

## **BCPC Congress 2023** Richard Reynolds





## WaterUK Catchment Network

- 20 Water companies
- Sampling programmes differ based on risk and resource
- Report regularly to VI, Pesticide Forum and Grassland Forum

#### Objectives

- 1: Raise industry **awareness of actual trends** observed at abstraction
- 2: Partner to develop stewardship programmes to **safeguard actives**
- 3: Work with farmers to identify and implement **effective local solutions**





## **Regulatory Landscape**

- Drinking Water Directive
- Water Framework Directive

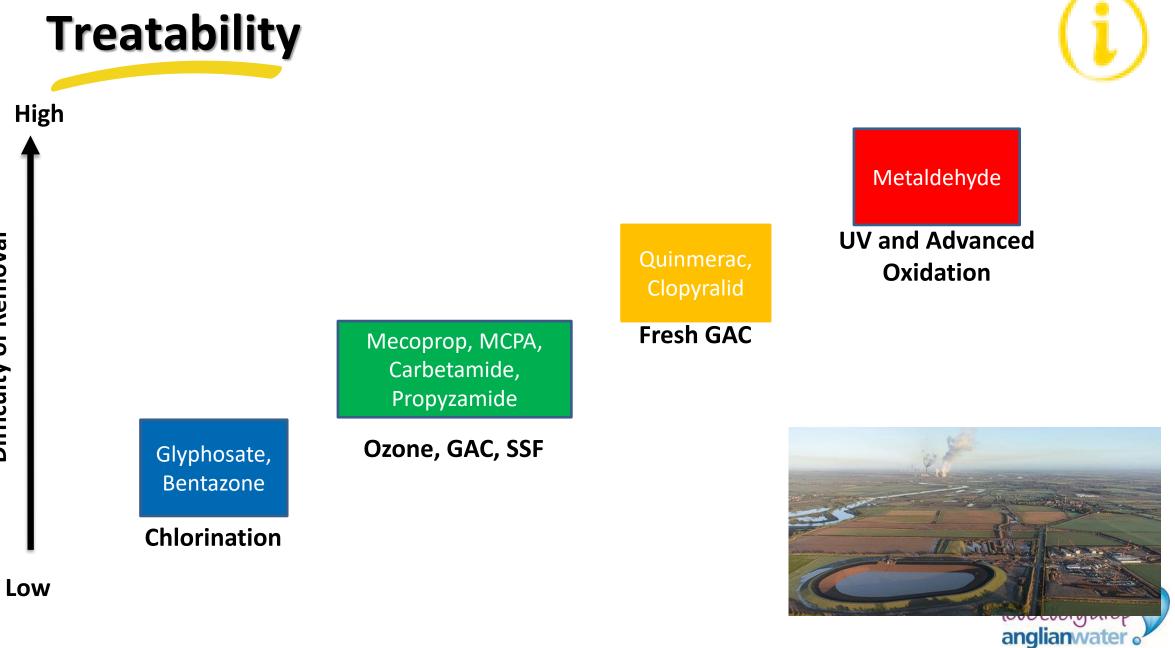


- Drinking Water Protected Areas
  - Statutory area required by **DWD and WFD** to protect raw water supplied which are abstracted for human consumption
- Drinking Water Safeguard Zones (surface and groundwater)
  - Non-statutory areas defined by EA and Water companies to target specific pollution challenges (WFD Article 7.3)

### Source Protection Zones

• Tiered classification by EA of high risk land surrounding large and public potable groundwater abstraction sites

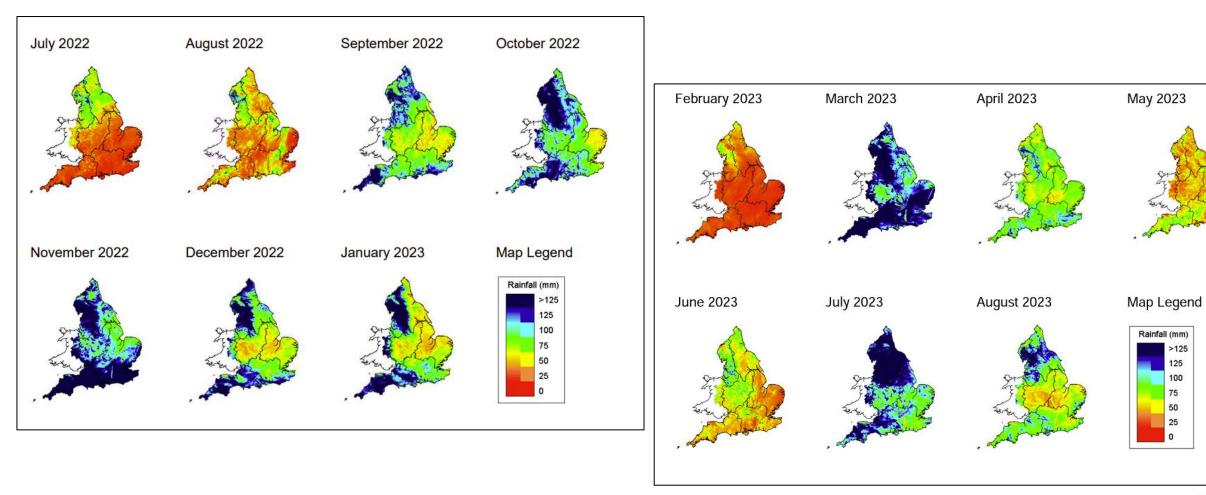




**Difficulty of Removal** 



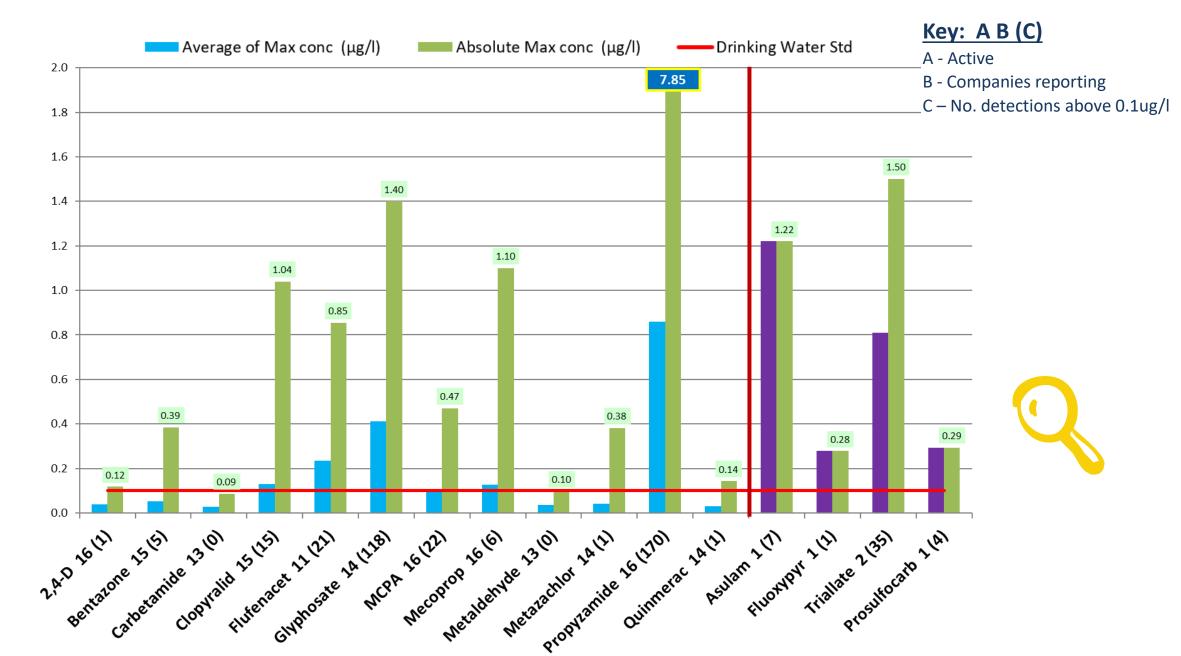




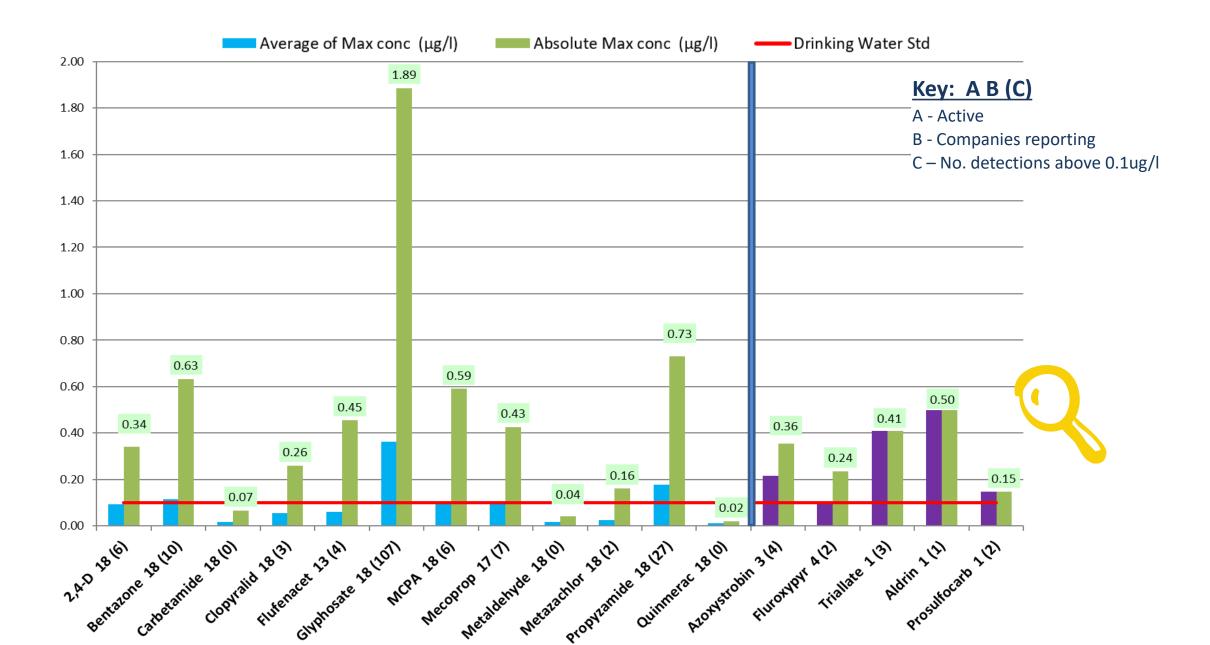


https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/1184355/Water\_situation\_report\_for\_England\_August\_2023.pdf

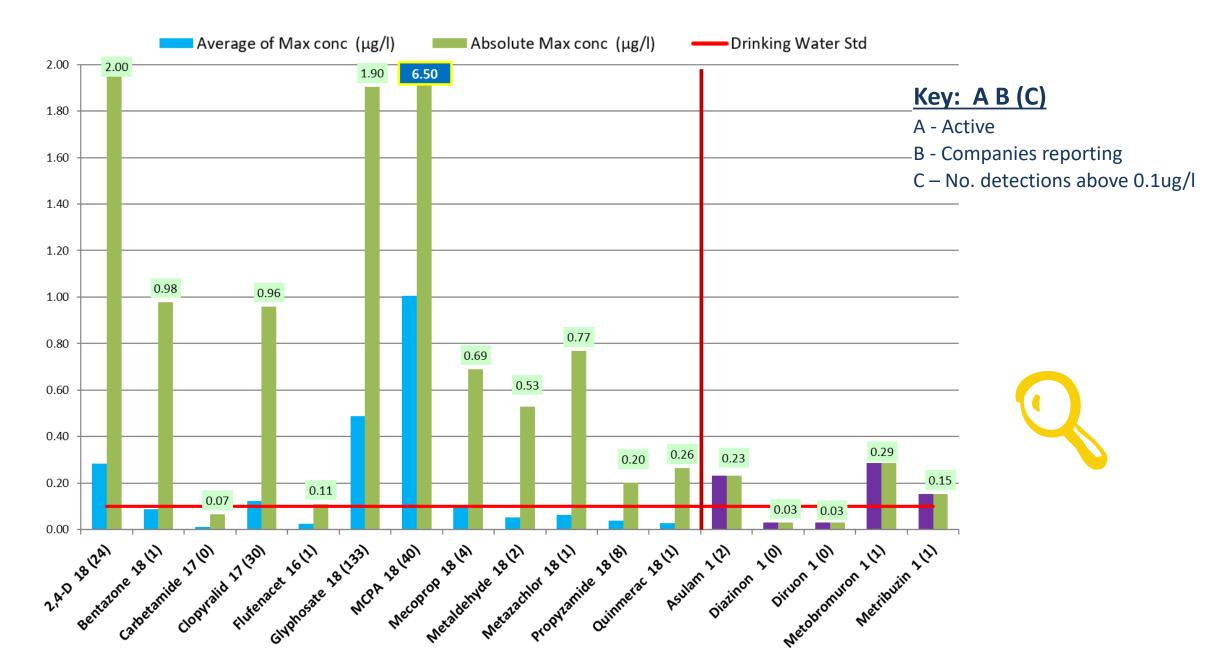
### WINTER: Combined WC detections – Oct – Jan 23

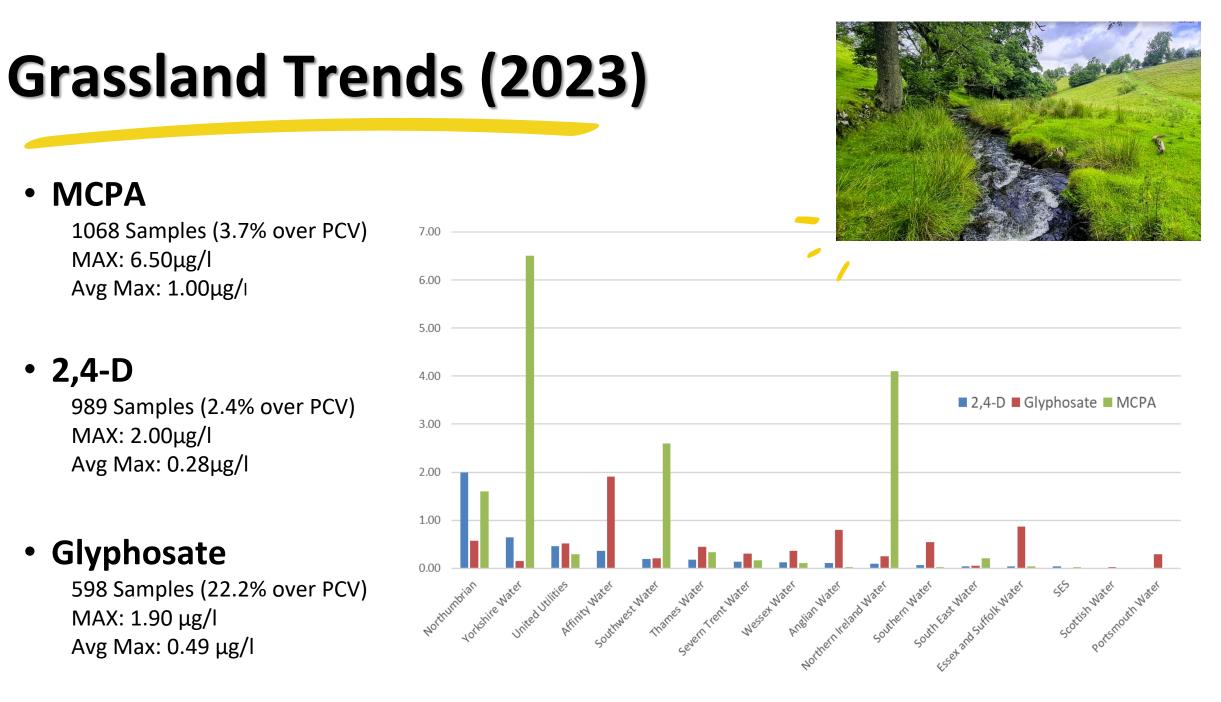


### **SPRING: Combined WC detections: Feb – May 23**

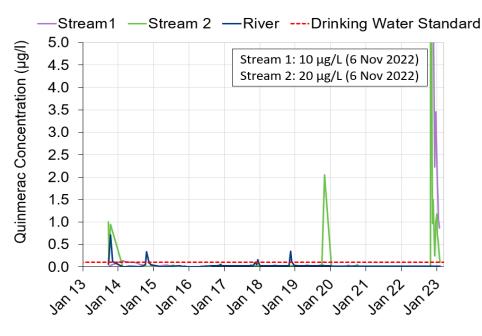


### **SUMMER: Combined WC detections: June - Sept 23**





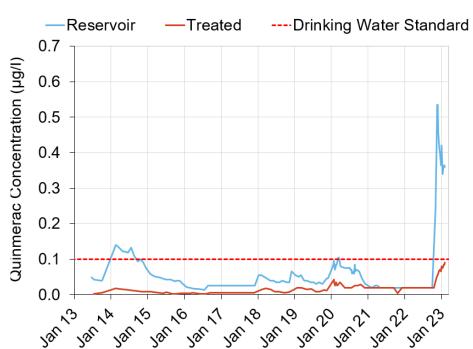
# **Case Study: Quinmerac**



- Catchment 10-20x above standard
- Reservoir 5x above drinking water standard
- GAC available but at capacity

#### Investigations

- Clearfield OSR in catchment
- Heavy rainfall





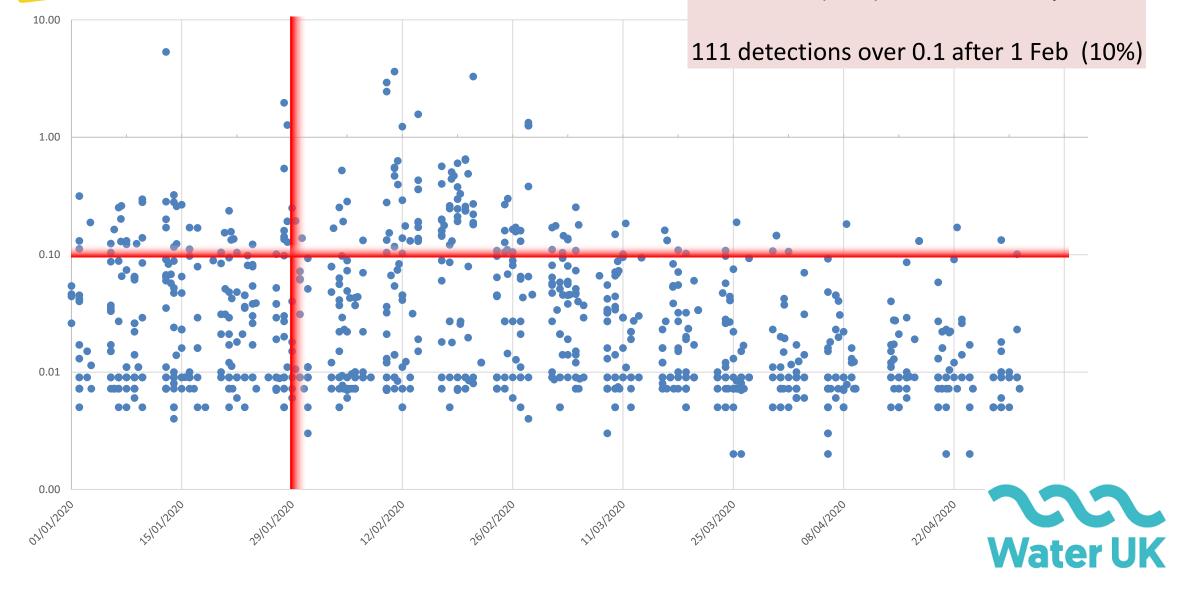




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## Propyzamide 2020

1123 detections (1 Jan to 30 April 2020) 161 (15%) above 0.1ug/l 729 (65%) after 1 February



# Propyzamide Trend 2014-2020 10 Steadily increasing trend over past 6 years Average moved from 0.221 ug/l (2015) to

0.437 (2020)

 $\frac{1}{2^{4} n^{6} n^{14}} \frac{1}{2^{16} n^{6}} \frac{1}{2^{16} n^{16}} \frac{1}{2^{16} n^{16}}$ 

# Mitigation

## Field Trials

- Farmer led
- Manufacturers or Distribution Partners

## Communication

- VI and Partners
- National and regional events

## Grants & Training

- IMP initiatives
- Regenerative Farming approaches







Local context

Climate awareness

## Build Partnerships

# Any questions?