

<b>Location: Dromroe, Co. Kerry</b>		<b>Unique ID: 230351</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: 85000</b>		<b>Northing: 131000</b>
<b>River / Catchment / Sub-catchment</b>	<b>Crompaun River/ Brick River / Feale 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>The River Crompaun flows east to west through the townland of Dromroe (Ed Causeway). The network of streams/channels is complex, including back drains running parallel to the River Crompaun either side of the embankments through the Dromroe area. This pattern continues until the River Crompaun meets the Brick River further east.</p> <b>Flood event records</b> <p>There is one singular OPW flood event from 1998. Information is limited with one report (contains photo and map only). The flood event was at Crompaun Bridge.</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> <i>Investigate first under risk review - Wedge D/S of road - Possible Minor Works</i>  <b>LA comments</b> <i>LA - are not sure why this is included. There may be occasional flooding of lands near Ballincrossing Cross which is not serious.</i>  <b>Meeting / discussion summary comments:</b>  <b>OPW comments</b> <ul style="list-style-type: none"> <li>Crompaun river is essentially a storage channel designed to spill out from both banks.</li> <li>PFRA mappings extents appear to be quite accurate.</li> <li>Tidal barrage located d/s before the Crompaun merges with the Brick River.</li> <li>Main risk in this area is along Lady's Walk, the road north of Crompaun River, east of the R556. Considered that the houses are very vulnerable here. The properties have not as yet flooded, but the rear gardens have.</li> <li>The lawn of the house west of the R556 between the school and the river floods every year, but the house is well elevated and has not flooded.</li> </ul> <b>LA comments</b> <ul style="list-style-type: none"> <li>Not aware on any fluvial issues. May be on the list as AFRR as there are embankments there that may protect properties.</li> <li>No flood history affecting any properties (only land).</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>
	Primary_Weighted_F_S		250
	Monument_LV_Weighted_F_E		20
	<b>Total</b>		<b>344.38</b>
<b>1.7 Stage 1 Evaluation</b>	<b>Aspect</b>	<b>Clearly APSR</b>	<b>Uncertain</b>
	Flood History (1.1)		X
	OPW / LA Information (1.2)		X
	PFRA Evaluation (1.4)		X
	<b>Overall Desktop Evaluation</b> (if any above aspect is uncertain then overall designation is uncertain)		X
<b>1.8 Proposed level of assessment for Stage 2 site visits</b>	<b>Level A Site Visit</b>		X
	<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: 13/05/11</b>		
		<b>Time: 12:00</b>		
<b>Names of inspection team (including OPW/LA staff if present)</b>		<b>Mathieu Valois</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"/>			
	Reasonable representation of site conditions based and comments from local residents. At present the extents at the rear of Lady's Walk are slightly wider than that indicated by local comments on current flood extents.			
<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>	School	North of Crompaun River bridge		Low
<b>2.3 Local knowledge - on-site comments</b> <b>(OPW, LA and any info volunteered by local residents during visit)</b>	<b>Resident of house (and garden/flower business) immediately north of the river (and Crompaun Bridge):</b> <ul style="list-style-type: none"> <li>Front lawn of this property floods 3-4 times per year, at each heavy rainfall event. River water has reached the south-eastern gable of the house twice (about 12 years ago). When the lawn floods, this enters from a land drain and the field to the south of the house floods up to the garden boundary at the house and up just half way through the field to the west of the house (at green houses).</li> </ul> <b>Resident of first house off cross-roads on Lady's Walk:</b> <ul style="list-style-type: none"> <li>Every heavy rainfall event (few times a year), river water reaches up to the field fence posts (not the property's garden fence posts).</li> </ul>			
<b>2.4 Comments on hydraulic constrictions (bridges, etc.) and conveyance routes</b>	Crompaun Bridge			

## 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	X			200			
Property (small retail or business)	20	X			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>120</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> Tidal barrage structures are present downstream.
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## 2.8 Initial Potential Mitigation Measures

<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 checked="" 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 checked="" 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 type="checkbox"/> Asset maintenance <input type="checkbox"/> <b>Relocation of properties:</b> <input type="checkbox"/> <b>Improve existing defences:</b> <input checked="" type="checkbox"/> <b>(describe)</b> Raise embankments <b>Other (describe):</b> Natural storage is available in surrounding lands.

Outcomes				
<b>PFRA Designation</b>	APSR <input type="checkbox"/> not an APSR <input checked="" type="checkbox"/> IRR <input type="checkbox"/>		FRI Score: 344	
<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>	120			
<b>Recommended Designation</b>	APSR <input type="checkbox"/> not an APSR <input checked="" type="checkbox"/> IRR <input type="checkbox"/>			

<p><b>Summary Comments</b> <b>(If required)</b></p>	<p>Several new properties are located behind an embankment on the left bank of the river on the fringe of the floodplain. Flood waters reach the boundary fence of the fields to the rear of these new properties at every heavy rainfall (estimated to be 3-4 times a year). The flood plain is relatively flat at this location and the existing embankments are unlikely to offer protection to these properties in an extreme flood event. However, there is not a high risk of flooding, and there has been no flooding of properties to date, and the number of properties at risk is small (4-5 no.).</p> <p>The school is not considered to be at significant risk, although the inclusion of the school in the FRI score is the primary reason for Dromroe being identified as an AFRR. The removal of the school from the FRI score would result in a low FRI score (94). However, given the flat topography, the presence of the embankments, back drains and downstream tidal barrage, it is apparent that this location may potentially be at risk, although overall the risk is not considered to be significant, particularly in view of the small number of properties (residential and one business) at risk.</p> <p>It is therefore concluded that whilst it is a borderline case, the site should NOT be designated as an APSR.</p>
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**Photo 1:** Looking NE of the River Crompaun, storage channels are located either side of the main channel (note Lady's Walk is located to the north)



**Photo 2:** Crompaun Bridge looking u/s



**Photo 3:** Property located NW of the Crompaun Bridge. This lawn has previously flooded



**Photo 4:** Looking south toward the Crompaun River, property at same level as floodplain (taken from Lady's Walk)



