

Addendum Report (October 2017) - Preliminary Flood Risk Assessment Review of 1st Cycle 2017 – 2023.

Update to the preliminary flood risk assessment report for Powys County Council.

The preliminary flood risk assessment (PFRA) for Powys County Council was reviewed during 2017, and agreed with Natural Resources Wales on 27 October 2017.

The below statements describe the review of the assessment of risk since the preliminary assessment report was published in 2011.

Past flood risk

There has been a review of flooding experienced since the publication of the first Preliminary Flood Risk Assessment Report in 2011 and this found that the following flood events led to locally significant harmful consequences in the following locations:

1. **Ystradgynlais** (various locations in and around town). Internal flooding of domestic and commercial property as a consequence of a flash flood on 3rd September 2016, to depths of 0.15m. 12no. Residential and 3no. Commercial properties internally flooded, plus 30 other Residential properties (approx.) were close to having thresholds being overtopped. Main source of flooding arising from various Ordinary Watercourses (primarily culvert inlets), with additional surface water run-off and sewer surcharge. Mechanism of flooding through natural exceedance but invariably exacerbated by debris blockage or restriction.
2. **Llanfyllin** (Brook Street and High Street). Internal flooding of domestic and commercial property as a consequence of a flash flood on 3rd December 2012, to depths up to 0.2m. 7no. Residential and 3no. Commercial properties internally flooded. Main source of flooding arising from Ordinary Watercourse (Nant Abel), exacerbated by blockage or restriction on culvert inlet and other upstream flood defence mechanisms.
3. **Cwmbach/Glasbury**. Internal flooding of domestic property as a consequence of flash flooding on 1st May 2012. Approximately 9no. Residential properties internally flooded. Main source of flooding arising from Ordinary Watercourse. Mechanism of flooding through natural exceedance but invariably exacerbated by debris blockage or restriction.

Future flood risk

The following information has been identified since the publication of the first Preliminary Flood Risk Assessment Report in 2011 that has led to a change in understanding of future flood risk:

Welshpool (Lledan Brook), originally 15 properties identified at risk or had been flooded. Modelling showed approximately 148 properties to be at risk from the 1 in 100yr +cc. Through a phased approach, FAS work (Phases 1 and 2) has progressed, thereby raising the Standard of Protection (SoP) to the majority of properties shown at risk. Detailed Design work on the final phase (Phase 3) is currently progressing.

Kerry village, originally 8 properties identified at risk or had been flooded. Modelling work had identified 36 properties at risk in the 1 in 100 year +cc event. FAS work since been completed, providing a raised SoP to those properties identified.

Tregynon village, 42 properties were originally identified as being affected, whereas the PAS identified 50. FAS work has since been undertaken, providing a raised SoP to those properties.

Talgarth (River Enig), originally 17 properties identified as being flooded, whereas PAS has identified 28 (1 in 100yr +cc). Additional PAS work on Talgarth Phase 3 (lower Bronllys Road) is currently progressing. Early indications have identified several additional properties at risk. FAS work has progressed in Talgarth on Phases 1a, b & c, providing a raised SoP. Further planned FAS work (Phase 2) is to progress. Progression on any FAS work in the Phase 3 area will be subject to funding.

Additional PAS work is progressing at Llanspyddid, Pontfaen (Knighton) and Lower Cwmtwrch (Ystradgynlais). Flood modelling outputs for these schemes is still to be confirmed.

Flood risk areas (FRAs)

The cycle 1 FRAs in Wales will be reviewed as part of a detailed consolidated PFRA that will cover all sources of flood risk by 22nd December 2018.