

4 Abergwili Ward, Whitemill Policy Unit

4.1 Area Description

The Whitemill Policy Unit is located approximately 5km east of Carmarthen at the bottom of a steep valley and large catchment of rural agricultural fields and woodland. The catchment begins at Brechfa Forest with numerous ditches taking runoff from the area. The Afon Anell, which runs the length of the catchment, collects all run-off from the steep valley and passes through the main settlements including Llanfihangel-Uwch-Gwili and Whitemill before discharging into the Afon Tywi. It is classed as Main River from Llanfihangel-Uwch-Gwili.

4.2 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 topography of the area is the root cause of many of the issues observed in Whitemill. The steep catchment with large areas of rural agricultural fields captures rainfall and channels it towards Whitemill. Whitemill is a pinch point within the catchment.

The C2050 highway running through Whitemill is higher than the surrounding land and local properties. There are numerous low spots that pond surface water. This is the main cause of flooding to the north of the carriageway, especially if the river level is high and the highway cannot drain freely.

The observed incidents of flooding (noted below) were caused as a result of the local surface water being unable to discharge to the watercourse when the watercourse is in flood. Surface water then simply pools and causes local flooding.

4.3 Flooding Events

CCC have several recorded incidents of flooding in Whitemill:

- In 2008 the old school flooded internally
- In 2015 the old school and 3 residential dwelling flooded internally
- In 2016 Whitemill Inn flooded internally
- In 2018, as a result of Storm Callum, 5 residential and 1 commercial properties were flooded internally.

4.4 Flood Defence Capital Works undertaken by CCC

None

4.5 Flood Defence Assets

None

4.6 Routine Works and Maintenance

None

4.7 Proposed Future Works

CCC will continue to investigate incidents of flooding and liaise with NRW with regard to the main river flooding. At this time no improvement to the highway's infrastructure is planned.

4.8 Flood Risk

4.8.1 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.

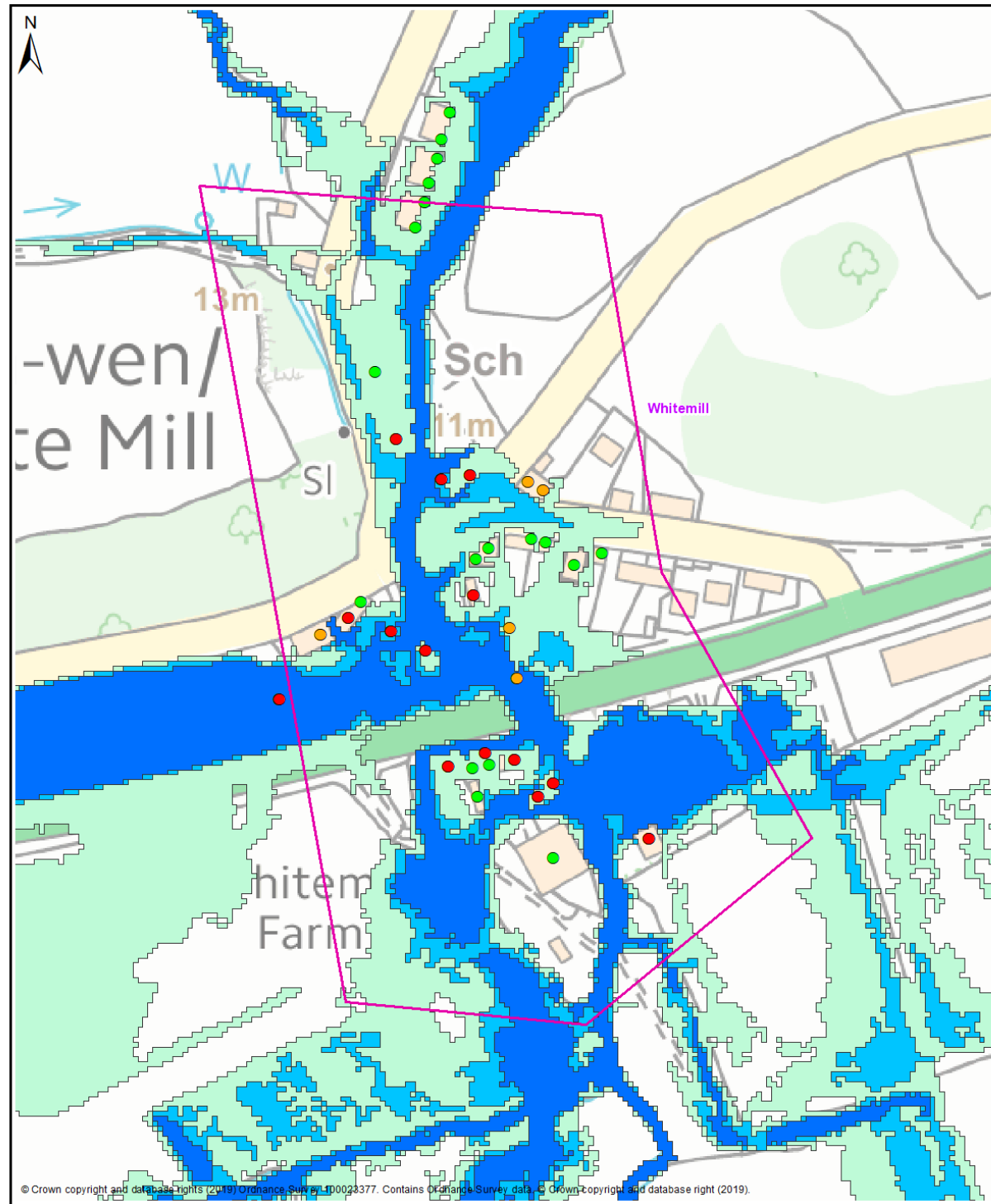
4.8.2 Map 2: Dwellings and Services

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

4.8.3 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.

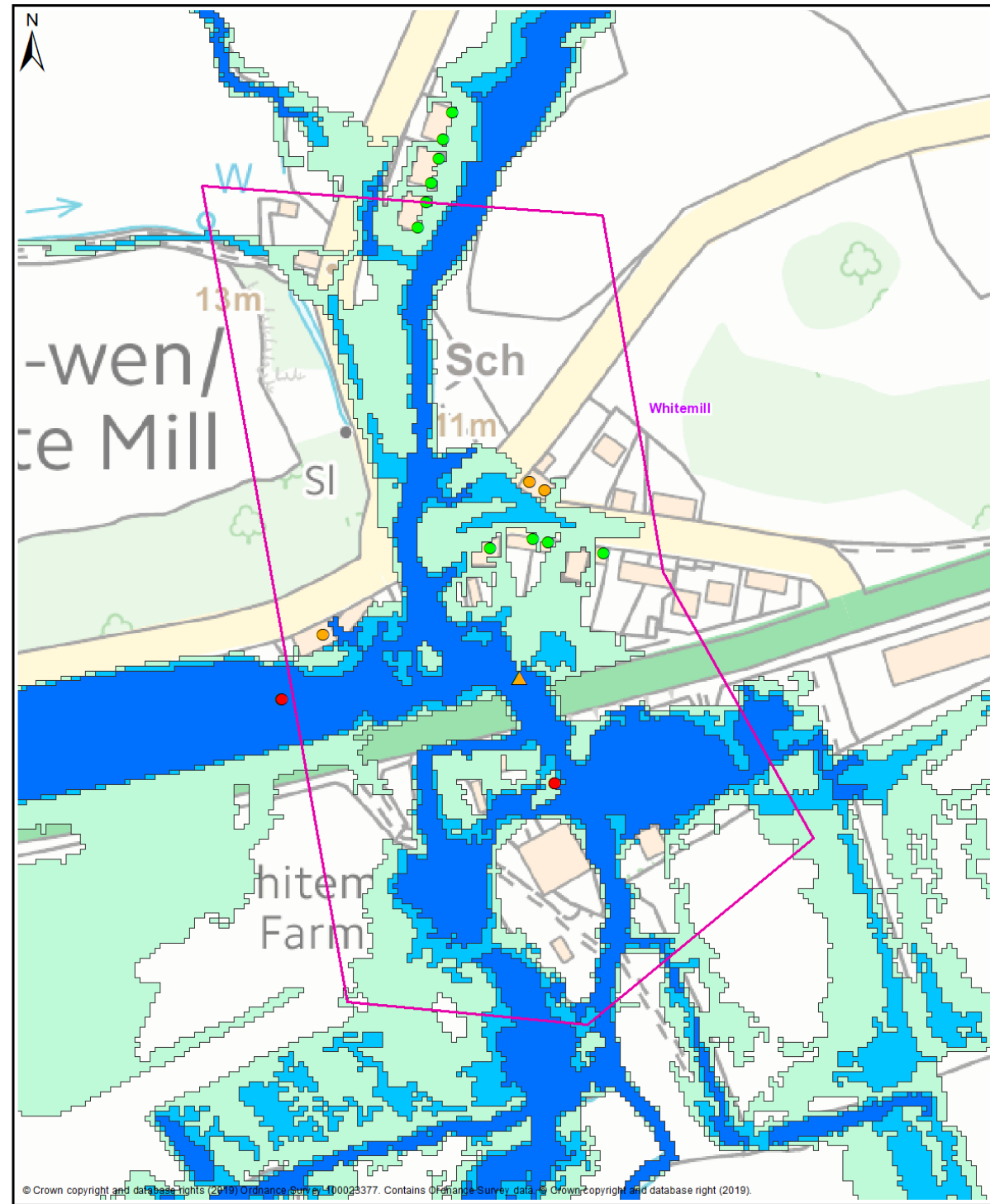
	Number of specified units at risk of flooding		
	1 in 30 probability storm event	1 in 100 probability storm event	1 in 1000 probability storm event
Map 1 Total Properties	13	18	32
Map 2 Dwellings and Services	1	5	11
Map 3 CaRR	n/a	3	n/a



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

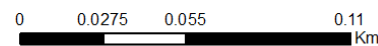


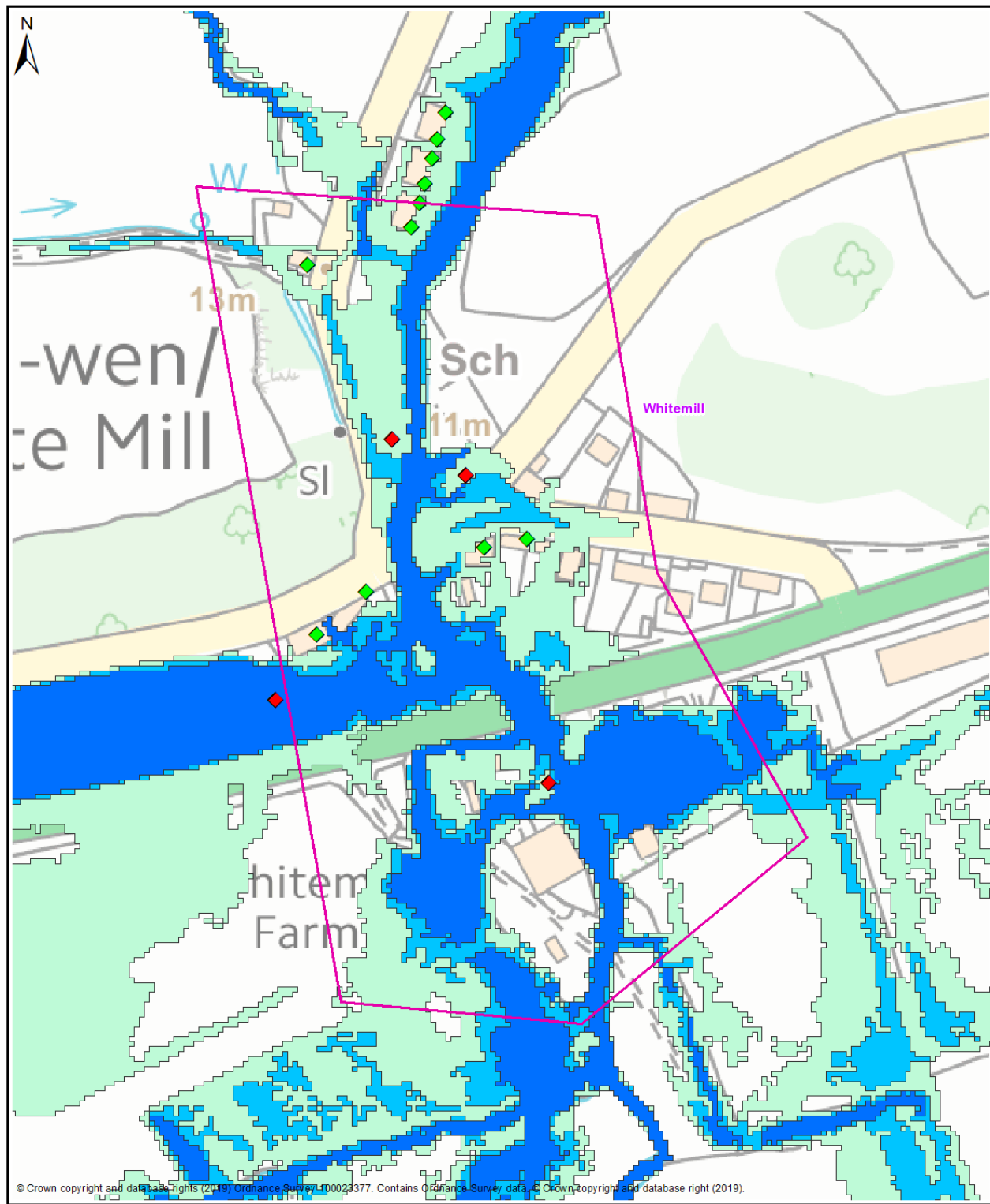
Map 2 - Dwellings and Services

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

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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

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