Ysgol I. D. Hooson, Wrexham

Flood Warning and Evacuation Plan

November 2025



Waterco

Assessment | Modelling | Design

Project Information	
Project:	Ysgol I. D. Hooson, Wrexham
Report Title:	Flood Warning and Evacuation Plan
Client:	Read Construction Ltd
Instruction:	The instruction to undertake this Flood Warning and Evacuation Plan was received from Darren Brimble of Read Construction Ltd
File Ref:	16125-FWEP-03

Approval Record	
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Approver:	Nigel Jones BEng (Hons) CEng MICE

Document History		
Revision	**Date**	**Comment**
01	29/09/2025	First issue
02	01/10/2025	Second issue – Updated following Client comments
03	12/11/2025	Third issue – Updated following LLFA comments

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Introduction

This Flood Warning and Evacuation Plan (FWEP) sets out how to prepare for and respond to a flood event. This FWEP has been prepared for Ysgol I. D. Hooson, Rhosllanerchrugog, Wrexham, LL14 2DS, referred to as the site herein. A site location plan and aerial image are included in Appendix A.

Understanding the Flood Risk

The nearest watercourse is an unnamed watercourse which is located approximately 35m north-west of the site. The unnamed watercourse flows north in this location and is a tributary of the Afon Goch.

The NRW 'Flood Zones – Surface Water and Small Watercourses' map (Appendix B) identifies a surface water flood flow route crossing the site from north-west to east. The flood flow route shown on NRW mapping appears to be associated with the unnamed watercourse located west of the site. The flood flow route is shown within Flood Zone 2 and Flood Zone 3. Flood Zone 2 is defined as having between a 1% and 0.1% annual probability of occurrence. Flood Zone 3 is defined as having a greater than 1% annual probability of occurrence. The NRW mapping includes an allowance for climate change.

NRW surface water flood depth, velocity and hazard mapping is included in Appendix C. As shown in Figure 1, during the 3.33% annual probability event, the majority of the site is estimated to be flood free. The surface water flood flow route is shown to affect the school car park and the southern extent of the school building. Flood depths are generally less than 300mm. The majority of Heol Caradoc and Glanrafon Road, which provide access to the site, are shown to be flood free (it is noted that Glanrafon Road provides pedestrian only access and does not provide a through road for vehicular access). A small extent of Glanrafon Road, approximately 260m north-east of the site is estimated to flood with a maximum flood depth of 210mm. A maximum flood depth of 380mm is estimated within Brook Street (215m east of the site) which provides vehicular access to the site.

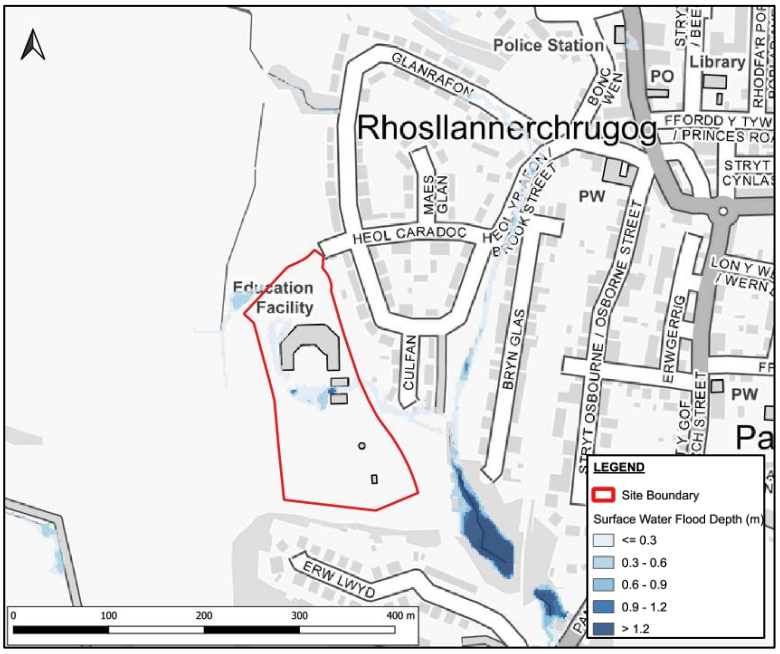


Figure 1 - 3.33% Annual Probability Event – Surface Water Flood Depth

As shown in Figure 2, during the 3.33% annual probability event, flood velocities affecting the school car park and the southern extent of the school are typically less than 0.6 m/s with a maximum of 1.55 m/s. Flood velocities in Glanrafon Road are typically less than 0.9 m/s with a maximum velocity of 1.2 m/s (240m north-east of the site). A maximum flood velocity of 1.1 m/s is estimated within Brook Street (240m north-east of the site).

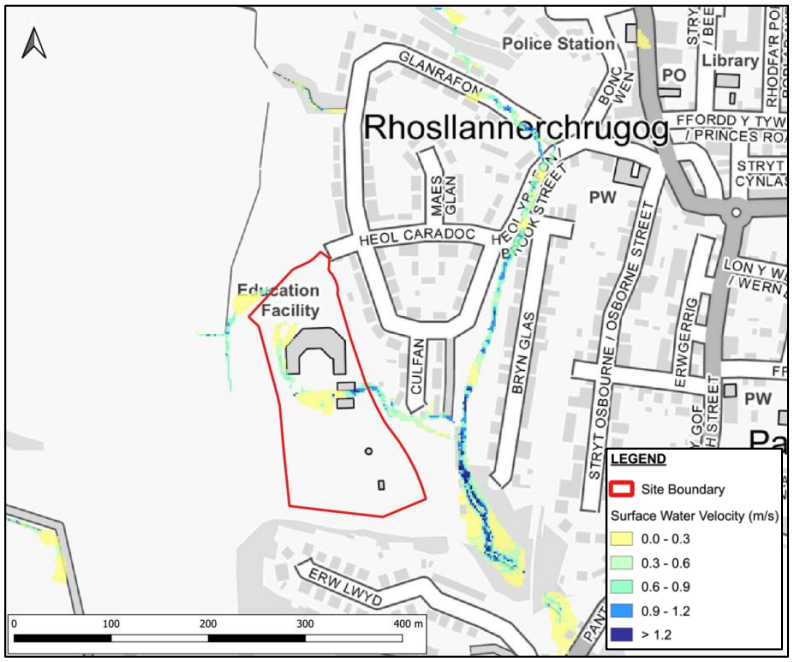


Figure 2 – 3.33% Annual Probability Event – Surface Water Flood Velocity

As shown in Figure 3, during the 3.33% annual probability event, the flood hazard rating within the school car park and southern extent of the school is considered to be 'very low' (caution). The flood hazard rating in Glanrafon is considered to be very low. The flood hazard rating in Brook Street is very low with some areas classified as 'danger to some' or 'danger to most'.

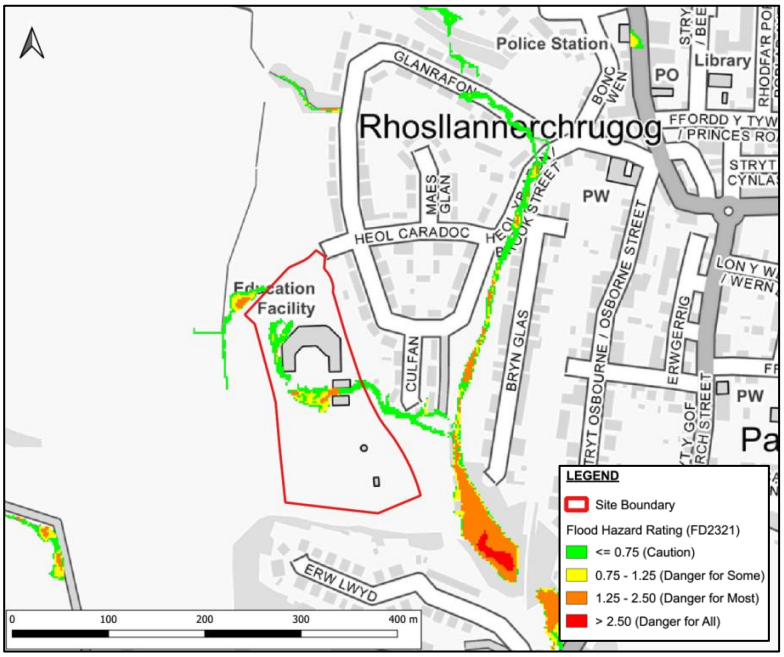


Figure 3 – 3.33% Annual Probability Event – Surface Water Flood Hazard Rating

As shown in Figure 4, during the 1% annual probability event, the majority of the site is estimated to be flood free. The surface water flood flow route is shown to affect the car park and southern extent of the school building. Flood depths on site are generally less than 300mm. The majority of Glanrafon Road is shown to be flood free, however it is crossed by 2no. flood flow routes 65m north-east and 260 north-east of the site respectively. Flood depths to Glanrafon Road are less than 300mm. A maximum flood depth of 480mm is estimated within Brook Street 215m east of the site.

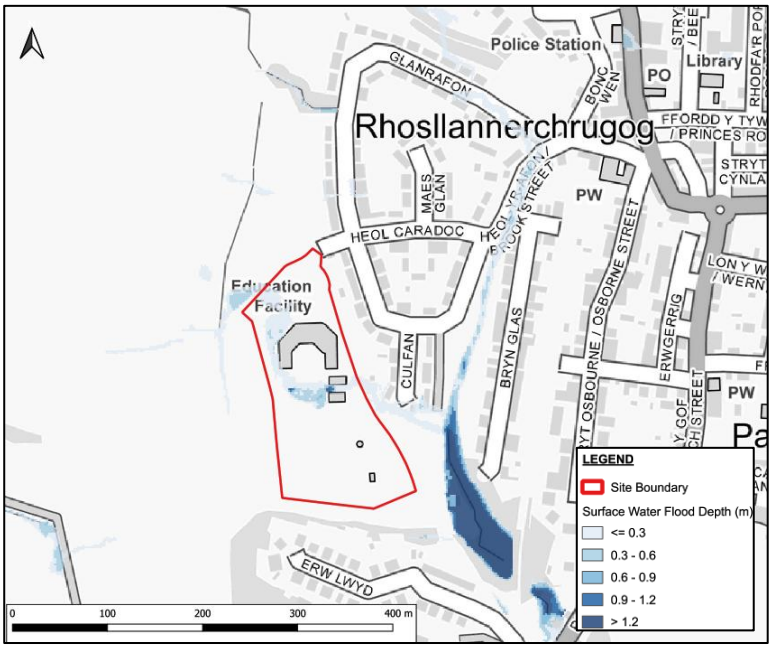


Figure 4 - 1% Annual Probability Event – Surface Water Flood Depth

As shown in Figure 5, during the 1% annual probability event, flood velocities affecting the school car park and the southern extent of the school are typically less than 0.9 m/s with a maximum of 1.88 m/s. Flood velocities in Glanrafon Road are typically less than 0.9 m/s with a maximum velocity of 1.45 m/s (240m north-east of the site). A maximum flood velocity of 1.52 m/s is estimated within Brook Street (260m north-east of the site).

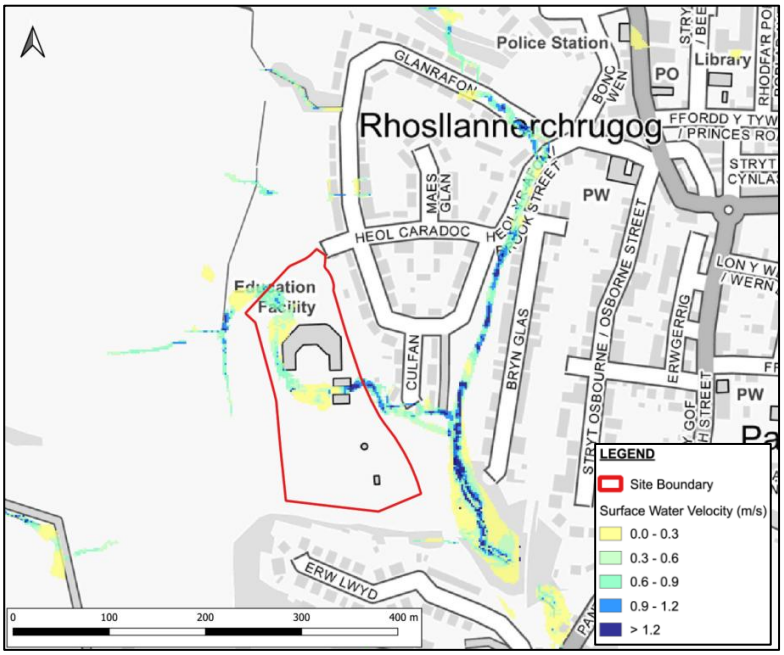


Figure 5 – 1% Annual Probability Event – Surface Water Flood Velocity

As shown in Figure 6, during the 1% annual probability event, the majority of flooding within the school car park and southern extent of the school is considered to have a very low flood hazard rating. Some areas of the school car park and southern extent of the school are classified as having a flood hazard rating of 'danger for some' and 'danger for most'. The flood hazard rating in Glanrafon is considered to be very low. The flood hazard rating in Brook Street is generally very low with some areas classified as 'danger to some' or 'danger to most'.

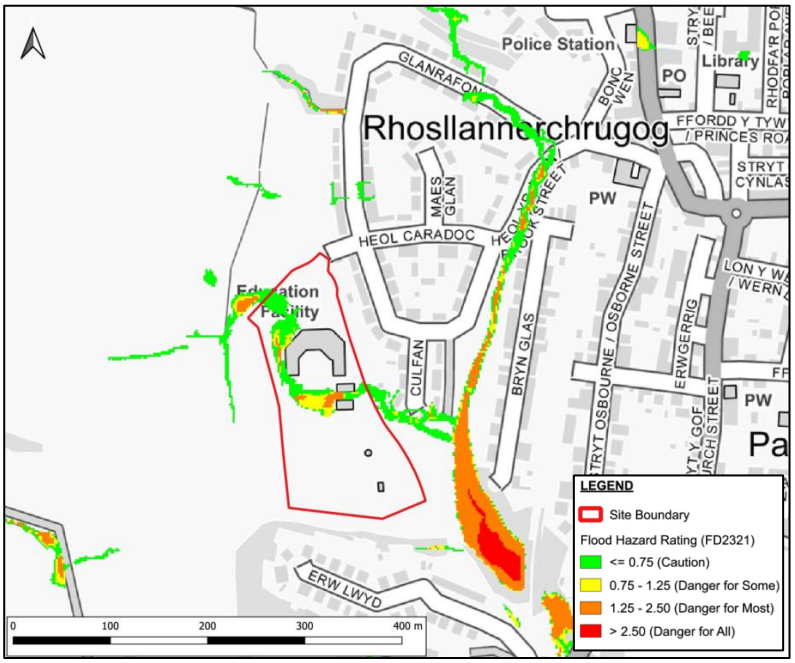


Figure 6 – 1% Annual Probability Event – Surface Water Flood Hazard Rating

As shown in Figure 7, during the 0.1% annual probability event, the majority of the site is estimated to be flood free. The surface water flood flow route is shown to affect the car park area and southern extent of the school building. Flood depths are generally less than 300mm in the location of car park. Flood depths between 300mm-600mm are estimated towards the southern extent of the school building. The majority of Glanrafon Road is shown to be flood free, however it is crossed by 3no. flood flow routes 65m north-east, 150m north-east and 260 north-east of the site respectively. Flood depths to Glanrafon Road are generally less than 300mm with a maximum flood depth of 330mm. A maximum flood depth of 550mm is estimated within Brook Street 215m east of the site.

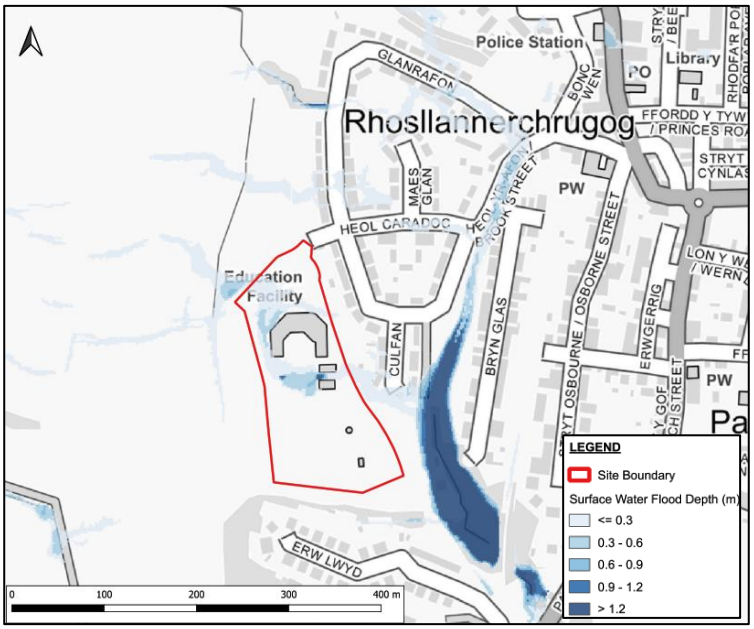


Figure 7 - 0.1% Annual Probability Event – Surface Water Flood Depth

As shown in Figure 8, during the 0.1% annual probability event, flood velocities affecting the school car park and the southern extent of the school are typically less than 0.9 m/s with a maximum of 2.1 m/s. Flood velocities in Glanrafon Road are typically less than 0.9 m/s with a maximum velocity of 1.66 m/s (240m north-east of the site). A maximum flood velocity of 1.86 m/s is estimated within Brook Street (205m north-east of the site).

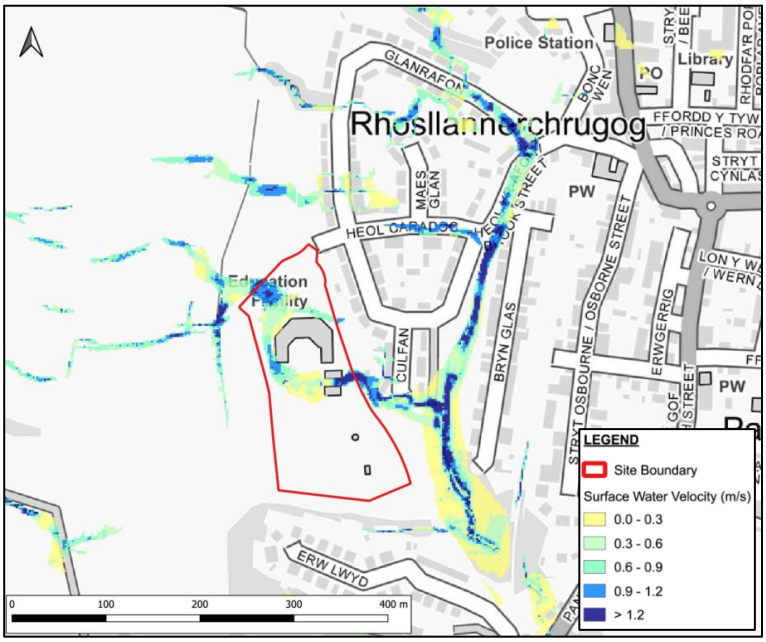


Figure 8 – 0.1% Annual Probability Event – Surface Water Flood Velocity

As shown in Figure 9, during the 0.1% annual probability event, the majority of flooding within the school car park and southern extent of the school is considered to have a very low flood hazard rating. Some areas of the school car park and southern extent of the school are classified as having a flood hazard rating of 'danger for some' and 'danger for most'. The flood hazard rating in Glanrafon is considered to be very low. The flood hazard rating in Brook Street is very low with some areas classified as 'danger to some' or 'danger to most'.

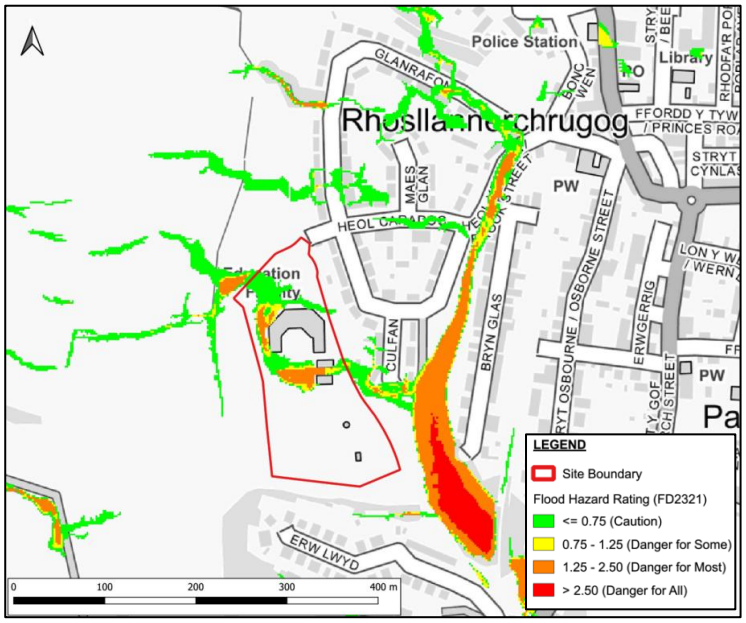


Figure 9 – 0.1% Annual Probability Event – Surface Water Flood Hazard Rating

The Flood Hazard Rating along the majority of the flood evacuation route is considered to be very low and as such the evacuation route is considered to be appropriate. A maximum surface water flood depth of approximately 550mm is estimated along Brook Street, with depths of up to 330mm estimated within Glanrafon Road. In the unlikely event that emergency services are required during a flood event, both access routes are considered to remain serviceable for emergency vehicles.

National Guidance on Weather Warnings

UK Weather Warnings

The Met Office issues weather warnings when severe weather has the potential to impact the UK. The Met Office issues warnings for rain and other extreme weather conditions. The weather warnings are given a colour depending on a combination of both the impact the weather may have and the likelihood of those impacts occurring:

Red - Extreme weather is expected. Red means that people should take action now to keep themselves and others safe from the impact of the weather. Widespread damage, travel and power disruption and risk to life is likely. People must avoid dangerous areas and follow the advice of the emergency services and local authorities.

Amber - There is an increased likelihood of bad weather affecting people, which could potentially disrupt

plans and possibly cause travel delays, road and rail closures, interruption to power and the potential risk to life and property. Amber means that people need to be prepared to change plans and protect themselves, family and community from the impacts of the severe weather based on the forecast from the Met Office.

Yellow - Severe weather is possible over the next few days. Yellow means that people should plan ahead thinking about possible travel delays, or the disruption of your day-to-day activities. The Met Office is monitoring the developing weather situation and yellow means keep an eye on the latest forecast and be aware that the weather may change or worsen.

Met Office weather warnings are available online on the link below:

https://weather.metoffice.gov.uk/warnings-and-advice/uk-warnings#?date=2025-09-24

Weather warnings are also available from the Met Office social media platforms and can be sent by signing up to receive email alerts.

Local Flood Warnings

In addition to the monitoring measures and evacuation procedures described in this Flood Warning and Evacuation Plan, the School also plan to make use of existing flood sensors in the Glanrafon culvert which are currently operated by the Smart Towns Development Team. The culvert has an existing sensor that monitors flood depths and offers a valuable addition to the plan that will assist with early implementation of the evacuation strategy using real-time local data. The Smart Towns Development Team have confirmed this data can be shared with the School and Education department which can be used for monitoring and evacuation plan implementation. The Education team are also considering improvements to the existing system in tandem with the Smart Towns Development Officer which would include a secondary sensor to help identify culvert blockages. This would have the added benefit of enabling the Authority to deploy maintenance teams to clear the culvert of debris before overtopping occurs which causes the known issues downstream.

Preparing for a Flood at Ysgol I. D. Hooson, Wrexham

Extreme weather can occur at any location. As such, the following measures should be undertaken in preparation for a flood event:

A copy of this FWEP should be made readily accessible to all site staff. Staff should:

- Be familiar with the evacuation route plan provided as Appendix D.
- Be familiar with the data provided from the flood sensors in the Glanrafon culvert. Training should be provided to staff on how to use the software (computer programme or smart device ‘app’) which displays the water level readings in Glanrafon Stream. A defined water level should be set i.e. 100mm from the soffit of the culvert which triggers the requirements to evacuate the school.

- Be familiar with the emergency contact numbers provided below.
- Register to receive Met Office Weather Warnings and be familiar with the Weather Warning codes (red, amber, yellow).

Actions Following a Weather Warning for Ysgol I. D. Hooson, Wrexham

The following actions should be undertaken on receipt of a Yellow Weather Warning (for rain):

- Staff should regularly check news / media outlets for any updates on weather warnings / worsening weather conditions.
- Staff should check the water level readings transmitted from the Glanrafon culvert water level sensor.
- Staff should keep track of the latest flood risk situation by reviewing the Met Office website and the NRW 5 day flood risk for Wales which forecasts flood risk across Wales.
- All site users should be prepared to leave the site at short notice.

The following actions should be undertaken on receipt of an Amber or Red Weather Warning (for rain):

An amber or red weather warning means flooding is expected, and site users need to act. Prior to flooding occurring:

- Staff should distribute the weather warning.
- Staff should check the water level readings transmitted from the Glanrafon culvert water level sensor and commence evacuation procedures should the water level meet the defined evacuation trigger level, for example 100mm from the soffit of Galnrafon culvert.
- Arrangements should be made to close the school, ensuring parents / guardians are contacted to collect pupils at the earliest opportunity. Staff should remain on site until all pupils have been collected.
- Where all pupils have been collected, the site should be closed to all.
- Should the weather warning be received prior to school opening, the school should be closed and parents / guardians notified.

Where flooding occurs without warning, safe refuge should be sought and is available within the school building. In an emergency i.e. medical emergency, where evacuation is required, the emergency services should be contacted.

The flood evacuation route plan (Appendix D) shows the saftest route of evacuation from the site (or emergency services entry to the site). The evacuation route avoids Brook Street, which based on NRW mapping is most prone to deep and fast flowing water. The evacuation route is via Glanrafon which does not provide a through road for traffic, however, does provide pedestrian access. A car park is available north of Glanrafon (off Bonc Wen) with pedestrian access linking the car park to Glanrafon.

Actions Following a Flood at Ysgol I. D. Hooson, Wrexham

The following actions should be undertaken following a flood event:

- Site users should not return to the site until the amber or red Weather Warning has been removed or until the emergency services confirm that it is safe to do so.
- Flood water can contain pollutants including sewage. Contact with remnant flood water should be avoided as it may be contaminated. The site should be cleaned and disinfected following a flood prior to being opened to the staff and site users.
- Any electrical equipment should be checked by an appropriately qualified Electrician prior to re-using to ensure it is dry and safe to use, otherwise the equipment should be disposed of.

Emergency Contact Details

<table>
<tr><td colspan="2">IN THE EVENT OF AN EMERGENCY DIAL 999</td></tr>
<tr><td colspan="2">Wrexham County Borough Council – 01978 298 989</td></tr>
<tr><td>NHS 111 Service (non-emergency) - 111</td><td>North Wales Fire and Rescue Service– 0800 169 1234</td></tr>
<tr><td>Electricity (24-hour Emergency Service) – 105</td><td>Gas (24-hour emergency service) – 0800 111 999</td></tr>
<tr><td colspan="2">Other useful Contacts (to be provided by staff)</td></tr>
</table>

This FWEP should be updated every 5 years accounting for the latest flood risk information. Emergency contact details should be reviewed annually.

Appendix A Location Plan & Aerial Image

Rhosllannerchrugo

Education Facility

HEOL CARADOC

MAES GLAN

HEOL-YR-AFON / BROOK STREET

PW

CULFAN

BRYN GLAS

STRYT OSBOURNE / OSBORNE ST

ERW LWYD

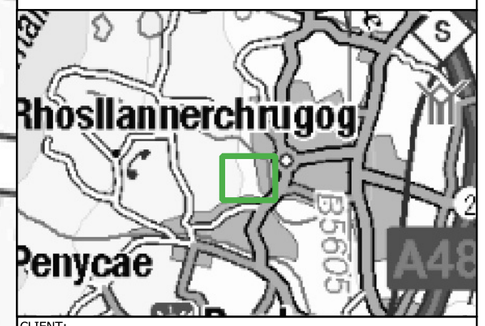
PANT HILL

0 50 100 150 200 250 m

Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Watercourses
- Waterbodies



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www.waterco.co.uk

SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Location Plan

PLOT STATUS:	DATE:
FINAL	26-03-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2000

PLOT NAME:	REVISION:
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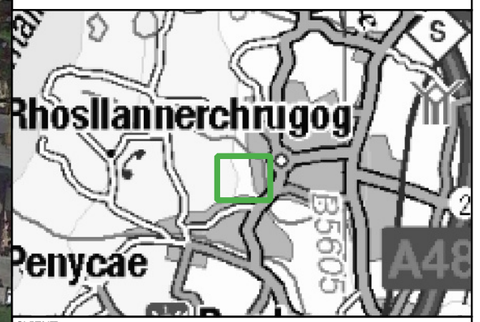
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Notes:
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LEGEND

Site Boundary



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PLOT TITLE:
Aerial Plan

PLOT STATUS:	DATE:
FINAL	26-03-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2000

PLOT NAME:	REVISION:
16126_Aerial_Plan	-

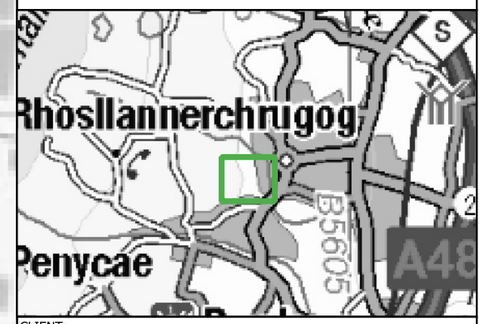
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Appendix B NRW Flood Zones – Surface Water and Small Watercourses Map

Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- NRW Flood Zones Surface Water and Small Watercourses
- Flood Zone 3
- Flood Zone 2



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SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
NRW Flood Zones - Surface Water and Small Watercourses

PLOT STATUS:	DATE:
FINAL	24-09-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2000

PLOT NAME:	REVISION:
16126_NRW_Flood_Risk_From_Surface_Water	-

0 50 100 150 200 250 m

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Appendix C NRW Surface Water Flood Depth Maps

Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

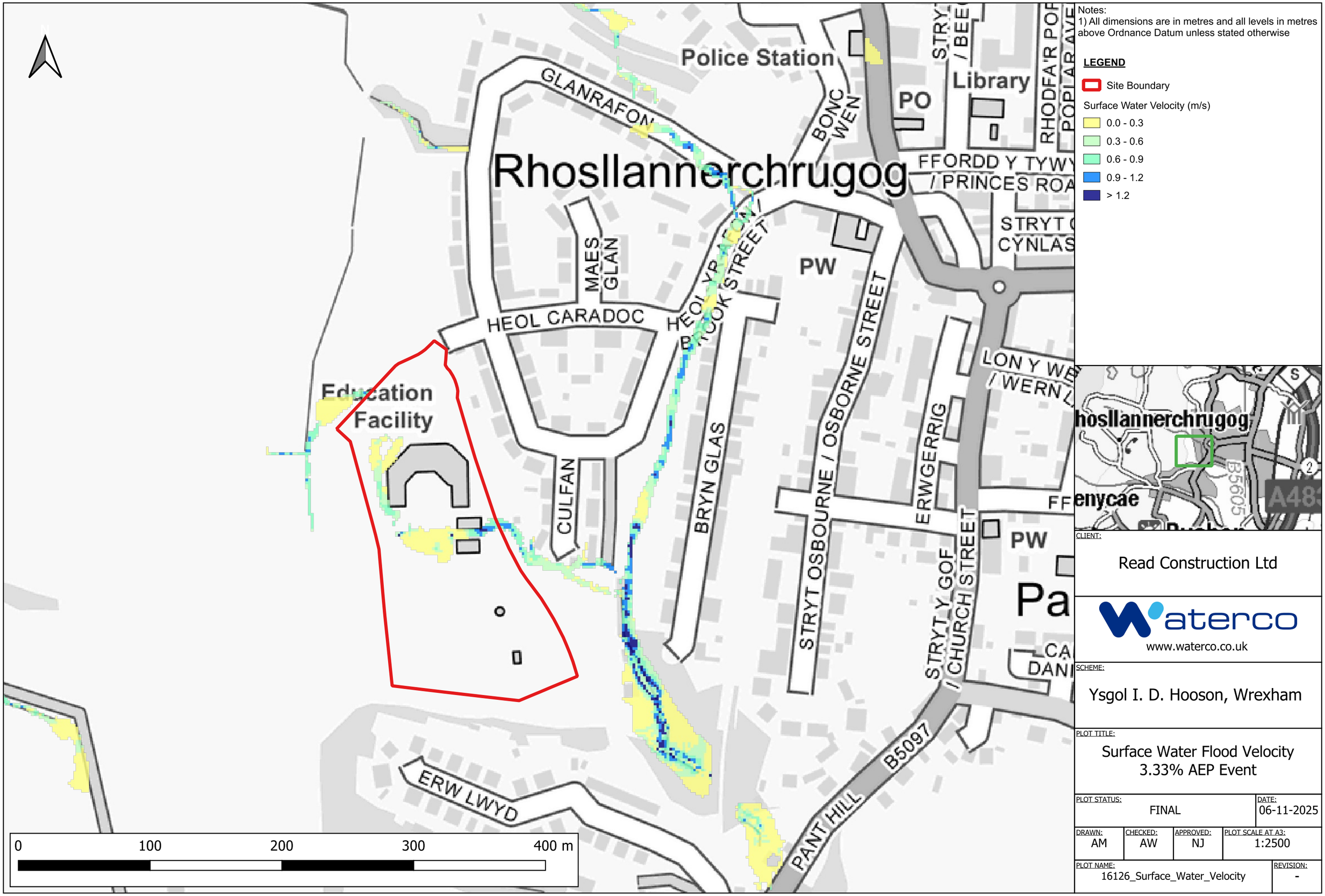
Surface Water Flood Depth (m)

- <= 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



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	www.waterco.co.uk
SCHEME:	Ysgol I. D. Hooson, Wrexham
PLOT TITLE:	Surface Water Flood Depth 3.33% AEP Event
PLOT STATUS: FINAL	DATE: 24-09-2025
DRAWN: AM / CHECKED: AW / APPROVED: NJ / PLOT SCALE AT A3: 1:2500	
PLOT NAME: 16126_Surface_Water_Depth	REVISION: -

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Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

Surface Water Velocity (m/s)

- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2

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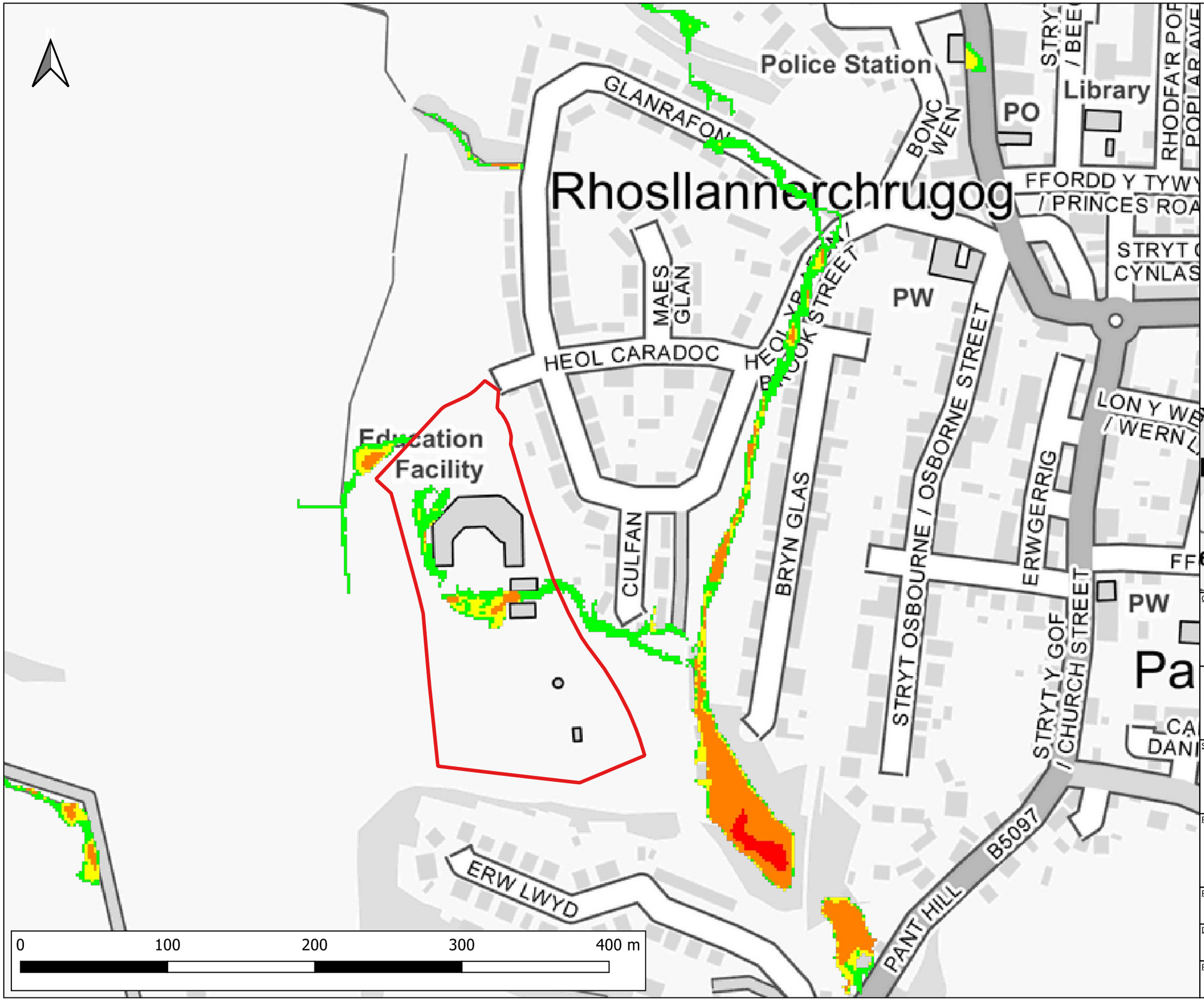
SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Surface Water Flood Velocity
3.33% AEP Event

PLOT STATUS:			DATE:
FINAL			06-11-2025
DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2500

PLOT NAME: 16126_Surface_Water_Velocity
REVISION: -

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Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Flood Hazard Rating (FD2321)
- <= 0.75 (Caution)
- 0.75 - 1.25 (Danger for Some)
- 1.25 - 2.50 (Danger for Most)
- > 2.50 (Danger for All)

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SCHEME: Ysgol I. D. Hooson, Wrexham

PLOT TITLE: Surface Water Flood Hazard Rating 3.3% AEP Event

PLOT STATUS:	DATE:
FINAL	06-11-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
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PLOT NAME:	REVISION:
16126_Surface_Water_Hazard_Rating	-

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Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

Surface Water Flood Depth (m)

- <= 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2

Police Station
Rhosllannerchrugog
Library
PO
PW
Education Facility
GLANRAFON
BONC WEN
MAES GLAN
HEOL CARADOC
HEOL YR AFON / BROOK STREET
CULFAN
BRYN GLAS
STRYT OSBOURNE / OSBORNE STREET
ERWGERRIG
STRYT Y GOF / CHURCH STREET
ERW LWYD
PANT HILL
B5097
RHODFA'R POPLAR AVE
FFORDD Y TYWYSOG / PRINCES ROAD
STRYT CYNLAS
LON Y WERN / WERN LANE
0 100 200 300 400 m



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SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Surface Water Flood Depth
1% AEP Event

PLOT STATUS:			DATE:
FINAL			24-09-2025
DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2500

PLOT NAME: 16126_Surface_Water_Depth
REVISION: -

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Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

Surface Water Velocity (m/s)

- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



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SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Surface Water Flood Velocity
1% AEP Event

PLOT STATUS:	DATE:
FINAL	06-11-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
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0 100 200 300 400 m

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Notes:
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LEGEND

- Site Boundary

Flood Hazard Rating (FD2321)

- <= 0.75 (Caution)
- 0.75 - 1.25 (Danger for Some)
- 1.25 - 2.50 (Danger for Most)
- > 2.50 (Danger for All)



0 100 200 300 400 m

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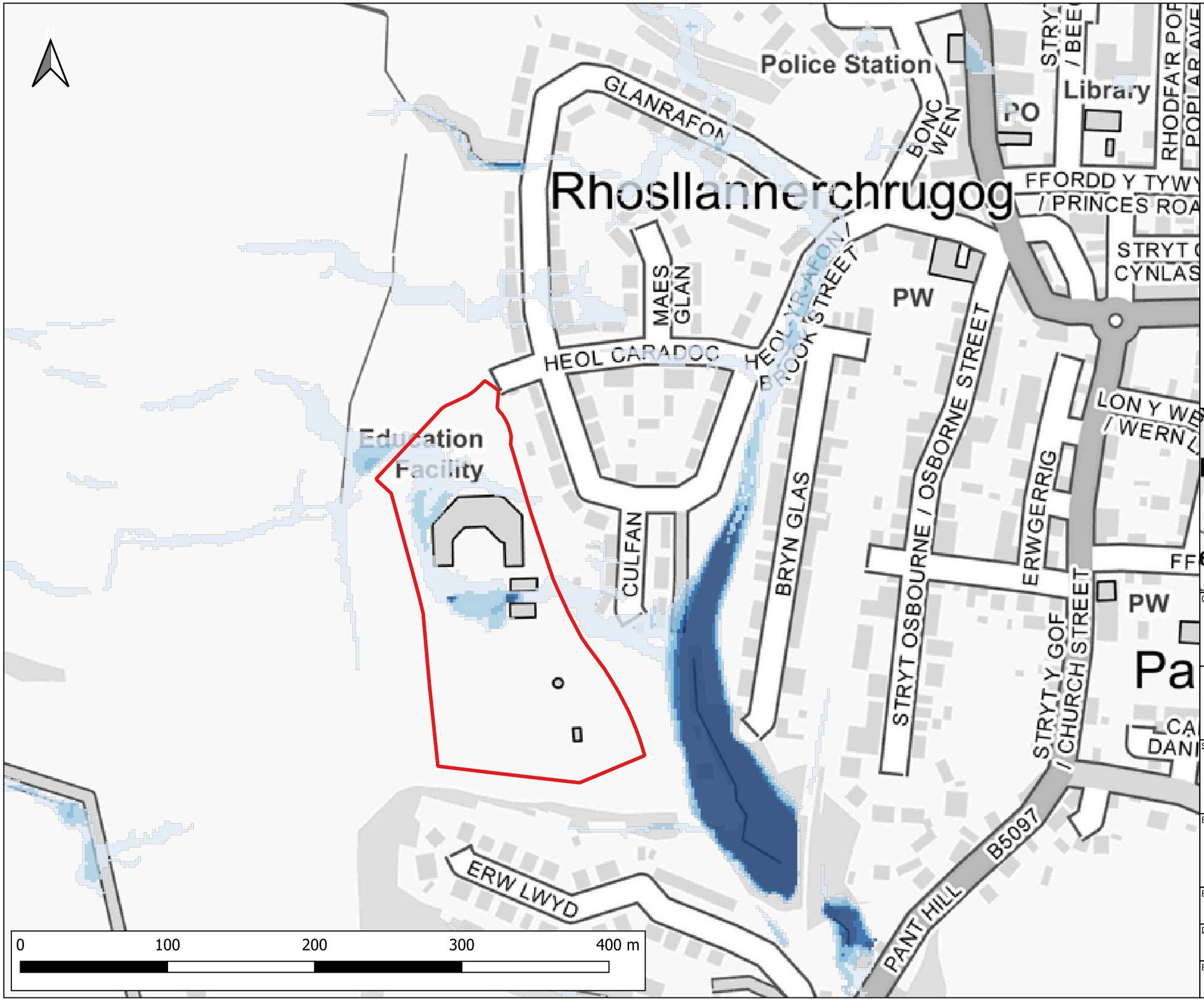
SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Surface Water Flood Hazard Rating
1% AEP Event

PLOT STATUS:	DATE:
FINAL	06-11-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2500

PLOT NAME:	REVISION:
16126_Surface_Water_Hazard_Rating	-



Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

Surface Water Flood Depth (m)

- <= 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



CLIENT:
Read Construction Ltd

www.waterco.co.uk

SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Surface Water Flood Depth
0.1% AEP Event

PLOT STATUS:	DATE:
FINAL	24-09-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2500

PLOT NAME:	REVISION:
16126_Surface_Water_Depth	-

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Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

Surface Water Velocity (m/s)

- 0.0 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



0 100 200 300 400 m

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CLIENT:
Read Construction Ltd

www.waterco.co.uk

SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Surface Water Flood Velocity
0.1% AEP Event

PLOT STATUS:			DATE:
FINAL			06-11-2025
DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2500

PLOT NAME:	REVISION:
16126_Surface_Water_Velocity	-

Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary

Flood Hazard Rating (FD2321)

- <= 0.75 (Caution)
- 0.75 - 1.25 (Danger for Some)
- 1.25 - 2.50 (Danger for Most)
- > 2.50 (Danger for All)



0 100 200 300 400 m

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CLIENT:	Read Construction Ltd
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SCHEME:	Ysgol I. D. Hooson, Wrexham
PLOT TITLE:	Surface Water Flood Hazard Rating 0.1% AEP Event
PLOT STATUS: FINAL	DATE: 06-11-2025
DRAWN: AM / CHECKED: AW / APPROVED: NJ	PLOT SCALE AT A3: 1:2500
PLOT NAME: 16126_Surface_Water_Hazard_Rating	REVISION: -

Appendix D Flood Evacuation Plan

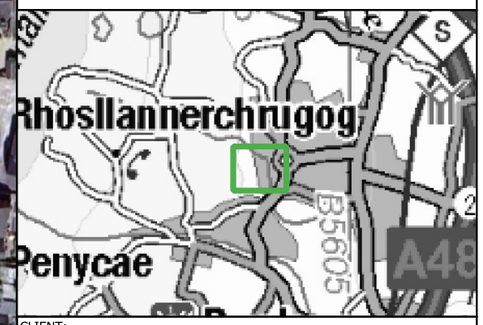
Notes:
1) All dimensions are in metres and all levels in metres above Ordnance Datum unless stated otherwise

LEGEND

- Site Boundary
- Flood Evacuation Route

Surface Water Flood Depth (m)

- <= 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- > 1.2



0 50 100 150 200 250 m

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CLIENT:
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waterco
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SCHEME:
Ysgol I. D. Hooson, Wrexham

PLOT TITLE:
Flood Evacuation Route Plan
Surface Water Flood Depth
0.1% AEP Event

PLOT STATUS:	DATE:
FINAL	01-10-2025

DRAWN:	CHECKED:	APPROVED:	PLOT SCALE AT A3:
AM	AW	NJ	1:2000

PLOT NAME:	REVISION:
16126_Flood_Evacuation_Route_Plan	-