





# Portreath Catchment Flood Risk



### Portreath – coast and catchment



### Flood Risk Management Plan



Community understanding



**Surface Water** 



Natural Flood Management





Flood Warning





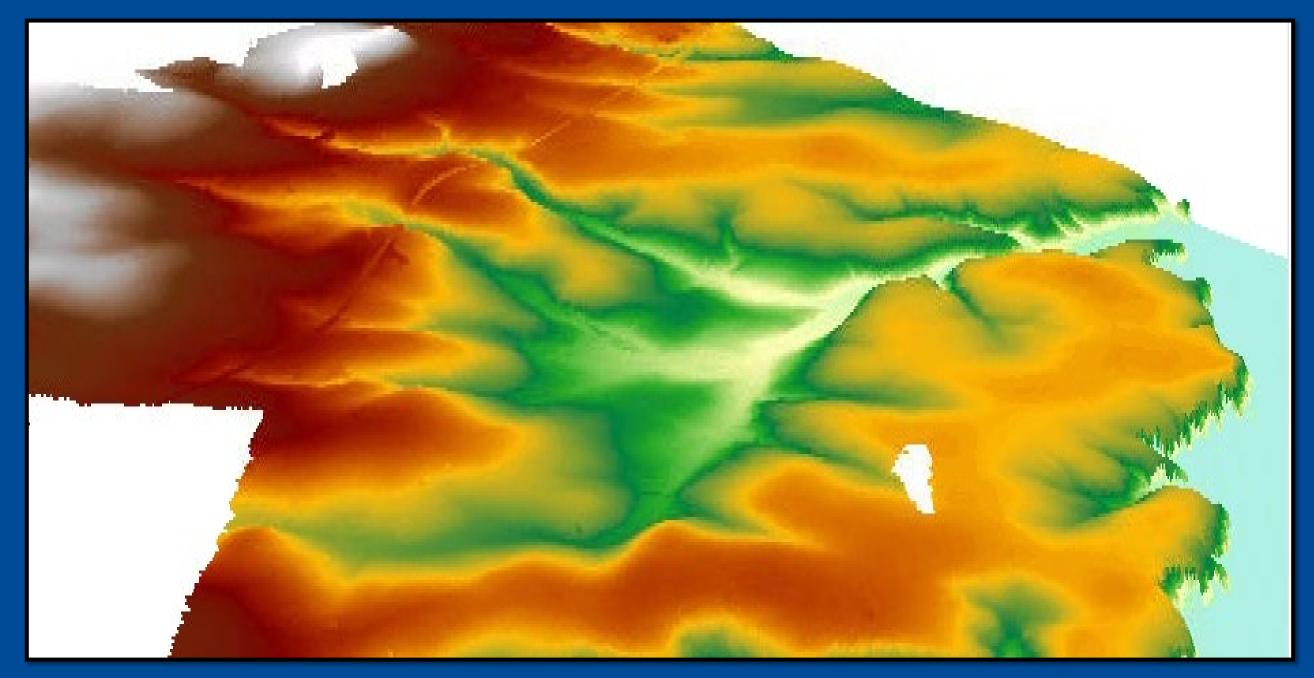
Property Flood Resilience



Manage residual risk

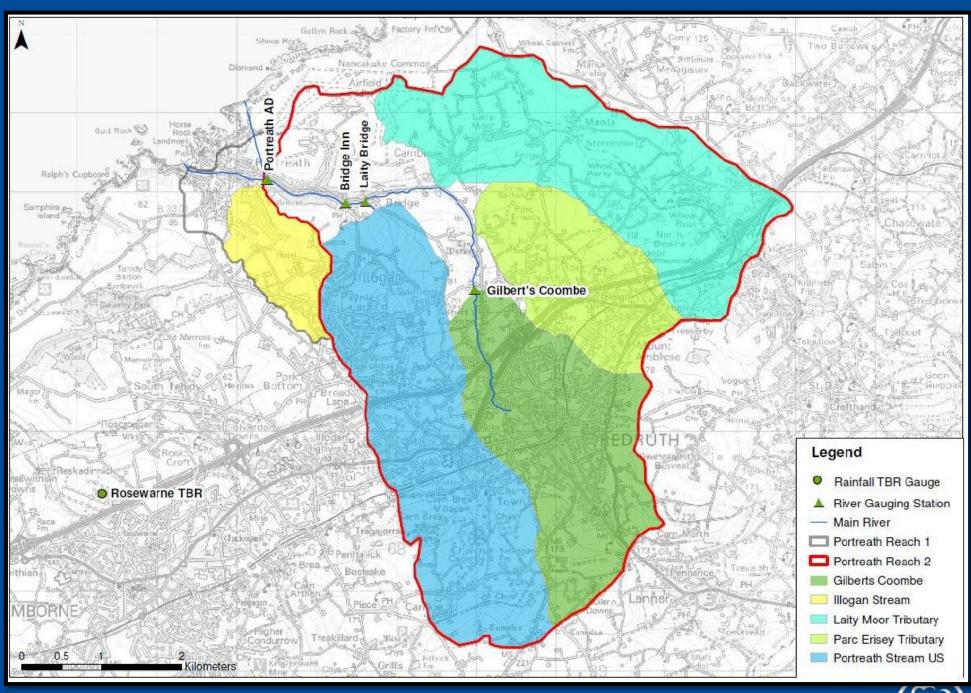


### **Catchment Overview**





# Catchment Overview 3 Main tributaries upstream Illogan Stream behind the school.



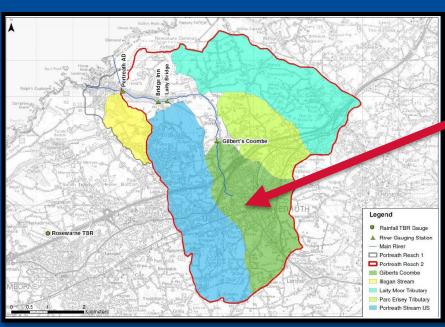
## Tolgus mine- Tolskithy – Carn Brea Mined & impacted by the A30

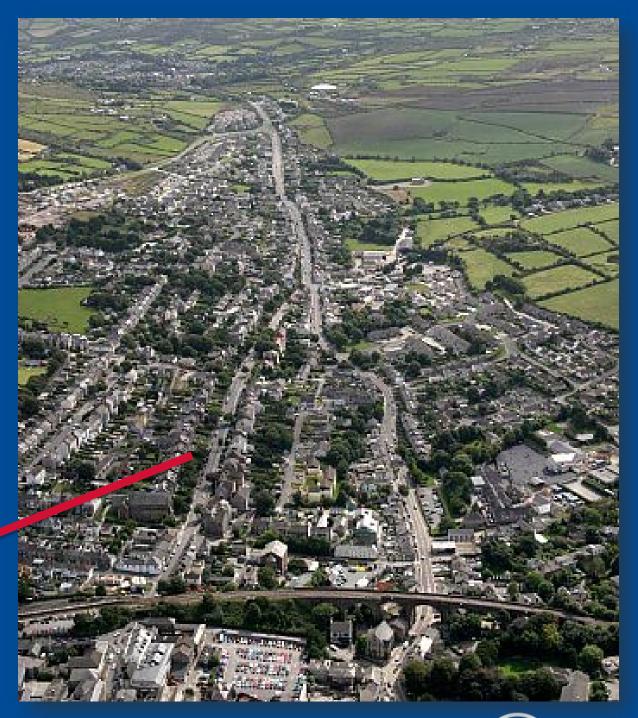
Portreath Reach
Portreath Reach

Parc Erisey Tributar



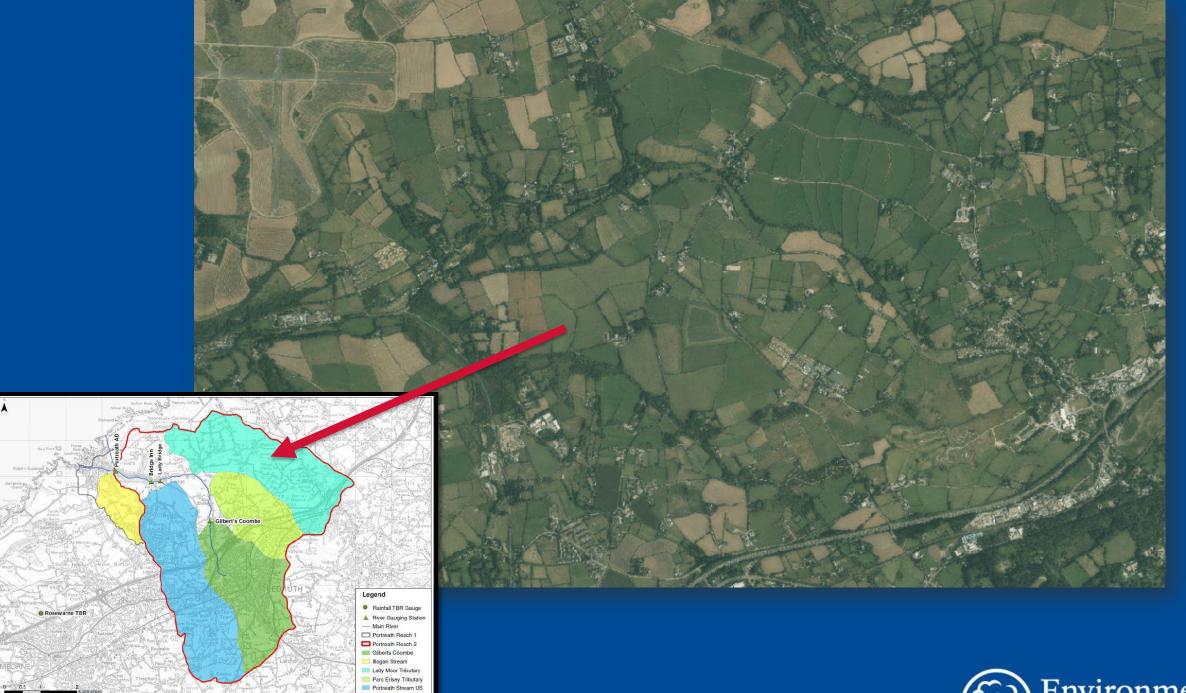
### Gilberts Coombe Redruth - Urban







## Laity Moor – Cambrose – A Natural Catchment





## Portreath suffers from catchment flooding





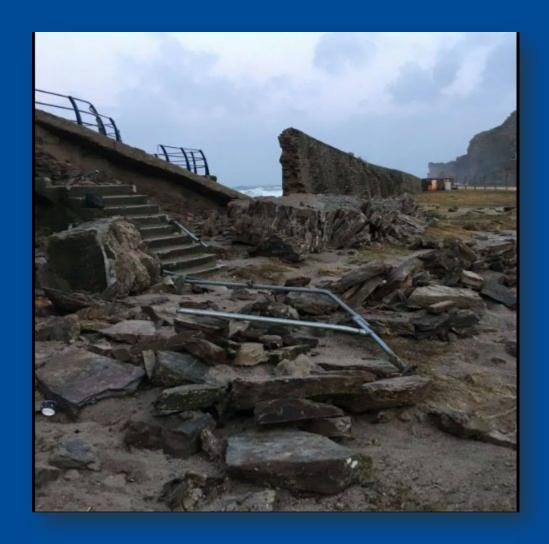




### Portreath coastal flood and erosion risk









### Flood Risk Management Plan



Community understanding



**Surface Water** 



Natural Flood Management





Flood Warning



Monitoring



Property Flood Resilience

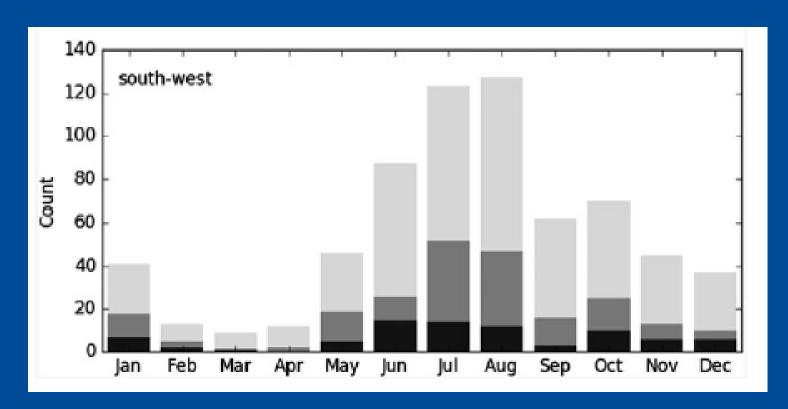


Manage residual risk



#### Flash Flooding

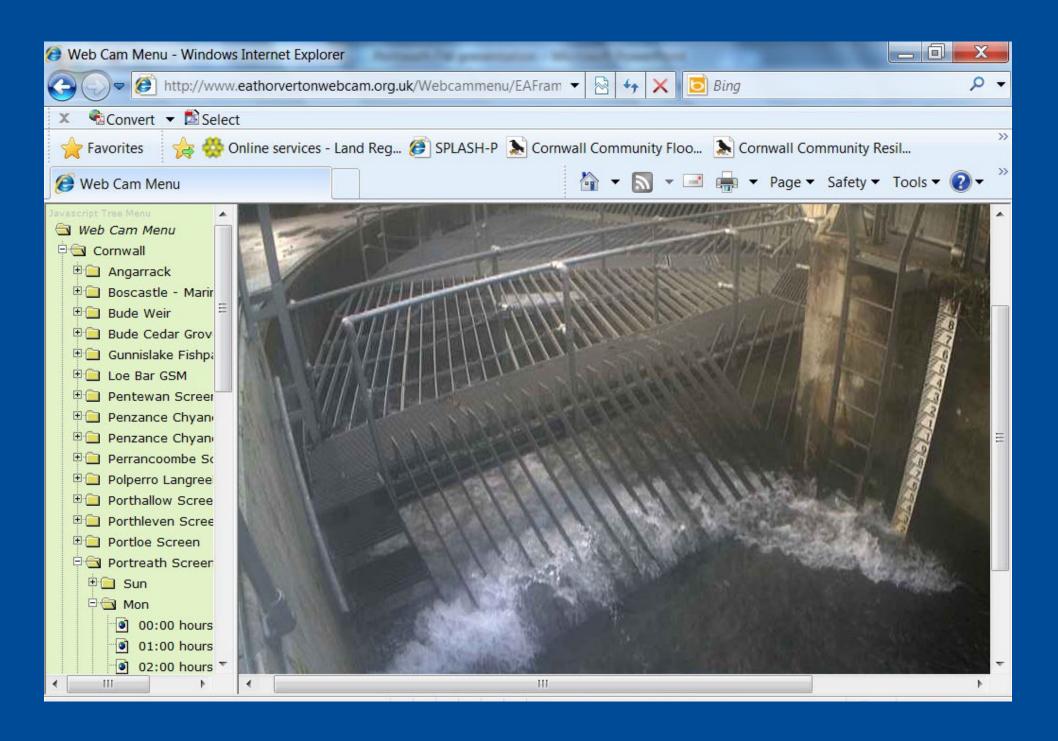
Trends show higher risk of flash flooding in warmer months.



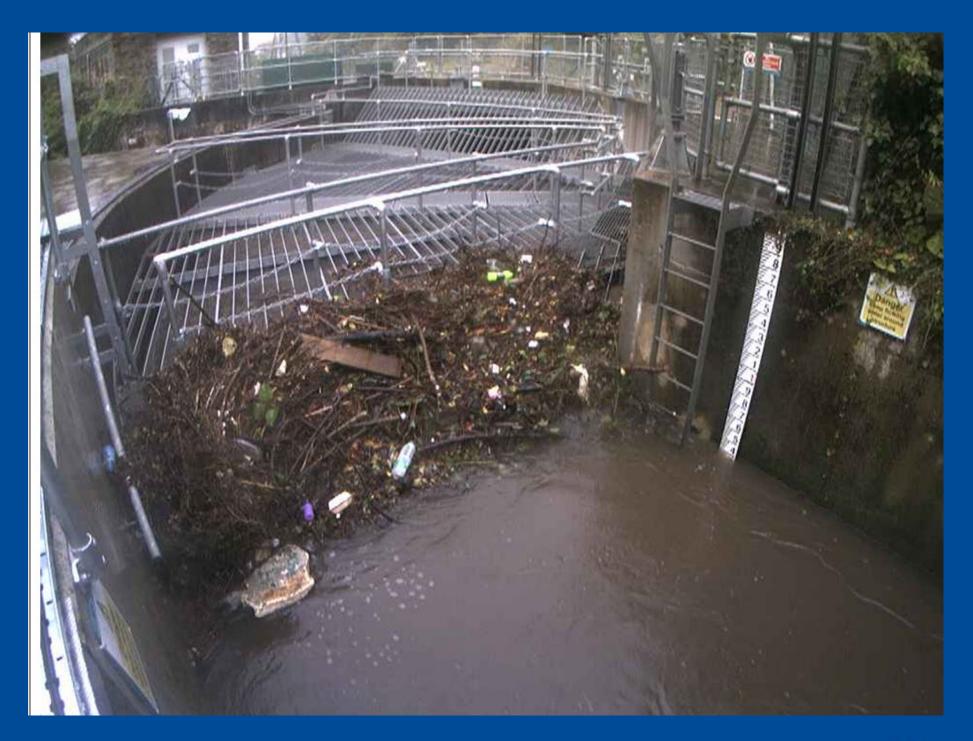
Black = high impact flash floods (death / destruction)

Severe thunderstorms most likely between May and August

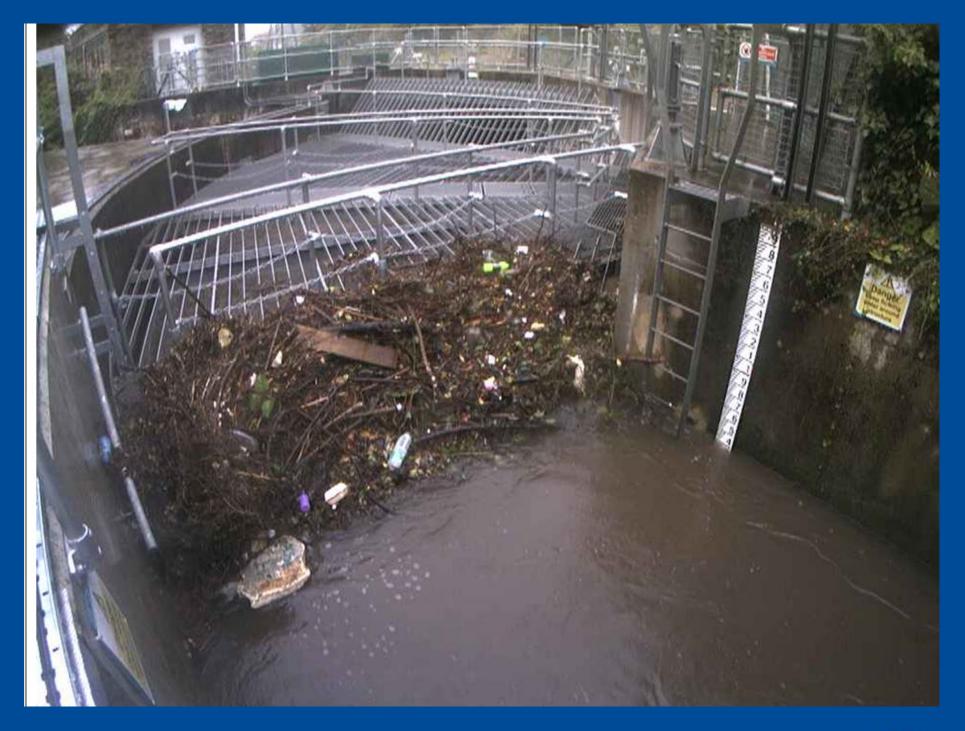








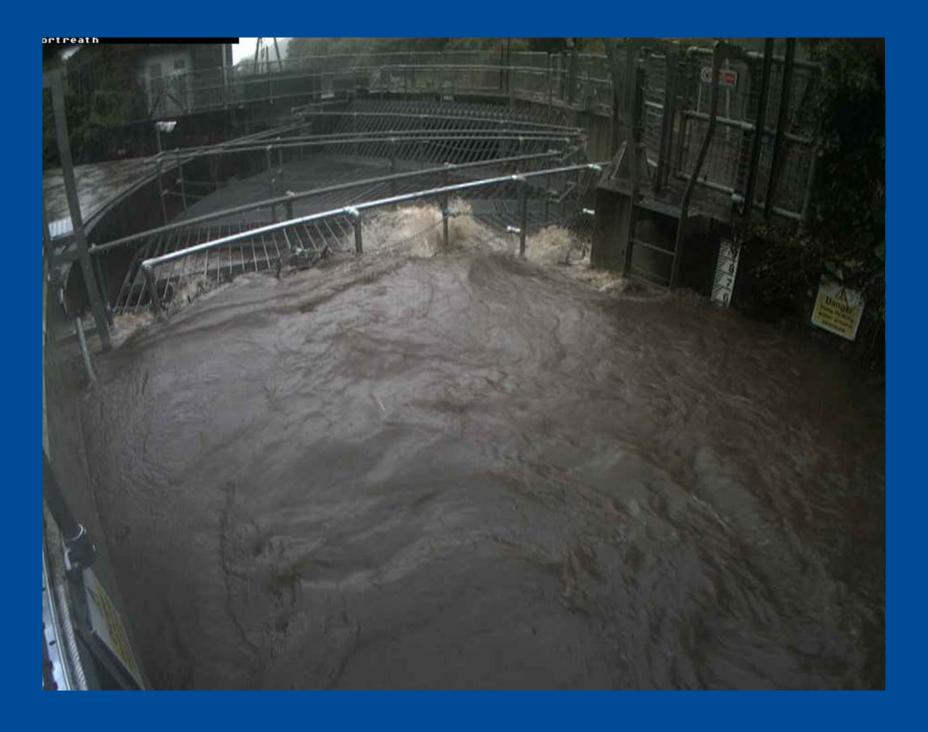










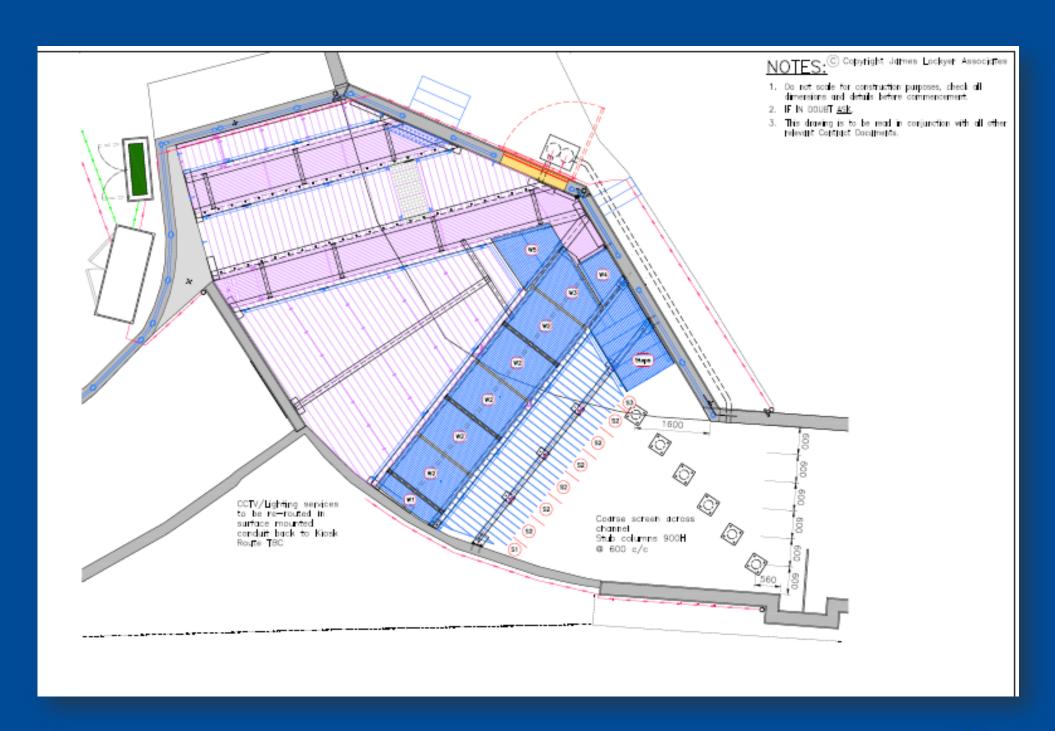






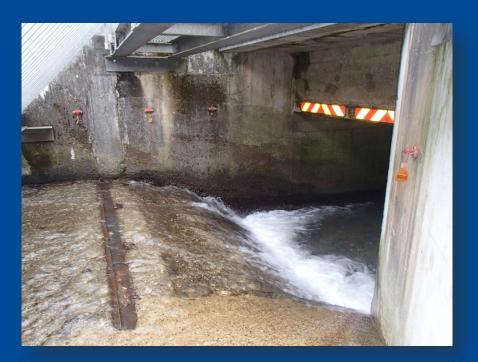


### Planned screen improvements





### Portreath tunnel











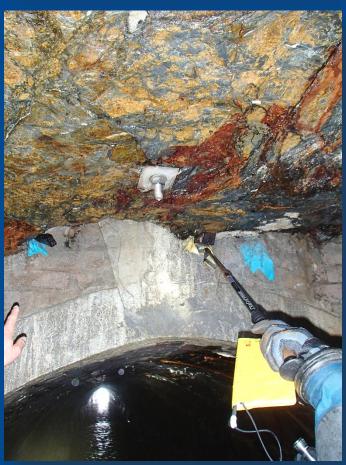
#### Tunnel Improvements







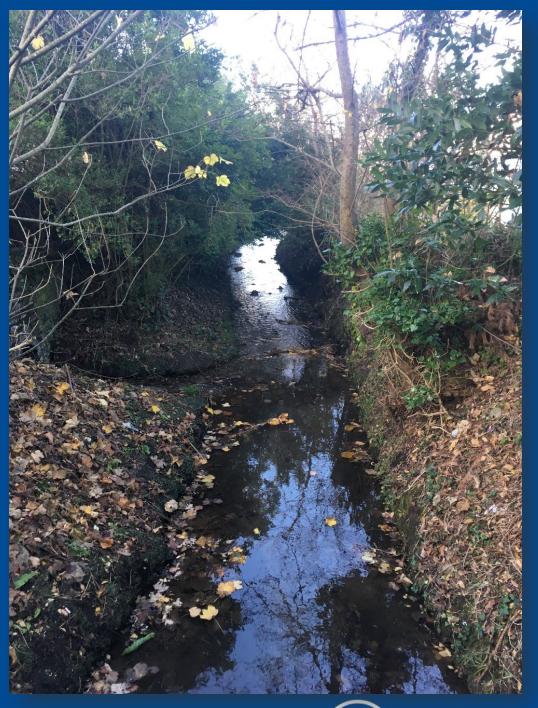






## Portreath Channel - enlargement







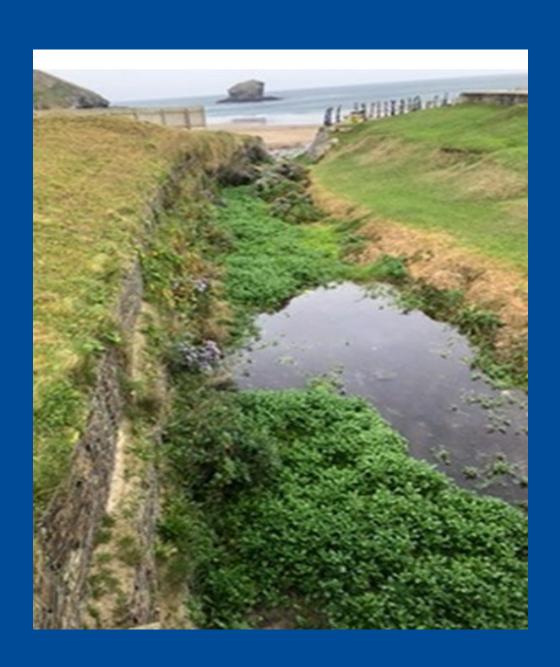
#### Maintenance Before and After

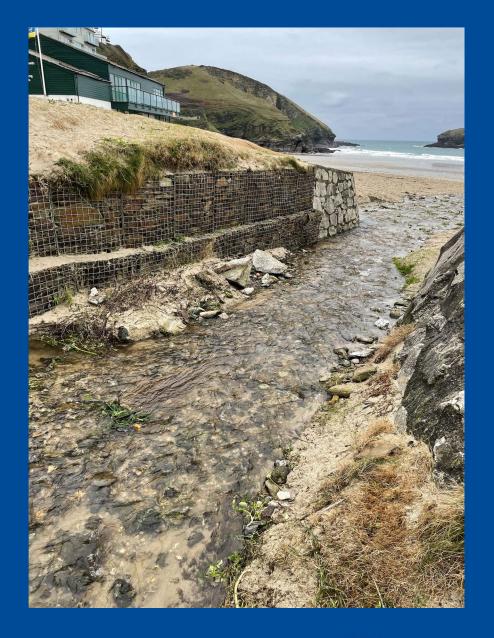






#### Maintenance Before and After







#### **Looking Ahead**

- ♦ We will continue to Annually Maintain the River Banks visiting 3 times a year.
- Weekly Clearance and Inspection of Screen
- Yearly Inspection of Assets
- ◆ Positively Engage with the community of Portreath in all our future works and plans
- ◆ Provide a 24/7 Emergency Response to a Flooding Event



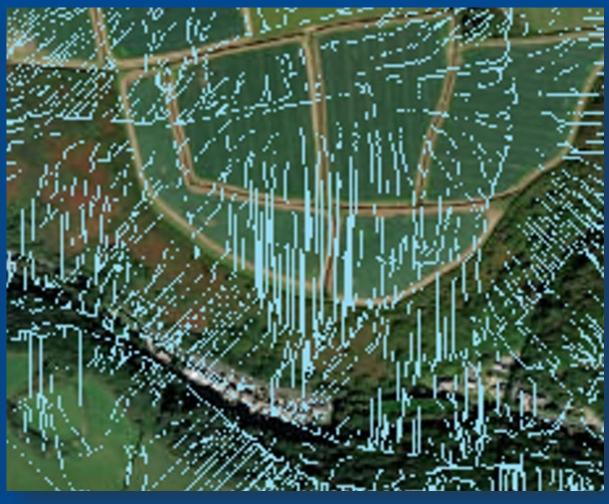
### Natural Flood Management





### Risk based management of soils





Slopes

Flow paths



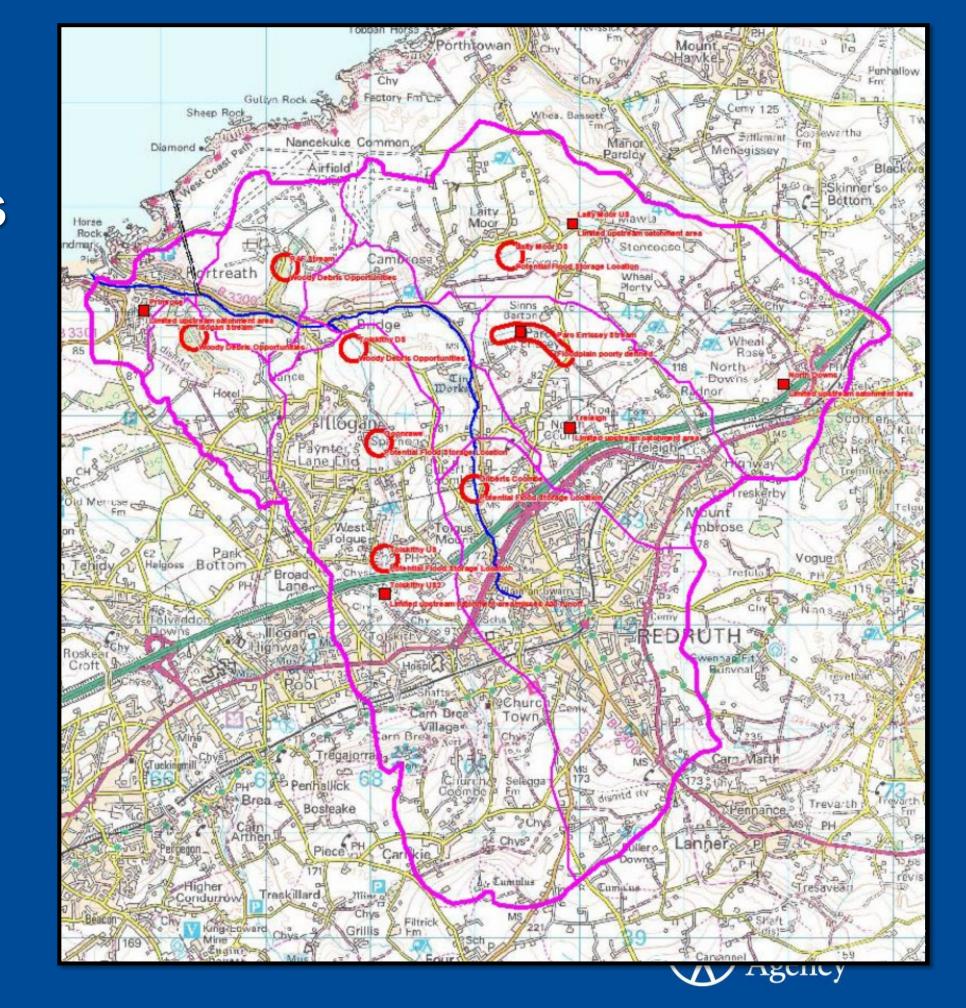
### Supporting agriculture



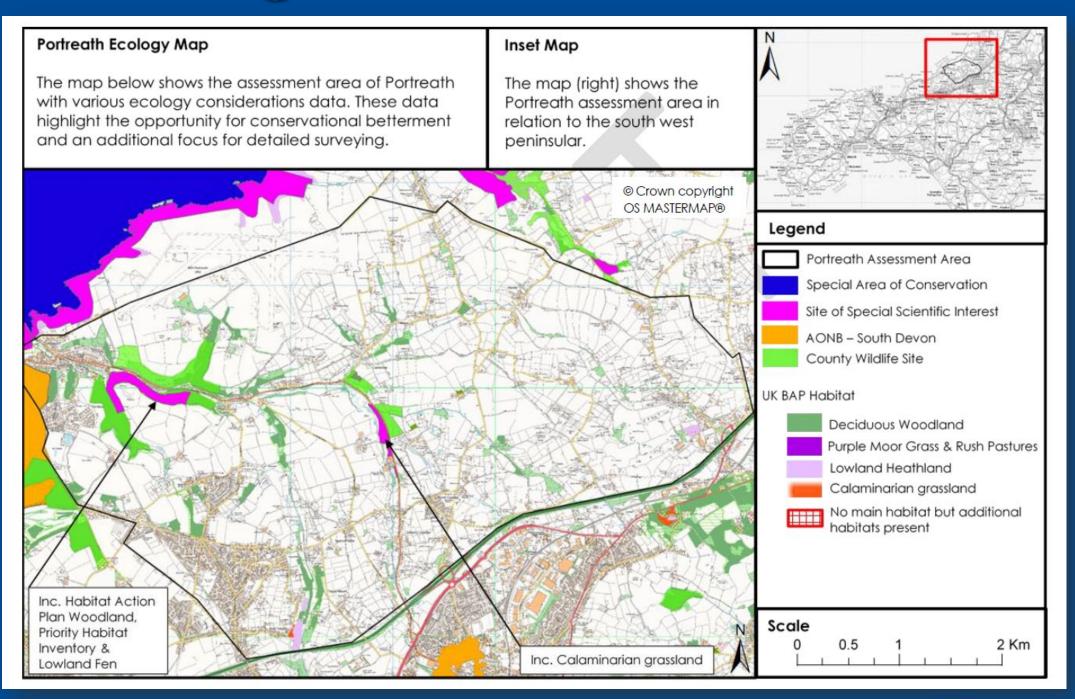




### **Attenuation locations**

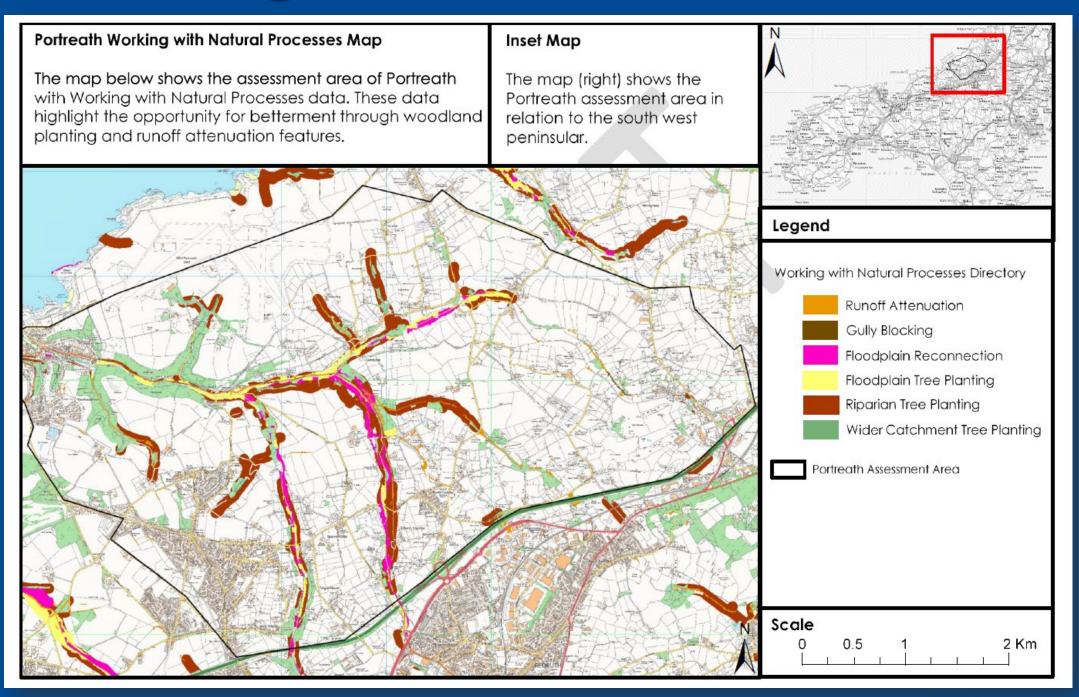


## Upstream Natural Flood Management





## Upstream Natural Flood Management





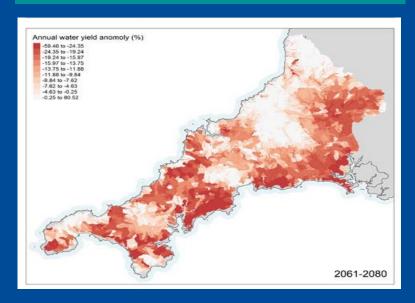
#### Working with Cornwall Council



#### **Cornwall Climate Change Risk Assessment**

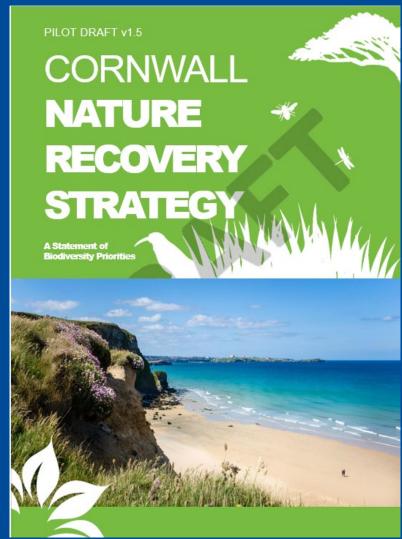
Section 3 Hydrology and Water Supplies

- 3.1 Future Heat Risks in Cornwall
- Hydrological Modelling in Cornwall using UKCP18 Cornwall Climate Change Risk Assessment (CCRA3) Flood Risk



Cornwalls Climate Change Risk Assessment

**Local Nature** Recovery Strategy





#### Portreath Flood Group

#### Three steps to safety

#### **Prepare**

- · Be aware and know the signs. Signs to watch for:
  - · Heavy rain or severe weather reports
  - · Rising water levels with churning dark water
  - · A build up of debris in rivers or streams
- · Plan where to go if you get caught in a flash flood

#### Act

- · Do not walk or drive through flood water
- If you are in a building with at least two storeys and you believe it is safer to stay where you are, you should move to a higher storey
- · Call 999 if there's a risk to life, or if you're trapped

#### Survive

- · Call 999 if you're in immediate danger
- Follow advice from the emergency services
- · Keep yourself and your family safe

#### Where can you go for updates on flooding?

Make sure you know your local radio station BBC Radio Cornwall – 95.2 FM, 103.9 FM

Follow us @EnvAgencySW

Visit https://flood-warning-information.service.gov.uk

### Your home in Portreath could be at risk of Flash Flooding

Stay safe. Do you know what to do?



Extreme flash flooding is dangerous and can happen very quickly. The effects can be devastating.

Look inside to find out about the dangers of flash flooding and how to stay safe.

www.gov.uk/environment-agency

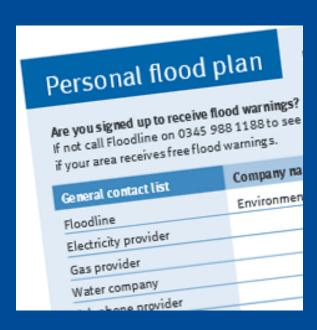






## Flood Warnings and Portreath Flood Group

#### How can we help?



Personal and community flood plans



Rain gauge



**Flood Wardens** 



**Flood Alert** 



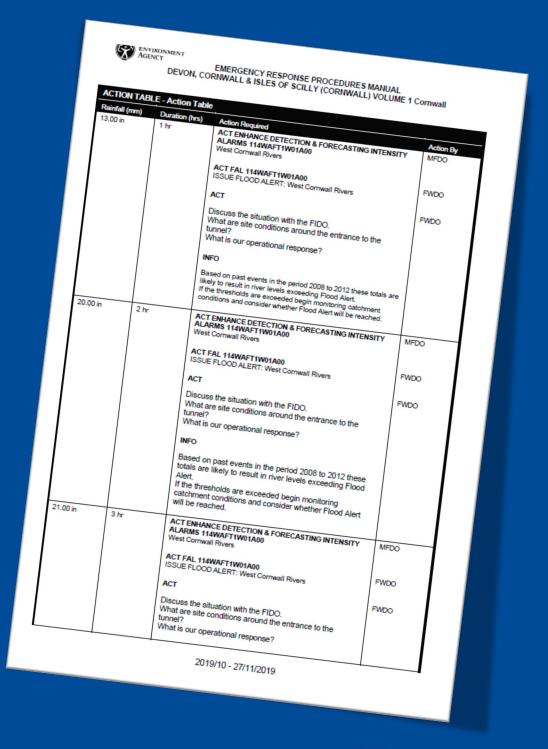




### Portreath Flood Warning

ENVIRONMENT EMERGENCY RESPONSE PROCEDURES MANUAL AGENCY DEVON, CORNWALL & ISLES OF SCILLY (CORNWALL) VOLUME 1 COMWAIL

Action Required   Action Notice   Action Required   Action Regular   Action Regul	_	DEVOIG		
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Portreath Flood Group put its Community Flood Plan together in 2016 / 2017.

The group recruited 12 volunteers and divided them into pairs in the areas of the village at risk from flooding.





In December 2017 the group ran a live exercise, which saw them test their flood plan during one dark, wet evening, accompanied by the Cornwall Council Emergency Officer.





"It was great to be part of such a massive team effort. We door knocked and handed out evacuation letters. We used the plan to book the hall and call on our tea ladies. The high-vis clothing is so cosy! The flood wardens got lots of compliments from the [emergency] services and residents!"

Cllr Joyce Duffin, Portreath Flood Group Coordinator. "You should be very pleased with the results of the activity. It made a huge difference and the whole process so much more responsive. A huge thank you from me. The group was awesome!"

Arthur Roberts, Resilience and Emergency Officer at Cornwall Council.



#### Flood Risk Management Plan



Support Highway
Authorities and Risk
Management
Authorities to review
surface water
management in the
catchment and in
Portreath



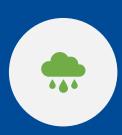
Work in partnership with the community to better understand the current and long term coastal and fluvial flood risks in Portreath



Deliver improvements to the existing flood alleviation scheme in Portreath



Work with partners to explore opportunities to deliver nature-based solutions in the catchment in Portreath



Review the flood warning and forecasting needs for the river and the sea in Portreath



Undertake a review and update hydrometric monitoring in Portreath



Work with partners to investigate Property Flood Resilience for properties that remain at risk in the catchment and in Portreath



Work with partners to review flood defence exceedance and contingency planning in Portreath



