# Drinking Water Wales 2024

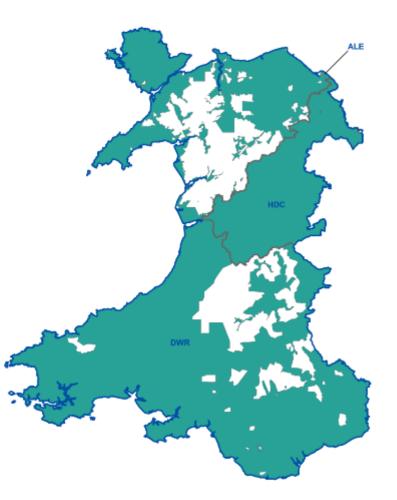
Marcus Rink Chief Inspector of Drinking Water

# Industry statistics

Water Industry in Wales 2024

Public supplies	Statistics	
Number of water companies	3	
Population supplied	3.30M	
Water supplied (L/day)	0.94bn	
Treatment works	69	
Service reservoirs	394	
Water supply zones	103	
Length of mains pipe (km)	30.54K	
Surface sources	259	
Ground sources	40	
Mixed water sources	1	

July 2025

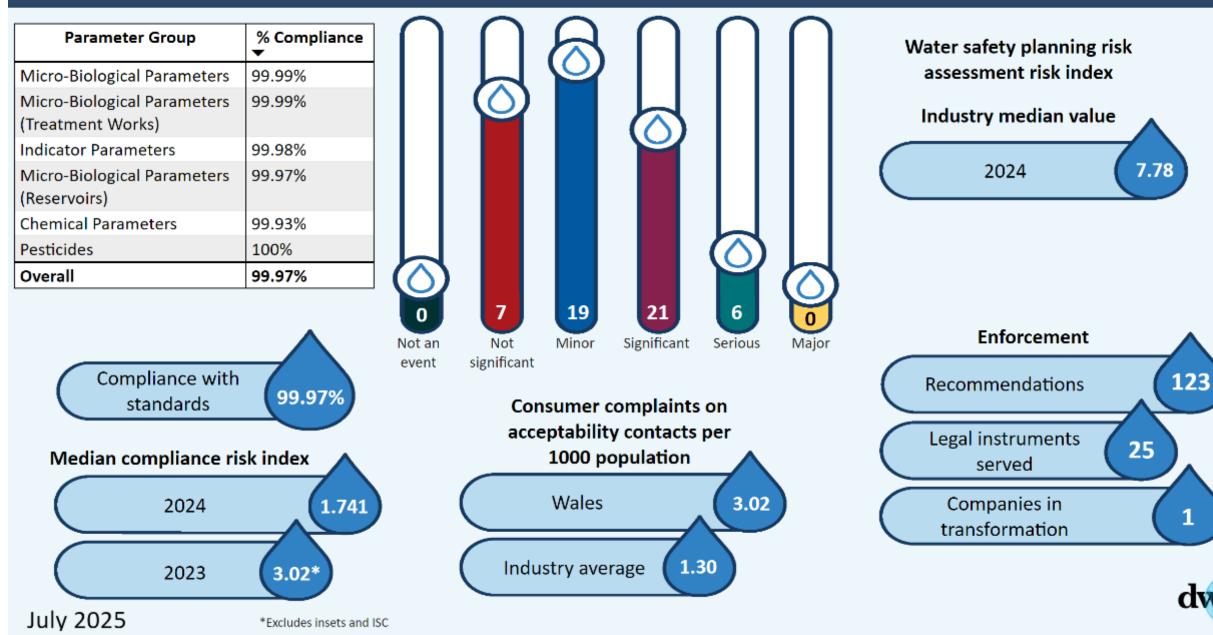


Companies

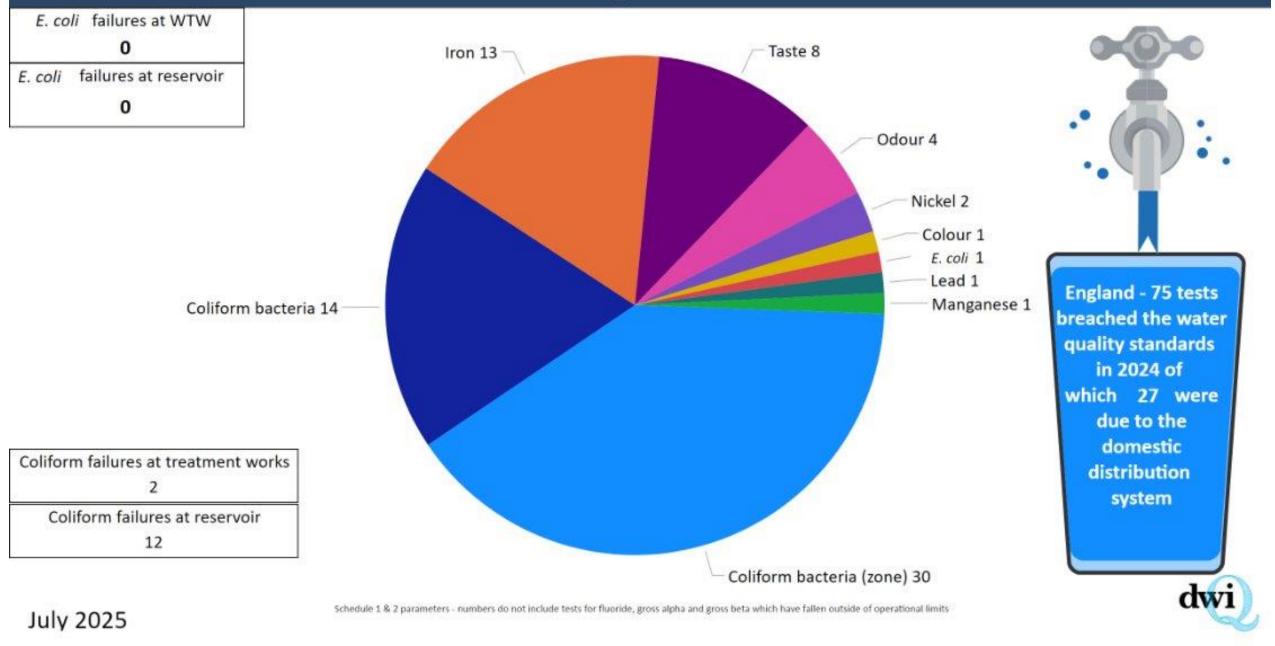
ALE - Albion Eco DWR- Dwr Cymru (Welsh Water) HDC - Hafren Dyfrdwy



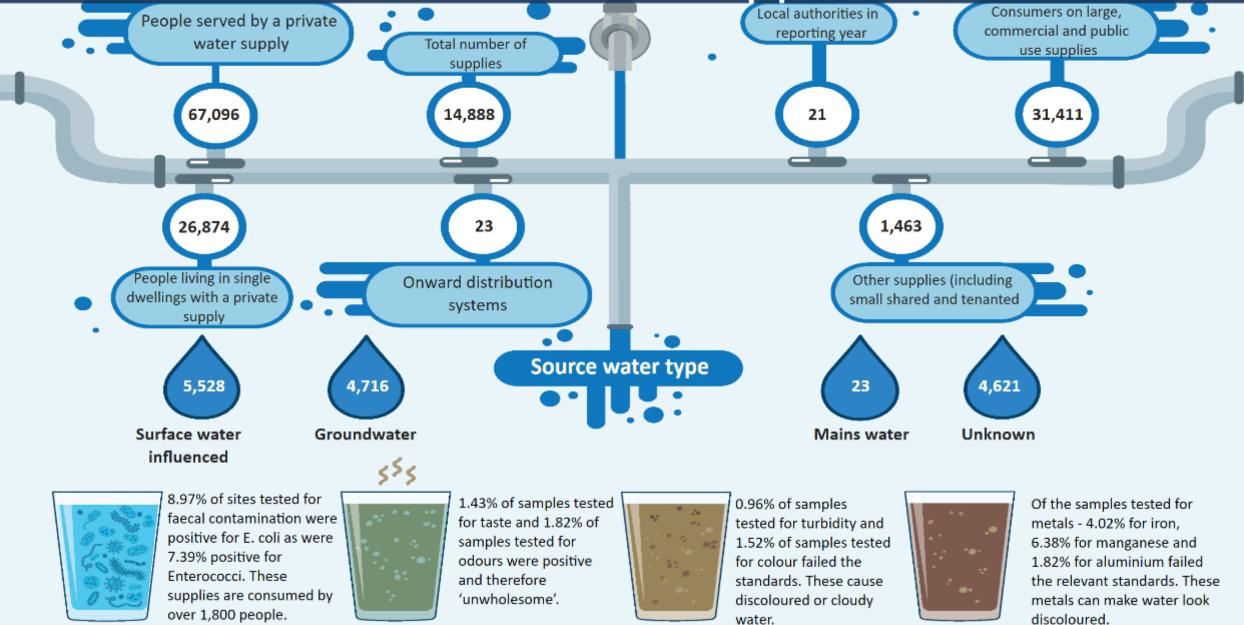
### Industry statistics



### Compliance



### Private water supplies

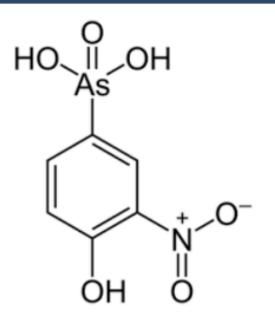


# Private water supply - Regulation 8

#### Water Quality

-Arsenic to 300 consumers with a peak approaching 60µg/l

-In response notices were served to maintain the onsite treatment and switch to the back-up mains supply.

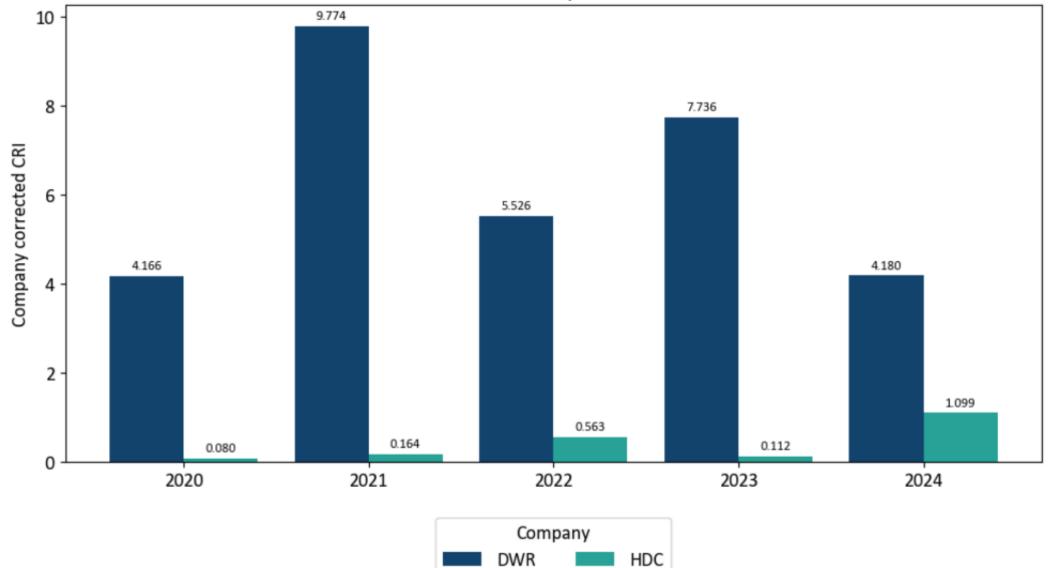


#### **Regulation 8**

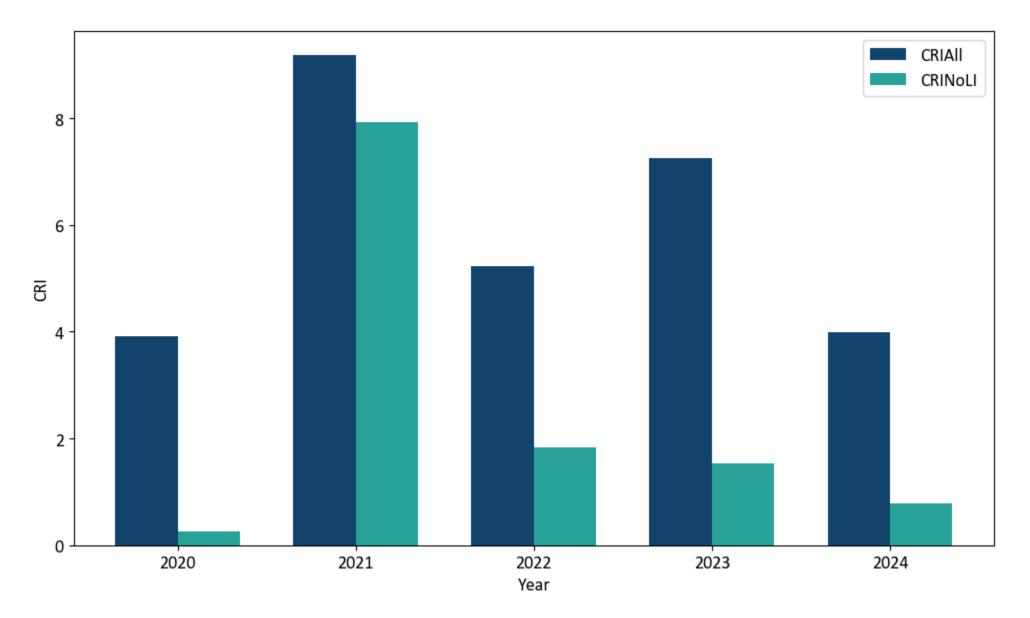
- -Legislative gaps include onward supply connections, cost recovery, r.8 supply description (and description)
- -Heathrow, new housing developments, dual pipe systems and temporary events

### Compliance risk index

CRI scores for companies in Wales

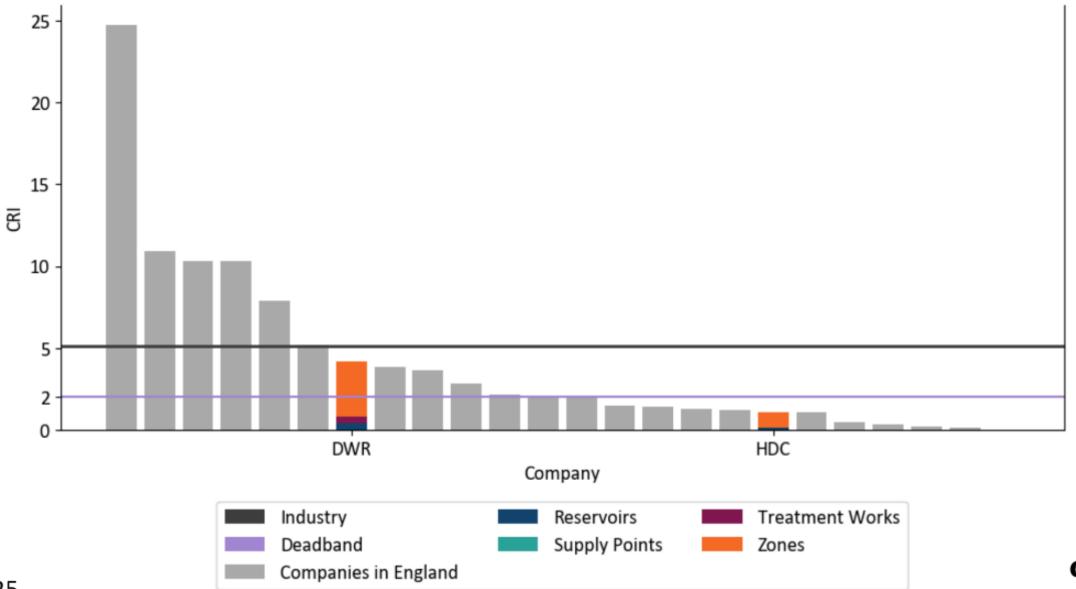


# CRI with and without legal instrument

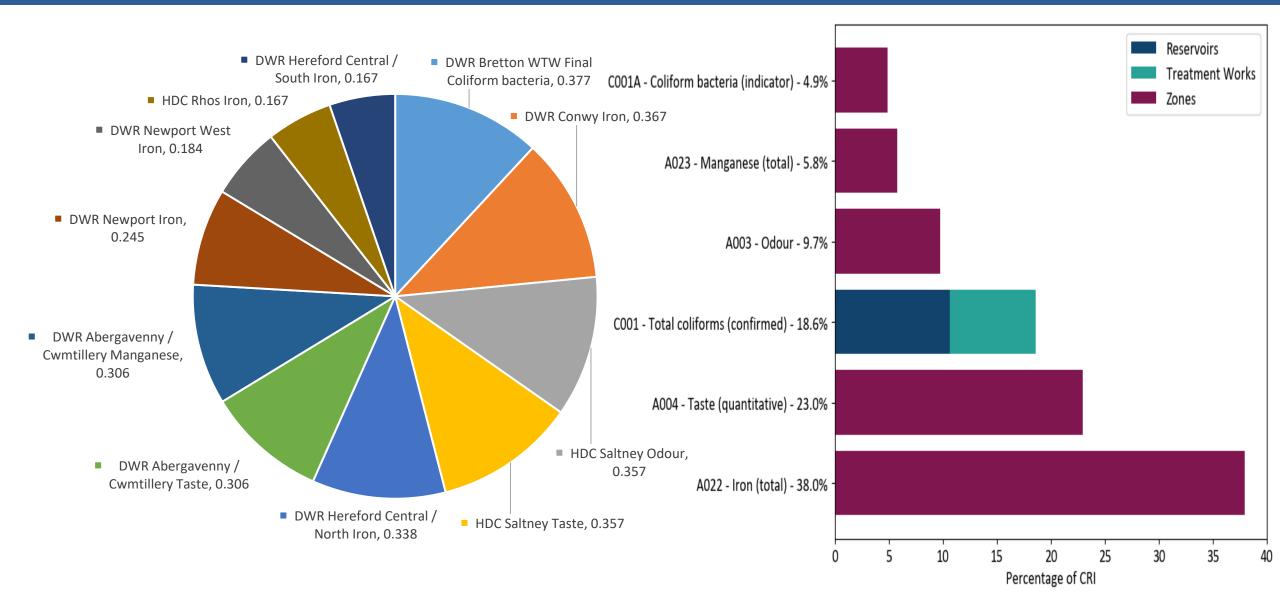




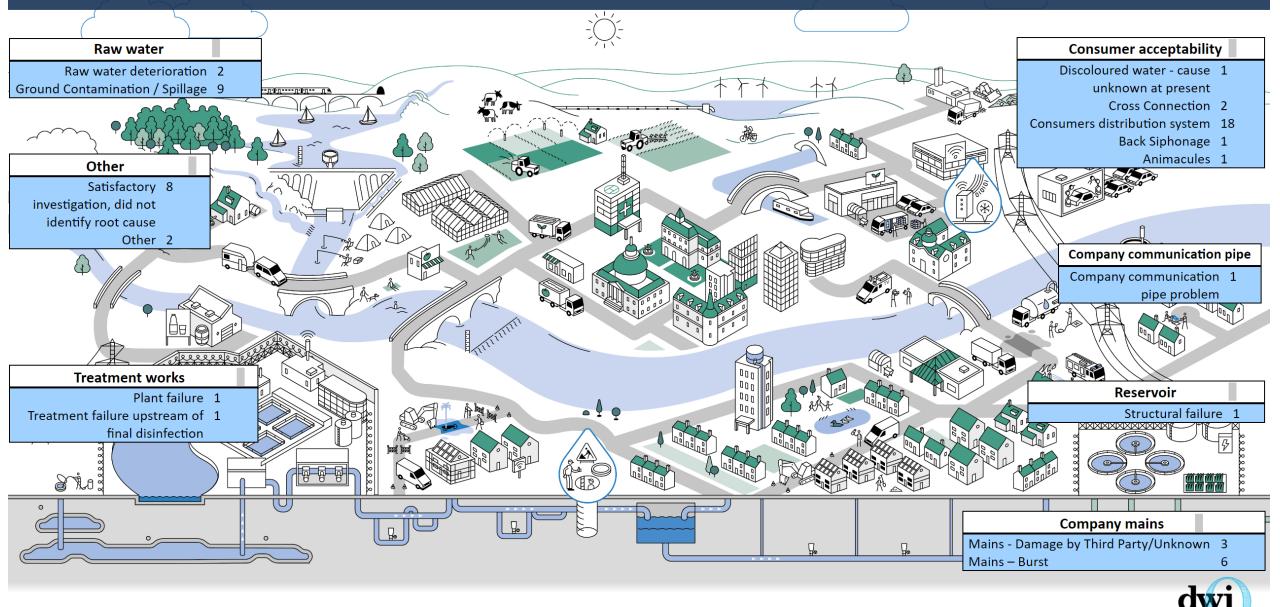
#### Compliance risk index



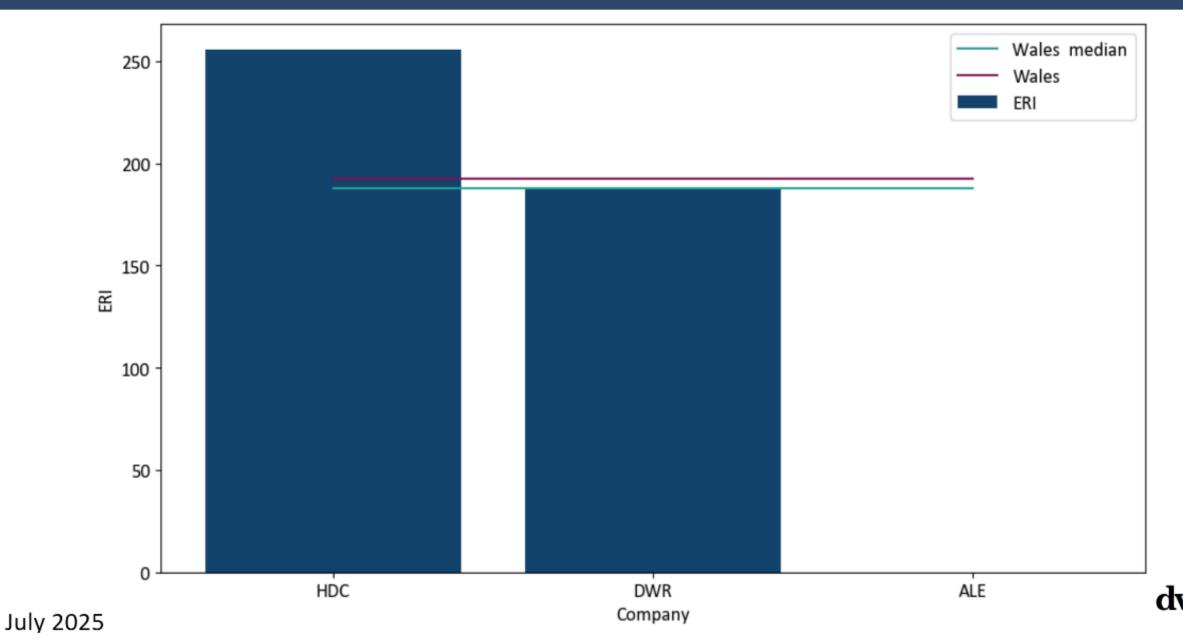
# CRI by Parameter



#### **Events**

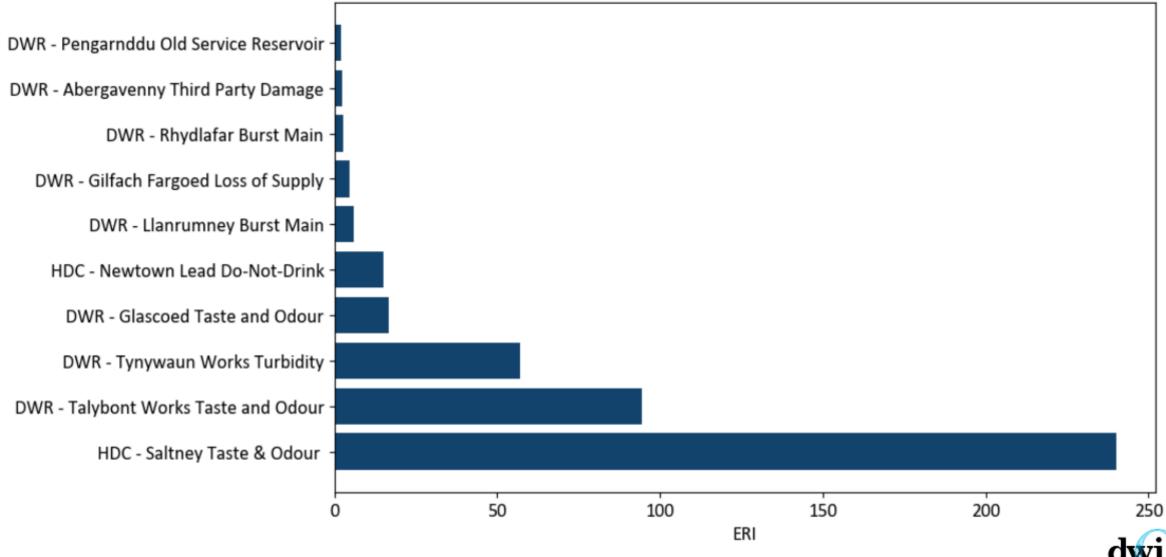


#### Event risk index



## Top 10 ERI events in Wales

Top 10 Events - Wales



Events

# Gilfach Fargoed – mains damage



- Damage to 24-inch service reservoir inlet main caused by company's waste water contractors.
- Downstream loss of supply.
- Reactive audit of alternative supplies deployment and management.
- Resulted in enforcement action and a r.28 notice.



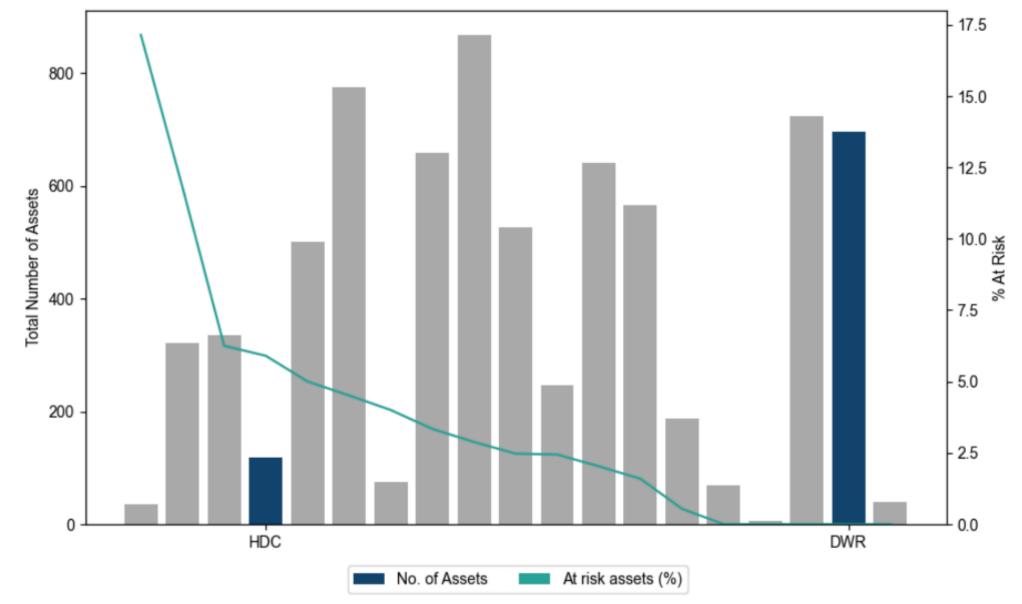
# Abergavenny – air valve damage



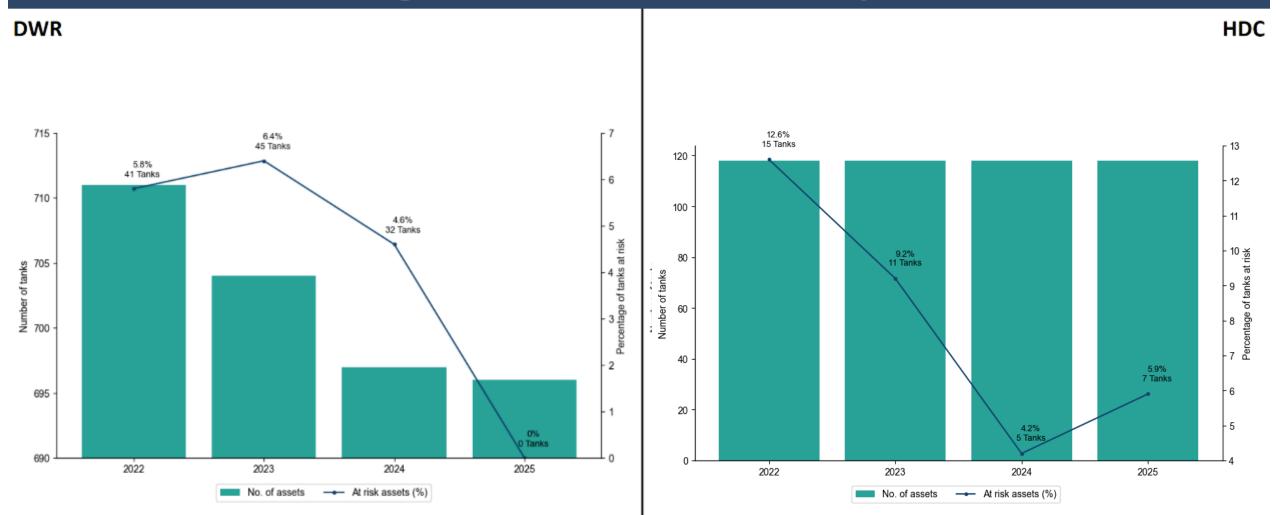
- Air valve sheared on 12inch high-pressure main by a plough.
- Caused loss of supply and discolouration.
- Valve was not 'critical' therefore not routinely inspected.



#### Service reservoirs overdue for inspection



#### Percentage of reservoirs >10yrs service



dwi

# Pangarnddu old service reservoir – animal remains





- Single compartment.
- Built in 1915.
- Roof added 40-50 years ago.
- No record of the tank ever being drained and inspected.
- Two notices coincide (1
  - build a new tank, 2 –
    inspect 10-year tanks.



# Audits in Wales

DWR	Call centre	25/03/2024
DWR	On site alternative supplies provision	05/05/2024
DWR	Felindre works and Pentre service reservoir	05/06/2024
DWR	DWSP Audit Bryn Cowlyd site audit	17/06/2024
HDC	Sugn y Pwll, Bronwylfa, and Gronwen service reservoirs	07/08/2024
DWR	Cwellyn	21/08/2024
DWR	Pen y bont	03/09/2024
DWR	Desktop audit - Air Valves	03/12/2024
HDC	Desktop audit - Air Valves	03/12/2024





# Sugn y Pwll reservoir

# Felindre works



Fencing altered to fit tank supports, leaving a gap.

> GAC regeneration dates. Six over the nine-year maximum set by the company.

Filter	Works	Date
1	Felindre	7/13/2011
2	Felindre	04/01/2018
3	Felindre	10/01/2011
4	Felindre	10/01/2020
5	Felindre	3/27/2012
6	Felindre	04/09/2010
7	Felindre	3/22/2013
8	Felindre	6/13/2019
9	Felindre	7/16/2013
10	Felindre	02/01/2022
11	Felindre	05/03/2019
12	Felindre	4/18/2019
1	Felindre	01/09/2023
8	Felindre	08/07/2023



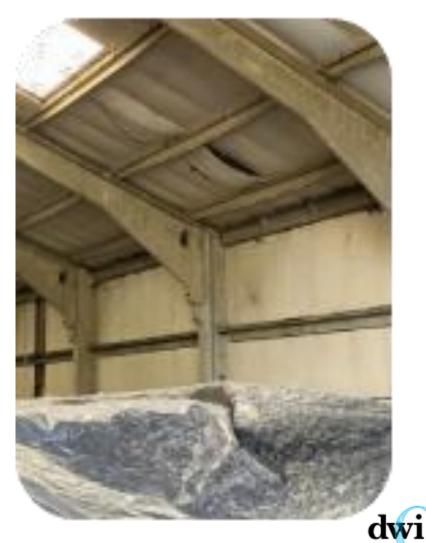
# Felindre Works



# Bottle storage

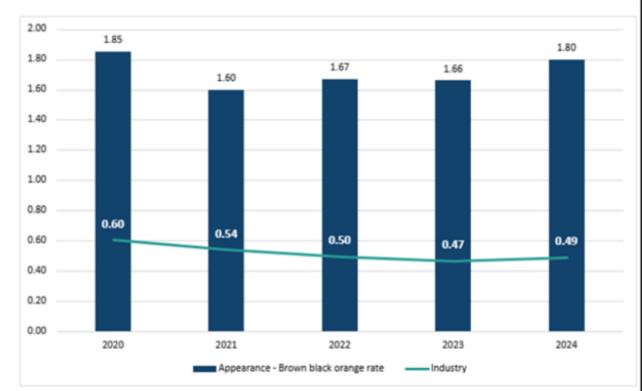


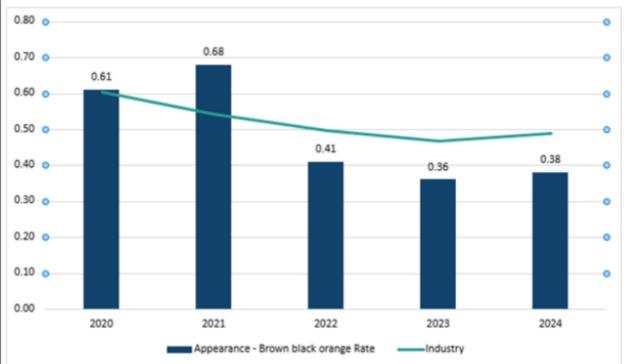




#### Discolouration

DWR

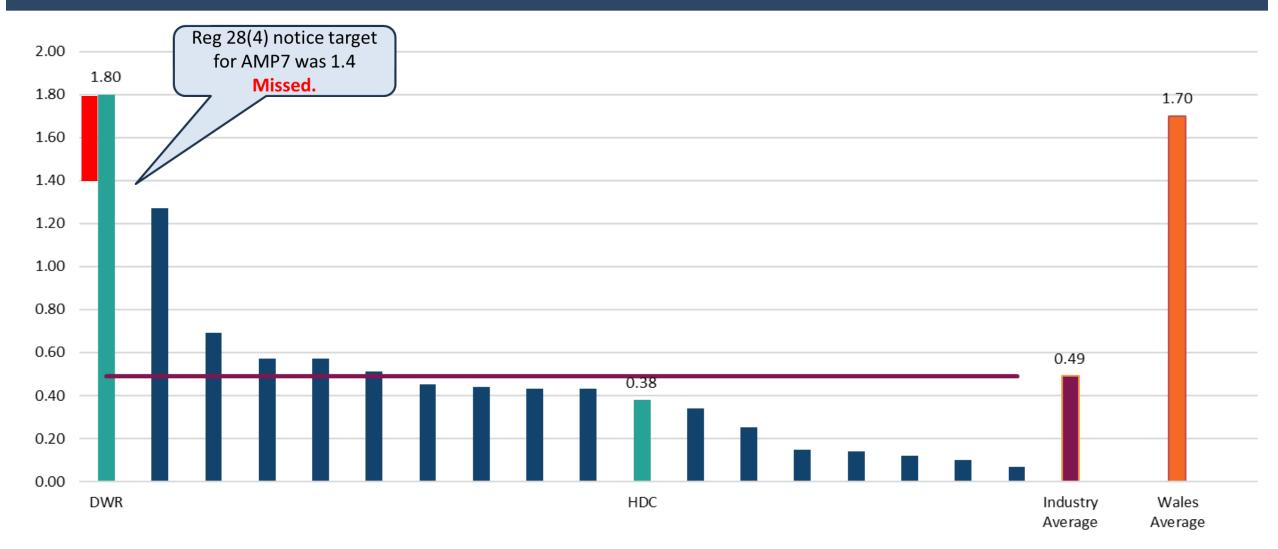






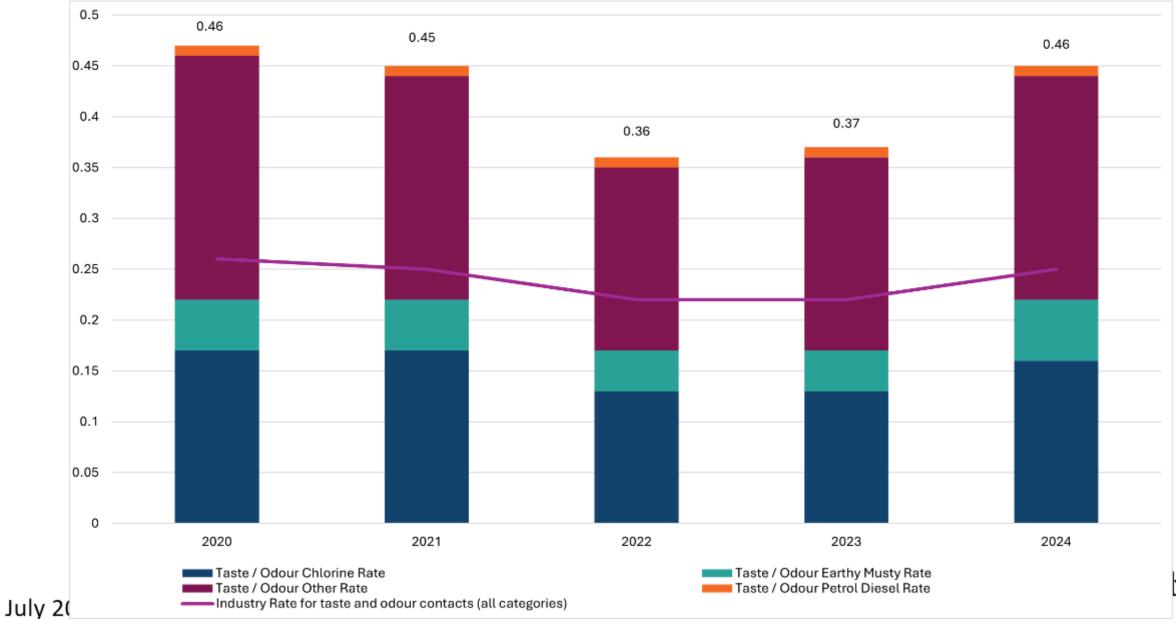
HDC

### **Discolouration 2024**



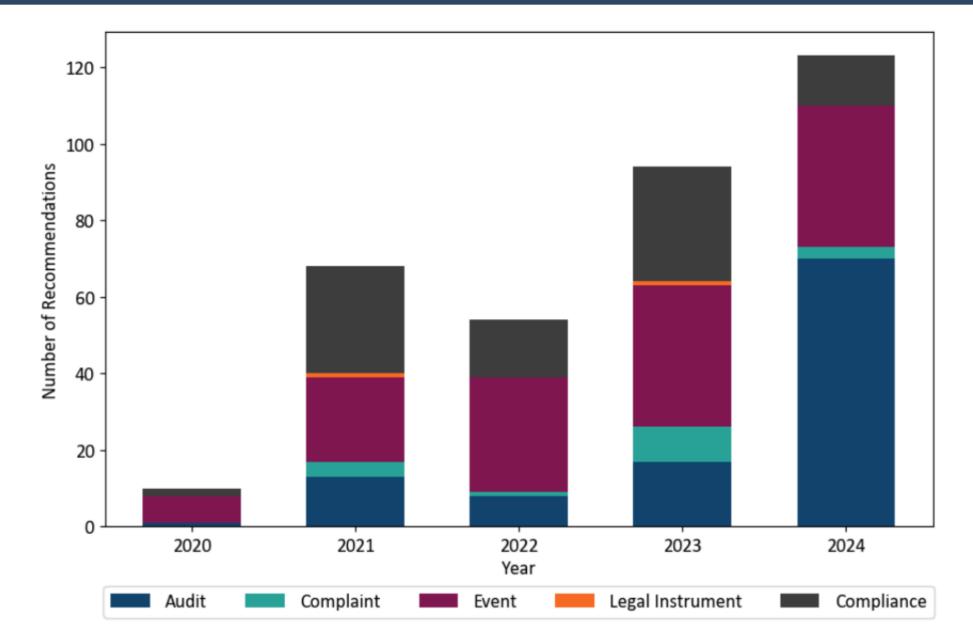


#### Taste and Odour 2024



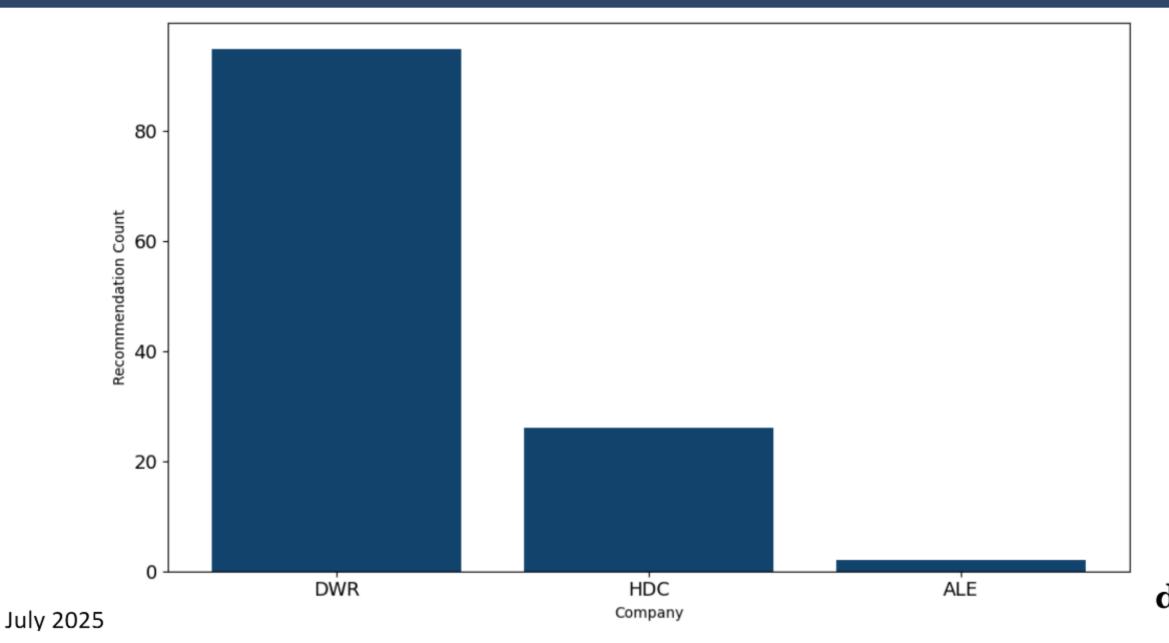
wi

#### Wales recommendations - five years

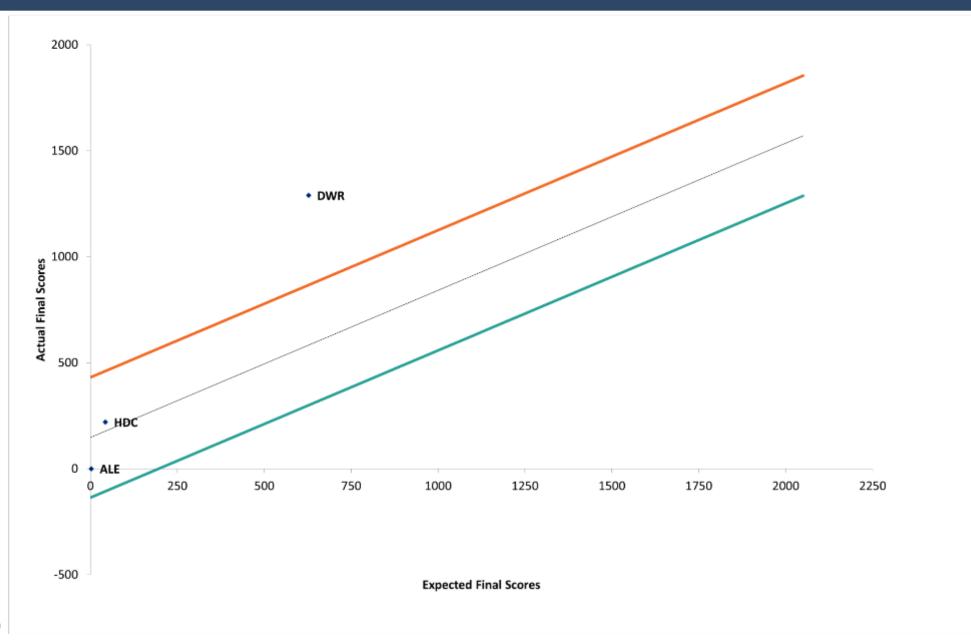




#### Recommendations by company and type

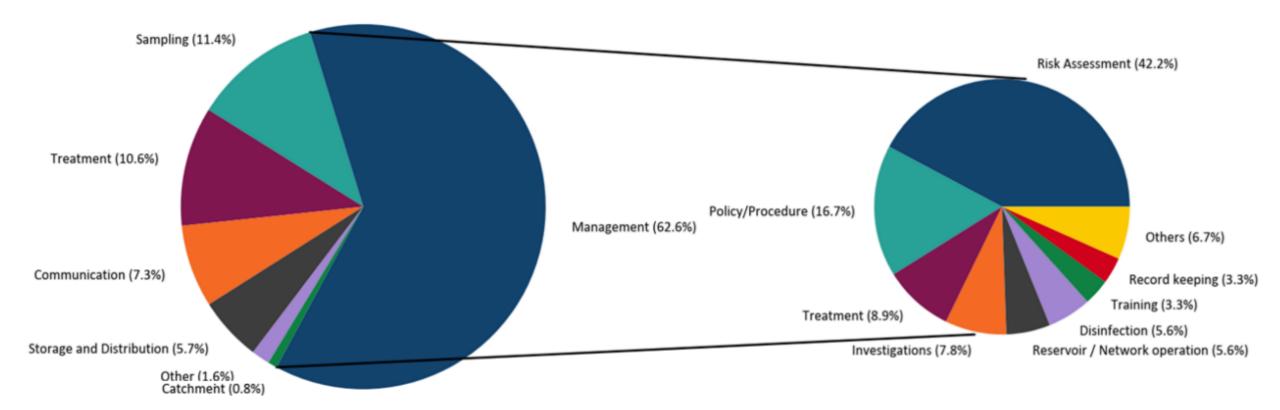


#### Recommendation risk index



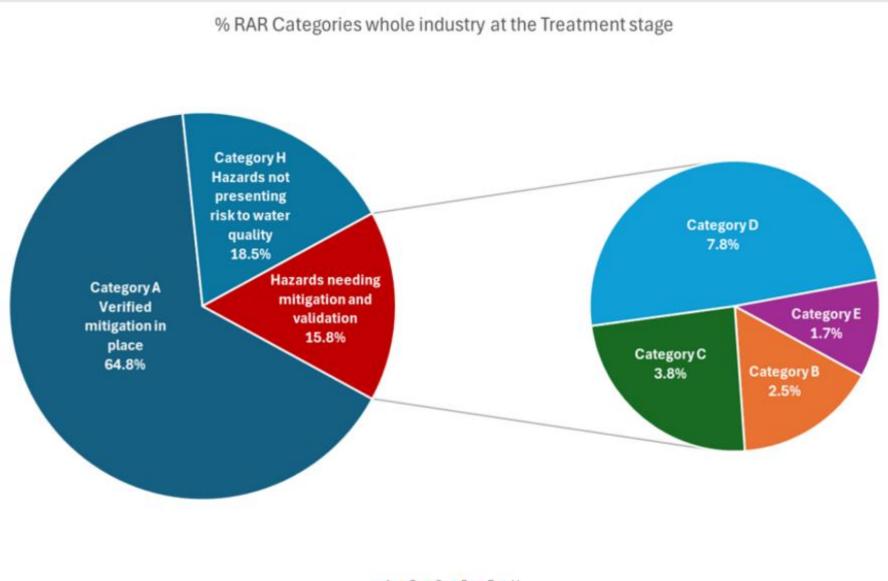


#### Recommendations by category

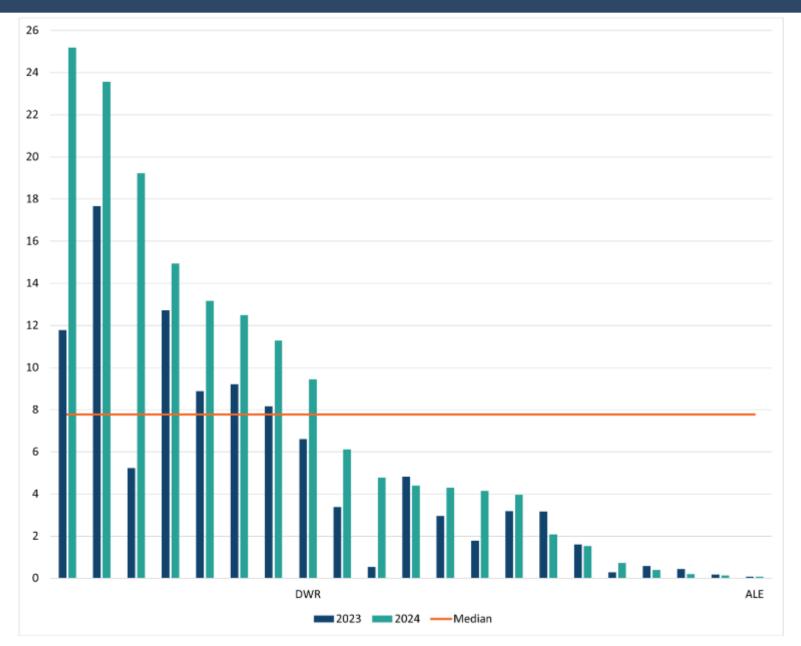




#### Recommendations by category

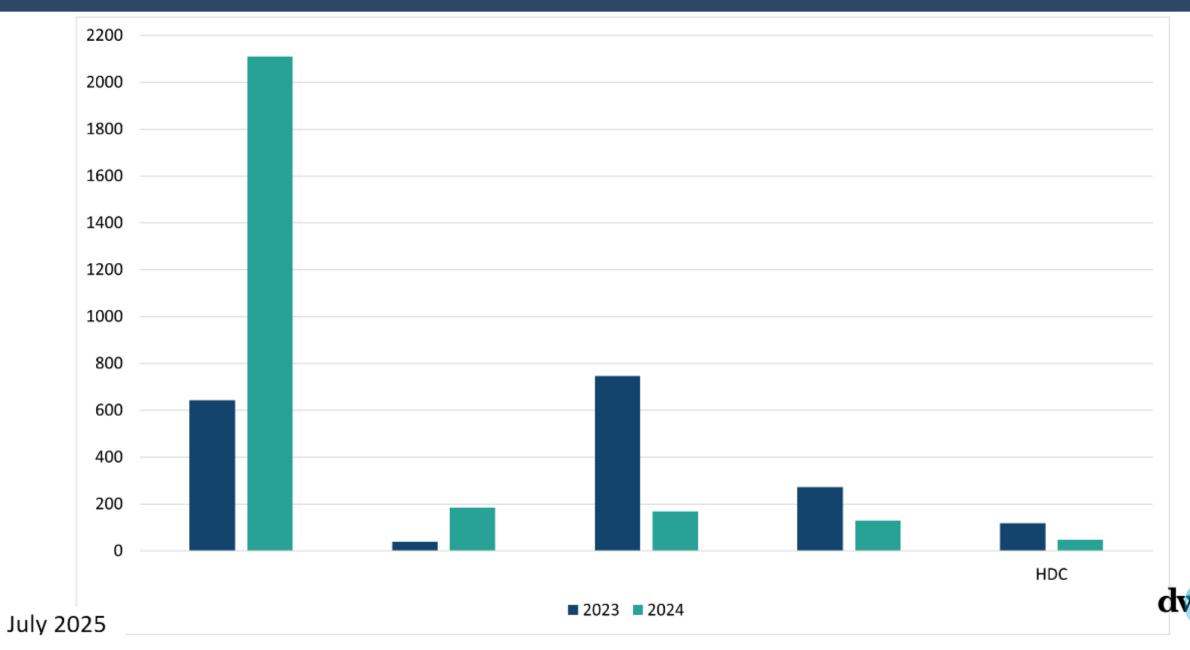


#### RARI

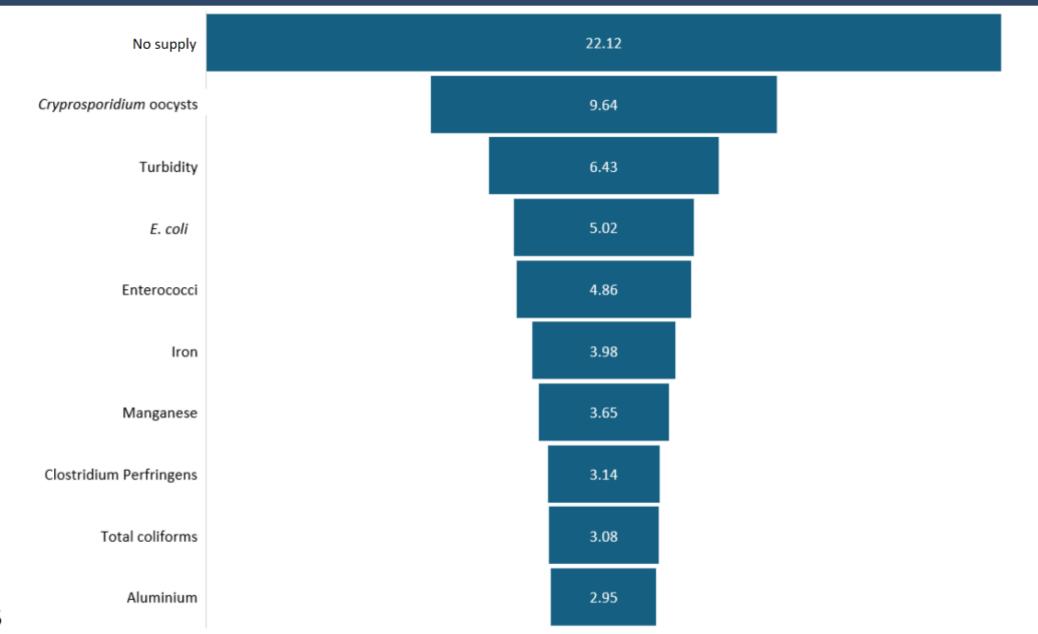




#### RARI



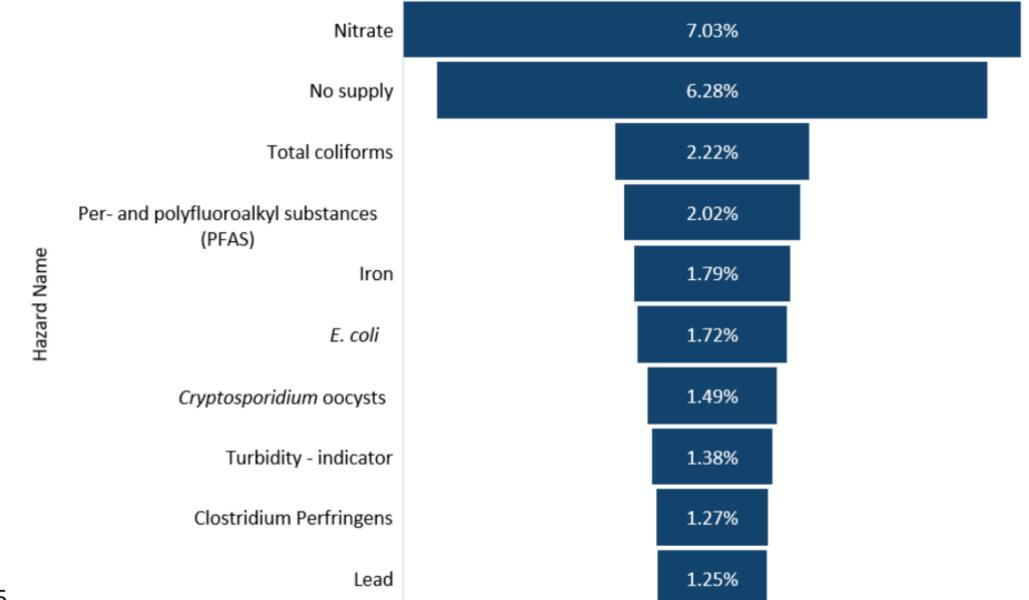
#### Current risks - Wales



July 2025

lwi

#### **Future Risks - Industry**



### PFAS surveillance

30K

20K

10K

OK

Count of SampleResult

#### **PFAS tests above detection limit**

Tier	Operational	RawWater	
Tier1	443	75	
Tier2		6	
Tier 3 detections in treated water			
0			
Number of species found in raw water			
21			
Number of species found in treated water			
27			

#### Number of PFAS tests taken in the year 30,366 PFAS tests results per year 30K 16K 2022 2023 2024 Year

#### Most common species found

Raw water

Name	▼ Number
PFBS	23
PFBA	19
PFOA	11

Treated water

Name	▼ Number	
PFBS	216	
PFHxA	47	
PFOA	39	



July 2025

### Enforcement - areas of active enforcement

Legal Instrument type	AMP 8 (2025 - 2030)	Not Linked to AMP	Transformation Programme	Total
Acknowledged Actions	1			1
NIS Regulation 17(1) Notice	2			2
DWQ s.19 Undertaking	3			3
SEMD s.19 Undertaking	5			5
DWQ Regulation 28(4) Notice	4	5	5	14
Total	15	5	5	25



# Purpose of Regulation 31

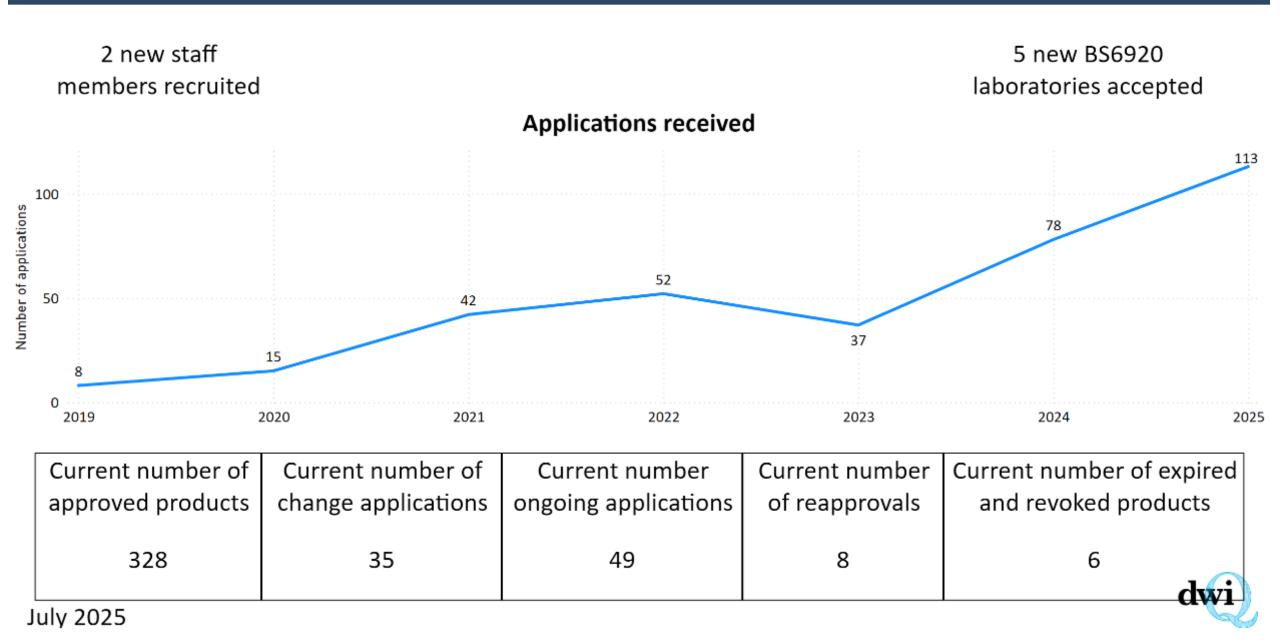


It is the responsibility of the water supplier to ensure that products used in the production, supply and distribution of drinking water meet the requirements of regulation 31 or are appropriately approved, under regulation 31(4) (a), or meet the requirements of regulation 31(4) (b) or (c) before introducing them into the water supply.





### **Regulation 31**



# **Regulatory strategy**

#### **Recognition of Gaps**

#### Water Supply Regulations

New Contaminants, Responsible Person, Regulatory Reach Sampling Schedules

#### Sufficiency and Resilience

This is likely to become more of an issue with climate change impacts such as more extreme weather events and the resilience of network infrastructure

Resource and Recycling

Absence of Clarity on who Regulates and what is Regulated

Advisory group work

Recommendation to update regulations 2

Schedule SI legislation ?





