

16 Dafen Ward, Exchange Row Policy Unit

16.1 Area Description

The Exchange Row Policy Unit is a single residential street adjacent to the A4138 and B4303 roundabout in the village of Dafen, north of Llanelli. This area is at risk of flooding from the small unnamed watercourse that drains the neighbouring agricultural land and the urban Penceiliog/ Cefenceau estates.

The watercourse and drainage arrangements were modified during the reconstruction of the A4138 in the 1980s. The A4138 profile has resulted in properties in Exchange Row being in a shallow bowl. Flooding at this location occurs because water cannot escape through the drainage system.

16.2 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 Communities at Risk Register indicates that 138 properties are at risk of flooding from pluvial and fluvial sources.




16.3 Flooding Events

- 2000: Flooding of several properties caused by blockage of the trash screen
- 2005: Flooding due to a blockage of the trash screen
- 2008: Extensive flooding of 20 properties as a result of trash screen blockage

16.4 Flood Defence Capital Works undertaken by CCC

- 2009: A large trash screen was constructed upstream of the Dafen roundabout
- 2010: A new tandem trash screen was constructed north east of the former Avon Inflatables Factory
- 2003: The height of the walls alongside the right bank of the watercourse and B4138 upstream of the trash screen were increased
- 2005: A flood bund was constructed along the right bank of the watercourse upstream of the above mentioned wall

16.5 Flood Defence Assets

Dafen Trash Screen Upper (at entrance to former Avon Inflatables)	River wall alongside B4148	Dafen Roundabout Trash Screen
		
River Dafen Earth Bund	River Dafen Left Bank Kerb Wall	River Dafen Right Bank Kerb Wall
Exchange Row Culvert		

16.6 Routine Works and Maintenance

Area	Works Undertaken	When
Watercourse	Watercourse trashing and grass cutting	Annually
All Trash Screens	Formal T98 Inspection	Annually
	Debris management	Weekly in the winter Monthly in the summer
Exchange Row Culvert	CCTV camera survey	2020
River Dafen Earth Bund	Formal T98 Inspection	Annually
River Dafen Kerb Walls	Formal T98 Inspection	Annually

16.7 Proposed Future Works

Undertake routine repairs and maintenance of Exchange Row culvert as identified in 2018 CCTV survey.

16.8 Flood Risk

16.8.1 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.

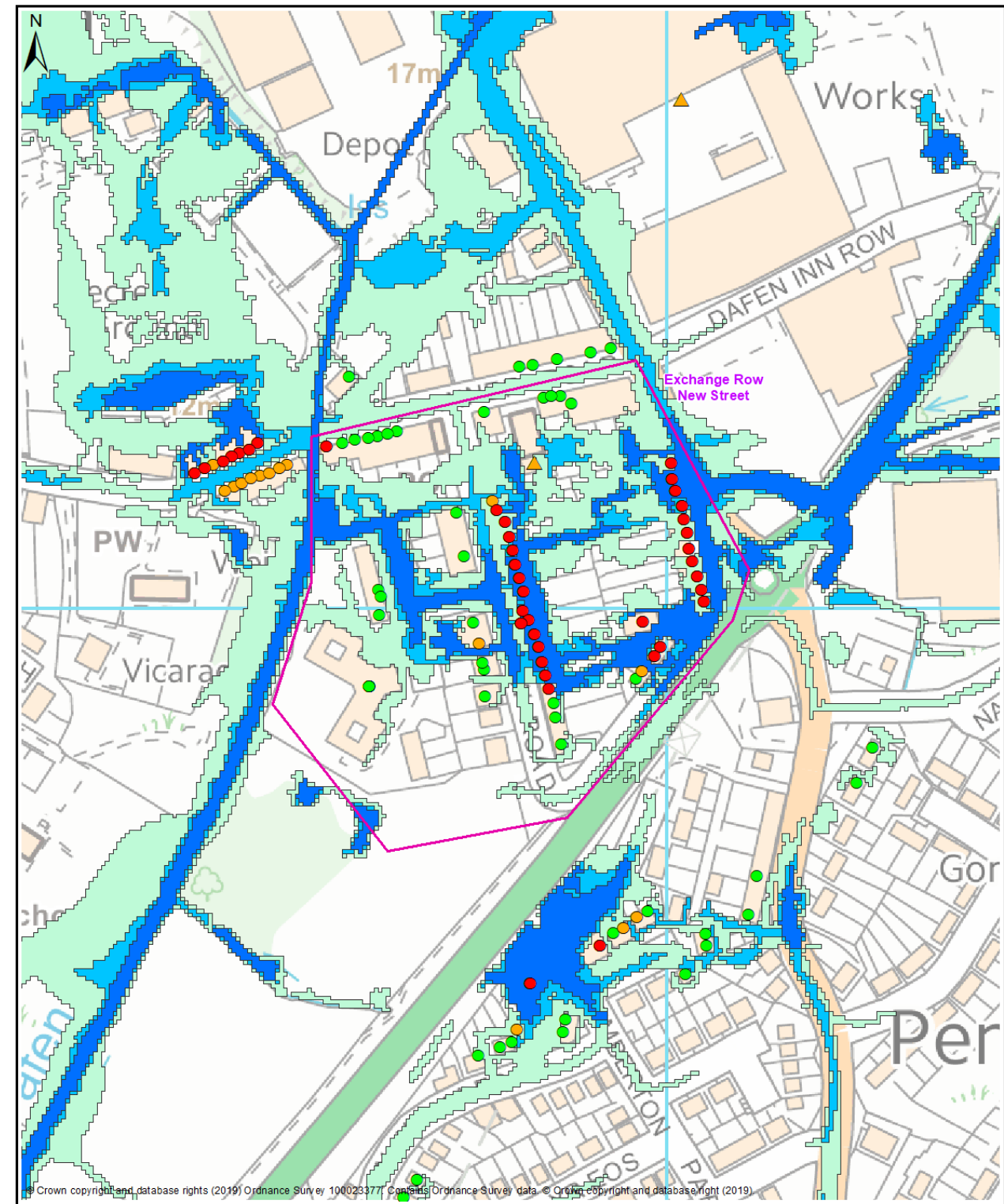
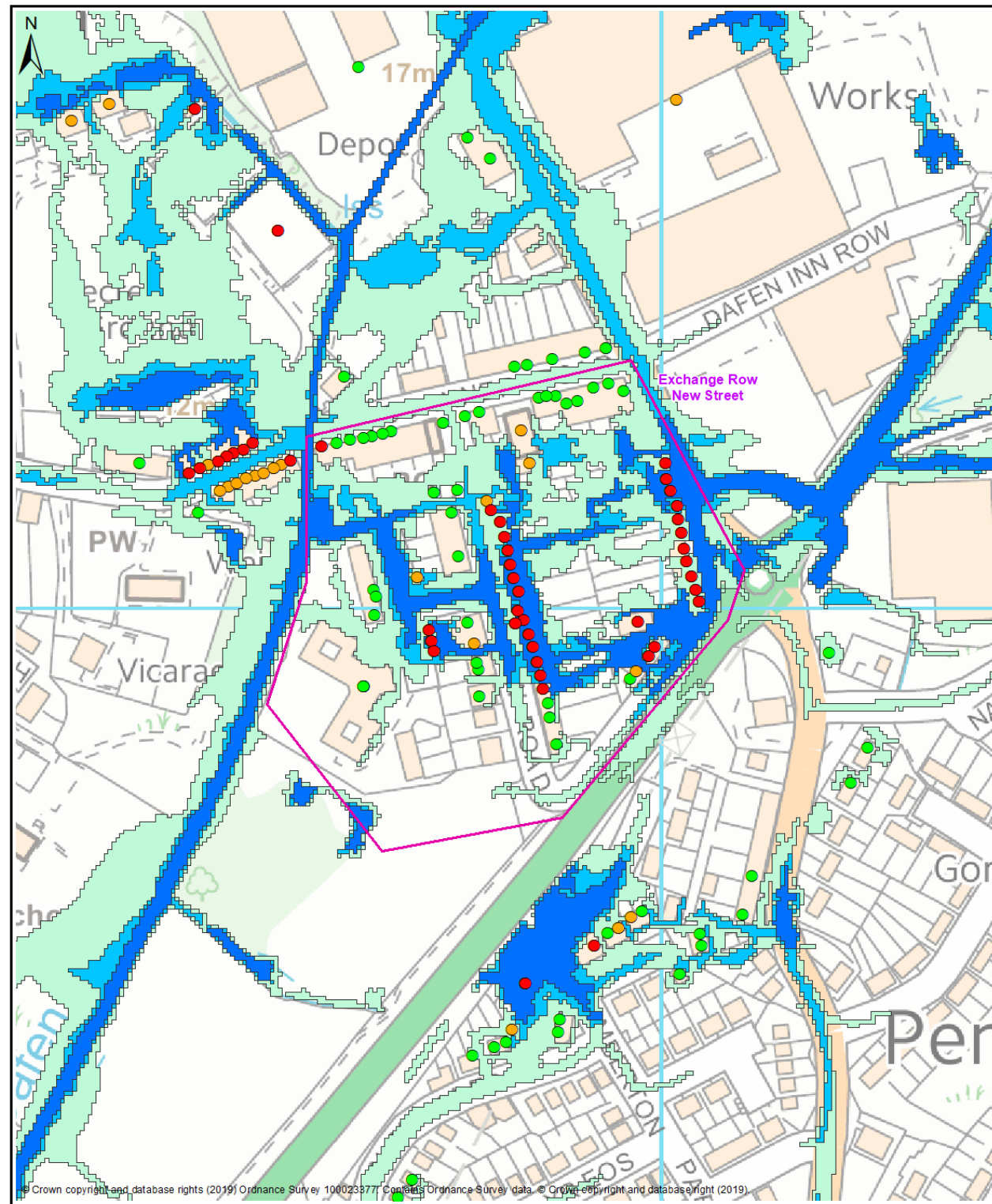
16.8.2 Map 2: Dwellings and Services

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

16.8.3 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	34	40	101
Map 2 Dwellings and Services	31	35	88
Map 3 CaRR	n/a	26 Pluvial 112 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

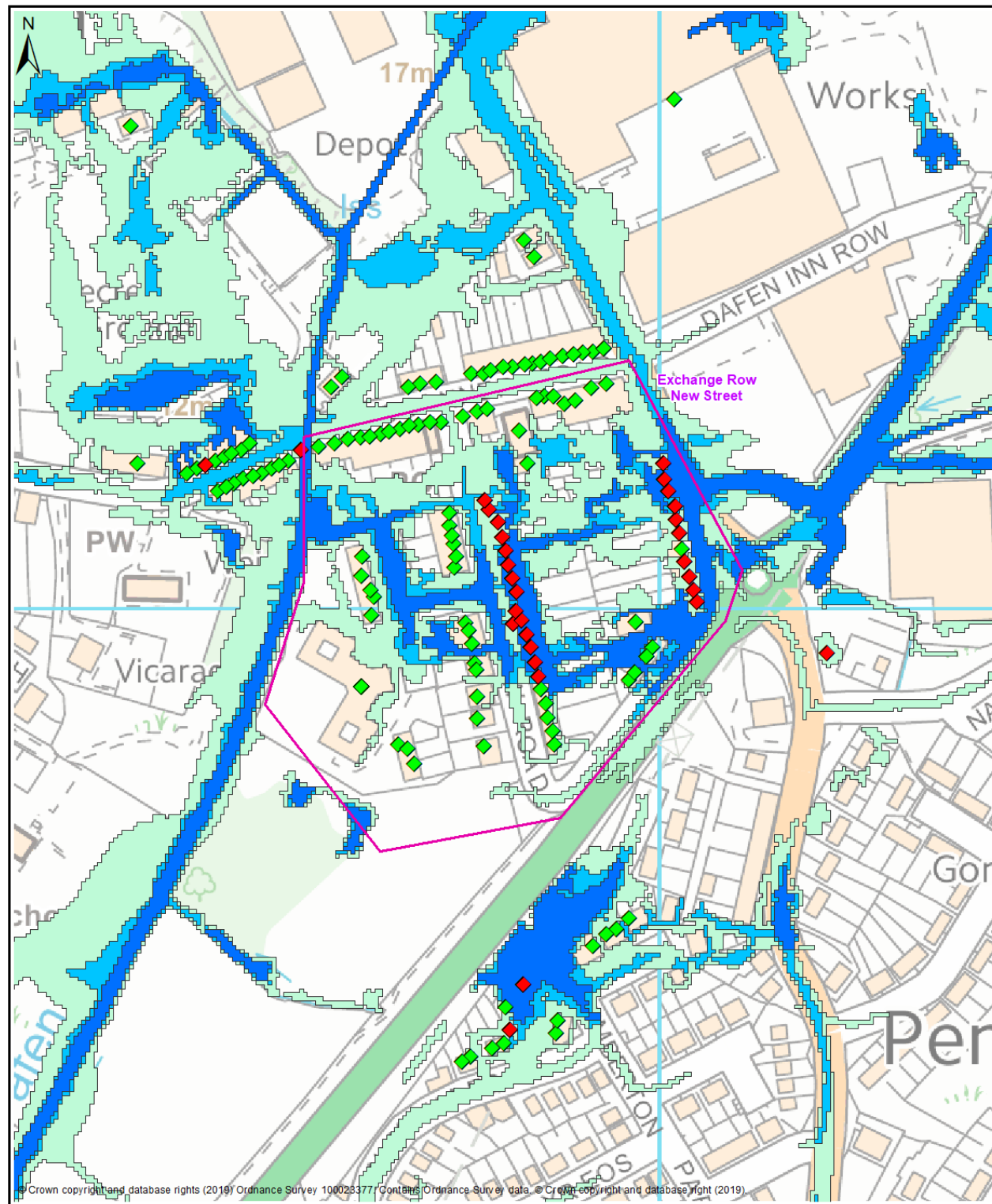
Dafen Ward
Exchange Row New Street Policy Unit



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
 - uMFSW Q30
Surface Water Flood Outline
1 in 30 Probability Storm Event
 - uMFSW Q100
Surface Water Flood Outline
1 in 100 Probability Storm Event
 - uMFSW Q1000
Surface Water Flood Outline
1 in 1000 Probability Storm Event

- ◆ CARR Pluvial
- ◆ CARR Fluvial

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