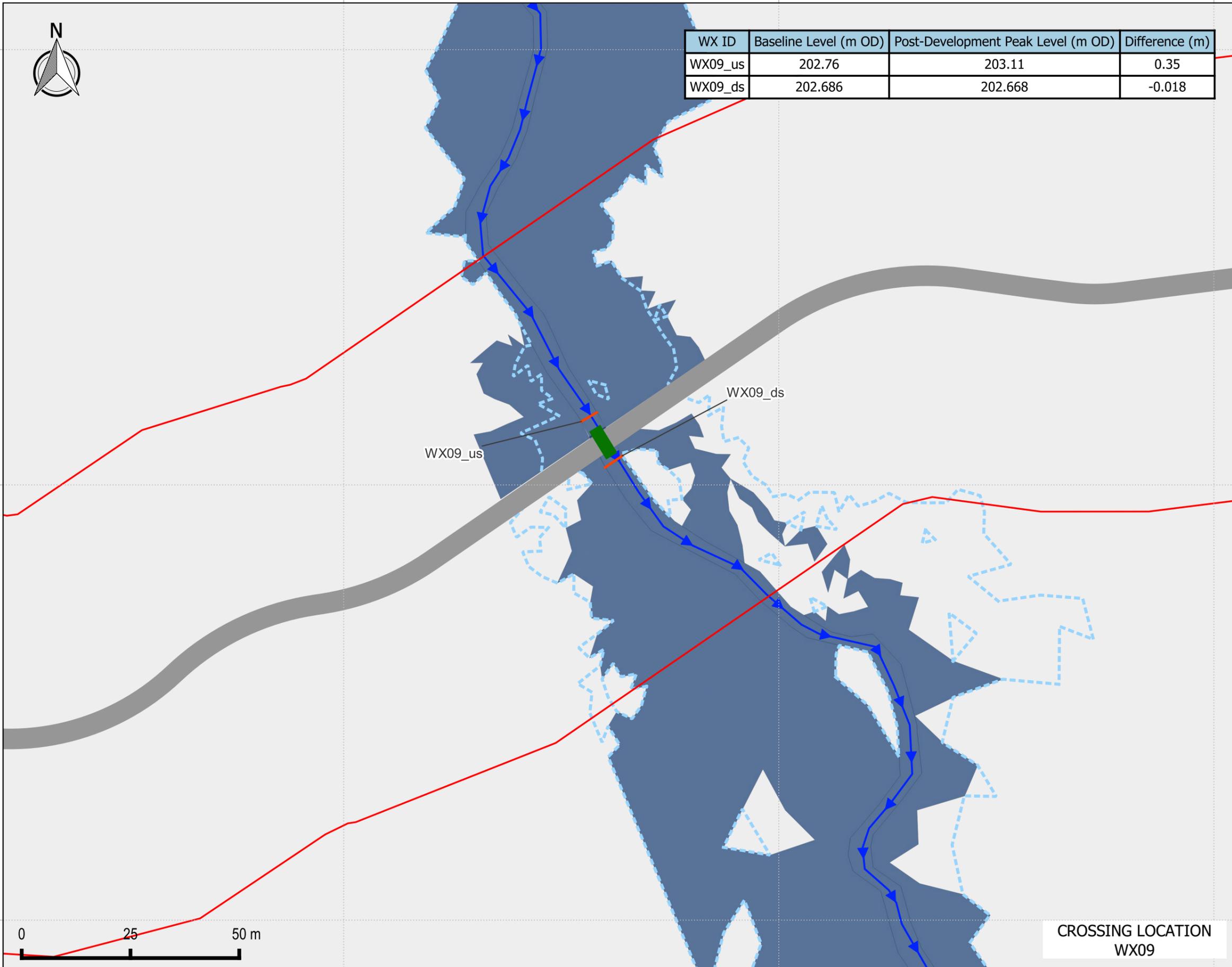
- Land Under Applicants Control
- Planning Application Boundary
- Open Watercourse

**Hydrology**

- Proposed 1% AEP + CC Flood Extent
- Pre-Development 1% AEP +CC Flood Extent

**Structure**

- Proposed Infrastructure
- Proposed Culvert



CROSSING LOCATION  
WX09



**M<sup>c</sup>Cloy Consulting**

Mossley Mill,  
Lower Ground (West),  
Carnmoney Road North,  
Newtownabbey, BT36 5QA

T: 028 9084 8694  
E: info@mccloyconsulting.com  
W: www.mccloyconsulting.com

<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENTS / COMPARISON	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP +CC

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE
<b>GEOMETRY SCENARIO</b> PROPOSED
<b>FIGURE NUMBER</b> M01616-23_FL_WX09

<b>SCALE</b> AS SHOWN
<b>DRAWN BY</b> DL
<b>REVISION</b> 1

<b>ORIGINAL SIZE</b> A3
<b>APPROVED</b> DKS
<b>DATE</b> 01/12/2021

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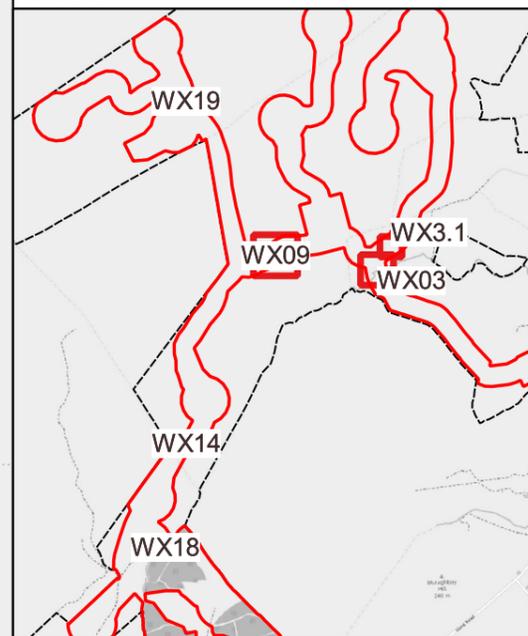
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325000



WX ID	Baseline Level (m OD)	Post-Development Peak Level (m OD)	Difference (m)
WX14_us	209.89	210.09	0.2
WX14_ds	209.76	209.78	0.02

OVERVIEW



LEGEND

The Site

- Land Under Applicants Control
- Planning Application Boundary
- Open Watercourse

Hydrology

- Proposed 1% AEP + CC Flood Extent
- Pre-Development 1% AEP + CC Flood Extent

Structure

- Proposed Infrastructure
- Proposed Culvert

WX14\_us

WX14\_ds



CROSSING LOCATION  
WX14



**M<sup>c</sup>Cloy Consulting**  
 Mossley Mill,  
 Lower Ground (West),  
 Carnmoney Road North,  
 Newtownabbey, BT36 5QA  
 T: 028 9084 8694  
 E: info@mcclloyconsulting.com  
 W: www.mcclloyconsulting.com

<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENTS / COMPARISON	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP +CC

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE	<b>GEOMETRY SCENARIO</b> PROPOSED
<b>FIGURE NUMBER</b> M01616-23_FLU_WX14	

<b>SCALE</b> AS SHOWN	<b>DRAWN BY</b> DL
<b>REVISION</b> 1	

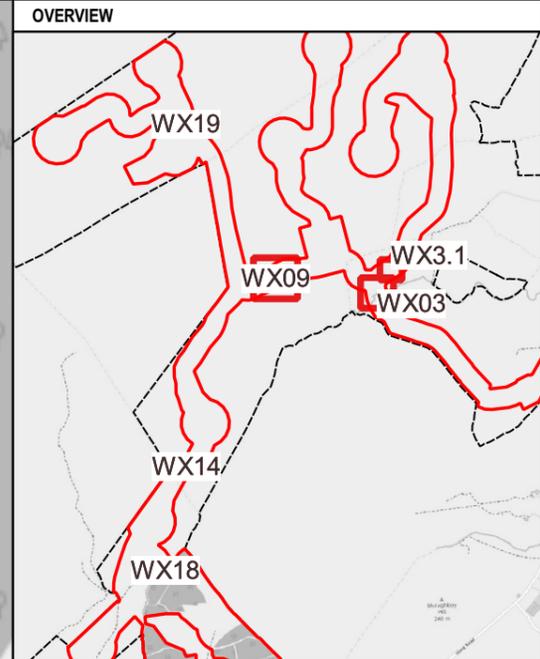
<b>ORIGINAL SIZE</b> A3	<b>APPROVED</b> DKS
<b>DATE</b> 01/12/2021	

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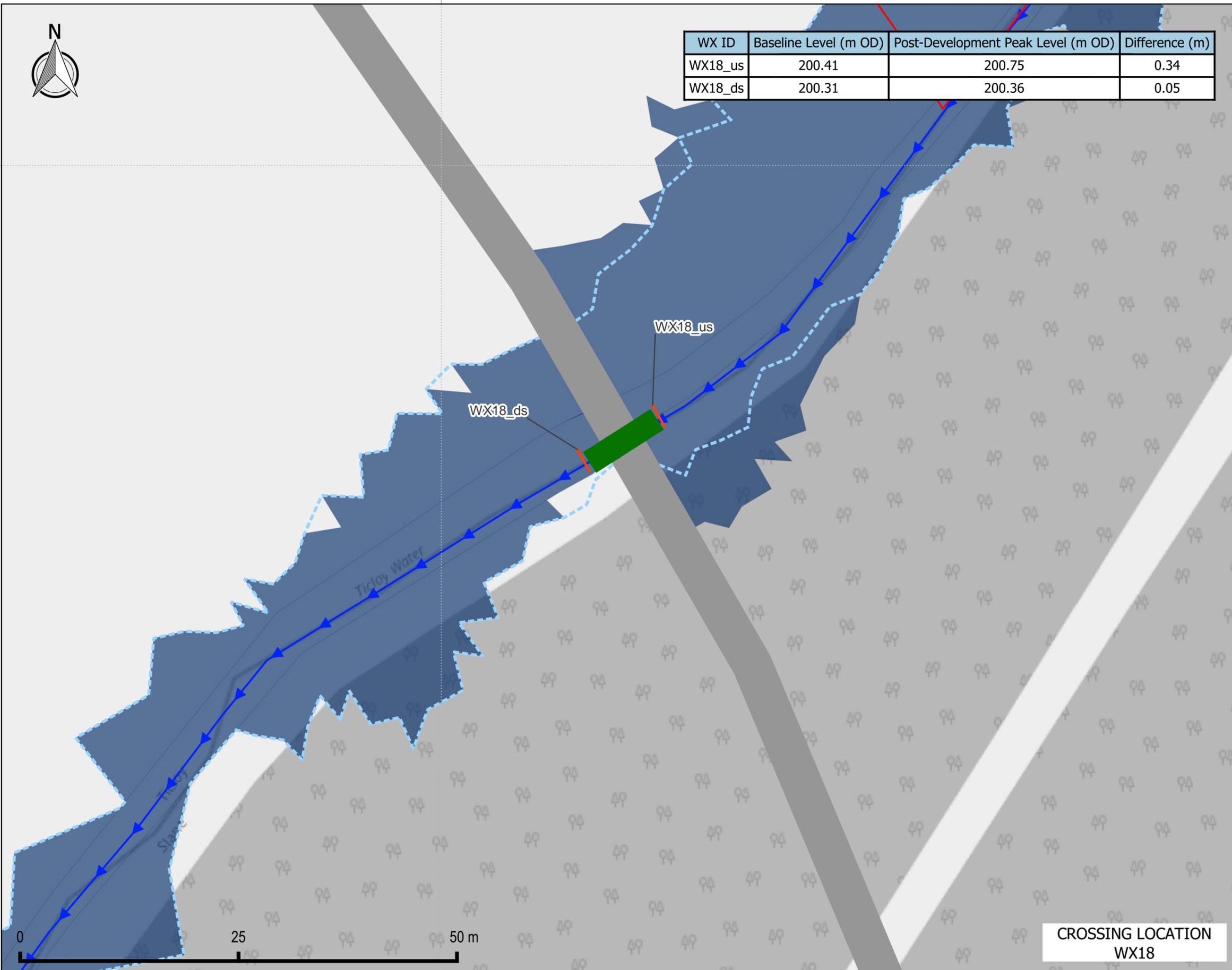


WX ID	Baseline Level (m OD)	Post-Development Peak Level (m OD)	Difference (m)
WX18_us	200.41	200.75	0.34
WX18_ds	200.31	200.36	0.05



**LEGEND**

- The Site**
- Land Under Applicants Control
  - Planning Application Boundary
  - Open Watercourse
- Hydrology**
- Proposed 1% AEP + CC Flood Extent
  - Pre-Development 1% AEP +CC Flood Extent
- Structure**
- Proposed Infrastructure
  - Proposed Culvert



CROSSING LOCATION  
WX18



<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENTS / COMPARISON	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP +CC

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE	<b>GEOMETRY SCENARIO</b> PROPOSED
<b>FIGURE NUMBER</b> M01616-23_FIG_FL_WX18	

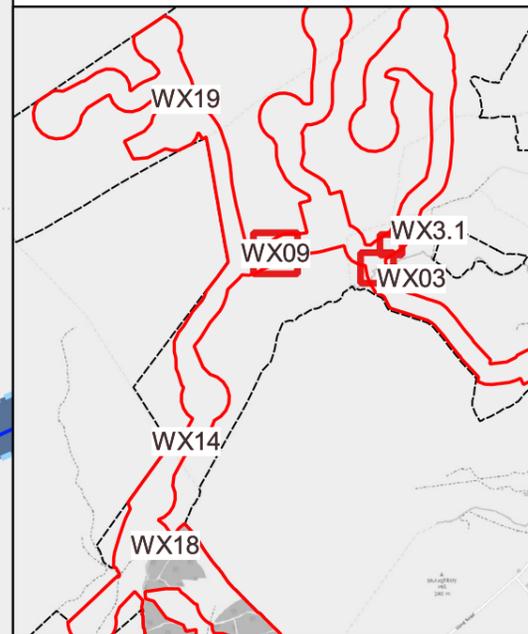
<b>SCALE</b> AS SHOWN	<b>ORIGINAL SIZE</b> A3
<b>DRAWN BY</b> DL	<b>APPROVED</b> DKS
<b>REVISION</b> 1	<b>DATE</b> 01/12/2021

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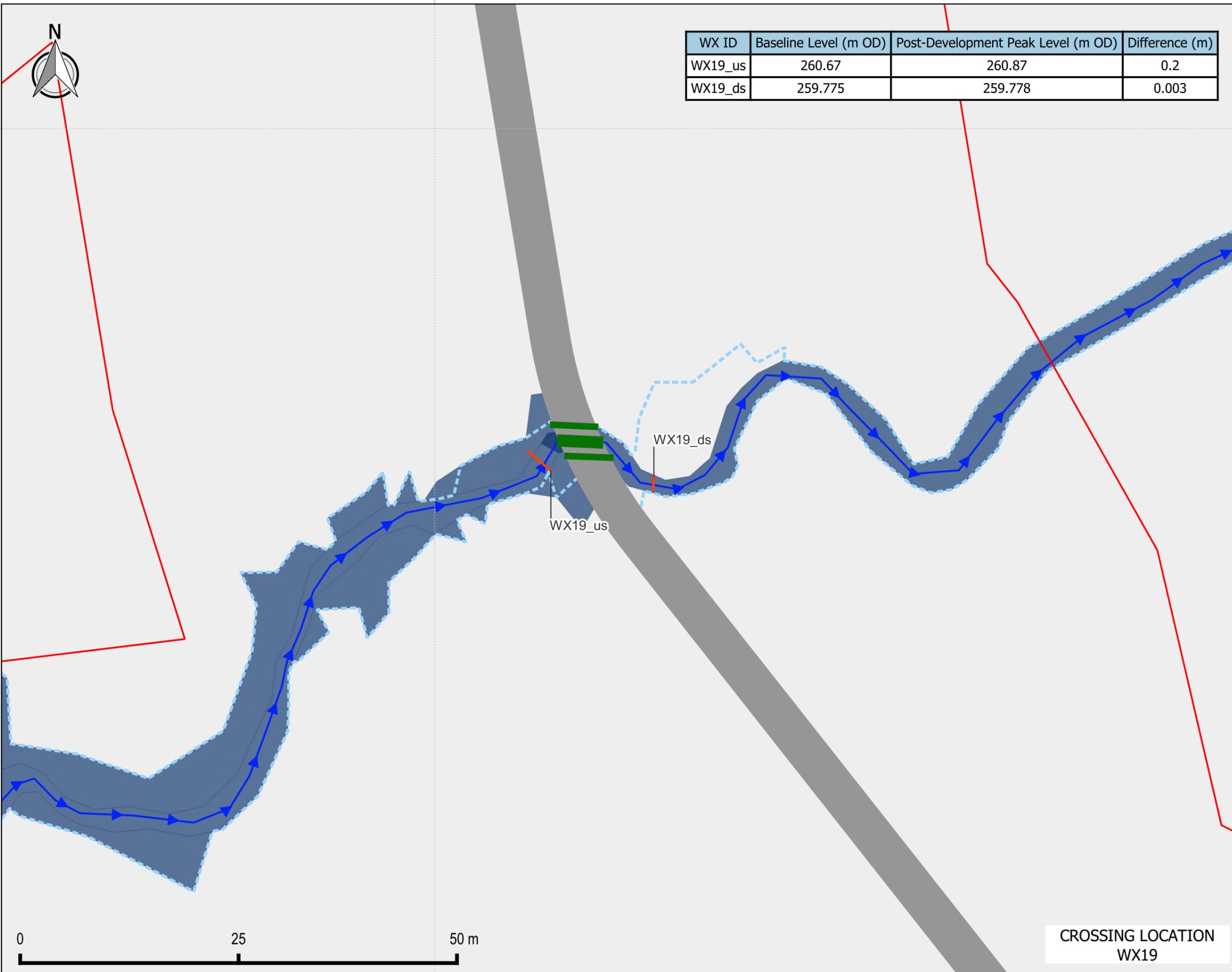
WX ID	Baseline Level (m OD)	Post-Development Peak Level (m OD)	Difference (m)
WX19_us	260.67	260.87	0.2
WX19_ds	259.775	259.778	0.003

OVERVIEW



LEGEND

- The Site**
- Land Under Applicants Control
  - Planning Application Boundary
  - Open Watercourse
- Hydrology**
- Proposed 1% AEP + CC Flood Extent
  - Pre-Development 1% AEP +CC Flood Extent
- Structure**
- Proposed Infrastructure
  - Proposed Culvert



CROSSING LOCATION  
WX19



**M<sup>c</sup>Cloy Consulting**

Mossley Mill,  
Lower Ground (West),  
Carnmoney Road North,  
Newtownabbey, BT36 5QA

T: 028 9084 8694  
E: info@mcclloyconsulting.com  
W: www.mcclloyconsulting.com

<b>PROJECT</b> UNSHINAGH WIND FARM	
<b>MAP TYPE</b> FLOOD EXTENTS / COMPARISON	
<b>SOURCE</b> FLUVIAL	<b>FLOOD EVENT</b> 1% AEP +CC

<b>HYDROLOGY SCENARIO</b> CLIMATE CHANGE	<b>GEOMETRY SCENARIO</b> PROPOSED
<b>FIGURE NUMBER</b> M01616-23_FLU_WX19	

<b>SCALE</b> AS SHOWN	<b>DRAWN BY</b> DL
<b>REVISION</b> 1	

<b>ORIGINAL SIZE</b> A3	<b>APPROVED</b> DKS
<b>DATE</b> 01/12/2021	

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