

| | | | |
|---|--|--|-------------------------------------|
| Location: Strokestown, Co. Roscommon | | Unique ID: 264007 (from PFRA database) | |
| Initial OPW Designation | APSR <input type="checkbox"/> | AFRR <input checked="" type="checkbox"/> | IRR <input type="checkbox"/> |
| Co-ordinates | Easting: 193068 | Northing: 280814 | |
| River / Catchment / Sub-catchment | Tributary of Mountain River / Shannon | | |
| Type of Flooding / Flood Risk (identify all that apply) | Fluvial non-tidal <input checked="" type="checkbox"/> Fluvial tidal <input type="checkbox"/> Coastal <input type="checkbox"/> | | |

| | |
|--|--|
| Stage 1: Desktop Review | |
| 1.1 Flood History (include review of Floodmaps.ie) | <p>River Flow Path</p> <p>The river flows through the south of the town in a west to east direction. Several small Loughs and watercourses are also situated to the west of Strokestown.</p> <p>The river is crossed by Bridge Street, south of Strokestown.</p> <p>Flood Event Records</p> <p>Four flood events are listed in floodmaps.ie. These events are undated. These are associated with flooding of roads near Strokestown.</p> |
| 1.2 Relevant information on flooding issues from OPW and LA staff | <p>PFRA database comments (<i>in italics</i>):</p> <p>OPW comments <i>Not designated APSR as failed to reach predictive analysis threshold</i></p> <p>LA comments <i>Kilglass lakes affecting a wide area Low lying, property flooded regularly Study being carried out by LA</i></p> <p>Meeting / discussion summary comments:</p> <p>OPW comments</p> <ul style="list-style-type: none"> • There is a mini hydro-electric scheme at Strokestown house. • Surface water drainage is an issue in the village and the N5 is low lying and could be at risk of flooding. <p>LA comments</p> <ul style="list-style-type: none"> • River is canalised through Strokestown house, with water levels controlled for power generation. • Strokestown did not flood in 2009. Roscommon County Council has commissioned a report on Strokestown. • There is an underground water issue with water entering the catchments from the west. |

| | | | |
|---|---|---|-----------------------------|
| 1.4 PFRA Data | | | |
| 1.4.1 PFRA hazard mapping | PFRA mapping available in GIS layer: | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| | PFRA mapping included on FRR map: | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| 1.4.2 Summary of Principal Receptors | Type | FRI score (if available) | |
| | Receptors not considered as part of the PFRA process. FRI score not calculated in PFRA. | | |
| 1.7 Stage 1 Evaluation | Aspect | Clearly APSR | Uncertain |
| | Flood History (1.1) | | X |
| | OPW / LA Information (1.2) | | X |
| | PFRA Evaluation (1.4) | | X |
| | Overall Desktop Evaluation (if any above aspect is uncertain then overall designation is uncertain) | | X |
| 1.8 Proposed level of assessment for Stage 2 site visits | Level A Site Visit | X | |
| | Level B Site Visit | | |

| | | | | |
|---|--|--|----------------|---|
| Stage 2: Site Inspection | | Level A Assessment | | |
| Date and Time of Inspection | | Date: 12/05/11 | | |
| | | Time: 09:00 | | |
| Names of inspection team (including OPW/LA staff if present) | | Peter Smyth | | |
| | | James Murray | | |
| | | | | |
| | | | | |
| 2.1 Ground-truthing of Hazard Mapping | Fluvial non-tidal <input checked="" type="checkbox"/> Fluvial tidal <input type="checkbox"/> Coastal <input type="checkbox"/> Not available <input type="checkbox"/> | | | |
| | PFRA hazard mapping appears to be reasonable for Strokestown | | | |
| 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) |
| | Strokestown house | East of town | Yes | Low |
| 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 | Some culverts over the river, south of the town, and near Strokestown house are slightly under capacity but all have significant natural floodplains adjacent. Large floodplain upstream of Strokestown. | | | |

| 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 | X | | | 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 | | | | | | | | 10 | | | | |
| 2.6 Defence Assets | | | | | | | | | | | | |
| Formal and Informal Flood Defence Assets <i>(include effective and ineffective assets to inform asset survey and potential mitigation measures)</i> | Open Channel Watercourses Man-made river channel <input type="checkbox"/> Flood relief channel <input type="checkbox"/> Canal <input type="checkbox"/> Mill leat <input type="checkbox"/> Drainage channels / back drains <input type="checkbox"/> | | | | | | | | | | | |
| | Bridges and Culvert crossings Single Arch bridge <input type="checkbox"/> Multi-Arch bridge <input type="checkbox"/> Single Span bridge <input type="checkbox"/> Multi-Span bridge <input type="checkbox"/> Box culvert(s) <input type="checkbox"/> Pipe culvert(s) <input type="checkbox"/> Arch Culvert(s) <input type="checkbox"/> | | | | | | | | | | | |
| | Culverted Watercourses (culvert length is greater than just a crossing) Box culvert(s) <input type="checkbox"/> Pipe culvert(s) <input type="checkbox"/> Arch Culvert(s) <input type="checkbox"/> Irregular Culvert(s) <input type="checkbox"/> | | | | | | | | | | | |
| | Walls and Embankments Embankment(s) <input type="checkbox"/> Raised wall(s) <input checked="" type="checkbox"/> Retaining wall(s) <input type="checkbox"/> | | | | | | | | | | | |
| | Control Structures – weirs, gates, dams Fixed crest weir <input type="checkbox"/> Adjustable weir <input type="checkbox"/> Dam / Barrage <input type="checkbox"/> Sluice gates <input type="checkbox"/> Lock gates <input type="checkbox"/> Radial gates <input type="checkbox"/> | | | | | | | | | | | |
| | Storage On-line storage (natural) <input type="checkbox"/> On-line storage (artificial) <input type="checkbox"/> Off-line storage <input type="checkbox"/> | | | | | | | | | | | |
| | Outfalls 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> | | | | | | | | | | | |

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

| | | | | |
|--|--|-------------------------------------|-------------------------------------|-----------------------------|
| <p>Outcomes</p> | | | | |
| <p>PFRA Designation</p> | <p>APSR <input type="checkbox"/> not an APSR <input checked="" type="checkbox"/> IRR <input type="checkbox"/></p> | <p>FRI Score: Not scored</p> | | |
| <p>Site Ground-truthing of PFRA Assessment (hazard mapping and receptors)</p> | <p>High Confidence (good)</p> | <p>Uncertain</p> | <p>Low Confidence (poor)</p> | <p>Not available</p> |
| | <p>X</p> | | | |
| <p>Site Visit Review Score</p> | <p>10</p> | | | |
| <p>Recommended Designation</p> | <p>APSR <input type="checkbox"/> not an APSR <input checked="" type="checkbox"/> IRR <input type="checkbox"/></p> | | | |
| <p>Summary Comments (if required)</p> | <p>There are an insufficient number of critical receptors at significant risk of flooding within Strokestown, to warrant its designation as an APSR.</p> | | | |



Photo1: View looking downstream towards Strokestown House.



Photo 2: View looking upstream south of town centre.

