Location: Kilconnell, Co. Galway		Unique ID: 260463 (from PFRA database)	
Initial OPW Designation	**APSR** ☐	**AFRR** ☒	**IRR** ☐
Co-ordinates	**Easting: 173,198**	**Northing: 231,196**	
River / Catchment / Sub-catchment	**Minor tributaries / Deer Park River / River Suck**		
Type of Flooding / Flood Risk (identify all that apply)	**Fluvial non-tidal** ☒ **Fluvial tidal** ☐ **Coastal** ☐		

Stage 1: Desktop Review

1.1 Flood History (include review of Floodmaps.ie)

River Flow Path
A number of tributaries to the Deer Park River are located within the Kilconnell village boundary.

Flood Event Records
One flood event is recorded on floodmaps.ie relating to flooding upstream of the village at Hillswood.

1.2 Relevant information on flooding issues from OPW and LA staff

PFRA database comments *(in italics)*:

OPW comments
Not designated APSR as failed to reach predictive analysis threshold

LA comments
Houses flooded-Houses under threat-Premises under threat-N18 flooded and impassable. Minor flood mitigating works approved and partly done.

Meeting / discussion summary comments:

OPW comments

- Minor works application for culvert replacement related to a surface water drainage issue

LA comments

- Previous issue in Kilconnell was due to surface water drainage. A 900mm culvert has since been installed to discharge the surface water drainage into the Deer Park River and alleviate these issues (following R348 flooding in 2008 and 2009).

<table>
<tr><td colspan="4">1.4 PFRA Data</td></tr>
<tr><td>1.4.1 PFRA hazard mapping</td><td colspan="3">PFRA mapping available in GIS layer: Yes ☒ No ☐
PFRA mapping included on FRR map: Yes ☒ No ☐</td></tr>
<tr><td rowspan="3">1.4.2 Summary of Principal Receptors</td><td colspan="2">Type</td><td>FRI score (if available)</td></tr>
<tr><td colspan="2">Monument_LV</td><td>30</td></tr>
<tr><td colspan="2">Total</td><td>150</td></tr>
<tr><td rowspan="5">1.7 Stage 1 Evaluation</td><td>Aspect</td><td>Clearly APSR</td><td>Uncertain</td></tr>
<tr><td>Flood History (1.1)</td><td></td><td>X</td></tr>
<tr><td>OPW / LA Information (1.2)</td><td></td><td>X</td></tr>
<tr><td>PFRA Evaluation (1.4)</td><td></td><td>X</td></tr>
<tr><td>Overall Desktop Evaluation
(if any above aspect is uncertain then overall designation is uncertain)</td><td></td><td>X</td></tr>
<tr><td rowspan="2">1.8 Proposed level of assessment for Stage 2 site visits</td><td colspan="2">Level A Site Visit</td><td>X</td></tr>
<tr><td colspan="2">Level B Site Visit</td><td></td></tr>
</table>

Stage 2: Site Inspection	Level A Assessment
Date and Time of Inspection	**Date: 26/05/11** **Time: 09:15**
Names of inspection team (including OPW/LA staff if present)	**Alan Dew** **Peter Smyth**

2.1 Ground-truthing of Hazard Mapping	**Fluvial non-tidal ☒ Fluvial tidal ☐ Coastal ☐ Not available ☐**			
	Risk limited to areas further upstream of Kilconnell rather than the village itself.			
2.2 Spot check ground-truthing of selected receptor vulnerability **(also note any key receptors noted during visit that are not identified by PFRA)**	**Receptor Type**	**Location description (if not obvious)**	**Exists?**	**Overall Vulnerability / Risk (L / M / H)**
	No receptors at risk from fluvial flooding.			
2.3 Local knowledge - on-site comments **(OPW, LA and any info volunteered by local residents during visit)**	No on-site comments.			
2.4 Comments on hydraulic constrictions (bridges, etc.) and conveyance routes	Number of drainage ditches noted, no watercourses of note observed.			

2.5 SVRS Assessment Matrix

Weightings:
A - x1 - reasonable expectation of flooding
B - x2 - high expectation of flooding
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			

Total SVRS	**0**

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 ☐

Outfalls
Flapped outfall(s) into watercourse ☐ Unflapped outfall(s) into watercourse ☐
i.e. from smaller watercourses, drains etc. into river / estuary / sea
Tidal flap(s) ☐ Tidal sluice(s) ☐
i.e. from main watercourse into estuary / sea

	Other Pumping Station ☐ Erosion Protection ☐ Sand Dunes ☐ **Additional notes (if required):**
2.8 Initial Potential Mitigation Measures	
Non-structural measures	Planning and Development control ☐ Sustainable Urban Drainage Systems ☐ Flood forecasting / warning ☐ Change in Operating Procedures for water level control: ☐ Public awareness campaign ☐ Individual property protection ☐ Land use management ☐
Structural measures	**Strategic development management for floodplain development:** ☐ *(integration of measures into strategic development proposals)* **Storage:** On-line ☐ Off-line ☐ **Flow diversion:** Flood relief channel ☐ Flood relief culvert ☐ **Increase conveyance:** Bridge works ☐ Channel works ☐ Floodplain ☐ **Flood defences:** Walls ☐ Embankments ☐ **Localised works:** Defence raising ☐ In-fill gaps ☐ Trash screen ☐ **Maintenance works:** Culvert / channel clearance ☐ Asset maintenance ☐ **Relocation of properties:** ☐ **Improve existing defences:** ☐ **(describe)** **Other (describe):**

Outcomes				
PFRA Designation	**APSR** ☐ **not an APSR** ☒ **IRR** ☐		**FRI Score:** 150	
Site Ground-truthing of PFRA Assessment *(hazard mapping and receptors)*	**High Confidence (good)**	**Uncertain**	**Low Confidence (poor)**	**Not available**
	X			
Site Visit Review Score	**0**			
Recommended Designation	**APSR** ☐ **not an APSR** ☒ **IRR** ☐			
Summary Comments (if required)	Historic flood records for Kilconnell relate to surface water flooding. There are no receptors at risk from fluvial flooding and therefore Kilconnell is not recommended for designation as an APSR.			

Photo1: Minor tributary looking downstream from minor road to the north-west of the village centre.