

<b>Location: Killacolla, Co. Limerick</b>		<b>Unique ID: 240386</b> (from PFRA database)	
<b>Initial OPW Designation</b>	<b>APSR</b> <input type="checkbox"/>	<b>AFRR</b> <input checked="" type="checkbox"/>	<b>IRR</b> <input type="checkbox"/>
<b>Co-ordinates</b>	<b>Easting: 148250</b>	<b>Northing: 127250</b>	
<b>River / Catchment / Sub-catchment</b>	<b>Minor tributary to the River Maigue / Maigue Catchment</b>		
<b>Type of Flooding / Flood Risk</b> (identify all that apply)	<b>Fluvial non-tidal</b> <input checked="" type="checkbox"/> <b>Fluvial tidal</b> <input type="checkbox"/> <b>Coastal</b> <input type="checkbox"/>		

<b>Stage 1: Desktop Review</b>	
<b>1.1 Flood History</b> <b>(include review of Floodmaps.ie)</b>	<b>River Flow Path</b> <p>A small tributary of the River Maigue flows through Killacolla (EPA stream order 1-2). There is some residential ribbon development in the area.</p> <p>The village of Ballyagran is located approx 3km west of Killacolla.</p> <b>Flood event records</b> <p>There are no OPW flood records for this area.</p>
<b>1.2 Relevant information on flooding issues from OPW and LA staff</b>	<b>PFRA database comments (<i>in italics</i>):</b> <b>OPW comments</b> <ul style="list-style-type: none"> <li><i>Not designated APSR. Inaccuracy in predictive analysis outline.</i></li> </ul> <b>LA comments</b> <ul style="list-style-type: none"> <li><i>Identified due to nursing home</i></li> </ul> <b>Meeting / discussion summary comments:</b> <b>OPW comments</b> <ul style="list-style-type: none"> <li><i>Not heard of any problem.</i></li> <li><i>Nursing home is to the south of Killacolla which is next to a watercourse, hence its high Flood Risk score in the PFRA. Need to confirm location / flood risk.</i></li> </ul> <b>LA comments</b> <ul style="list-style-type: none"> <li><i>The area under review is south of Killacolla in Drewscourt East.</i></li> <li><i>Not aware of any issues here or north in Killacolla.</i></li> </ul>

<b>1.4 PFRA Data</b>			
<b>1.4.1 PFRA hazard mapping</b>	<b>PFRA mapping available in GIS layer:</b>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	<b>PFRA mapping included on FRR map:</b>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>1.4.2 Summary of Principal Receptors</b>	<b>Type</b>		<b>FRI score (if available)</b>
	Nursing_H_Weighted_F_S		2500
	<b>Total</b>		<b>2520</b>
<b>1.7 Stage 1 Evaluation</b>	<b>Aspect</b>	<b>Clearly APSR</b>	<b>Uncertain</b>
	<b>Flood History (1.1)</b>		<b>X</b>
	<b>OPW / LA Information (1.2)</b>		<b>X</b>
	<b>PFRA Evaluation (1.4)</b>		<b>X</b>
	<b>Overall Desktop Evaluation</b> (if any above aspect is uncertain then overall designation is uncertain)		<b>X</b>
<b>1.8 Proposed level of assessment for Stage 2 site visits</b>	<b>Level A Site Visit</b>		<b>X</b>
	<b>Level B Site Visit</b>		

<b>Stage 2: Site Inspection</b>		<b>Level A Assessment</b>		
<b>Date and Time of Inspection</b>		<b>Date: 31/03/11</b>		
		<b>Time: 11:00</b>		
<b>Names of inspection team (including OPW/LA staff if present)</b>		<b>Iain Blackwell</b>		
		<b>Kelly Kasperczyk</b>		
<b>2.1 Ground-truthing of Hazard Mapping</b>	<b>Fluvial non-tidal</b> <input checked="" type="checkbox"/> <b>Fluvial tidal</b> <input type="checkbox"/> <b>Coastal</b> <input type="checkbox"/> <b>Not available</b> <input type="checkbox"/>			
	Area under consideration is very localised hence the detailed accuracy of the mapping is difficult to ascertain.			
<b>2.2 Spot check ground-truthing of selected receptor vulnerability</b>	<b>Receptor Type</b>	<b>Location description (if not obvious)</b>	<b>Exists?</b>	<b>Overall Vulnerability / Risk (L / M / H)</b>
<b>(also note any key receptors noted during visit that are not identified by PFRA)</b>	Nursing Home	Drewscourt East (just south of Killacolla)	Yes	Low
<b>2.3 Local knowledge - on-site comments</b> <b>(OPW, LA and any info volunteered by local residents during visit)</b>	Owner of the nursing home has never experienced problems from the stream that runs next to the nursing home. Her house is located over the stream on the left bank on lower ground (approx 1m lower); and has not experienced any flooding problems.			
<b>2.4 Comments on hydraulic constrictions (bridges, etc.) and conveyance routes</b>	Some rubbish and overgrown vegetation at the culvert crossing where the access road to the Nursing Home joins the main road running NW to SE			

## 2.5 SVRS Assessment Matrix

### Weightings:

A - x1 - reasonable expectation of flooding

B - x2 - high expectation of flooding  
or flooding is tidal (any risk)

C - x5 - risk to life

Approx. Number	1 to 4				5 to 20				>20			
Weighting		A	B	C		A	B	C		A	B	C
Property (domestic)	10				100				200			
Property (small retail or business)	20				200				400			
Property (large retail or business)	50				500				1000			
Road or Rail Infrastructure	30				300				600			
Critical Infrastructure (local) [hospital, school, police/fire/ambulance station, substation, WTW/WWTW, gov bldg, other (specify)]	50				500				1000			
Critical Infrastructure (national importance)	250				1000				2000			
Cultural Heritage Site	20				200				400			
Environmental Designated Site	20				200				400			
Hazardous Substances Site	50				500				1000			
<b>Total SVRS</b>									<b>0</b>			

## 2.6 Defence Assets

### Formal and Informal Flood Defence Assets

(include effective and ineffective assets to inform asset survey and potential mitigation measures)

#### Open Channel Watercourses

Man-made river channel ☐ Flood relief channel ☐ Canal ☐  
Mill leat ☐ Drainage channels / back drains ☐

#### Bridges and Culvert crossings

Single Arch bridge ☐ Multi-Arch bridge ☐  
Single Span bridge ☐ Multi-Span bridge ☐  
Box culvert(s) ☐ Pipe culvert(s) ☒ Arch Culvert(s) ☐

#### Culverted Watercourses (culvert length is greater than just a crossing)

Box culvert(s) ☐ Pipe culvert(s) ☐ Arch Culvert(s) ☐ Irregular Culvert(s) ☐

#### Walls and Embankments

Embankment(s) ☐ Raised wall(s) ☐ Retaining wall(s) ☐

#### Control Structures – weirs, gates, dams

Fixed crest weir ☐ Adjustable weir ☐ Dam / Barrage ☐  
Sluice gates ☐ Lock gates ☐ Radial gates ☐

#### Storage

On-line storage (natural) ☐ On-line storage (artificial) ☐ Off-line storage ☐



	<b>Outfalls</b> Flapped outfall(s) into watercourse <input type="checkbox"/> Unflapped outfall(s) into watercourse <input type="checkbox"/> <i>i.e. from smaller watercourses, drains etc. into river / estuary / sea</i> Tidal flap(s) <input type="checkbox"/> Tidal sluice(s) <input type="checkbox"/> <i>i.e. from main watercourse into estuary / sea</i> <b>Other</b> Pumping Station <input type="checkbox"/> Erosion Protection <input type="checkbox"/> Sand Dunes <input type="checkbox"/> <b>Additional notes (if required):</b> There are no flood defence related assets at this location, except for the culvert for the drainage channel (running next to the Nursing Home) that conveys the flow under the road.
<b>2.8 Initial Potential Mitigation Measures</b>	
<b>Non-structural measures</b>	Planning and Development control <input type="checkbox"/> Sustainable Urban Drainage Systems <input type="checkbox"/> Flood forecasting / warning <input type="checkbox"/> Change in Operating Procedures for water level control: <input type="checkbox"/> Public awareness campaign <input type="checkbox"/> Individual property protection <input type="checkbox"/> Land use management <input type="checkbox"/>
<b>Structural measures</b>	<b>Strategic development management for floodplain development:</b> <input type="checkbox"/> <i>(integration of measures into strategic development proposals)</i> <b>Storage:</b> On-line <input type="checkbox"/> Off-line <input type="checkbox"/> <b>Flow diversion:</b> Flood relief channel <input type="checkbox"/> Flood relief culvert <input type="checkbox"/> <b>Increase conveyance:</b> Bridge works <input type="checkbox"/> Channel works <input type="checkbox"/> Floodplain <input type="checkbox"/> <b>Flood defences:</b> Walls <input type="checkbox"/> Embankments <input type="checkbox"/> <b>Localised works:</b> Defence raising <input type="checkbox"/> In-fill gaps <input type="checkbox"/> Trash screen <input type="checkbox"/> <b>Maintenance works:</b> Culvert / channel clearance <input checked="" type="checkbox"/> Asset maintenance <input type="checkbox"/> <b>Relocation of properties:</b> <input type="checkbox"/> <b>Improve existing defences:</b> <input type="checkbox"/> (describe) <b>Other (describe):</b>

<b>Outcomes</b>				
<b>PFRA Designation</b>	APSR <input type="checkbox"/> not an APSR <input checked="" type="checkbox"/> IRR <input type="checkbox"/>		<b>FRI Score: 2520</b>	
<b>Site Ground-truthing of PFRA Assessment (hazard mapping and receptors)</b>	<b>High Confidence (good)</b>	<b>Uncertain</b>	<b>Low Confidence (poor)</b>	<b>Not available</b>
		X		
<b>Site Visit Review Score</b>	0			
<b>Recommended Designation</b>	APSR <input type="checkbox"/> not an APSR <input checked="" type="checkbox"/> IRR <input type="checkbox"/>			

<b>Summary Comments (if needed)</b>	<p>The Nursing home is located on the right bank, which is approximately 1m higher than the ground level on the right bank and hence any flooding would occur on the left bank first. Additionally the catchment area is very small, with the watercourse effectively being a small land drain, with an upstream length of less than 1km.</p> <p>There is a low risk of flooding but this does not merit the location being identified as an APSR.</p>
-------------------------------------	--



**Photo 1:** St. Gobnait's Nursing Home - watercourse located behind the hedge on the right



**Photo 2:** Small watercourse adjacent to Nursing Home on the right bank d/s



**Photo 3:** Property adjacent to the watercourse on the lower left bank



**Photo 4:** Ditch adjacent to the nursing home is not maintained

