

9 Burry Port Ward, New Street Policy Unit

9.1 Area Description

The New Street Policy Unit comprises the catchment associated with the Nant Dyfatty ordinary watercourse. This watercourse originates north of Burry Port on Mynydd Pen-bre. It flows initially in a natural open watercourse until reaching the Pemberton Arms. At the Pemberton Arms trash screen the watercourse splits into a natural watercourse and a flood relief channel. Low level flows will continue along the natural watercourse to a second trash screen (the Dolau Sluice) at Memorial Park while excess water is diverted to a 1500mm diameter relief culvert via low level weir which follows the footpath to the park. At Memorial Park the culvert increases in diameter to 1800mm and continues south along the old tramway to Bridge Street. From here it passes under Station Road until it joins with the relief culvert and discharges into Burry Port Harbour. At Memorial Park there is a chamber on the relief culvert that will discharge extremely high flows under the park eastwards. There is also another extreme event overflow culvert that takes water through Burry Port.

9.2 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.

The predominant risk in this Policy Unit is a blockage of the trash screens or culverts causing flooding. Previous incidents have highlighted that flood flows will follow the topography and flood Memorial Park and overflow towards New Street. There is also a very minor effect of the Marina outfall becoming surcharged due to a high tide, but this is negligible.

The surface water flood maps also show water being conveyed by the local highway network which could also compound the flooding if the highway drainage became blocked or was over capacity.

9.3 Flooding Events

- 1983: residential properties flooded but the details of the event have been lost.
- 1995: The New Street area of Burry Port was badly affected as a result of a blockage of the inlet trash screen at Pemberton Arms.

9.4 Flood Defence Capital Works undertaken by CCC

- 1997: Pemberton Arms trash screen upgraded.
- 1998: Dolau Sluice trash screen upgraded.
- 1999: Earth bunds were constructed around Memorial Park to contain any flood water that escapes from the culverts.

9.5 Flood Defence Assets

Pemberton Arms Trash Screen	Dolau Sluice Trash Screen	Nant Dyfatty Watercourse (Riverside – Dolau Sluice)
Dolau Sluice Penstock	Dolau Sluice Overflow Chamber	Dolau Sluice 1200 Intermediate Culvert
Dolau Sluice Penstock Box Culvert	Dolau Sluice Overflow Chamber	Dyffaty Terrace Outfall
Memorial Park Flood Embankment		

9.6 Routine Works and Maintenance

Area	Works Undertaken	When
Nant Dyfatty	Watercourse trashing and grass cutting	Annually
Dolau Sluice & Pemberton Arms Trash Screens	Formal T98 Inspection	Annually
	Debris management	Weekly in the winter Monthly in the summer
All Culverts	CCTV camera survey	2018
Dolau Sluice Penstock	TBC	TBC
Dyffaty Terrace Outfall	Formal T98 Inspection	Annually
Memorial Park Flood Embankment	Formal T98 Inspection	Annually
	Vegetation management	Annually

9.7 Proposed Future Works

Desilt culvert beneath Memorial Park.

Evaluate options for invasive species management along the Nant Dyfatty.

9.8 Flood Risk

9.8.1 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.

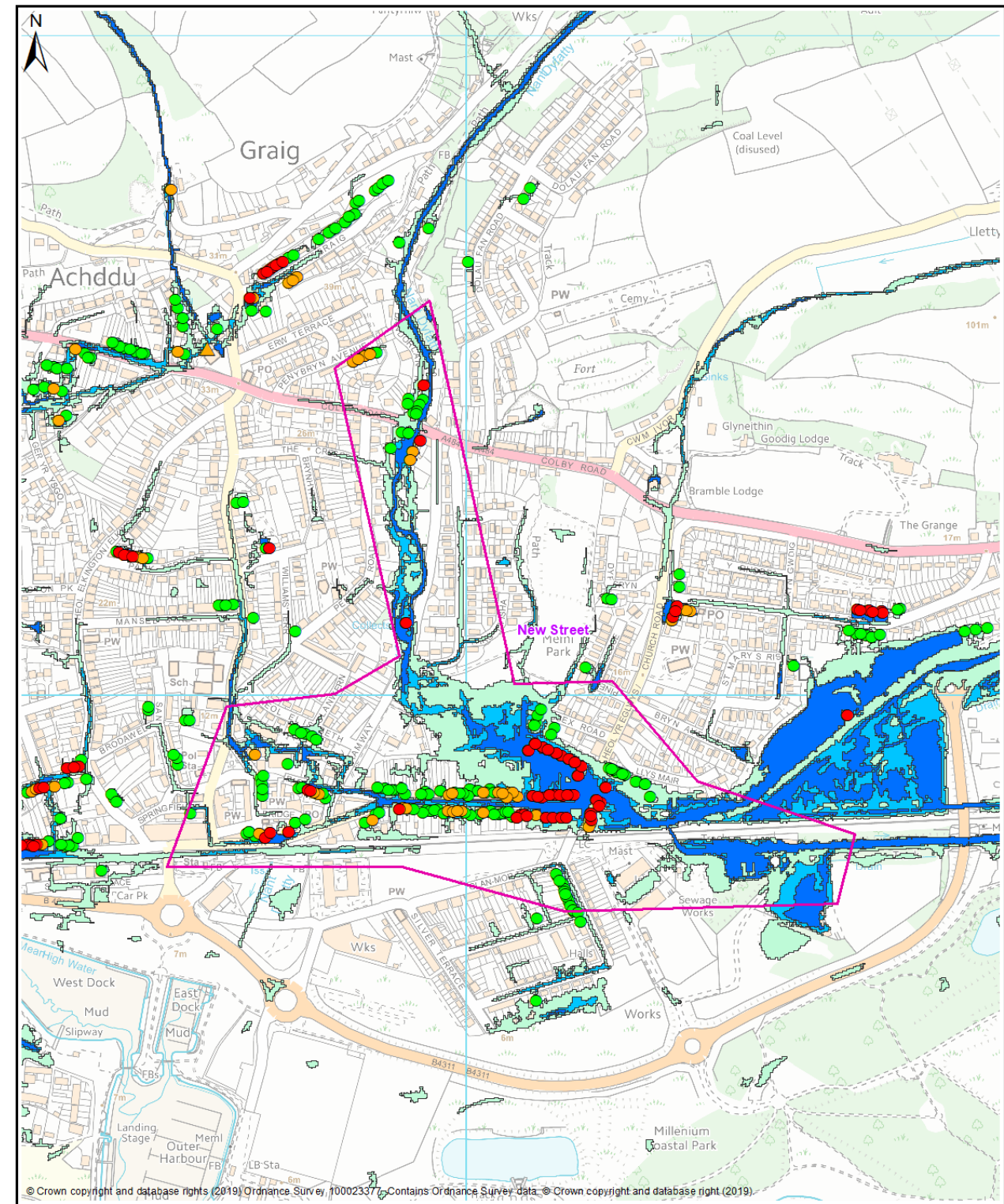
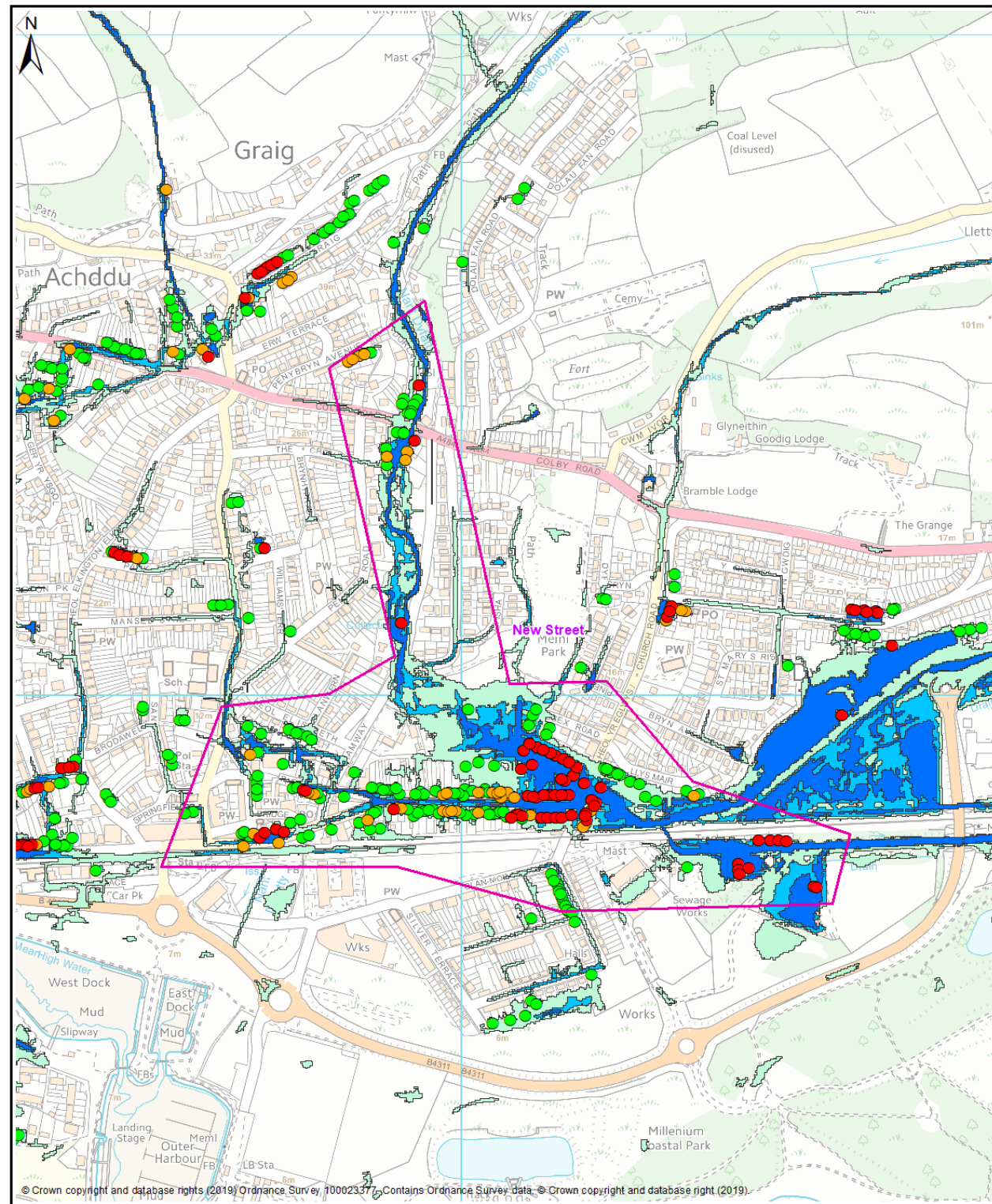
9.8.2 Map 2: Dwellings and Services

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

9.8.3 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.

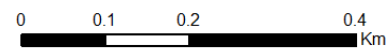
	Number of specified units at risk of flooding		
	1 in 30 probability storm event	1 in 100 probability storm event	1 in 1000 probability storm event
Map 1 Total Properties	77	115	255
Map 2 Dwellings and Services	60	90	206
Map 3 CaRR	n/a	61	n/a



Map 1 - All Properties

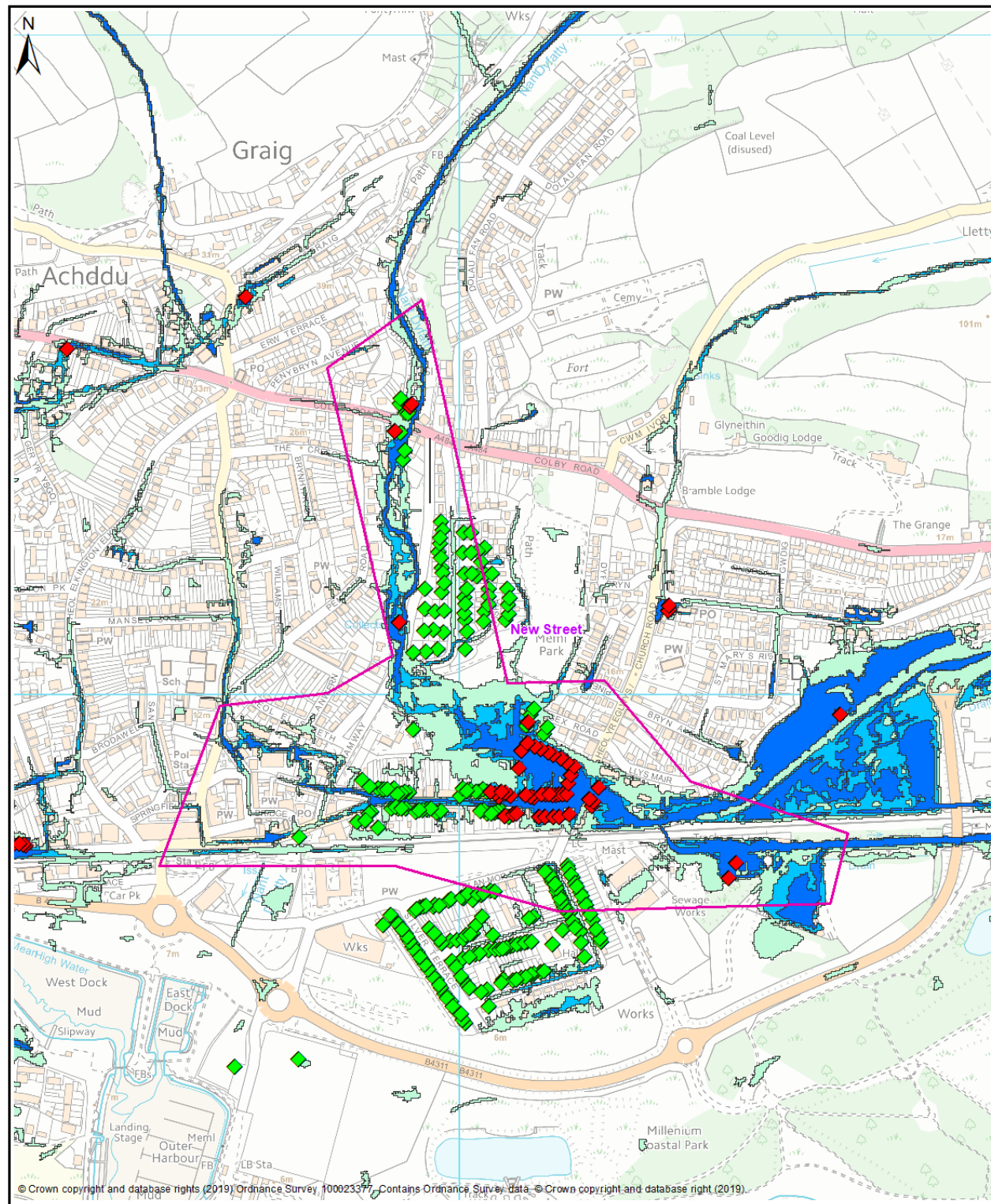
- Legend**
- Policy Unit
 - uFMSW Q30 Surface Water Flood Outline 1 in 30 Probability Storm Event
 - uFMSW Q100 Surface Water Flood Outline 1 in 100 Probability Storm Event
 - uFMSW Q1000 Surface Water Flood Outline 1 in 1000 Probability Storm Event
 - Q30 All Property Classes Flood Depth 150mm or Greater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

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New Street Policy Unit**



Map 2 - Dwellings and Services

- Legend**
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 - 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
 - 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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