

37 Llangunor Ward, Pensarn Policy Unit

37.1 Area Description

The Pensarn Policy Unit is situated on the South Bank River Tywi at Carmarthen and comprises mainly retail units. The area is made up of floodplain and defended by flood defence wall.

Problems have occurred when the river is in flood and surface water is unable to flow to the Tywi. The River Tywi can remain at a raised level for several days preventing surface water from discharging, requiring pumping to prevent flooding.

37.2 Why is this area a Flood Risk Policy Unit?

The uFMfSW (EA, 2013) highlight this area to be at risk of flooding. These surface water flood maps are useful in highlighting the flood risk from small watercourses. The surface water flood maps will underestimate the flooding in this area because it does not account for the interaction between the Main River and the Surface Water flows.




37.3 Flooding Events

This area has been subject to flooding on a regular basis but only occurs when the Main River Tywi is in flood. The most extensive was in 1987 when the Tywi overtopped the flood defence and the area was flooded to a depth approaching 2m.

In 2018 extensive flooding occurred in Pensarn with a section of the wall being overtopped, no dwellings were flooded (excluding cellar flooding) but several businesses were affected.

In the 2004 flood it was identified that water had been able to enter a culvert on the river side of the flood defence and flow through this under the flood defence wall, this has been rectified but there are likely to be other sources of flow from the river.

There is a permanent pump installed adjacent to Carmarthen Bridge but in October 2018 this was insufficient to prevent flooding.

		
Flooding on Pensarn Road 2004	River Tywi in flood with Flood Pump in action in background	1987 Floods (Main River)

37.4 Flood Defence Capital Works undertaken by CCC

In Collaboration with EA, installation of a flood pump adjacent to Carmarthen Bridge.

37.5 Flood Defence Assets

Flood Defence Wall NRW.

Pensarn Pumping Station- Installed by Environment Agency and passed to Carmarthenshire County Council.

37.6 Routine Works and Maintenance

Area	Works Undertaken	When
Pensarn	Service Pump	Annually

37.7 Proposed Future Works

Evaluate the combined flood risk to this area and pump requirements/ capacity.

Liaise with NRW to identify any leakage from river side of Defence to landward side.

37.8 Flood Risk

37.8.1 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.

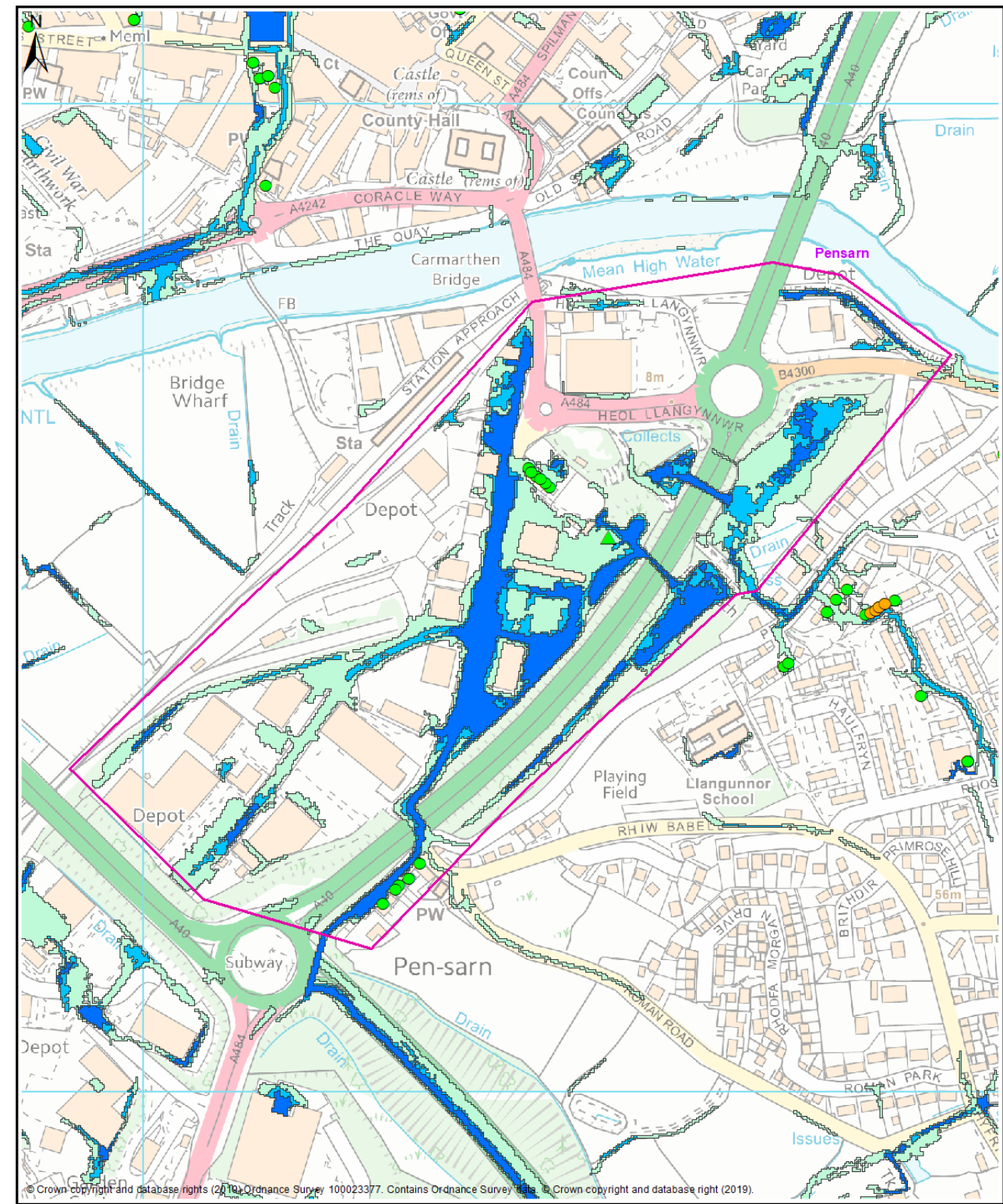
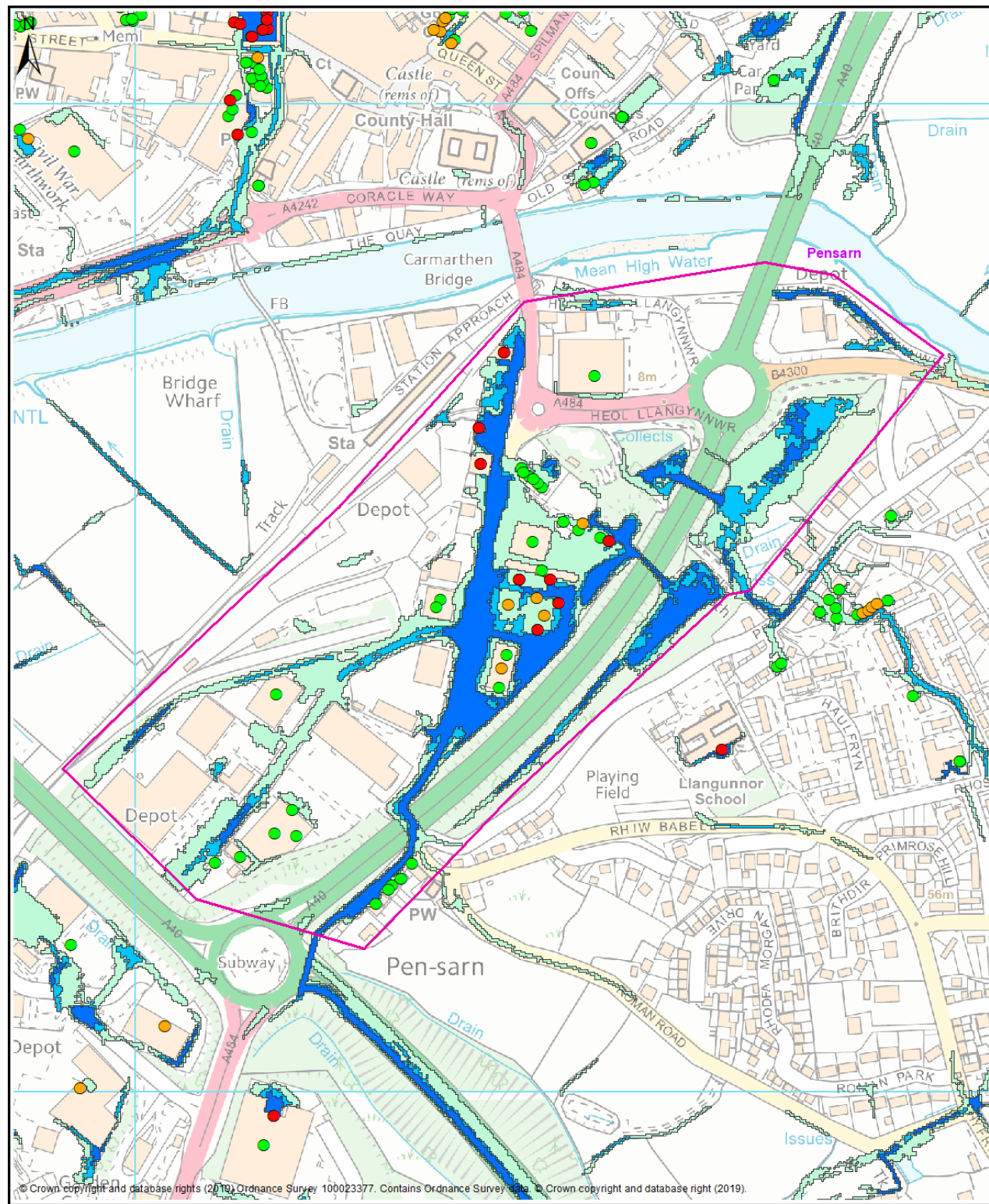
37.8.2 Map 2: Dwellings and Services

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

37.8.3 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	10	15	42
Map 2 Dwellings and Services	0	0	12
Map 3 CaRR	n/a	8 Pluvial 2 Fluvial	n/a

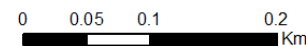


Map 1 - All Properties

Legend

- Policy Unit
- uFMSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
- uFMSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
- uFMSW 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

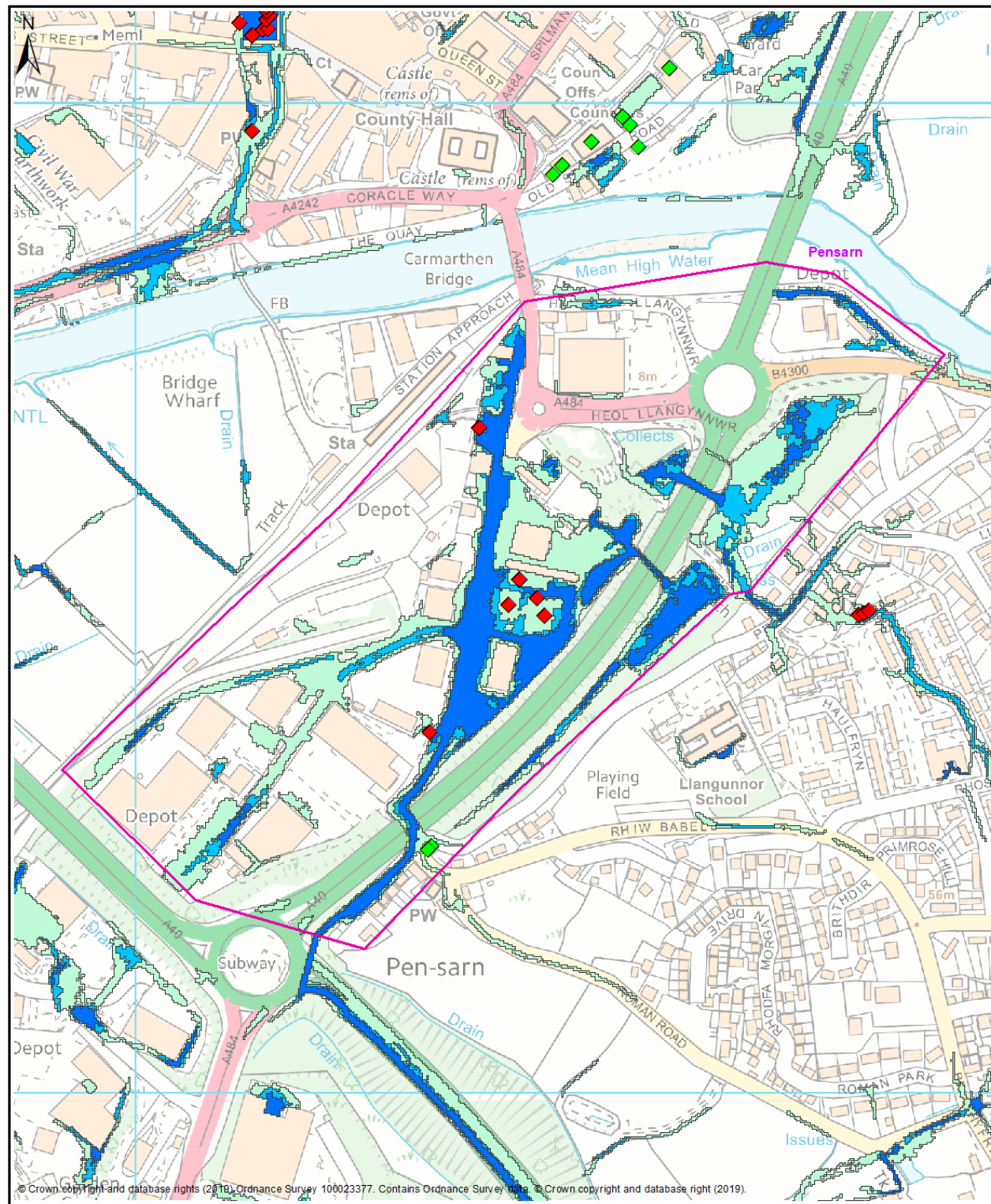
Llangunor Ward
Pensarn Policy Unit



Map 2 - Dwellings and Services

Legend

- Policy Unit
- uFMSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
- uFMSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
- uFMSW 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



Map 3 - Communities at Risk Register

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

Llangunor Ward
Pensarn Policy Unit

