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CIVIL STRUCTURAL CONSULTING ENGINEERS

7th November 2025

Flood Risk Assessment report

Belgard Square East, Old Blessington Road and Belgard Road, Tallaght, Dublin 24

Project No. S058

Flood Risk Assessment report

For Mixed Use Development at Belgard Square East,

Old Blessington Road and Belgard Road, Tallaght

Dublin 24

TORQUE

CONSULTING ENGINEERS

FLOOD RISK ASSESSMENT REPORT

FOR MIXED USE DEVELOPMENT AT BELGARD SQUARE EAST, OLD BLESSINGTON ROAD AND BELGARD ROAD, TALLAGHT DUBLIN 24

7th November 2025

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FLOOD RISK ASSESSMENT REPORT

FOR MIXED USE DEVELOPMENT AT BELGARD SQUARE EAST, OLD BLESSINGTON ROAD AND BELGARD ROAD, TALLAGHT

DUBLIN 24

1. INTRODUCTION

The following Flood Risk Assessment forms part of a planning application for a proposed mixed-use development at Belgard Square East, Belgard Road and Old Blessington Road, Tallaght, Dublin 24.

This report serves to provide information on:

- Level of Service,
- Flood Risks & Mitigation Measures, and
- Drainage Impact Assessment

Midsal Homes Limited intends to apply for permission for a Large-Scale Residential Development (LRD) at a site of approximately 1.19 Ha at Belgard Square East, Belgard Road and Old Blessington Road, Tallaght, Dublin 24. The main development site (approximately 0.91 Ha) is generally bound: to the north by Old Blessington Road; to the east by Belgard Road (R113); to the south by McDonald's Restaurant property (D24 HW74); and to the west by Belgard Square East. The site also includes parts of the carriageways and verges of Belgard Square East, Belgard Road and Old Blessington Road (approximately 0.28 Ha) for the provision of landscaping, 2 No. pedestrian crossings, accesses/junctions, minor road and footpath works, cycle infrastructure and water services infrastructure.

The proposed development principally comprises: the demolition and removal of existing boundary walls and railings on the main development site's eastern, western and northern sides; and the construction of a mixed-

use development in 2 No. blocks (Block A to the south and Block B to the north) with a gross floor area of 23,540 sq m (excluding basement of 275 sq m) and ranging in height from 1 No. to 7 No. storeys (with mezzanine level) over basement.

The development includes a total of 199 No. residential dwellings (6 No. studios, 47 No. 1-bed, 98 No. 2-bed and 48 No. 3-bed) in the 2 No. blocks, with Block A comprising 49 No. 'senior living' apartment units and Block B comprising 150 No. 'standard' apartment units. The development also includes 2,123 sq m of non-residential floor space, with the following uses proposed: 4 No. retail units (totalling 331 sq m); 4 No. class 1 / class 2 commercial units (totalling 387 sq m); a bicycle sales and repair shop (81 sq m); an off-licence (64 sq m); a bar (151 sq m); a café (87 sq m); a medical centre (210 sq m); a dental practice (72 sq m); a pharmacy (195 sq m); a beauty/health salon (195 sq m); and a crèche (350 sq m) with external play area.

The development also comprises: an undercroft car park accessed via a new entrance/exit at Belgard Square East which provides 58 No. car parking spaces; a gated service lane to the south of Block A, with entrances/exits off Belgard Square East and Belgard Road; 2 No. pedestrian/cycle crossings, at Belgard Square East and Belgard Road; continuation of the northbound cycle lane from Belgard Road onto Old Blessington Road; alteration to the median and northbound right turn at Belgard Road onto Abberley Square; cycle parking; internal communal amenity spaces for the senior living units; hard and soft landscaping, including public open space, communal amenity space and incidental spaces; private amenity spaces (as balconies and terraces facing all directions); boundary treatments; 2 No. sub-stations;

plant/operational rooms; bin stores; public lighting; blue roofs; rooftop PV arrays; lift overruns and rooftop opening vents atop both blocks; 4 No. 0.3 m diameter microwave link dishes mounted on 2 No. steel support poles affixed to the Block B lift overrun, all enclosed in radio-friendly GRP shrouds; and all associated works above and below ground.

The layout of the proposed development is detailed in a series of planning drawings provided by Donnelly Turpin Architects.

This report should be read in conjunction with the Engineering Services Report (ESR) and Torque Consulting Engineers drawings.

The Location of the subject site is shown in Figure 1.

FIGURE 1: SITE LOCATION (INDICATED BY RED POLYGON)

The Flood Risk Assessment was conducted in accordance with:

- The Planning System and Flood Risk Management, Guidelines for Planning Authorities (Department of Environment, Heritage and Local Government and the Office of Public Works).
- C624 Development and Flood Risk (Construction Industry Research and Information Association, CIRIA).
- Information from South Dublin County Council (SDCC) whose jurisdiction the site is in.

The Flood Risk Assessment was based on the following information provided by:

- South Dublin County Development Plan, 2022 – 2028,
- Greater Dublin Strategic Drainage Study, (GDSDS),
- Greater Dublin Regional Code of Practice for Drainage Works,
- Office of Public Works, (OPW),
- Ordnance Survey of Ireland, (OSI),
- Geological Survey of Ireland, (GSI),
- The Department of the Environment, Community & local Government – flooding documents, notably, *The Planning System & Flood Risk Management: Guidelines for Planning Authorities & Technical Appendixes*.

2. SITE CONTEXT

The site is bounded by Belgard Square East, Old Blessington Road and Belgard Road, Tallaght, Dublin 24, with an area of 0.91ha. *

The site is located within the South Dublin catchment area identified in the Greater Dublin Strategic Drainage Study (GDSDS). The site is approximately 17km inland from the coast and is at an elevation of approximately 97mOD.

* 9072m^2 is the main developable site; the balance of the gross site area (1.19 Ha – 0.9072 Ha) is outside of the Client's control.

3. Level of Service

The risk of a flood event is a function of the probability of occurrence in any given year. Traditionally, this has been expressed as a return period (e.g. 1-in-100-year return period). However, this has led to misconceptions about the likelihood of repeat occurrences. A less ambiguous expression of probability is the Annual Exceedance Probability (AEP), which may be defined as the probability of a flood event being exceeded in any given year. A 1-in-100-year return period flood event is therefore expressed as a 1% AEP flood event. Likewise, a 1-in-1-year return period flood event is expressed as a 100% AEP flood event.

The Planning System and Flood Risk Management, Guidelines for Planning Authorities set out the best practice standards for flood risk assessment in Ireland. These are summarised in Table 3.1 below (Table 8.1 from Guidelines for Planning Authorities document).

Flooding Source	Drainage	River	Tidal/Coastal
Residential	1% AEP	0.1% AEP	0.1% AEP
Commercial	1% AEP	1% AEP	0.5% AEP
Water-compatible (docks, marinas)	-	>1% AEP	>0.5% AEP

Table 3.1: Summary of Level of Service – Flooding Source

It is a requirement of the Greater Dublin Strategic Drainage Study, the Department of the Environment, Community & Local Government flooding guidelines, The Planning System and Flood Risk Management, Guidelines for Planning Authorities, that the predicted effects of climate change are incorporated into any proposed design. Table 3.2 below indicates the predicted climate change variations.

Design Category	Predicated Impact of Climate Change
Drainage	20% Increase in rainfall
Fluvial (River flows)	20% Increase in flood flow
Tidal / Coastal	Minimum Finished Floor Level 4.0 – 4.15m AOD

TABLE 3.2: THE PREDICTED CLIMATE CHANGE VARIATIONS

To comply with the South Dublin County Development Plan (2022-2028) an allowance for 20% has also been applied to the rainfall intensities.

The flooding guidelines categorise the risks associated with flooding into three areas, Zone A, B & C. This categorisation is indicated below.

- **Zone A** – High Probability of Flooding. Where the average probability of flooding from rivers and sea is highest (greater than 1% annually or 1 in 100 for river flooding or 0.5% annually or 1 in 200 for coastal flooding).
- **Zone B** – Moderate Probability of Flooding. Where the average probability of flooding from rivers and sea is moderate (risk between 0.1% annually or 1 in 1000 years and 1% annually or 1 in 100 years for river flooding, and between 0.1% or 1 in 1000 years and 0.5% annually or 1 in 200 for coastal flooding).
- **Zone C** – Low Probability of Flooding. Where the probability of flooding from rivers and sea is moderate (risk is less than 0.1% annually or 1 in 1000 years for both rivers and coastal flooding).

Potential flooding in the surrounding areas primarily arises from fluvial sources, including the Kingswood Stream, Whitestown Stream, Jobstown Stream, Dodder River, and their tributaries. A flood risk is indicated south of Old Blessington Road and extends to residential and rural zones near

Mount Seskin Community College and Tallaght Bypass. The subject property under review is located approximately 450m to the north of a flood zone created by the Whitestone Stream situated in the Sean Walsh Memorial Park. There is a flood zone located approximately 500m to the northeast of the subject property, in the grounds surrounding the TU Tallaght Campus.

Affected areas encompass various land use zones, including residential, recreational, agricultural, and enterprise spaces. Notably, flooding from these waterways impacts lands designated for open space, new residential development, and areas of natural character enhancement, however, following a review of the Office of Public Works flood maps and the South Dublin County Development Plan Strategic Flood Risk Assessment (2022 – Extracts in Appendix B), the subject property is located outside of any potential flooding zone. See Figure 2 below.

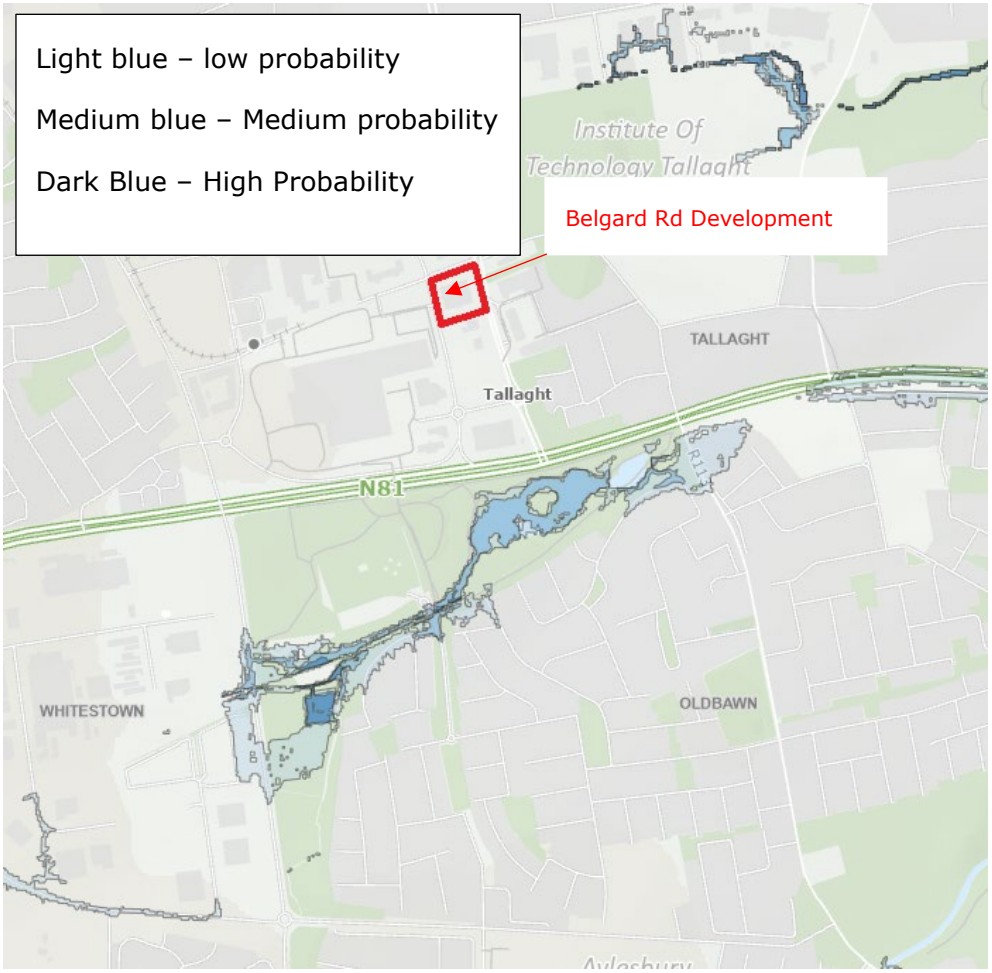


FIGURE 2: SITE LOCATION

(SOURCE: OPW EASTERN CATCHMENT FLOOD RISK ASSESSMENT)

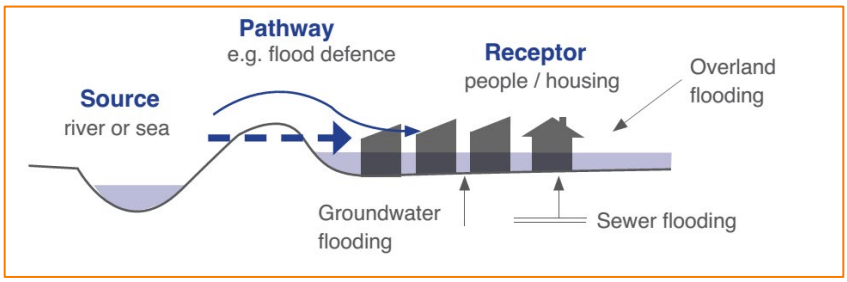


FIGURE 3: PATHWAY RECEPTOR MODEL

(SOURCE: FLOOD RISK MANAGEMENT GUIDELINES)

The flooding guidelines have developed an 'appropriateness' matrix for various developments and their potential risk factor. The table indicates if further analysis is required in the form of a justification test. Table 3.3 below outlines the conditions that require a justification test.

	Flood Zone A	Flood Zone B	Flood Zone C
Highly Vulnerable Development	***Justification Test***	***Justification Test***	Appropriate
Less Vulnerable Development	***Justification Test***	Appropriate	Appropriate
Water-compatible Development	Appropriate	Appropriate	Appropriate

TABLE 3.3: FLOOD ZONE VS JUSTIFICATION TEST MATRIX

As noted above the site is located within **Flood Zone C and therefore a justification test is not required**.

4. FLOOD RISKS & MITIGATION MEASURES

4.1 FLOOD HISTORY

The flood information pertaining to this development was obtained from various sources. These sources included data from the South Dublin County Council (SDCC), Office of Public Works (OPW), and the Geological Survey of Ireland (GSI).

4.2 FLUVIAL FLOODING

Fluvial flooding happens when rivers and streams overflow their banks, causing water to flood the surrounding low-lying areas.

A review of both the OPW's flop maps database (www.floodmaps.ie) and the South Dublin County Development Plan Flood Risk Assessment, shows that the area in which the development site is located does not indicate any historical flooding. It shows that the site is located outside of flood Zone A and Zone B, thus the site is not deemed to be vulnerable to fluvial flood events.

Two fluvial flood events occur within the vicinity of the development site. One flood event occurs approximately 450m to the south of the development site at the Sean Walsh Memorial Park due to the Whitestown Stream. The second flood event occurs approximately 500m northeast of the site at the TU Dublin, Tallaght Campus which is caused by a small river channel.

Both fluvial flood risk events pose no risk to the proposed development site as they occur at a remote distance from the site.

4.3 TIDAL FLOODING

Coastal flooding occurs when sea levels rise above the elevation of the adjacent land, flooding the coastline.

There is currently no tidal risk to the development site, as the site is approximately 17km from the coast at an elevation of 97mOD.

4.4 PLUVIAL FLOODING

Pluvial flooding occurs when rainfall surpasses the capacity of urban drainage systems or the ground's ability to absorb it, leading to excess water accumulation.

The resources offered by OPW and the pluvial flood risk map from the SDCC Flood Risk Assessment indicates that no Pluvial flooding occurs within the area of the development site. An existing storm water management pipe network is located around the site along Belgard Square East which any stormwater that occurs on site will be directed to. An adequate storm water drainage system is to be designed for the new development and is discussed in more detail in the Engineering Services Report.

4.5 POTENTIAL FOR SITE TO CONTRIBUTE TO OFF-SITE FLOODING.

The proposed development of this site will increase the percentage of hard standing contributions to offsite run off. All surface water runoff will be stored via blue roofs allowing for the 1 in 100-year storm event with an additional 20% for the climate change factor.

The stormwater will eventually fall via gravity to the existing public storm water system along Belgard Square East at the calculated greenfield runoff rate of 1.92 l/s.

4.6 EXISTING OFF-SITE DRAINAGE

Currently the existing public foul drainage network is located along Belgard Square East, and a public stormwater drain on Belgard

Square East and Old Belgard Road. The foul drainage of the site will be collected via a pipe network, and the stormwater drainage will be collected via blue roofs and released slowly back into the existing public stormwater drainage system. See the Engineering Services Report for the proposed drainage arrangements.

4.7 GROUNDWATER FLOODING

Groundwater flooding occurs when prolonged rainfall causes the water table to rise, bringing groundwater to the surface and causing it to overflow.

The Geological Survey of Ireland (GSI) indicated that the site is underlain with dark limestone and shale. The area is also listed over a locally important gravel aquifer (with a probable outwash in bedrock).

The groundwater vulnerability assessment of the site shows that the vulnerability of groundwater in the area is moderate. See Appendix D for GSI mapping information for groundwater vulnerability and bedrock geology for the site.

During construction, countermeasures should be put in place to prevent hazardous materials contaminating the ground water. Examples of effective countermeasures include, but are not limited to: Bunded are lined storage for fuels/chemicals, good housekeeping, Clear records/register of chemical onsite, Spill kit onsite

The chosen contractor must engage an environmental specialist to develop and agree to the on-site groundwater protection strategy with the local authority before work commences.

In the permanent case, refer to the ESR report and the next section of this report for the stormwater treatment. In the basement carpark, a petrol interceptor is used to mitigate against any potential fuel leaks into the foul water before it enters the foul water drainage system.

5. Drainage Impact Assessment

5.1. SURFACE WATER SYSTEM AND EXCEEDANCE FLOWS

The proposed stormwater system has been designed so that all surface water is captured by stormwater systems using appropriate runoff rates depending on the surface impacted. The majority of the stormwater will be stored in blue roofs above the mixed use development and the ground floor parking. The rate at which the stored stormwater will be released is the same as the green field runoff rate (QBAR). Refer to the Engineering Services Report for relevant calculations.

The storage capacity of the blue roofs allows for extra capacity to assist in the case of exceedance flows and to assist in preventing any runoff on the site not being intercepted. Further storage capacity is available within the pipe network and any in infiltration that may occur in the provided green areas of the site.

5.2. FUTURE PROOF

The rainfall intensities have been increased to allow for climate change (+20%) to ensure that the blue roof system is future proofed against the enhanced rainfall effects caused by climate change. The blue roof system provided will be easy to inspect and maintain to prevent any future maintenance issues arising.

5.3. BLOCKAGES TO PIPE NETWORK & EXCEEDANCE RAINFALL

The combined surface water pipe network has been modelled as a system. As part of this process the implications of a 50% blockage in the pipework has been modelled along with the implications of rainfall in excess of a 100-year storm. See the separate Engineering Service Report provided with this submission for more information on this.

6. CONCLUSIONS AND RECOMMENDATIONS

- This report examines the various resources available to determine the flood risk of the subject site; the flood risk is examined with respect to the characteristics of the proposed development together with the existing services surrounding the site.
- A summary of the level of service was provided with a review of the office of public works flood maps indicating that the subject site does not occur within any previous instances regarding flooding.
- The subject site is not required to be reviewed under South Dublin City County Council requirement for a justification test and is deemed to be in compliance with their county development plan (2022-2028) flood risk strategy requirements.
- The subject site falls outside the 0.1% AEP fluvial, pluvial and coastal flood zone which thus indicates the subject site can be classified as Zone C (low probability of flooding).
- The subject site falls within a moderate area of vulnerability for groundwater flooding and overlays an existing gravel aquifer.
- The stormwater drainage system has been designed to account for climate change and exceedance flows. The implications of pipe blockages have been examined and have been modelled accordingly.
- See the Engineering Services Report for more details.

KEN MORIARTY C.ENG, F.I.E.I.

CHARTERED ENGINEER

TORQUE CONSULTING ENGINEERS LTD.

APPENDICES

Appendix A

OFFICE OF PUBLIC WORKS HISTORICAL FLOOD MAP REPORT

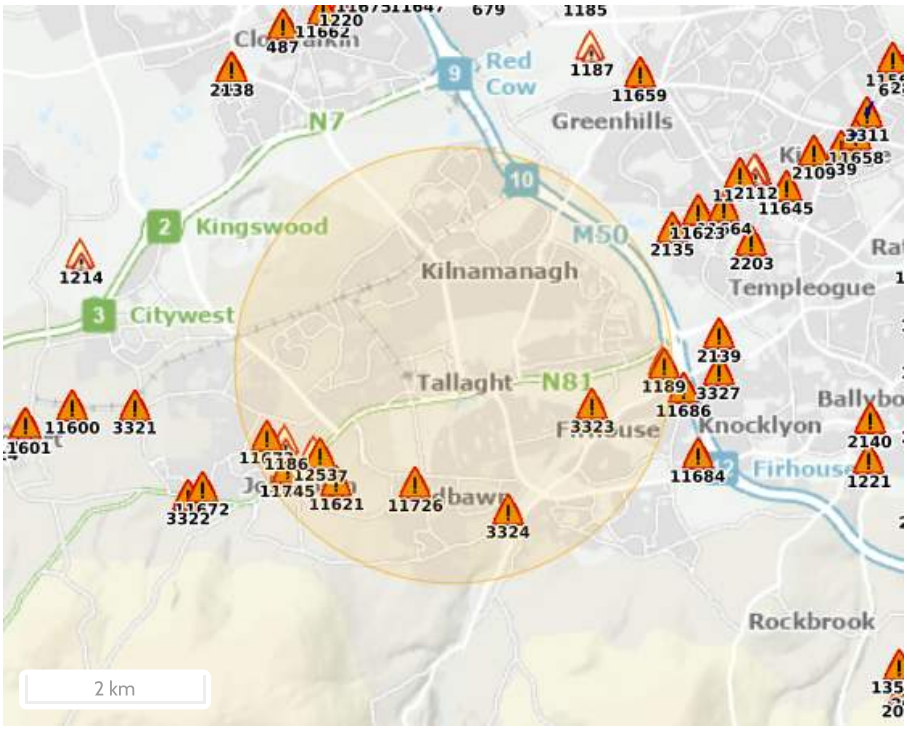
Past Flood Event Local Area Summary Report

OPW Oifig na nOibreacha Poiblí Office of Public Works

Report Produced: **18/2/2025 16:45**

This Past Flood Event Summary Report summarises all past flood events within 2.5 kilometres of the map centre.

This report has been downloaded from www.floodinfo.ie (the "**Website**"). The users should take account of the restrictions and limitations relating to the content and use of the Website that are explained in the Terms and Conditions. It is a condition of use of the Website that you agree to be bound by the disclaimer and other terms and conditions set out on the Website and to the privacy policy on the Website.



Map Legend

- Single Flood Event
- Recurring Flood Event
- Past Flood Event Extents
- Drainage Districts Benefited Lands*
- Land Commission Benefited Lands*
- Arterial Drainage Schemes Benefited Lands*

* Important: These maps do not indicate flood hazard or flood extent. Their purpose and scope is explained on Floodinfo.ie

12 Results

	Name (Flood_ID)	Start Date	Event Location
1.	Dodder Avonmore Park Nov 2000 (ID-3323) **Additional Information:** Reports (1) Press Archive (0)	05/11/2000	Approximate Point
2.	Dodder Kiltipper Road Nov 2000 (ID-3324) **Additional Information:** Reports (1) Press Archive (0)	05/11/2000	Approximate Point
3.	Flooding at Whitestown Way, Tallaght, Dublin 24 on 24th Oct 2011 (ID-11726) **Additional Information:** Reports (1) Press Archive (0)	23/10/2011	Exact Point
4.	Flooding at Blessington Road, Tallaght, Dublin 24 on 1st May 2012 (ID-11745) **Additional Information:** Reports (1) Press Archive (0)	05/01/2012	Exact Point
5.	Flooding at Tallaght on 01/05/2012 (ID-12852) **Additional Information:** Reports (0) Press Archive (0)	01/05/2012	Approximate Point
6.	Killinarden Stream Jobstown recurring (ID-1186) **Additional Information:** Reports (2) Press Archive (1)	n/a	Approximate Point

	Name (Flood_ID)	Start Date	Event Location
7.	Dodder Mount Carmel Park recurring (ID-1189) **Additional Information:** Reports (2) Press Archive (1)	n/a	Approximate Point
8.	Killinarden Stream N81 Jobstown Recurring (ID-1253) **Additional Information:** Reports (1) Press Archive (1)	n/a	Approximate Point
9.	Mount Carmel Park Firhouse Nov 2000 (ID-3333) **Additional Information:** Reports (1) Press Archive (1)	05/11/2000	Approximate Point
10.	Flooding at Knockmore, Tallaght, Co. Dublin on 24th Oct 2011 (ID-11621) **Additional Information:** Reports (1) Press Archive (0)	23/10/2011	Approximate Point
11.	Flooding at Tallaght Pass, N81, Dublin 24 on 24th Oct 2011 (ID-11657) **Additional Information:** Reports (1) Press Archive (0)	23/10/2011	Exact Point
12.	Flooding at Bawnlea Crescent and Avenue, Tallaght, Co. Dublin on 24th Oct 2011 (ID-11673) **Additional Information:** Reports (1) Press Archive (0)	23/10/2011	Exact Point

Appendix B

South Dublin County Development Plan 2022-2028 Strategic Flood Risk Assessment Extract

4.2.3 Jobstown – Killinarden:

Fluvial flooding emanating from the Kingswood Stream and its tributaries is indicated in areas south of Blessington Road up until residential areas east and south of Mount Seskin Community College (Belfry Green). Fluvial flooding from the Jobstown Stream is indicated south of Tallaght Bypass and between Whitestown Way and Old Bawn Road. Indicated flooding affects areas currently zoned as "RU – To protect and improve rural amenity and to provide for the development of agriculture", "OS – To preserve and provide for open space and recreational amenities", "EE – To provide for enterprise and employment related uses", "RES – To protect and/or improve residential amenity", "HA-DM - To protect and enhance the outstanding natural character and amenity of the Liffey Valley, Dodder Valley and Dublin Mountains areas" and "RES-N – To provide for new residential communities in accordance with approved area plans".

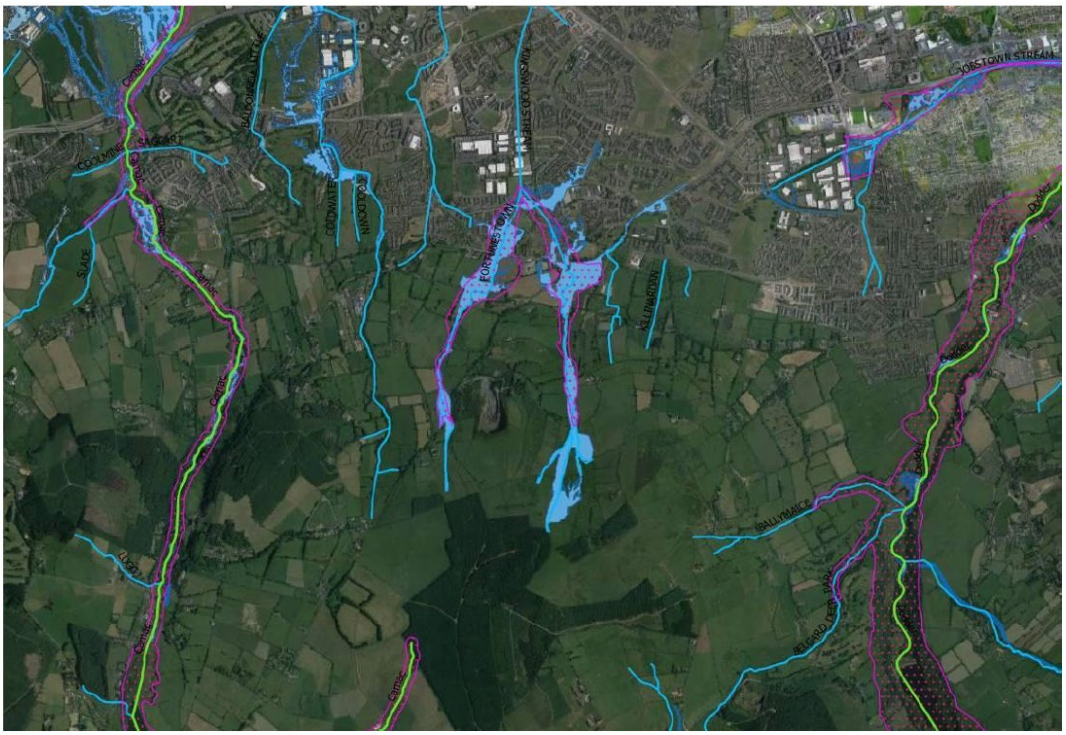


Figure 4.3 Indicated flood risk areas and Riparian Corridors (in pink) for Jobstown - Killinarden

4.2.9 Ballycullen – Oldcourt:

Indicated flooding from the Dodder and its tributaries (such as the Orlagh, Ballycullen Stream and Jobstown Stream) affects areas south of Tallaght Bypass, west of Balliharcorney Road/Firhouse Road, and areas south and north of Killiney Road (west of Southern Cross Route). Flooding from the Owenadoher and its tributaries is indicated in areas along Cruagh Road (south of Southern Cross Route) and around junction Edmondstown Road/BallybodenWay/Taylors Lane. Affected areas are currently zones as ""RES – To protect and/or improve residential amenity", "OS – To preserve and provide for open space and recreational amenities", "HA-DM - To protect and enhance the outstanding natural character and amenity of the Liffey Valley, Dodder Valley and Dublin Mountains areas", "RU – To protect and improve rural amenity and to provide for the development of agriculture" and "RES-N – To provide for new residential communities in accordance with approved area plans".

Figure 4.9 Indicated flood risk areas and Riparian Corridors (in pink) for Ballycullen - Oldcourt

5.2.3.2 Ballycullen – Oldcourt

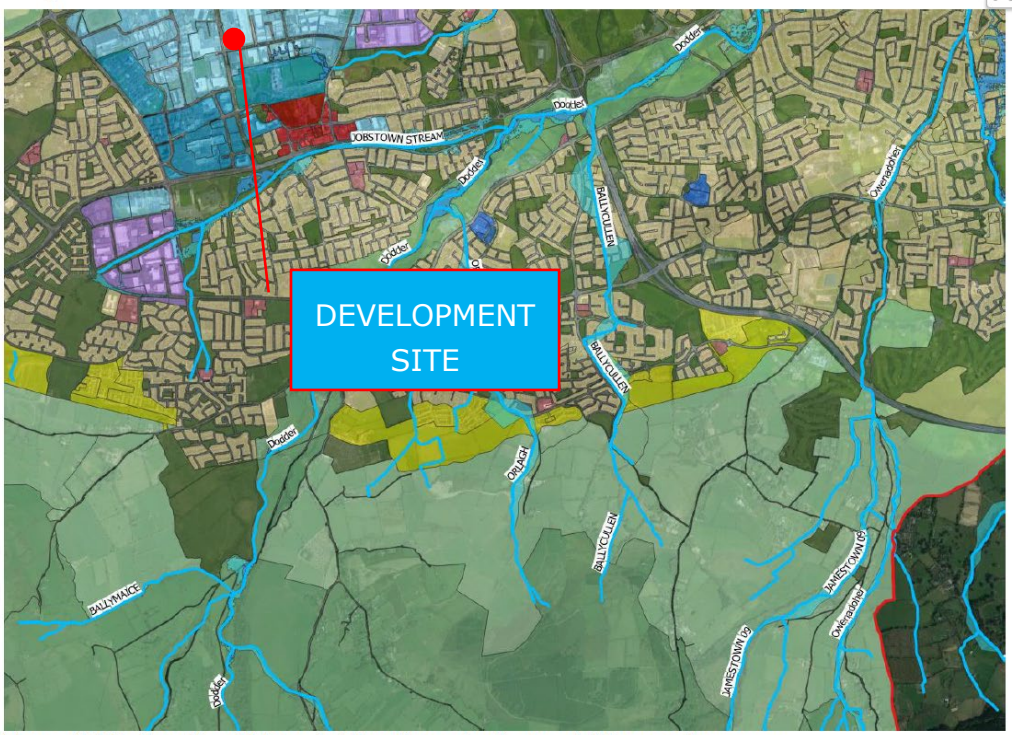


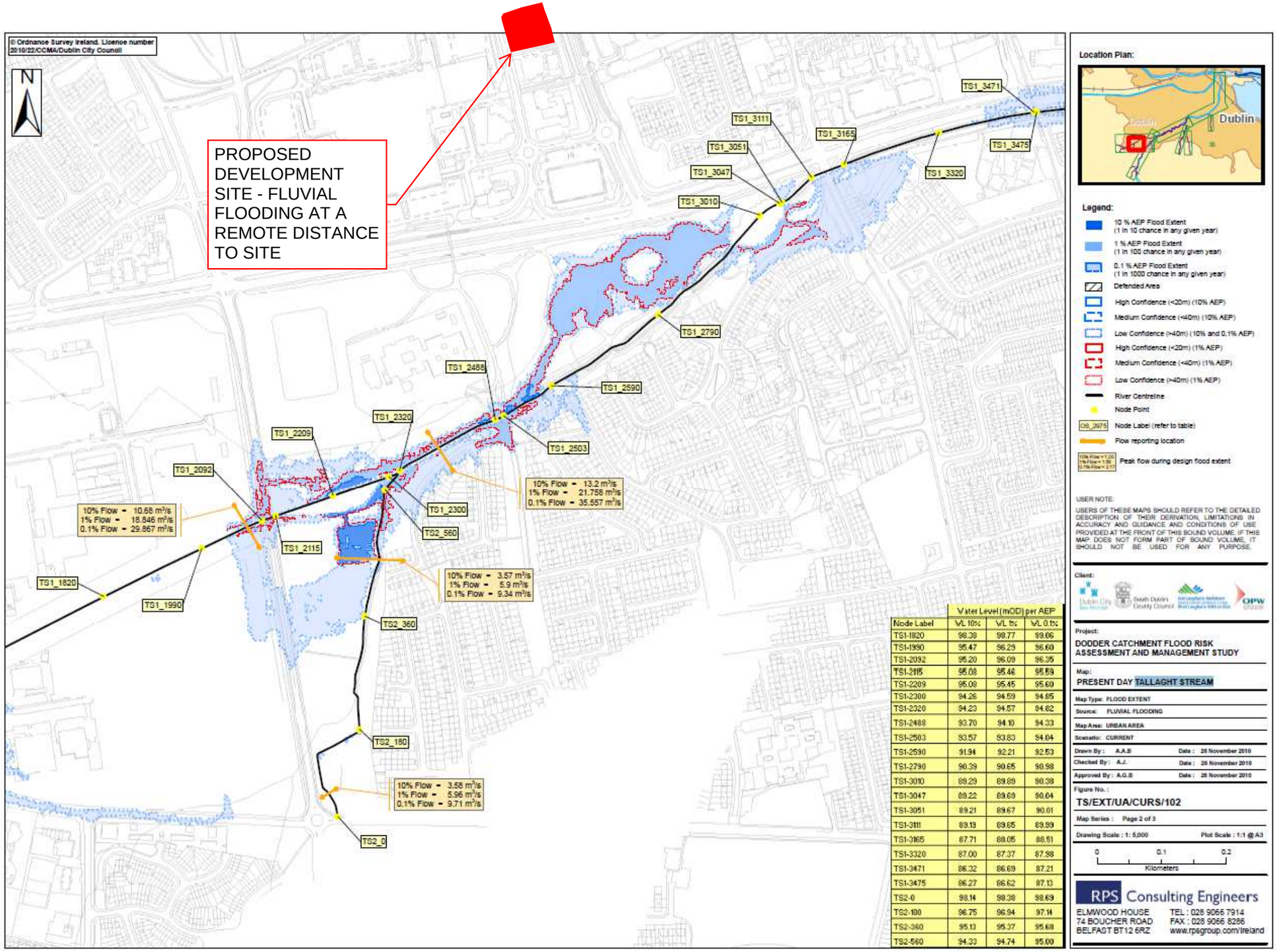
Figure 5.2 Ballycullen Oldcourt - Flooding extents over laid on zoning maps

Flooding is indicated from the Dodder and its tributaries (such as the Orlagh, Ballycullen Stream and Jobstown Stream) affects areas south of Tallaght Bypass, west of Balliharcorney Road / Firhouse Road, and areas south and north of Killiney Road (west of Southern Cross Route). Flooding from the Owenadoher and its tributaries is indicated in areas along Cruagh Road (south of Southern Cross Route) and around junction Edmondstown Road / Ballyboden Way / Taylors Lane. Affected areas are currently zones as “”RES – To protect and/or improve residential amenity”, “OS – To preserve and provide for open space and recreational amenities”, “HA-DM -

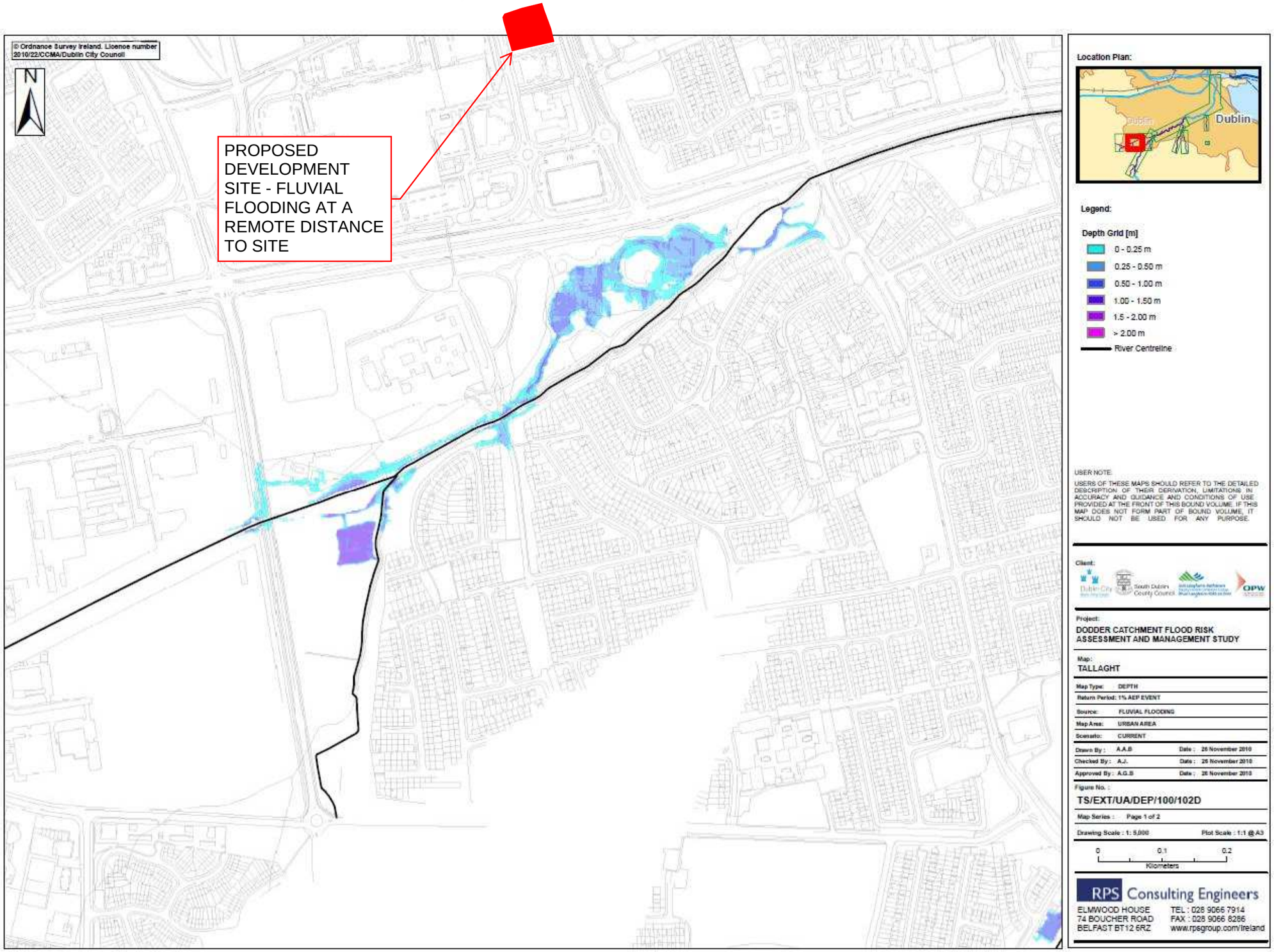
To protect and enhance the outstanding natural character and amenity of the Liffey Valley, Dodder Valley and Dublin Mountains areas”, “RU – To protect and improve rural amenity and to provide for the development of agriculture” and “RES-N – To provide for new residential communities in accordance with approved area plans”.

Appendix C

OPW Fluvial Map



Node Label	Water Level (mOD) per AEP		
	WL 10%	WL 1%	WL 0.1%
TS1-1820	98.38	98.77	99.06
TS1-1990	95.47	96.29	96.60
TS1-2092	95.20	96.09	96.35
TS1-2115	95.08	95.46	95.59
TS1-2209	95.08	95.45	95.60
TS1-2300	94.26	94.59	94.85
TS1-2320	94.23	94.57	94.82
TS1-2488	93.70	94.10	94.33
TS1-2503	93.57	93.83	94.04
TS1-2590	91.94	92.21	92.53
TS1-2790	90.39	90.65	90.98
TS1-3010	89.29	89.89	90.38
TS1-3047	89.22	89.69	90.04
TS1-3051	89.21	89.67	90.01
TS1-3111	89.19	89.65	89.99
TS1-3165	87.71	88.05	88.51
TS1-3320	87.00	87.37	87.98
TS1-3471	86.32	86.69	87.21
TS1-3475	86.27	86.62	87.13
TS2-0	98.14	98.38	98.69
TS2-180	96.75	96.94	97.14
TS2-360	95.13	95.37	95.68
TS2-560	94.33	94.74	95.00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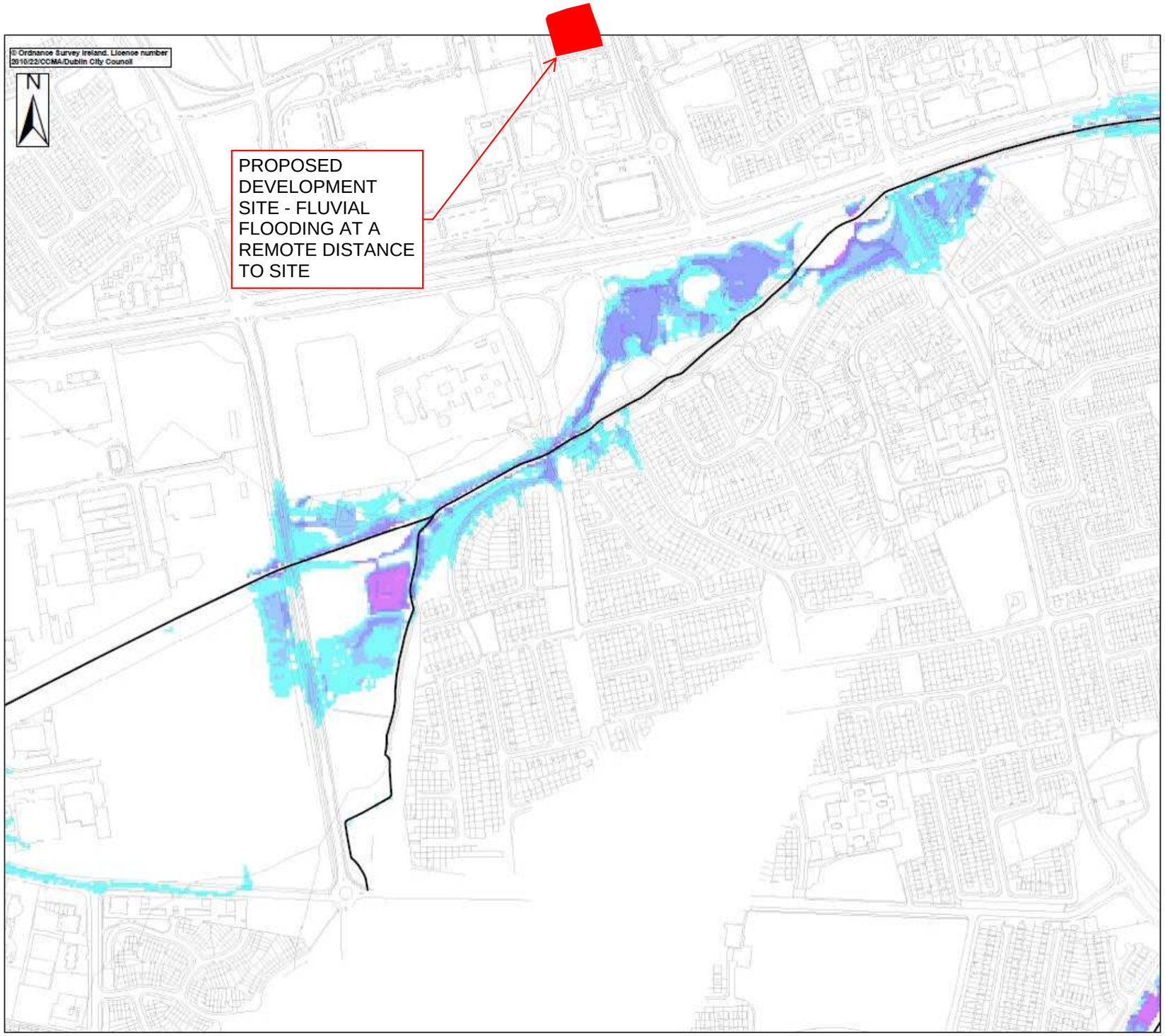
N
PROPOSED DEVELOPMENT SITE - FLUVIAL FLOODING AT A REMOTE DISTANCE TO SITE
Location Plan:
Dublin
Legend:
Depth Grid [m]
0 - 0.25 m
0.25 - 0.50 m
0.50 - 1.00 m
1.00 - 1.50 m
1.5 - 2.00 m
> 2.00 m
River Centreline
USER NOTE:
USERS OF THESE MAPS SHOULD REFER TO THE DETAILED DESCRIPTION OF THEIR DERIVATION, LIMITATIONS IN ACCURACY AND GUIDANCE AND CONDITIONS OF USE PROVIDED AT THE FRONT OF THIS BOUND VOLUME. IF THIS MAP DOES NOT FORM PART OF BOUND VOLUME, IT SHOULD NOT BE USED FOR ANY PURPOSE.
Client:
Dublin City
South Dublin County Council
OPW
Project:
DODDER CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT STUDY
Map:
TALLAGHT
Map Type: DEPTH
Return Period: 1% AEP EVENT
Source: FLUVIAL FLOODING
Map Area: URBAN AREA
Scenario: CURRENT
Drawn By : A.A.B Date : 26 November 2010
Checked By : A.J. Date : 26 November 2010
Approved By : A.G.S Date : 26 November 2010
Figure No. :
TS/EXT/UA/DEP/100/102D
Map Series : Page 1 of 2
Drawing Scale : 1: 5,000 Plot Scale : 1:1 @ A3
0 0.1 0.2
Kilometers
RPS Consulting Engineers
ELMWOOD HOUSE
74 BOUCHER ROAD
BELFAST BT12 6RZ
TEL : 028 9066 7914
FAX : 028 9066 8286
www.rpsgroup.com/Ireland



Location Plan:

Legend:

Depth Grid [m]
- 0 - 0.25 m
- 0.25 - 0.50 m
- 0.50 - 1.00 m
- 1.00 - 1.50 m
- 1.5 - 2.00 m
- > 2.00 m
- River Centreline

USER NOTE:

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Client:

Project:
DODDER CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT STUDY

Map:
OWENDOHER & WHITECHURCH

Map Type:	DEPTH		
Return Period:	0.1% AEP EVENT		
Source:	FLUVIAL FLOODING		
Map Area:	URBAN AREA		
Scenario:	CURRENT		
Drawn By :	A.A.B	Date :	26 November 2010
Checked By :	A.J.	Date :	26 November 2010
Approved By :	A.G.B	Date :	26 November 2010

Figure No. :
TS/EXT/UA/DEP/1000/103A

Map Series : Page 2 of 3

Drawing Scale : 1: 5,000 Plot Scale : 1:1 @ A3

0 0.1 0.2
Kilometers

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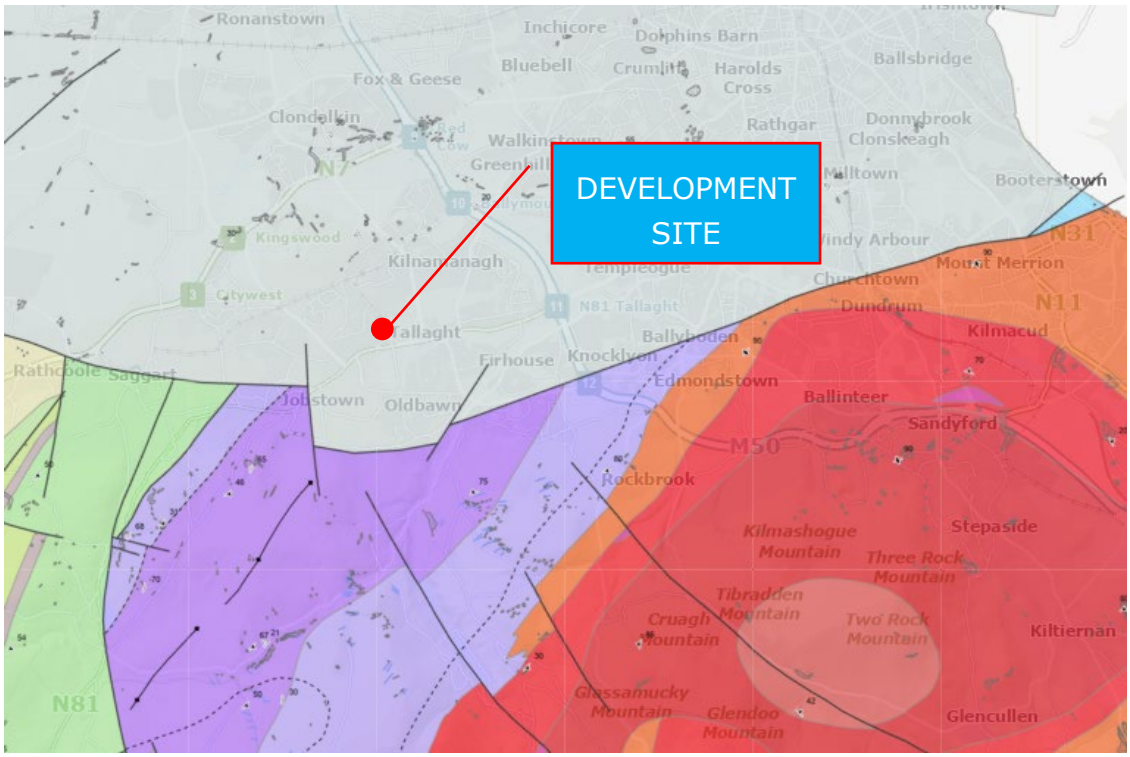
Appendix D

GSI - Geology & Ground Water Vulnerability Maps

GEOLOGY



GROUND WATER VULNERABILITY MAP

Appendix E

SDCC – Flood Risk Assessment Flood Maps

PROPOSED DEVELOPMENT SITE - NO PLUVIAL FLOODING WITHIN VACINITY

N

Legend

- Watercourses
- Pluvial - 1%AEP Flood Extent (1 in 100 Year Flood)
- Pluvial – 0.1%AEP Flood Extent (1 in 1000 Year Flood)
- County Boundary

0 0.5 1 2 3 4 5 Km

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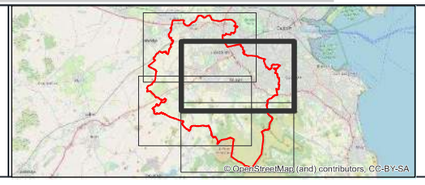

No.	Revision	Date	By	Chk'd	App'd
P01	Final Issue	26/07/2022	LA	WV	JPR

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Drawn	Designed	Checked	Approved	Suitability Code - Description
LA	WV	WV	JPR	S2 - Information

Project Stage	FINAL
Project Title	SDCC County Devlopment Plan Stategic Flood Risk Assessment
Drawing Title	Indicative Pluvial Flood Mapping Sheet 3 of 4
Drawing Number	Project - Originator - Volume - Location - Type - Role - Number SDSFRA - ROD - EWE - SW_AE - DR - ENV - 40103
Scale (A1) 1:20,000	Date: April 2021 · Job No: 20.126 · Rev: P01

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PROPOSED DEVELOPMENT SITE - FLUVIAL FLOODING AT A REMOTE DISTANCE TO SITE

N

Legend

- Watercourses
- Flood Zone A – 1%AEP Flood Extent (1 in 100 Year Flood)
- Flood Zone B – 0.1%AEP Flood Extent (1 in 1000 Year Flood)
- Riparian Corridor
- County Boundary

0 100 200 400 600 800 1,000 m

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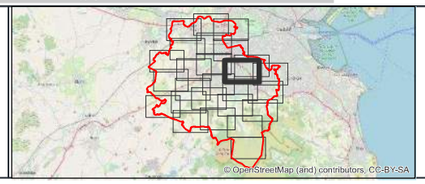

No.	Revision	Date	By	Chk'd	App'd
P01	Final Issue	26/07/2022	LA	WV	JPR

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Drawn	Designed	Checked	Approved	Suitability Code - Description
LA	WV	WV	JPR	S2 - Information

Project Stage	FINAL
Project Title	SDCC County Devlopment Plan Stategic Flood Risk Assessment
Drawing Title	SFRA Flood Zone Mapping Sheet 10 of 26

Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
	SDSFRA -	ROD -	EWE -	SW_AE -	DR -	ENV -	40010

Scale (A1)	Date:	Job No:	Rev:
1:6,000	April 2021	20.126	P01

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PROPOSED DEVELOPMENT SITE - FLUVIAL FLOODING AT A REMOTE DISTANCE TO SITE

N

Legend

- Watercourses
- Flood Zone A – 1%AEP Flood Extent (1 in 100 Year Flood)
- Flood Zone B – 0.1%AEP Flood Extent (1 in 1000 Year Flood)
- Riparian Corridor
- County Boundary

0 100 200 400 600 800 1,000 m

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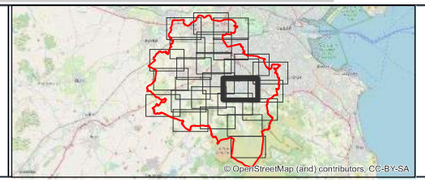

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P01	Final Issue	26/07/2022	LA	WV	JPR

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LA	WV	WV	JPR	S2 - Information

Project Stage	FINAL
Project Title	SDCC County Devlopment Plan Stategic Flood Risk Assessment
Drawing Title	SFRA Flood Zone Mapping Sheet 16 of 26

Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
	SDSFRA -	ROD -	EWE -	SW_AE -	DR -	ENV -	40016

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