

## 34 Llandovery Ward, Nant Bawddwr Policy Unit

### 34.1 Area Description

The Nant Bawddwr Policy Unit comprises the catchment of the Nant Bawddwr, south of the railway embankment. This section of the watercourse is an Ordinary Watercourse that flows through the town of Llandovery.

Llandovery is situated in rural Carmarthenshire approximately 50km to the north-east of the county town of Carmarthen. It is a market town which has developed on the flood plains of four rivers - the Tywi, Brân, Gwydderig and Bawddwr. The A40 and A483 trunk roads, as well as the A4069, all cross these rivers at this location.

### 34.2 Why is this area a Flood Risk Policy Unit?

The uFMfSW (EA, 2013) highlights this area to be at risk of flooding. These surface water flood maps are useful in highlighting the flood risk from small watercourses.

A significant part of the fluvial flow comes from the Main River Bawddwr to the north of Llandovery. The flow control structure at this point is in a state of disrepair.

The Nant Bawddwr is culverted though the majority of Llandovery and culverts have a high risk of blockage. The culvert passes through private ownership and therefore there are varying states of repair, construction and size. Our inspections of the culvert have highlighted poor condition with large build ups of silts, general rubbish and utility apparatus impeding flows.

### 34.3 Flooding Events

- 1979: Major flooding from the River Bran
- 1987: Major flooding from the River Bran
- 1998: Major flooding from the River Bran
- 2003: Flooding of properties at Broad Street
- 2013: Flooding of properties due to blockage in the culvert

CCC are aware that there have been numerous flooding events attributed to issues on the Nant Bawddwr but have no records of these flooding events.

### 34.4 Flood Defence Capital Works undertaken by CCC

- 2010: Modifications were undertaken to the bridge at Pont Aur, Cillywm Road
- 2013: Diving sub-contractors entered culvert to remove debris at the A483, Llanfair Road
- 2013: Culvert repairs and debris removal were undertaken at Victoria Crescent and Stone Street

### 34.5 Flood Defence Capital Works undertaken by Partner Organisations

2003: Llandovery Flood Alleviation Scheme was completed by National River Authority. This included re-alignment of the river channel upstream of main road bridge, bank protection and the construction of flood embankments and flood walls.

### 34.6 Flood Defence Assets

Llys Llanfair Trash Screen		
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### 34.7 Routine Works and Maintenance

Area	Works Undertaken	When
Llys Llanfair trash screen	T98 inspection	Annually
	Debris Management	Monthly (summer) Weekly (winter)

### 34.8 Proposed Future Works

We will continue to support the South Wales Trunk Road Agency (SWTRA) in their attempts to implement a solution to manage flows through the culvert.

Studies have shown that the diversion of flows above Llandovery can considerably reduce flood risk at Cillycwm Road and in Llandovery from flooding from the Nant Bawddwr.

### 34.9 Flood Risk

#### 34.9.1 Map 1: Total Properties

Map 1 over the page displays data on the total number of properties at risk of flooding. Total properties can include dwellings, garages, commercial premises, industrial premises and similar structures.

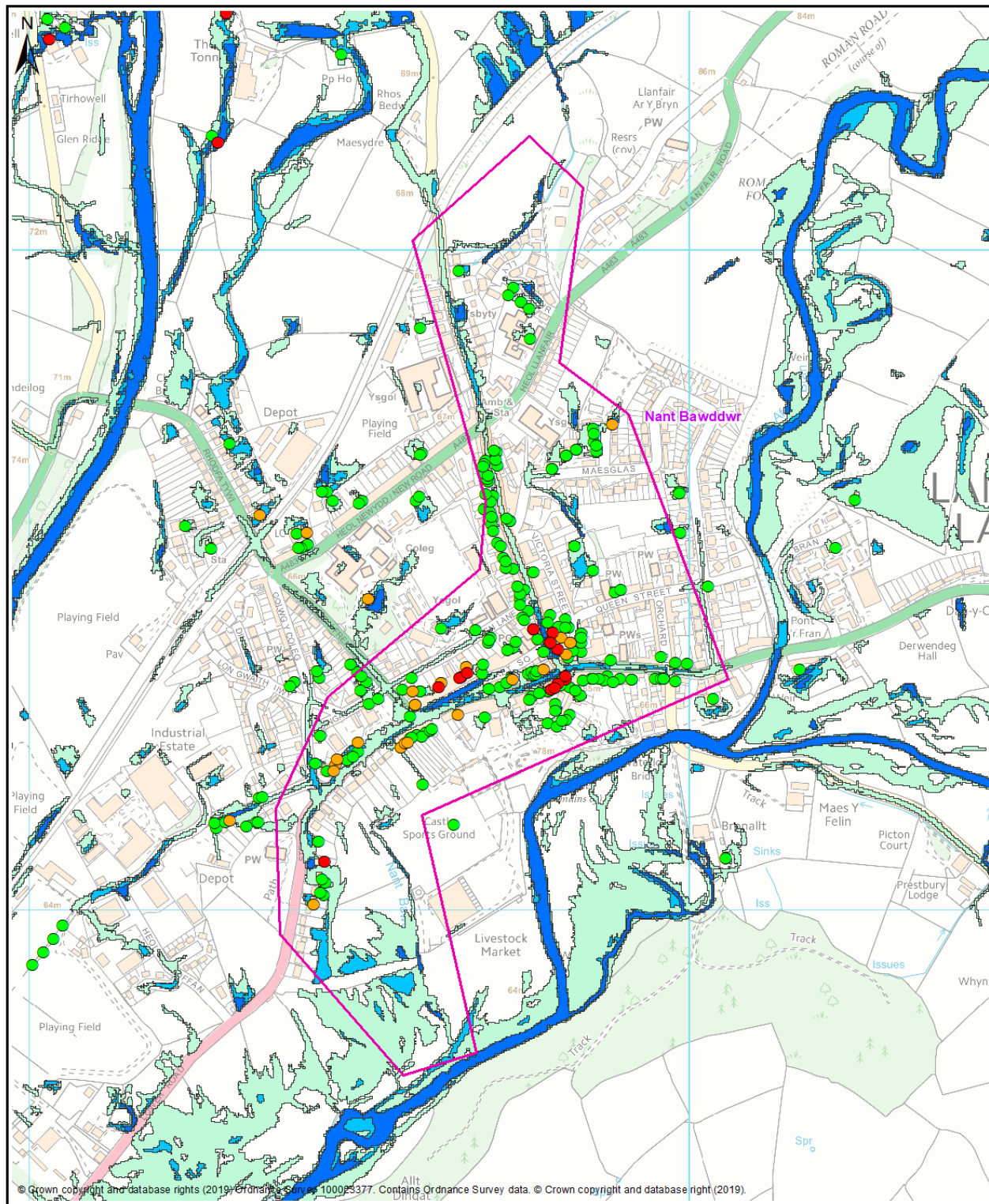
#### 34.9.2 Map 2: Dwellings and Services

Map 2 below displays data on the residential properties and services at risk of flooding.

#### 34.9.3 Map 3: Community at Risk Register (CaRR)

This is the most recent flood mapping from Welsh Government. This dataset depicts all properties at risk of pluvial (surface water) flooding in a storm event with a 1 in 100 probability.

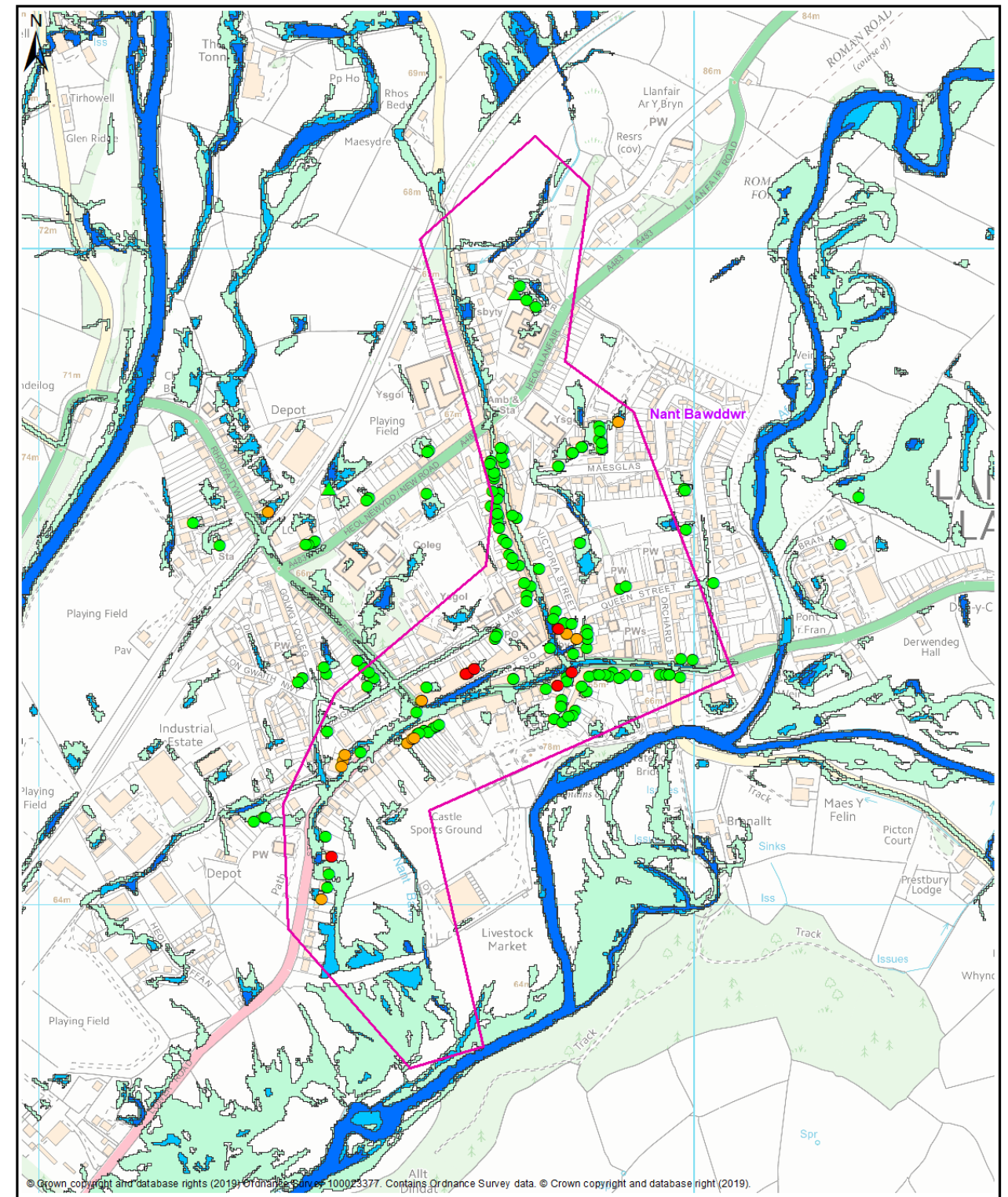
	Number of specified units at risk of flooding		
	1 in 30 probability storm event	1 in 100 probability storm event	1 in 1000 probability storm event
Map 1 Total Properties	15	41	212
Map 2 Dwellings and Services	7	22	141
Map 3 CaRR	n/a	5	n/a



Map 1 - All Properties

Legend

- Policy Unit
- uFMFSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
- uFMFSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
- uFMFSW Q1000 Surface Water Flood Outline 1 in 1000 Probability Storm Event
- Q30 All Property Classes Flood Depth 150mm or Greater
- Q100 All Property Classes Flood Depth 150mm or Greater
- Q1000 All Property Classes Flood Depth 150mm or Greater

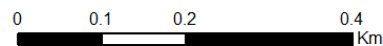


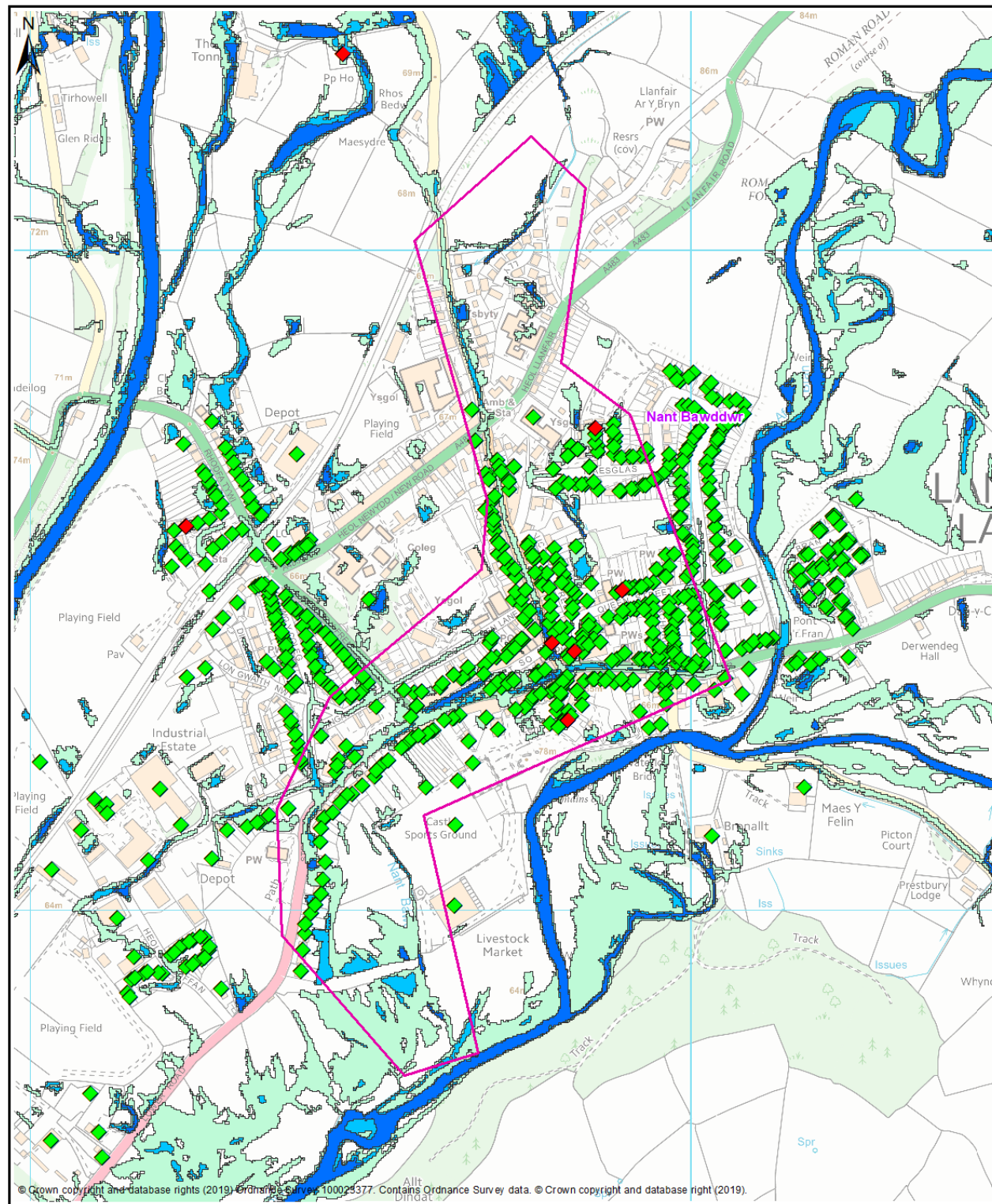
Map 2 - Dwellings and Services

Legend

- Policy Unit
- uFMFSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
- uFMFSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
- uFMFSW Q1000 Surface Water Flood Outline 1 in 1000 Probability Storm Event
- ▲ Q30- Dwellings Flood Depth 150mm or Greater
- ▲ Q100- Dwellings Flood Depth 150mm or Greater
- Q1000- Dwellings Flood Depth 150mm or Greater
- ▲ Q30- Services Flood Depth 150mm or Greater
- ▲ Q100- Services Flood Depth 150mm or Greater
- ▲ Q1000- Services Flood Depth 150mm or Greater

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Map 3 - Communities at Risk Register

- Legend**
- Policy Unit
  - uFMISW Q30  
Surface Water Flood Outline  
1 in 30 Probability Storm Event
  - uFMISW Q100  
Surface Water Flood Outline  
1 in 100 Probability Storm Event
  - uFMISW Q1000  
Surface Water Flood Outline  
1 in 1000 Probability Storm Event
  - ◆ CARR Pluvial
  - ◆ CARR Fluvial

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