



Drinking water 2019

Marcus Rink
Chief Inspector of Drinking Water

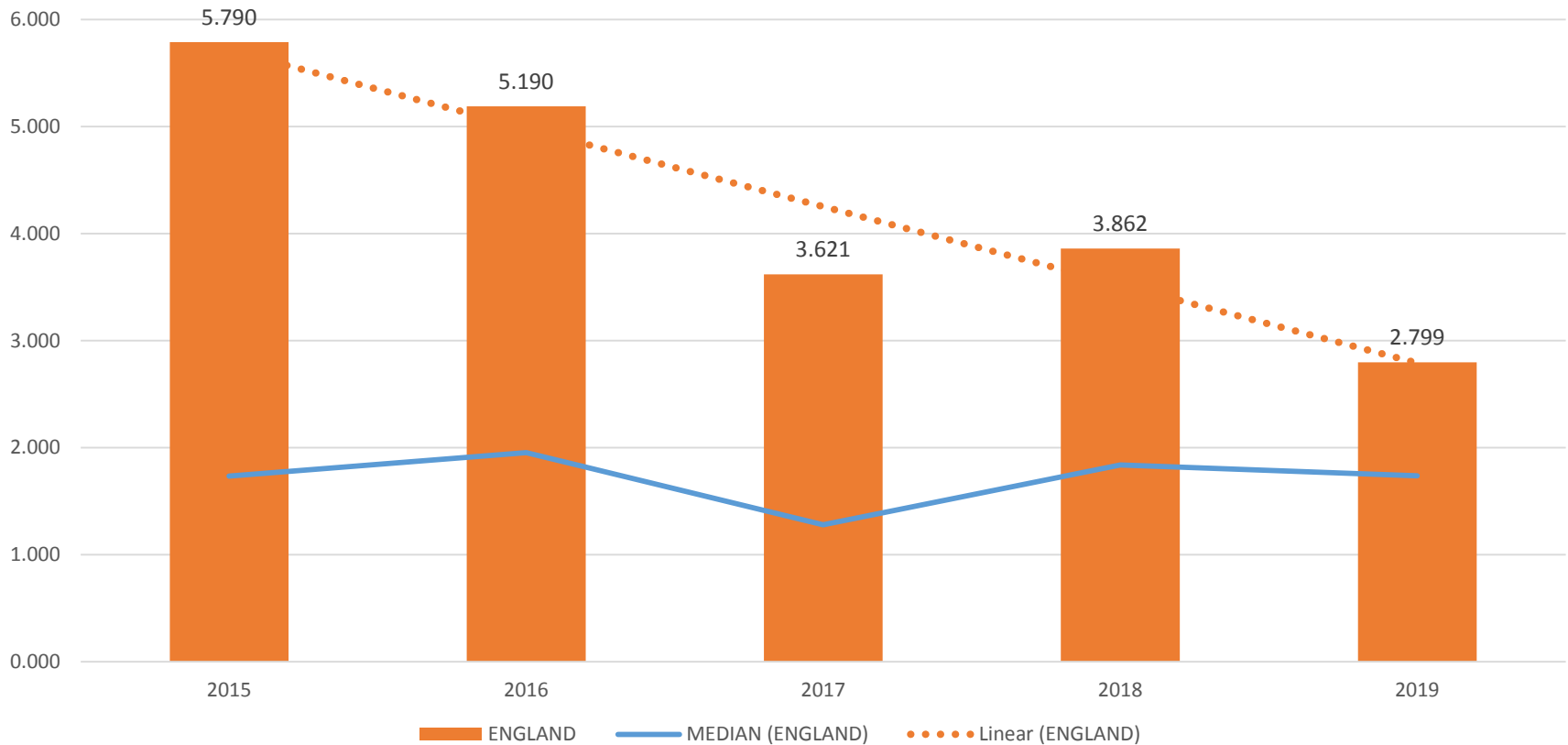
Overview

- CRI
- ERI
- Discolouration & Contacts
- Audits
- Recommendations
- Regulatory Innovation
- Network Information Systems

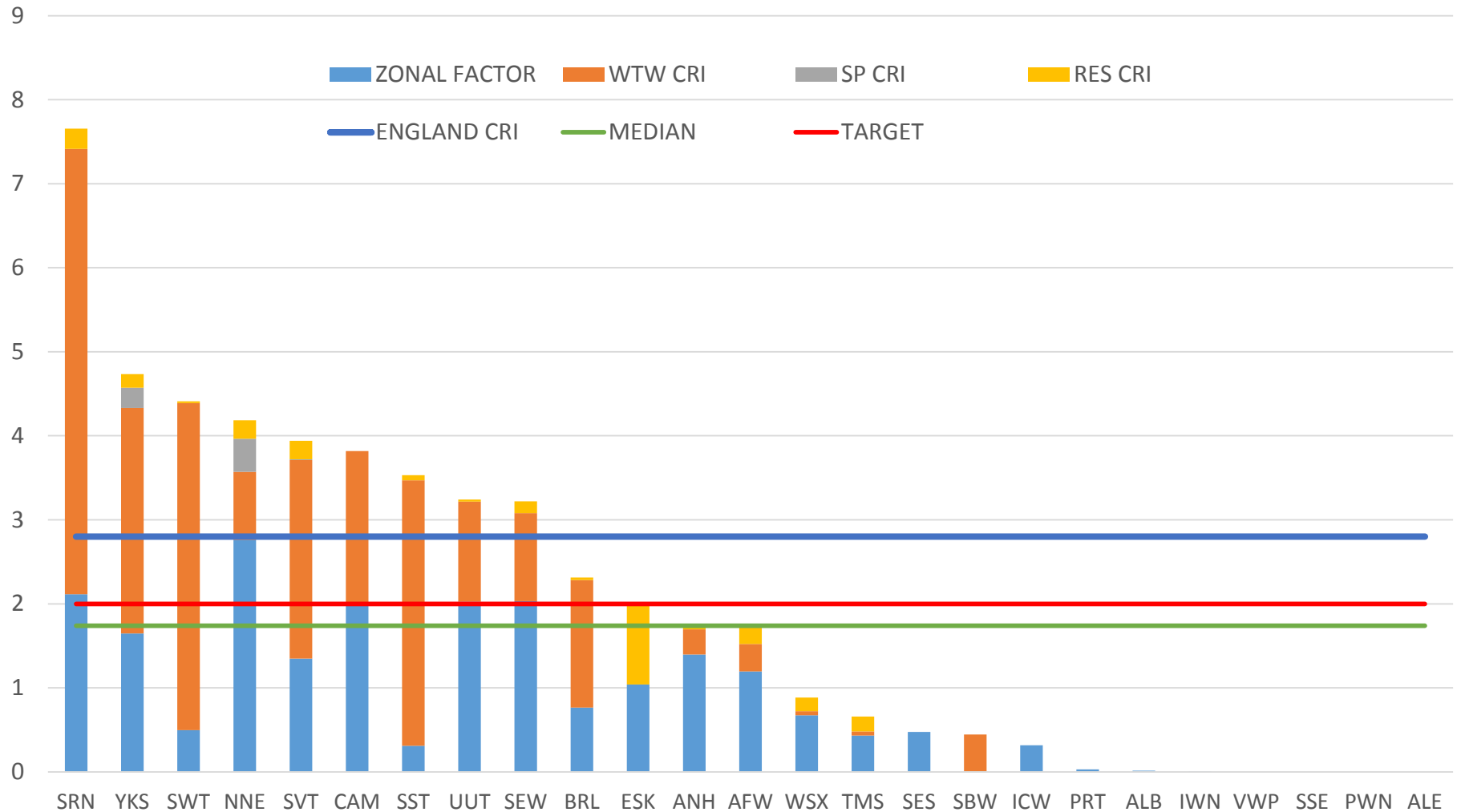
Compliance Risk Index

— CRI for England 2.8 (National CRI 2.87)

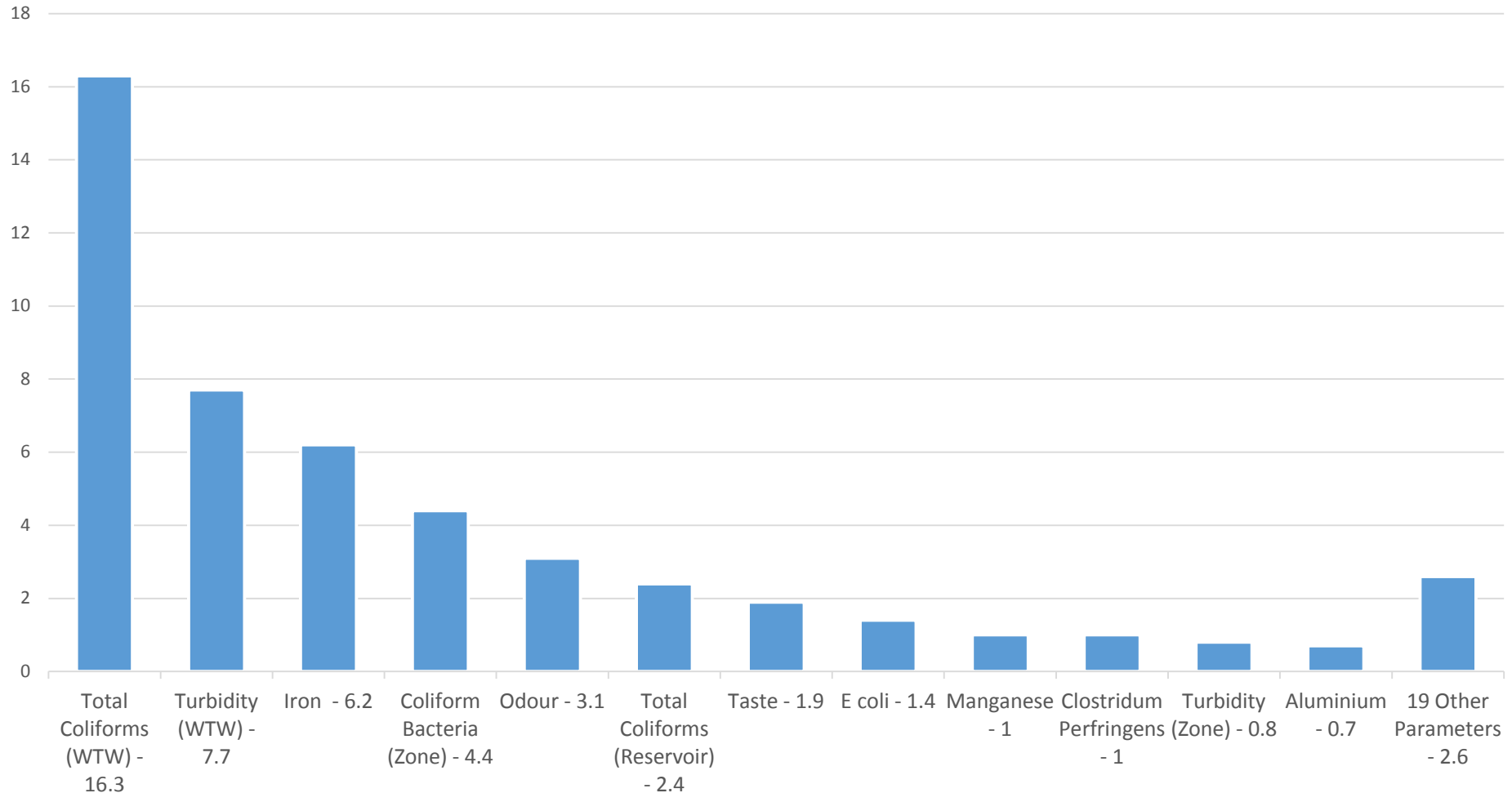
5 YEAR CRI -ENGLAND



Company CRI for England



CRI Profile in England



July 2020

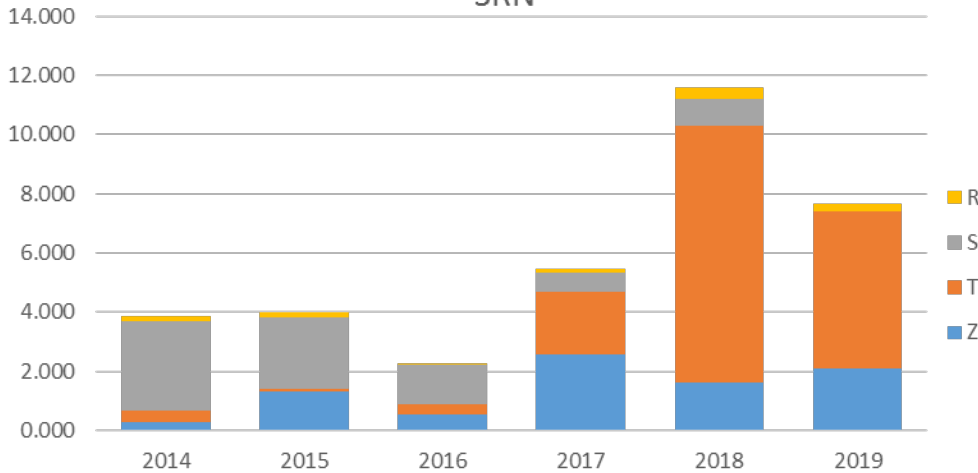


Drinking water Compliance

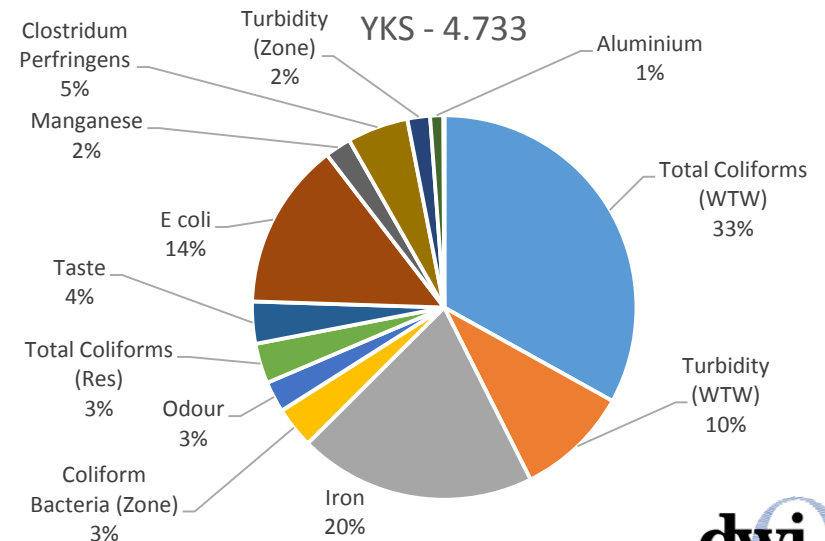
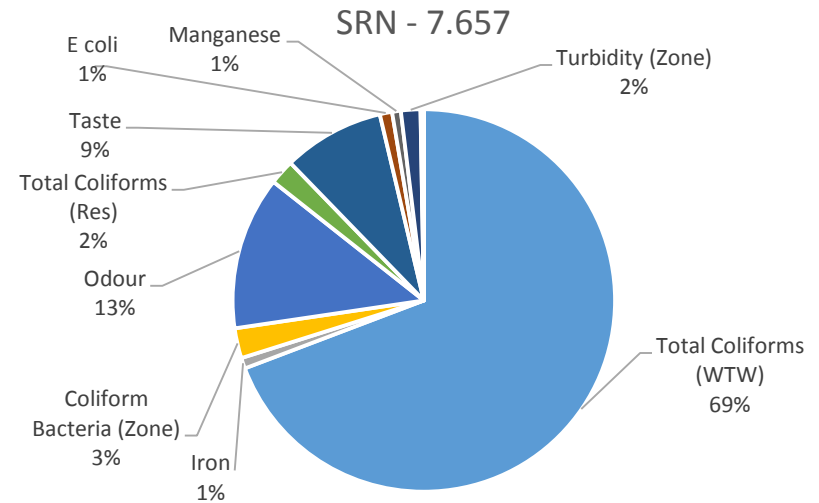
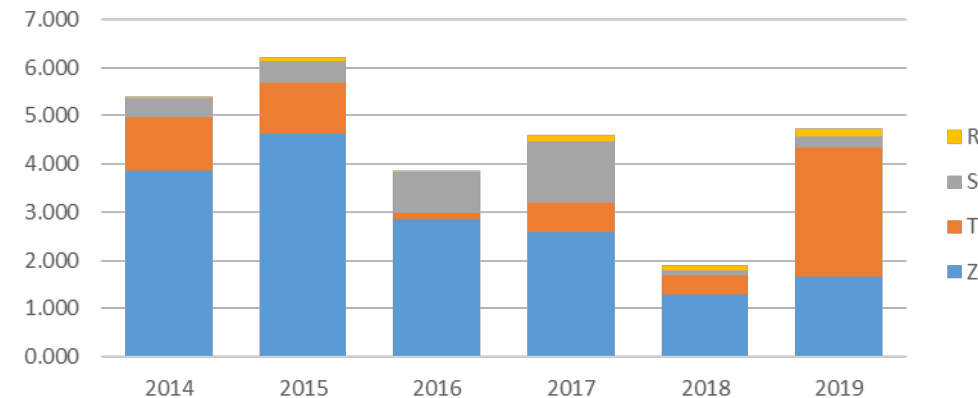
- Key Compliance Failures:
 - 4 *E.coli* in WTWs & 46 Coliform Failures in England
 - *E. coli* (2 YKS, 1 AFW, 1 UUT), Coliforms (13 SRN, 6 SVT, 5 YKS.....)
 - 25 Turbidity in WTWs in England
 - 6 SVT, 3 SWT, 3 YKS.....
 - 11 *E.coli* & 96 Coliform Failures in SRs in England
 - *E. coli* (2 ANH, 3 NNE, 2 WSX, 1 SEW, 1 SRN, 1 SVT, 1 SWT), Coliforms (20 SVT, 12 TMS, WSX, 10 NNE.....)
 - 103 Odour and 57 Taste,
 - O (22 SVT, 17 ANH....), T (12 SVT, 2 ANH)
 - 101 Iron prominent
 - (23 YKS, 19 UUT.....)
 - 69 Lead, 28 Nickel remain a concern

Company CRI

SRN

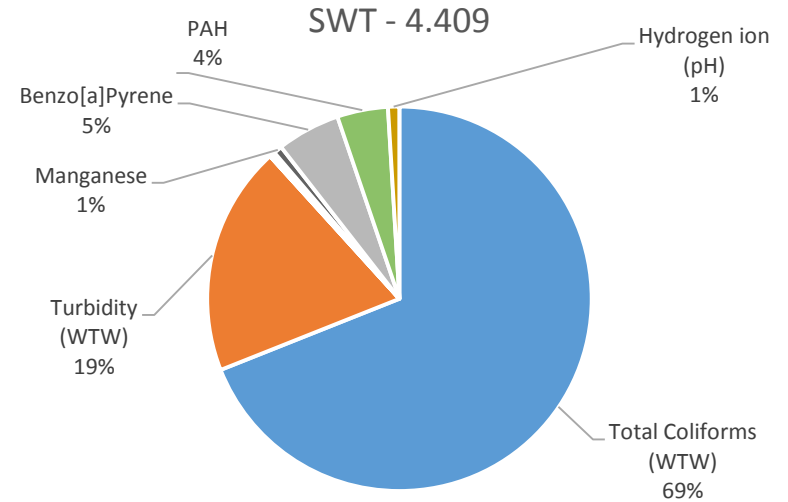
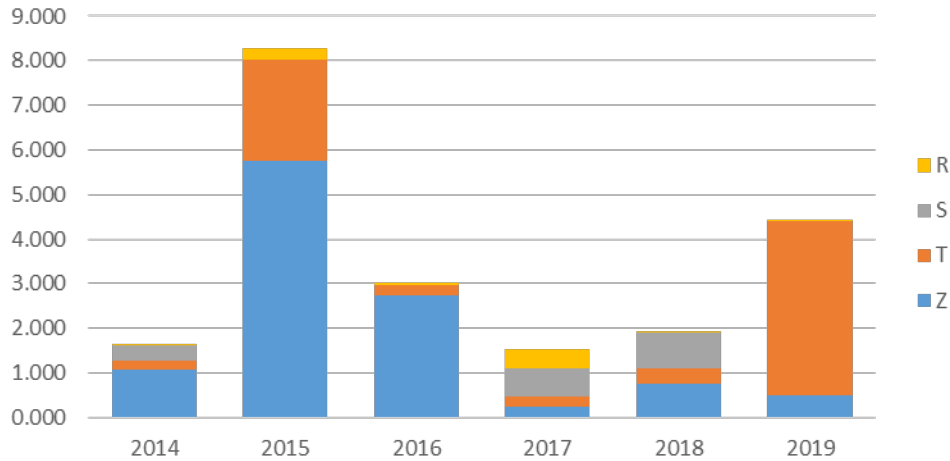


YKS

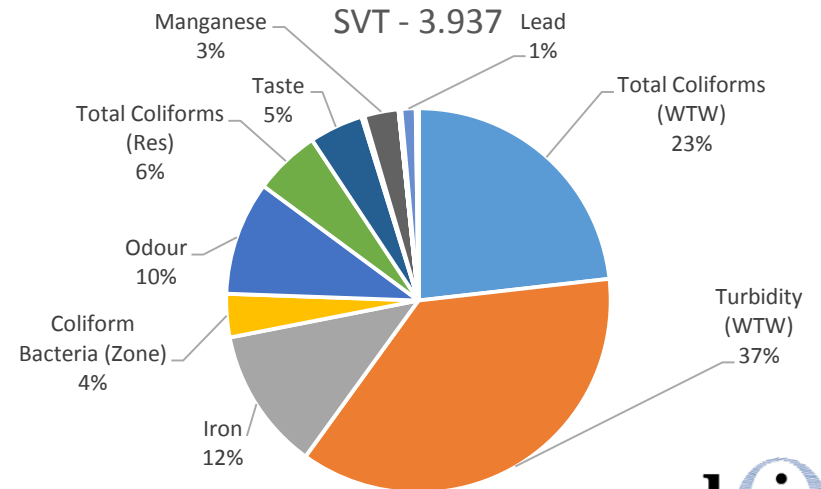
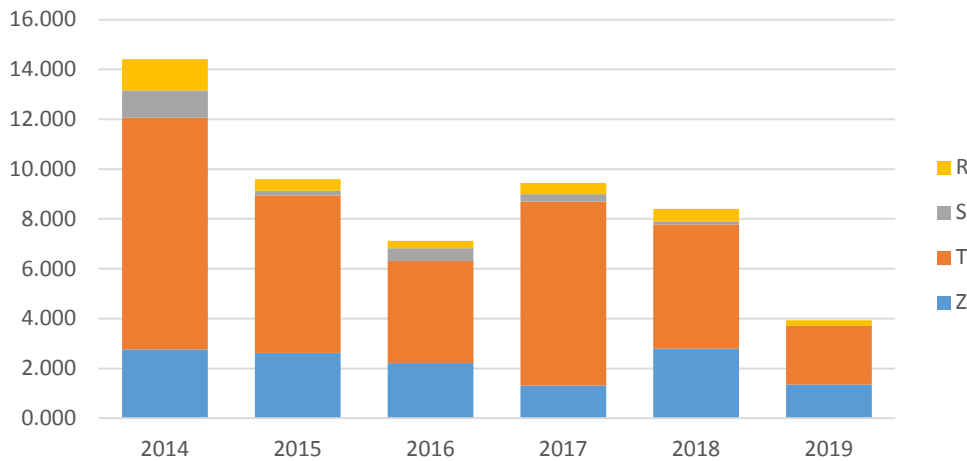


Company CRI

SWT

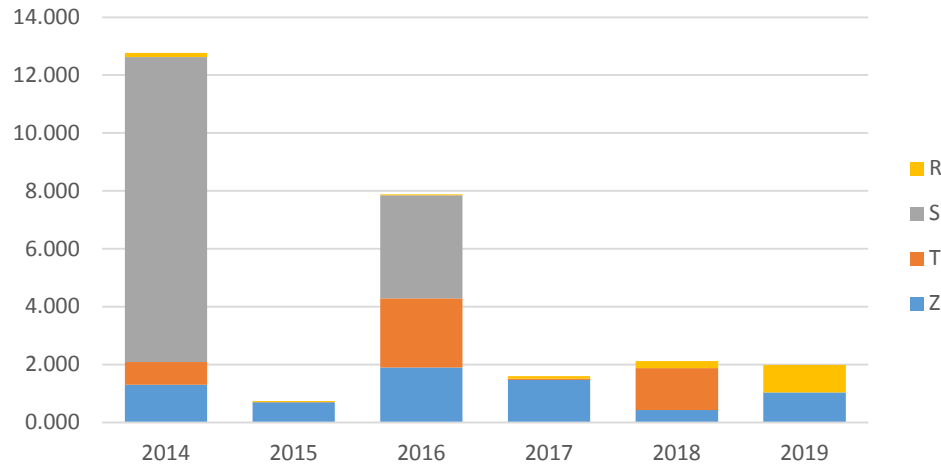


SVT

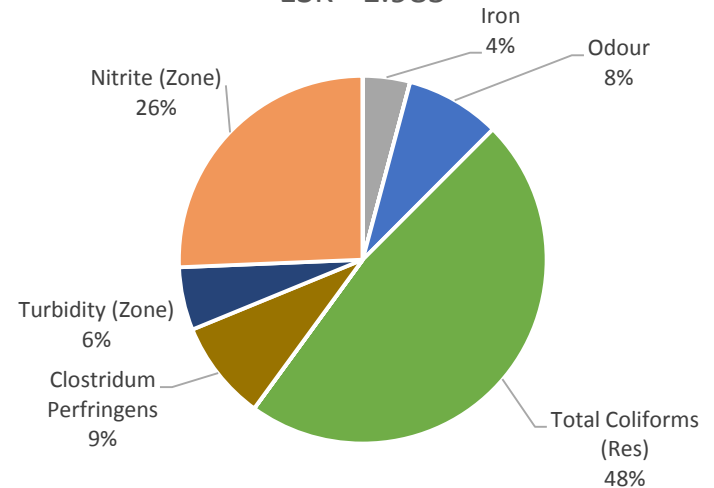


Company CRI

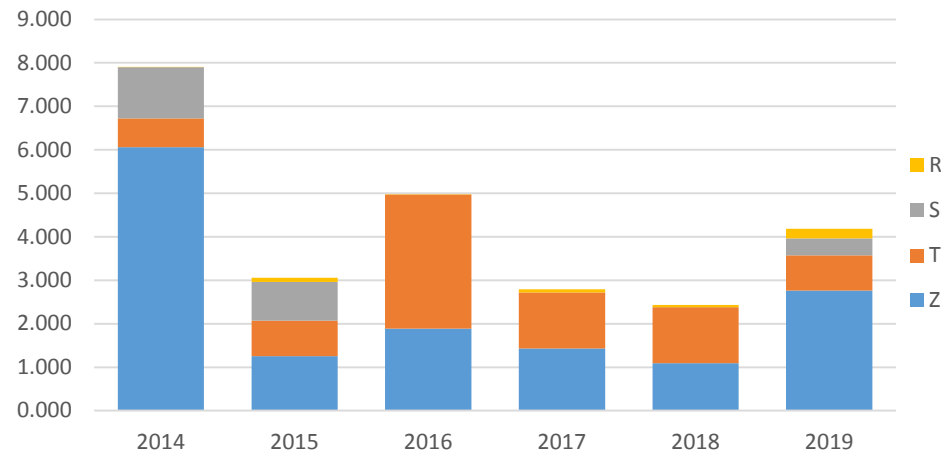
ESK



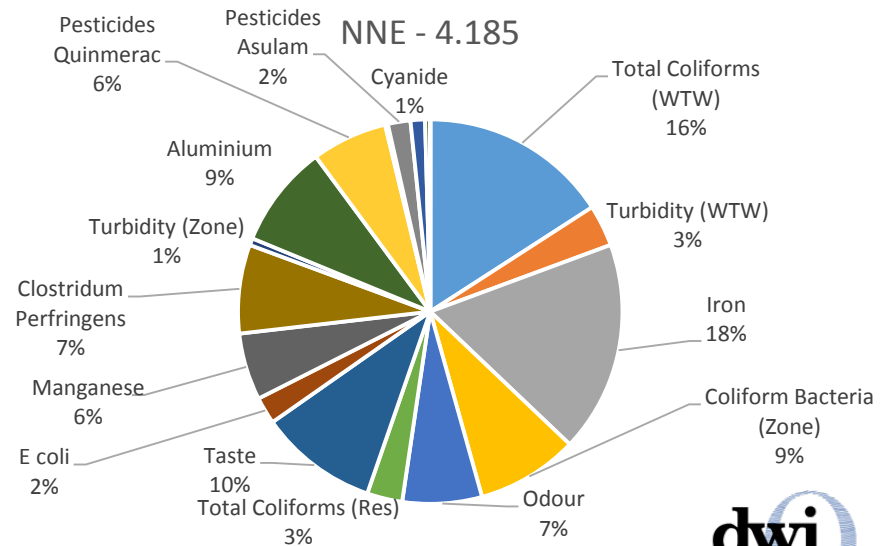
ESK - 1.985



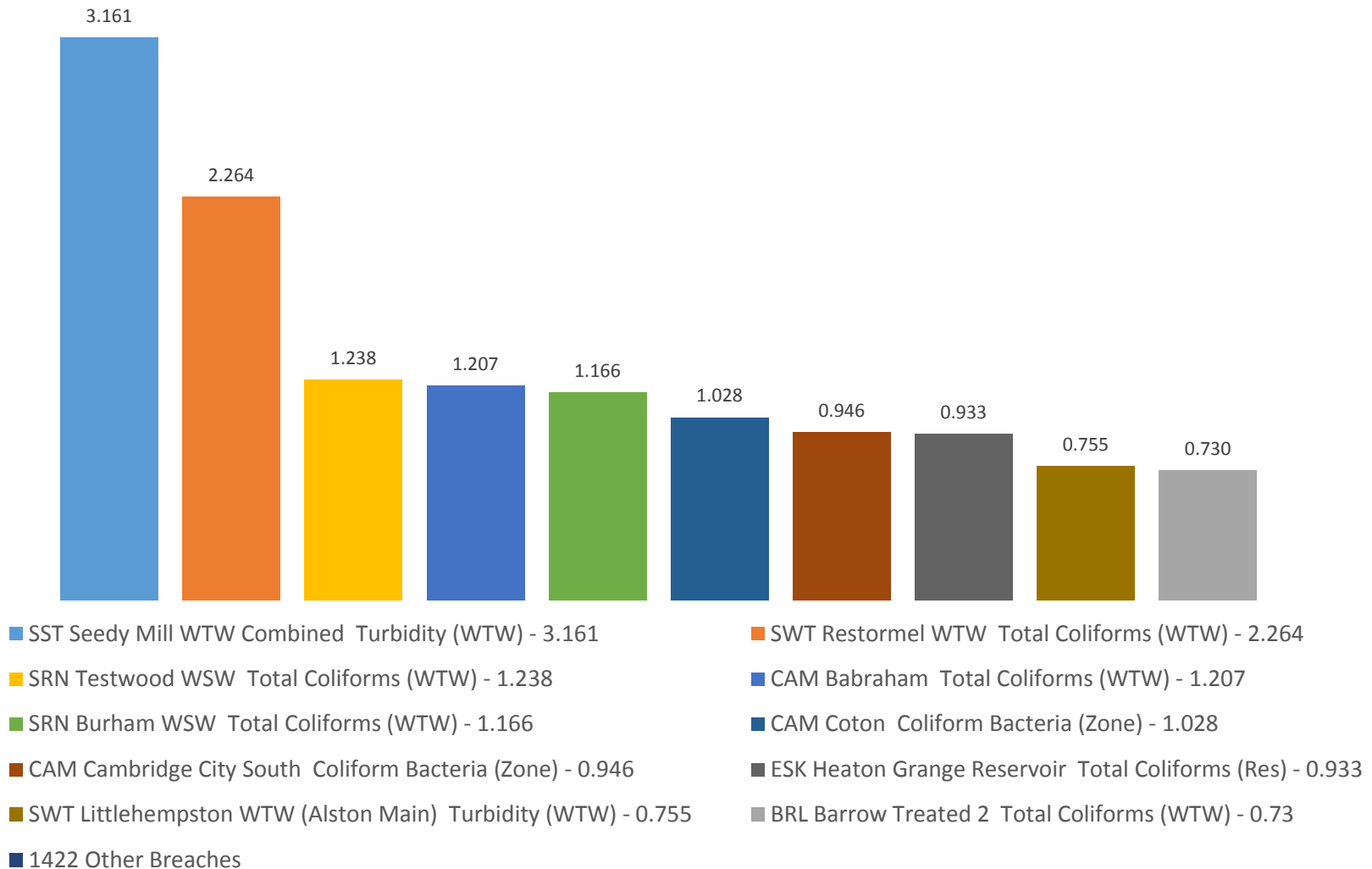
NNE



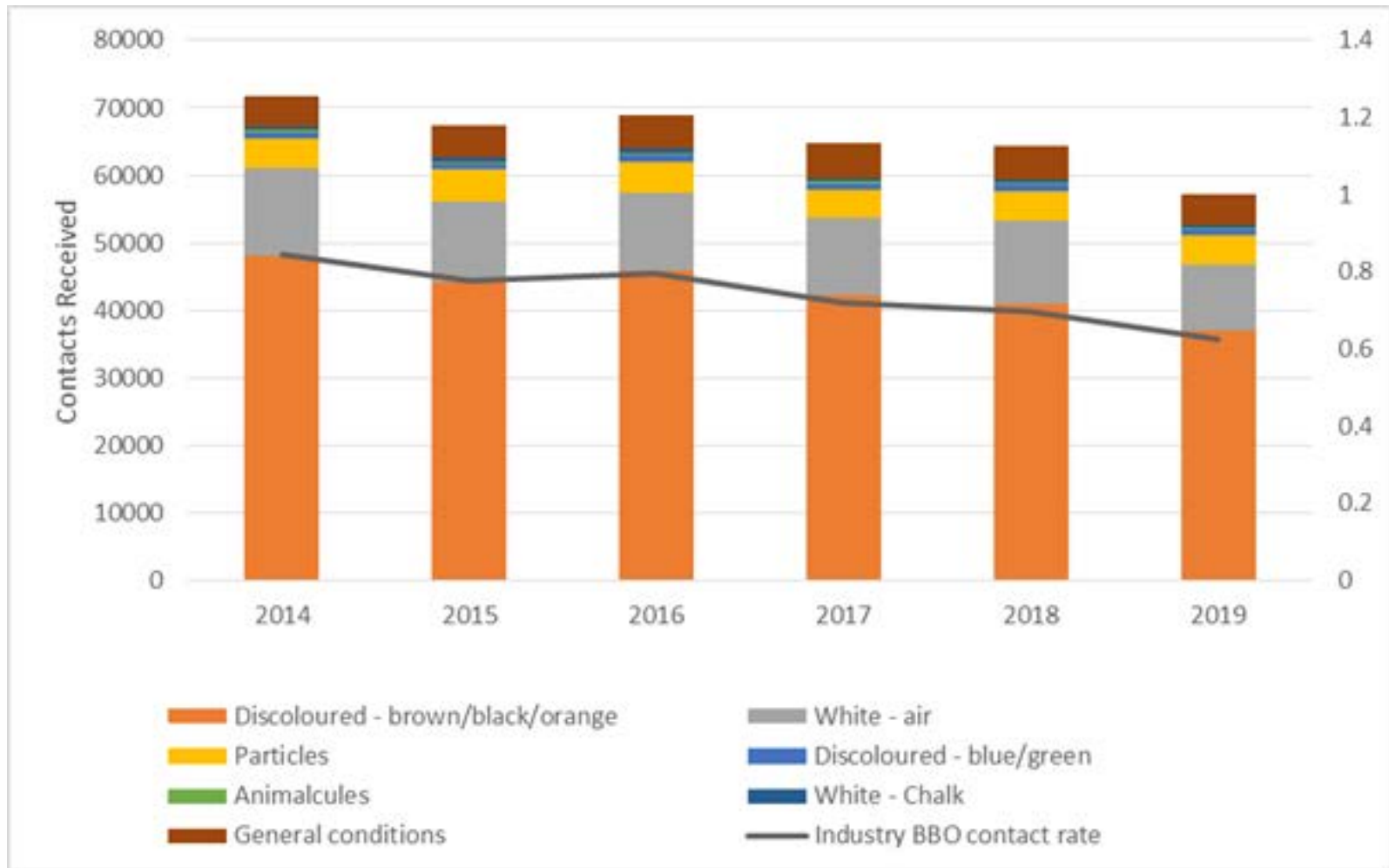
NNE - 4.185



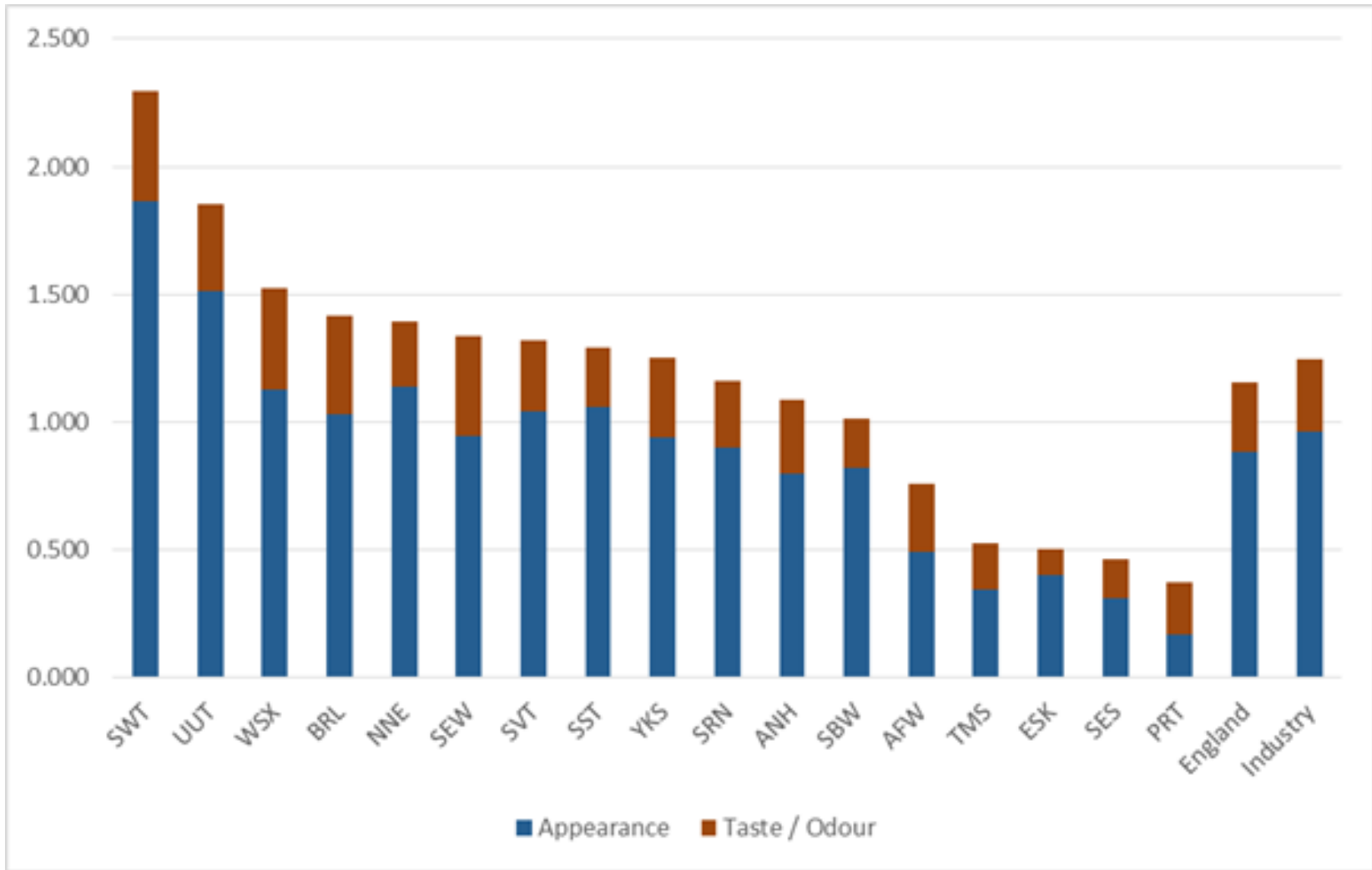
Top CRI Contributing Failures



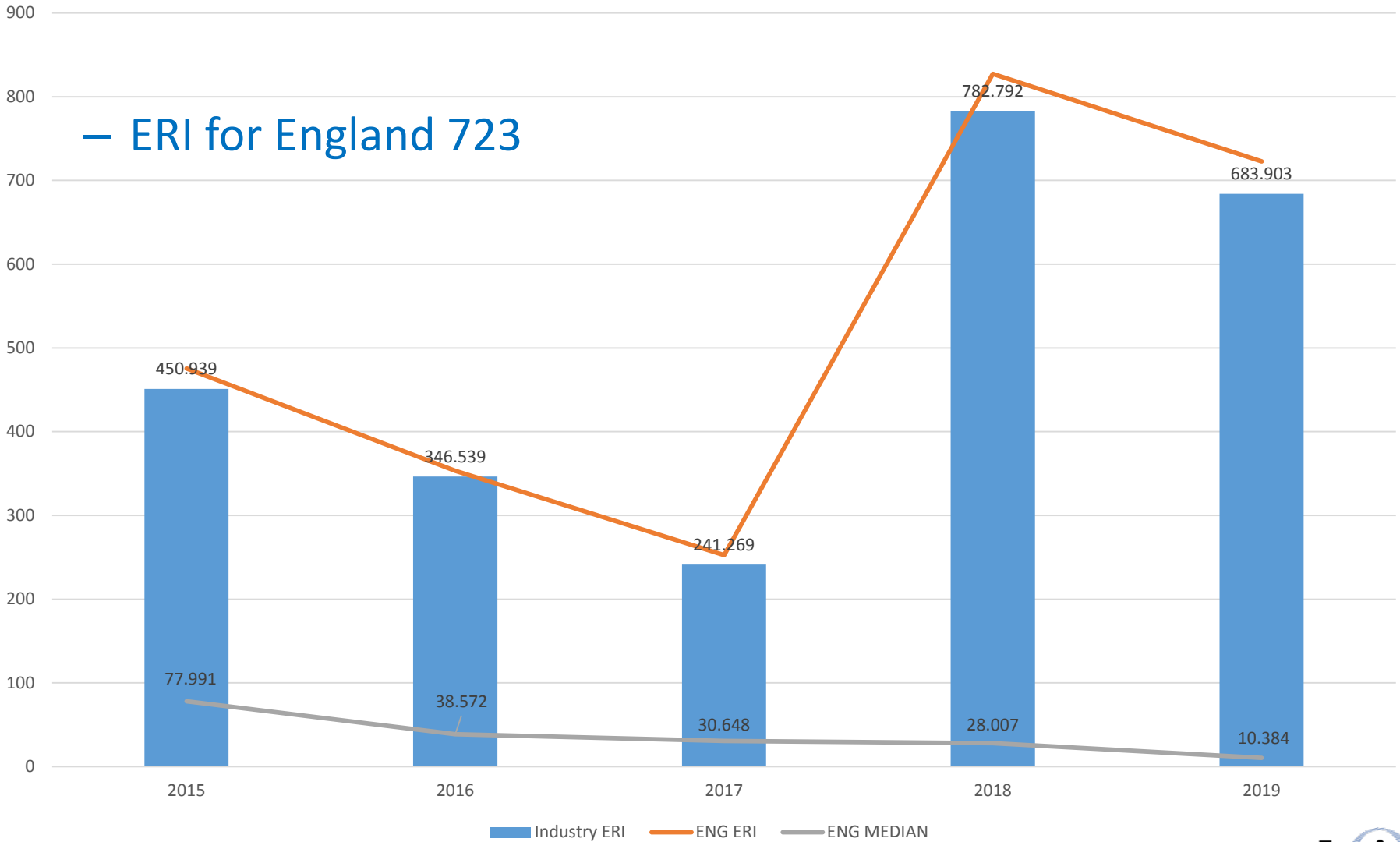
2014-2019 Appearance Contacts - England



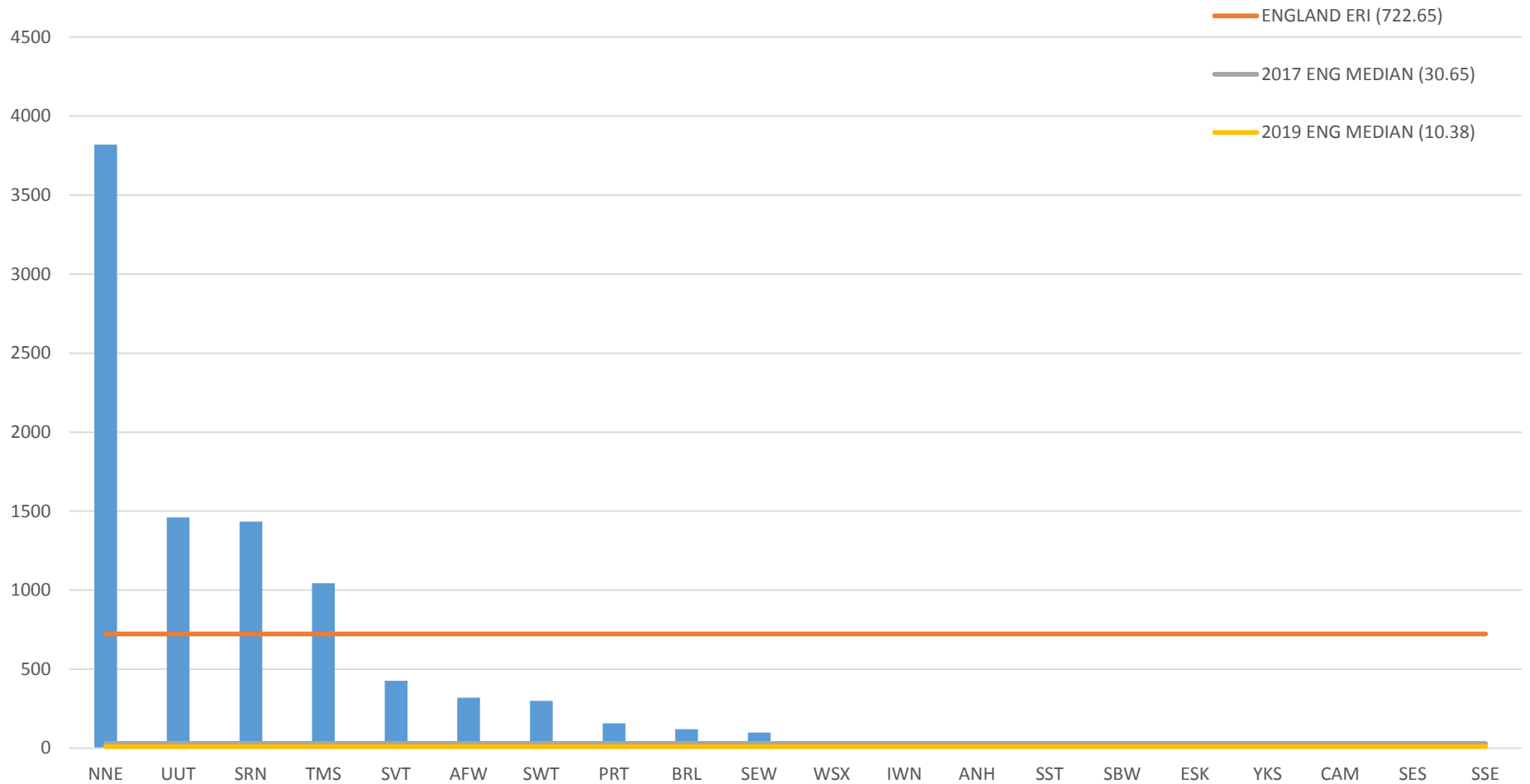
Contacts/1,000 Appearance & Taste/Odour



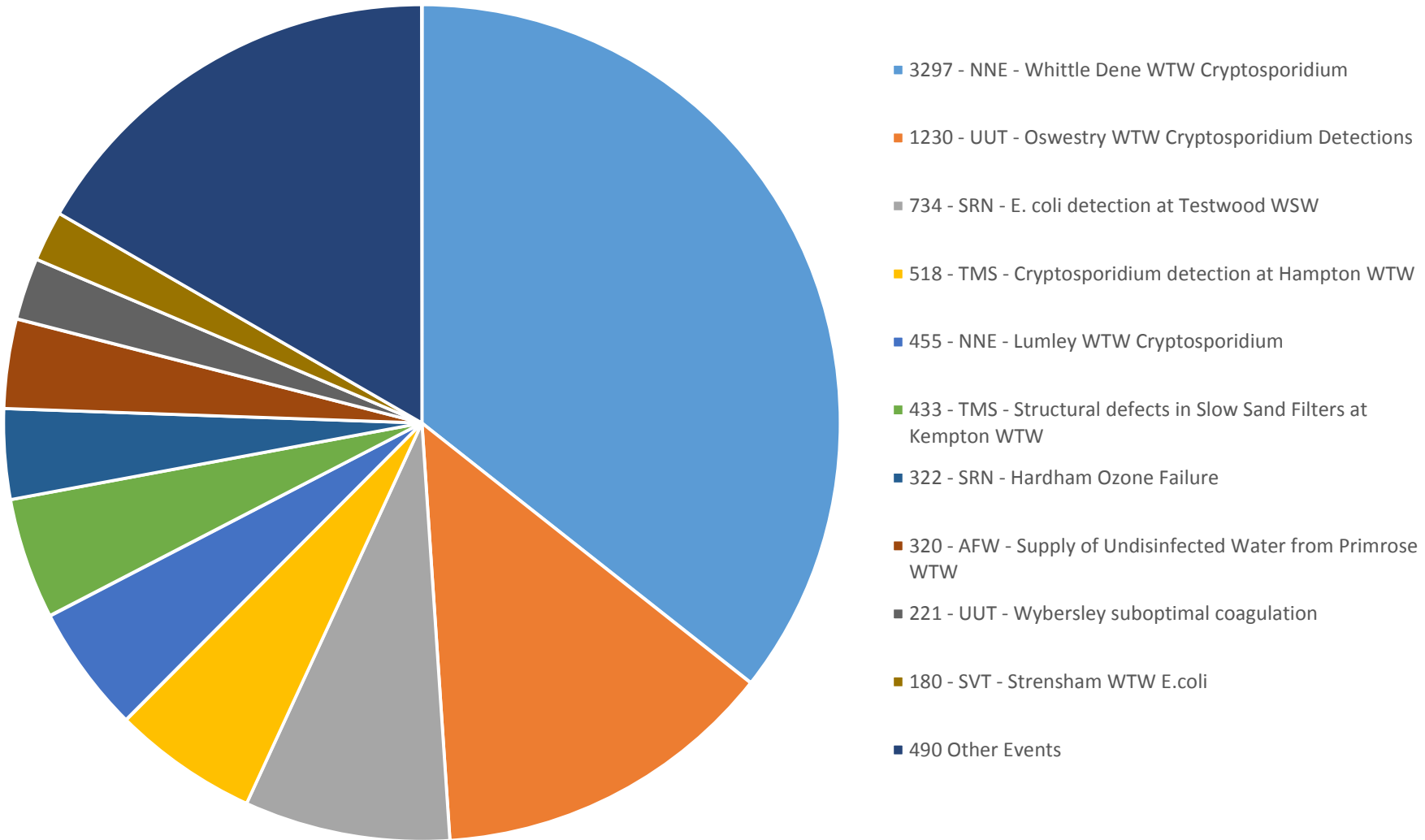
ERI Score England



ERI Score England



Main Events Contributing to ERI



Audits

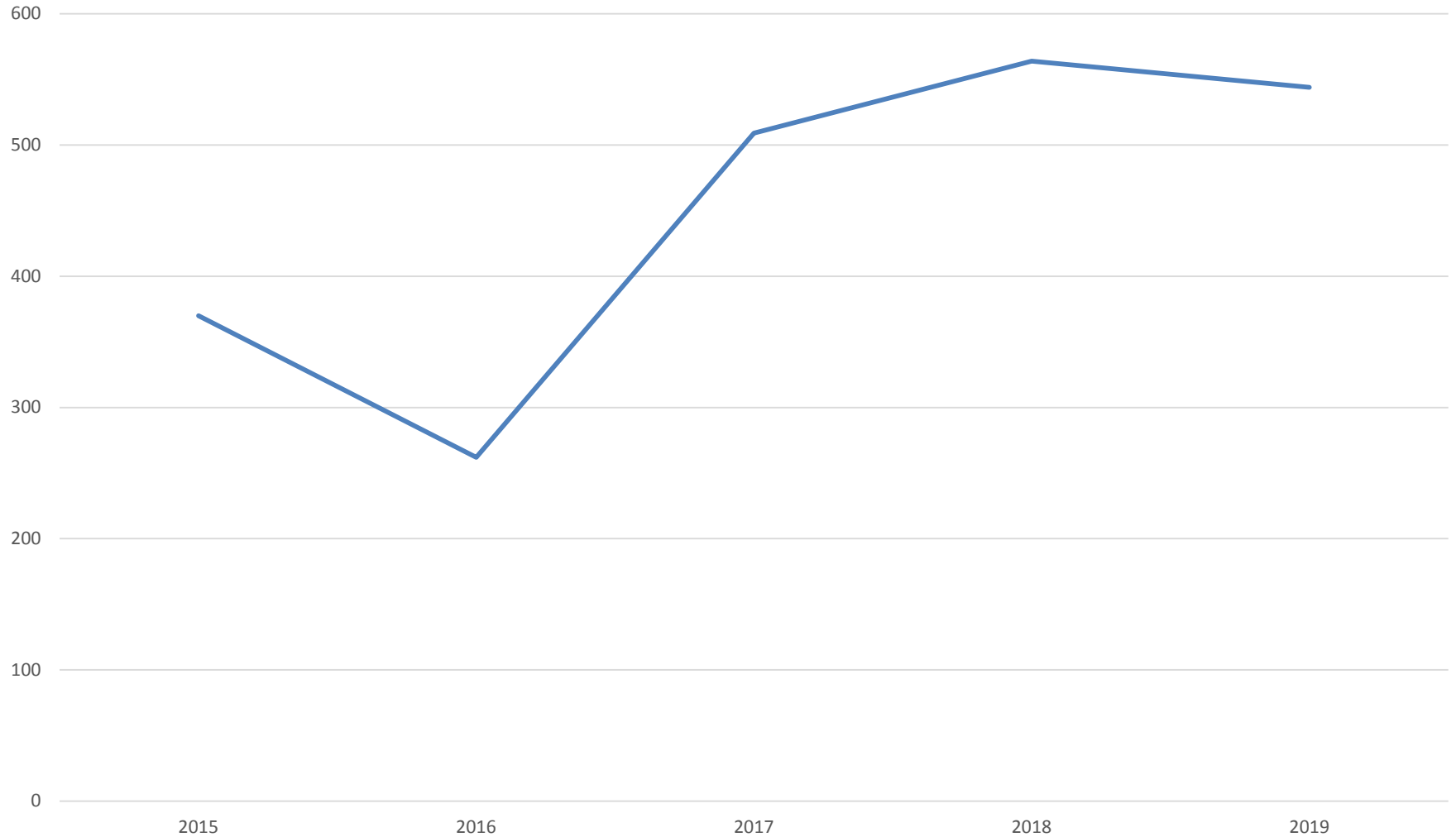
- In 2019, the Inspectorate carried out audits focussing on four themes and these covered
 - Investment (Q1)
 - Poor quality RA; with no asset planning
 - Staff competence (Q2)
 - WQ Training is required for all production staff

- Contamination (Q3)
 - Better catchment management
 - Improper disinfection; no run to waste
- Significant risks (Q4)
 - Poor performing assets
 - Complacency of long-standing practices

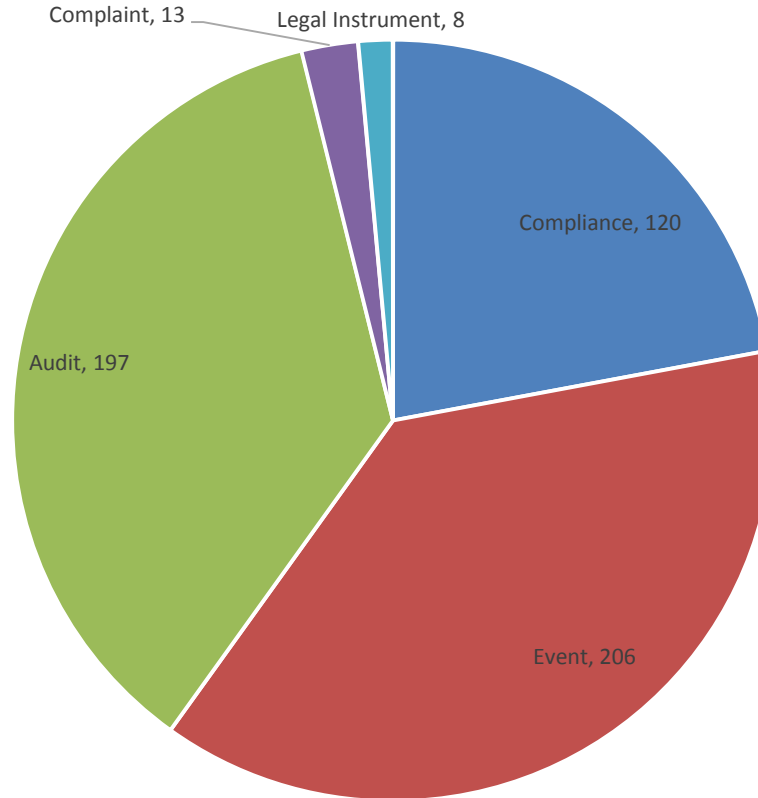
July 2020



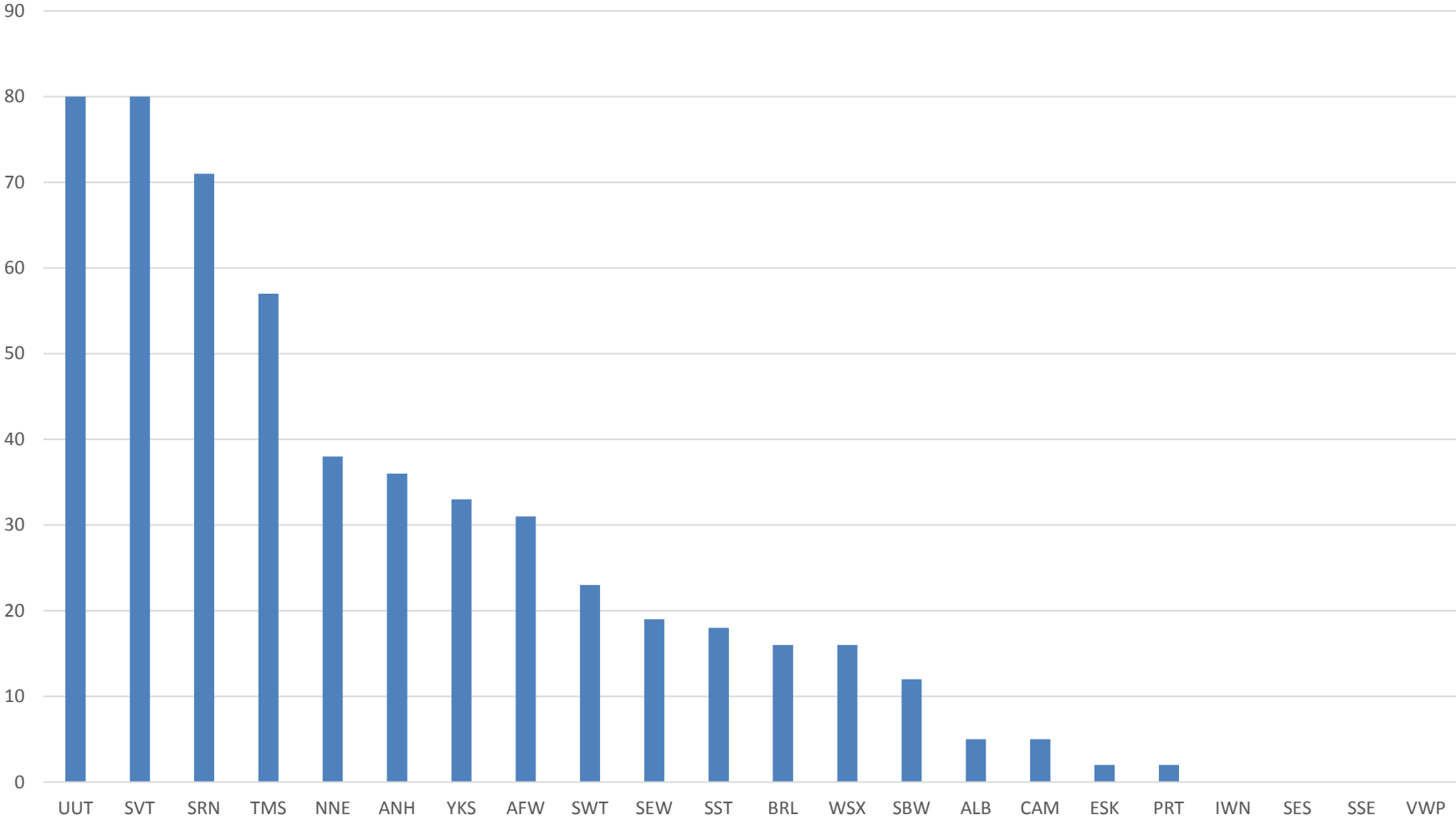
Total Recommendations



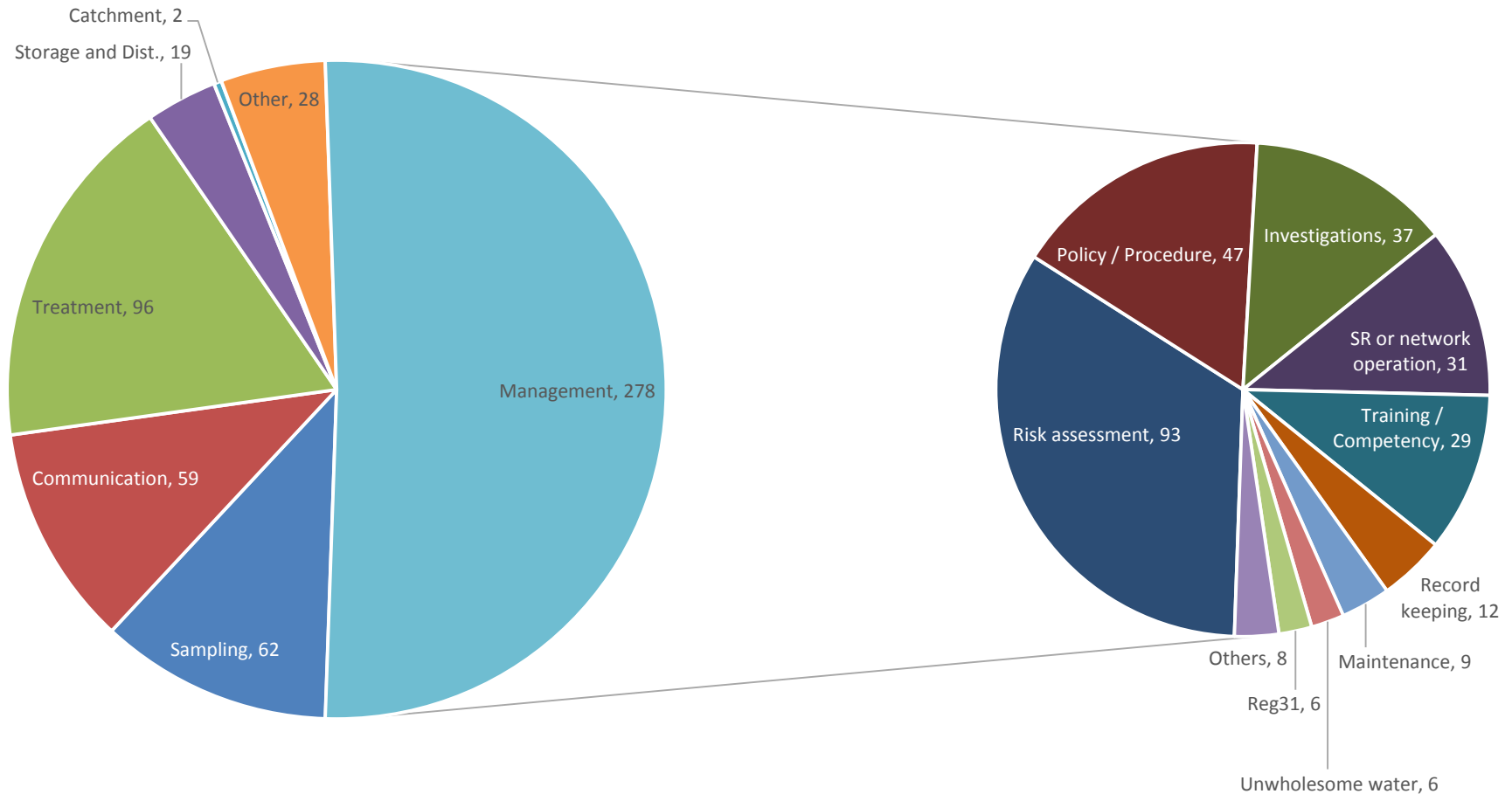
Source of Recommendations



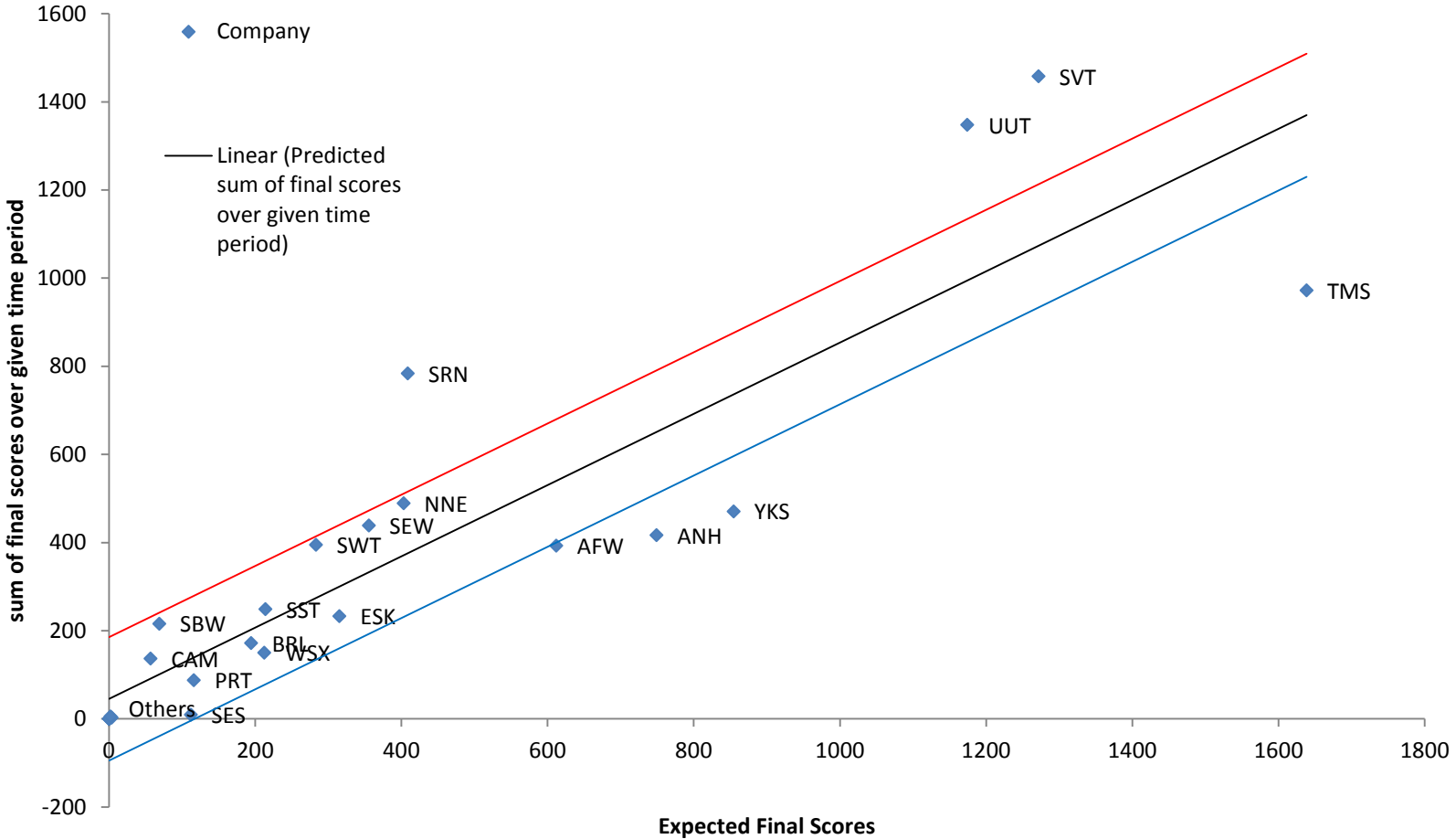
Recommendations by Company



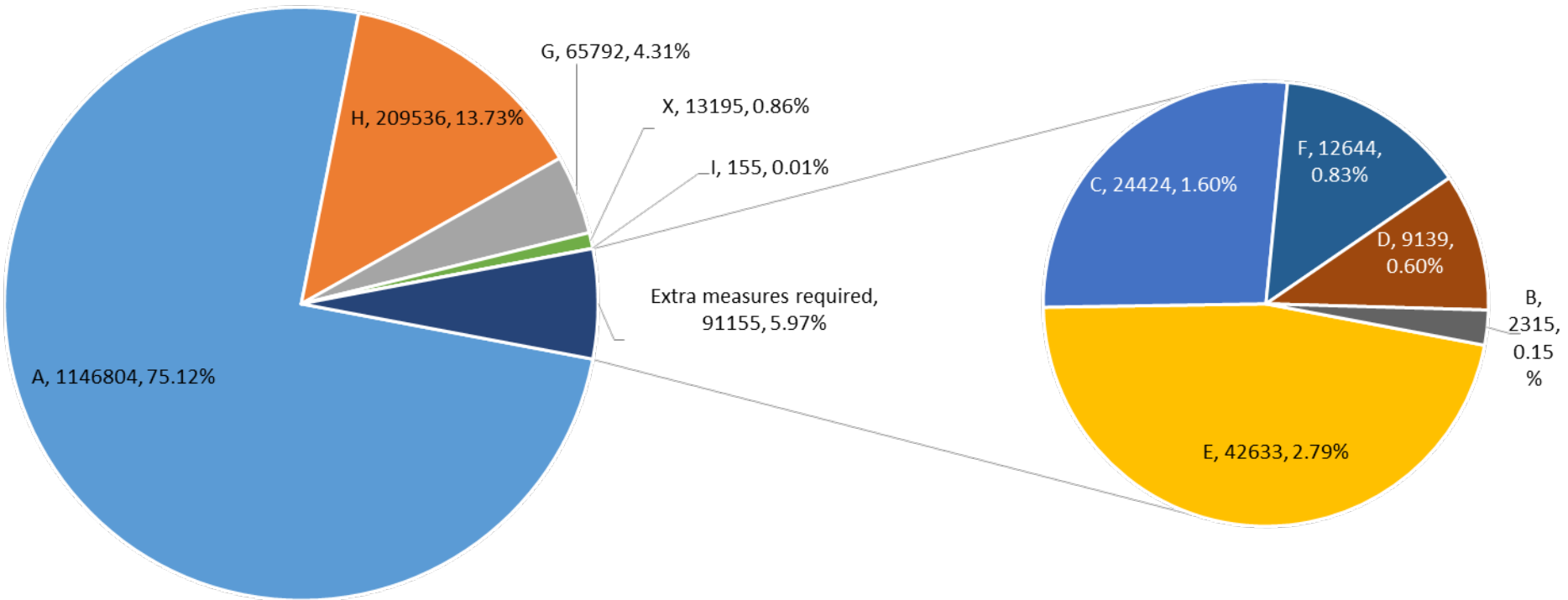
Contribution of Recommendation Types



Observed Vs Expected Recommendations



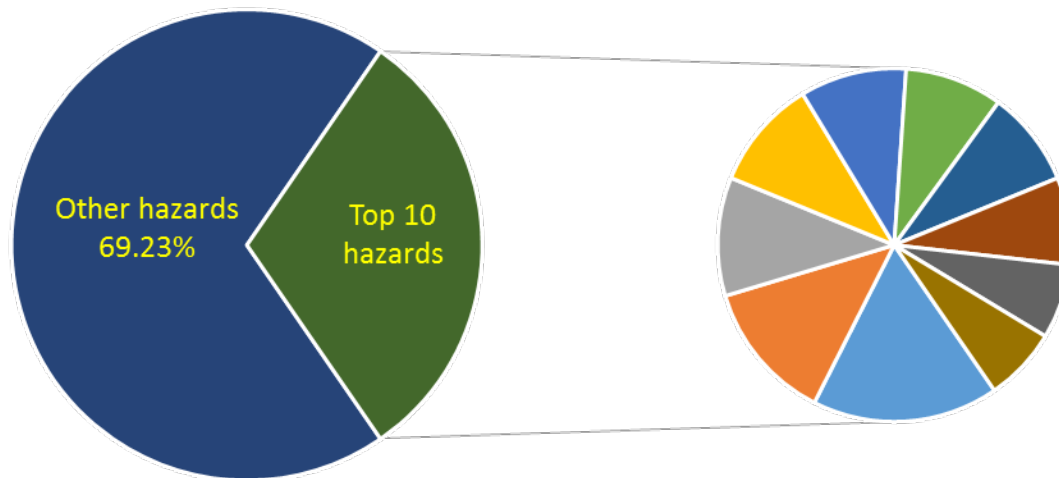
Analysing Risk Assessments (Reg 28)



A, H, G, I, X = No additional mitigations required at present

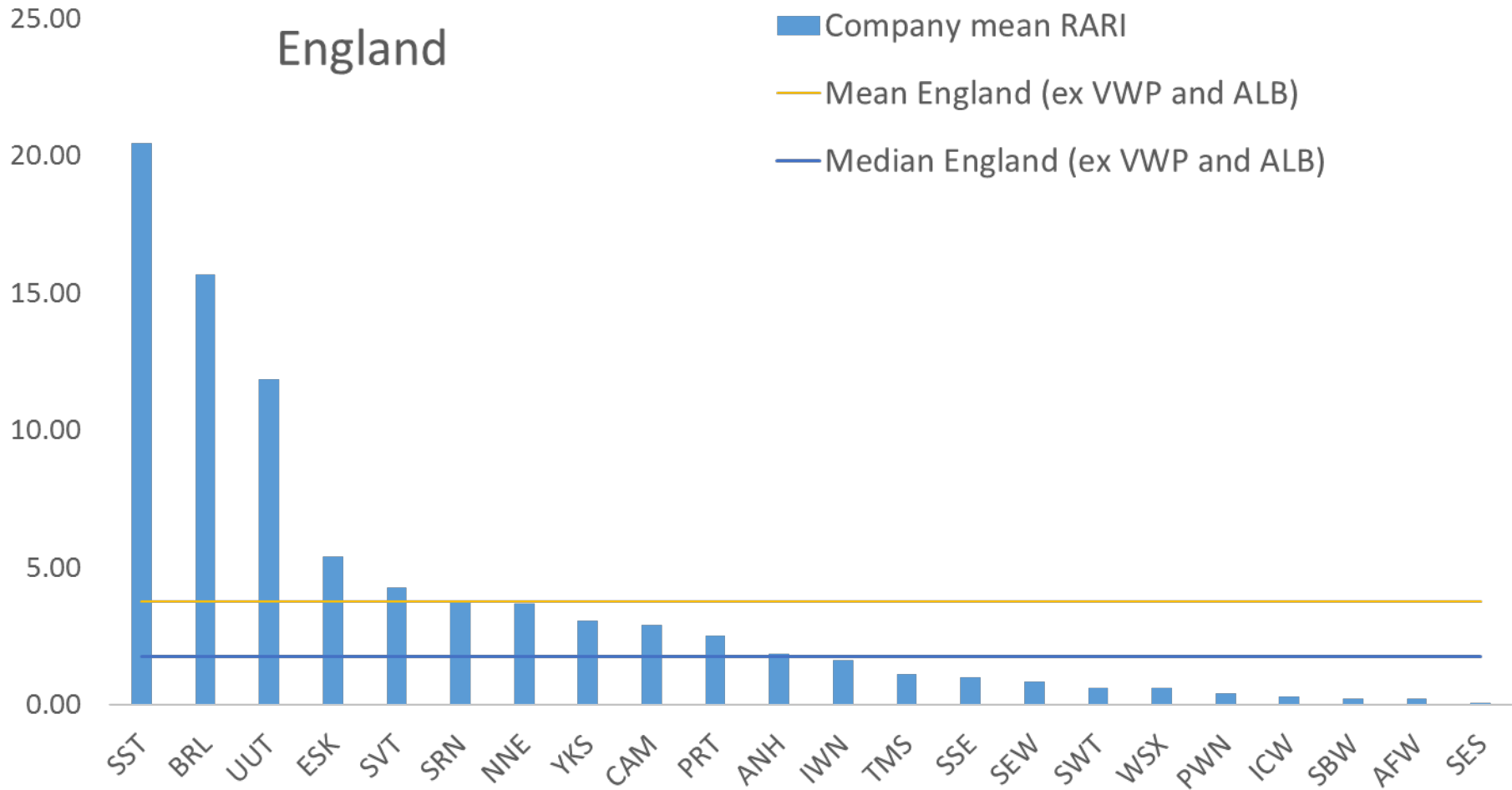
B, C, D = Additional or enhanced control measures are required or are being validated or delivered
E = Risk under investigation
F = Partial mitigation

Top Ten RARI Hazards - England



- No Supply 5.26%
- Cryptosporidium 3.96%
- Coliform Bacteria 3.34%
- Turbidity - 4 NTU at consumers taps 3.11%
- Nickel 3.00%
- Chromium 2.76%
- Antimony 2.70%
- Lead 2.46%
- Turbidity - 1 NTU at works 2.11%
- Taste and odour 2.08%
- Other hazards

Risk Assessment Risk Index



Network Information Systems

- Network Information Systems
 - OES Companies
 - Covers Cyber Security in 39 Contributing Outcomes
 - Companies should consider Strategic Outcomes
 - Improvement required
 - Company forward planning necessary.

Final Thought

- DWI Strategic Direction Published
 - Safe, clean drinking water is vital to public health and the wellbeing of our society
 - To improve and protect the quality and sufficiency of drinking water supplies
 - To maintain public confidence in drinking water
 - To strategically plan for water quality and sufficiency now, and for future generations

Feedback Survey



Drinking Water Inspectorate

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🌐 : www.dwi.gov.uk