

PR24 U_MON6 Driver:

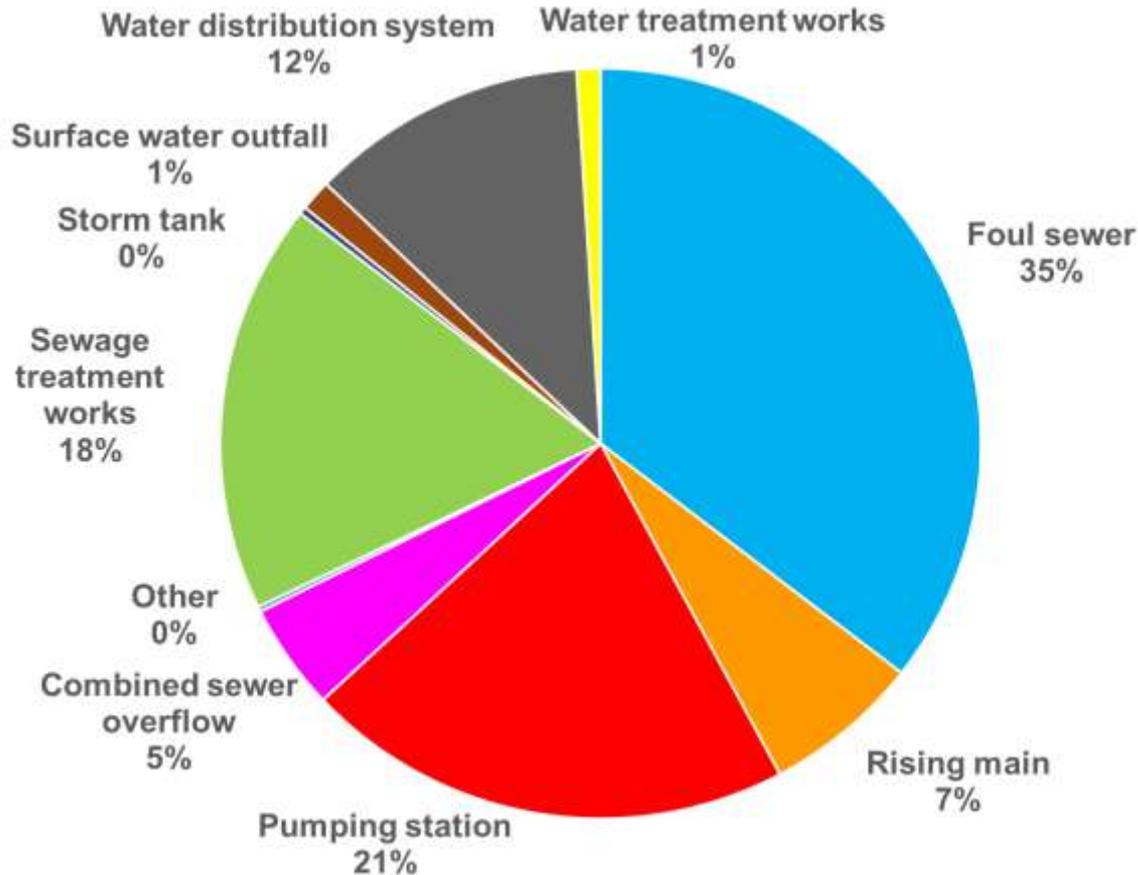
**MCERTS certified monitoring
of emergency overflows at
sewage pumping stations**

Name: Simon Withey

Job title: Advisor

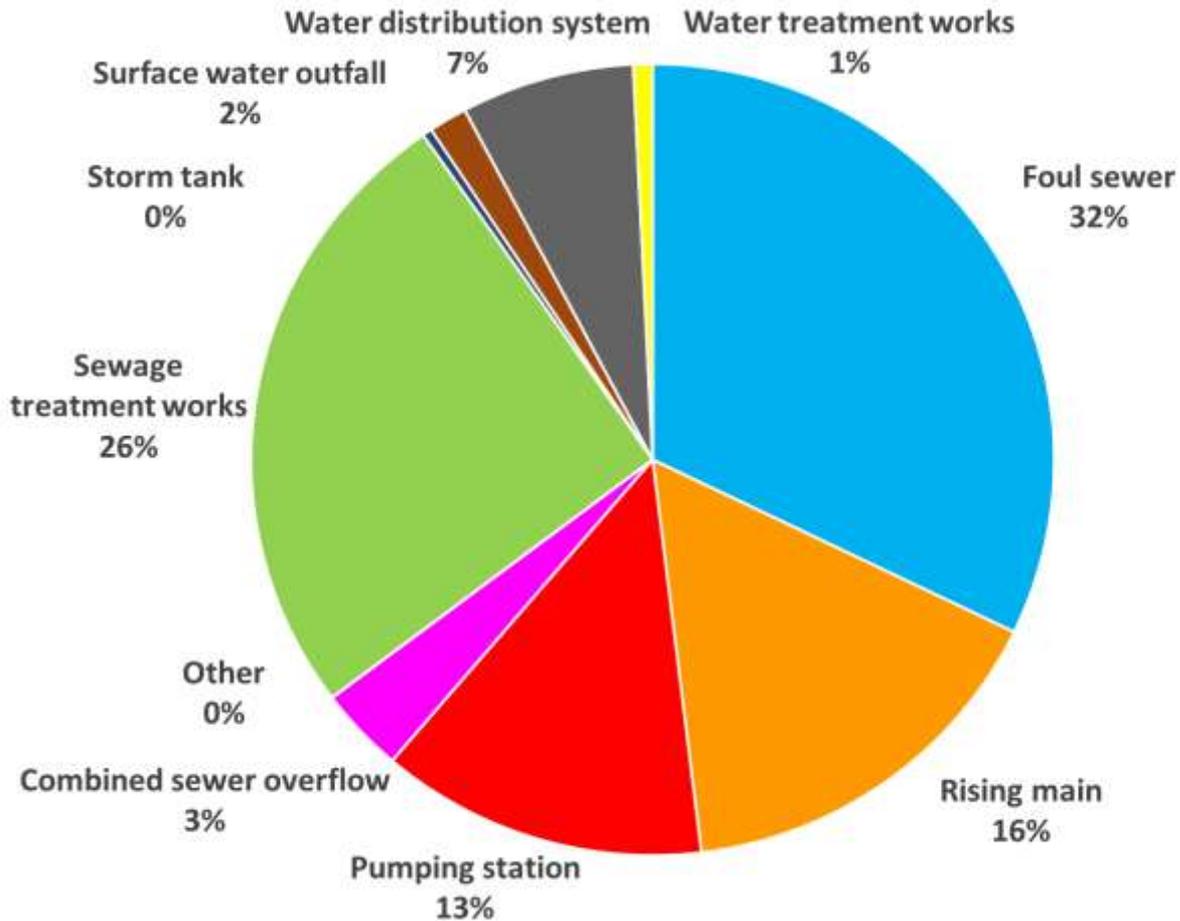
Date: 8 December 2023

Background



% of Cat 1 – 3 pollution incidents 2018 – 2022 by asset type

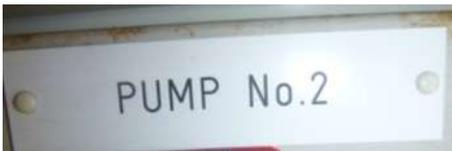
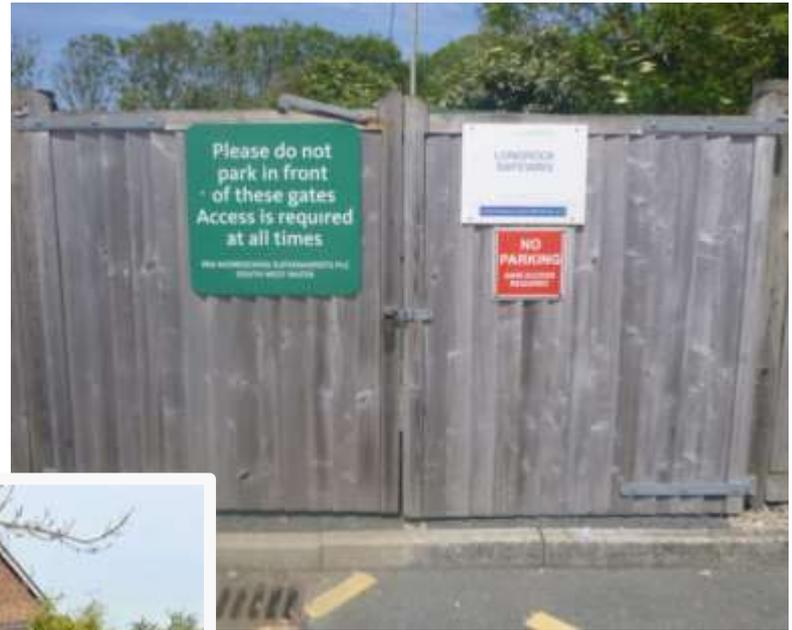
Background



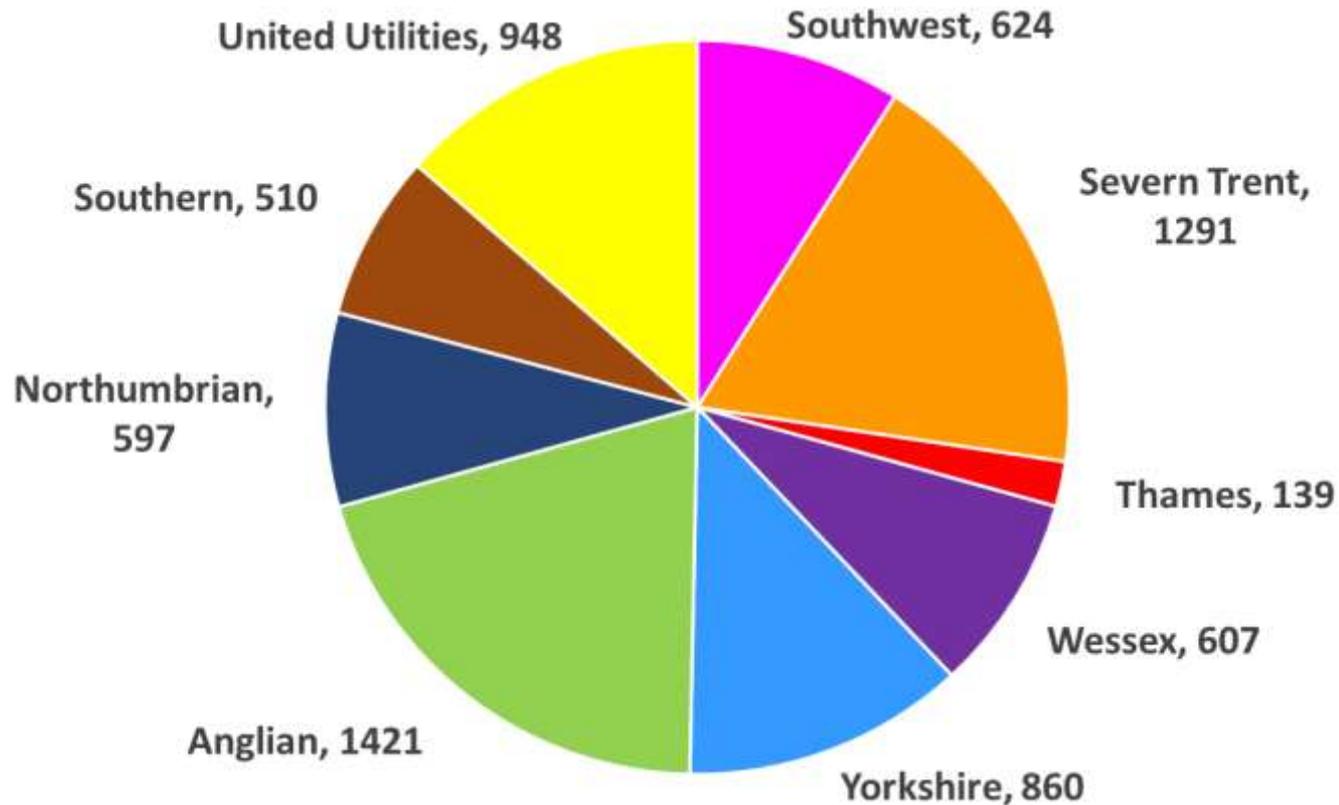
% of serious pollution incidents 2018 – 2022 by asset type

Background

- ~ 7,000 permitted
- Key protection measures

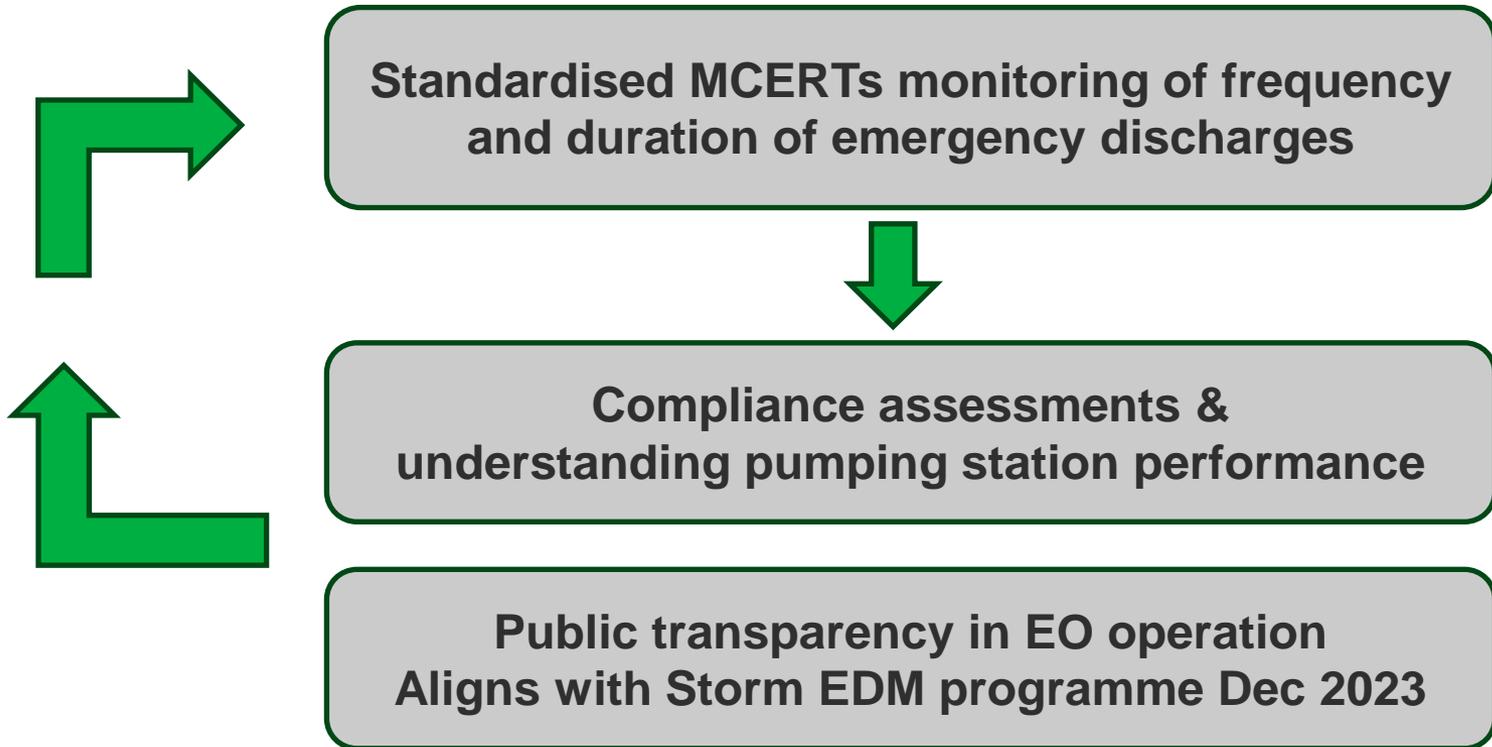


Background



Number of emergency overflows by company

Purpose of the driver



What's involved?

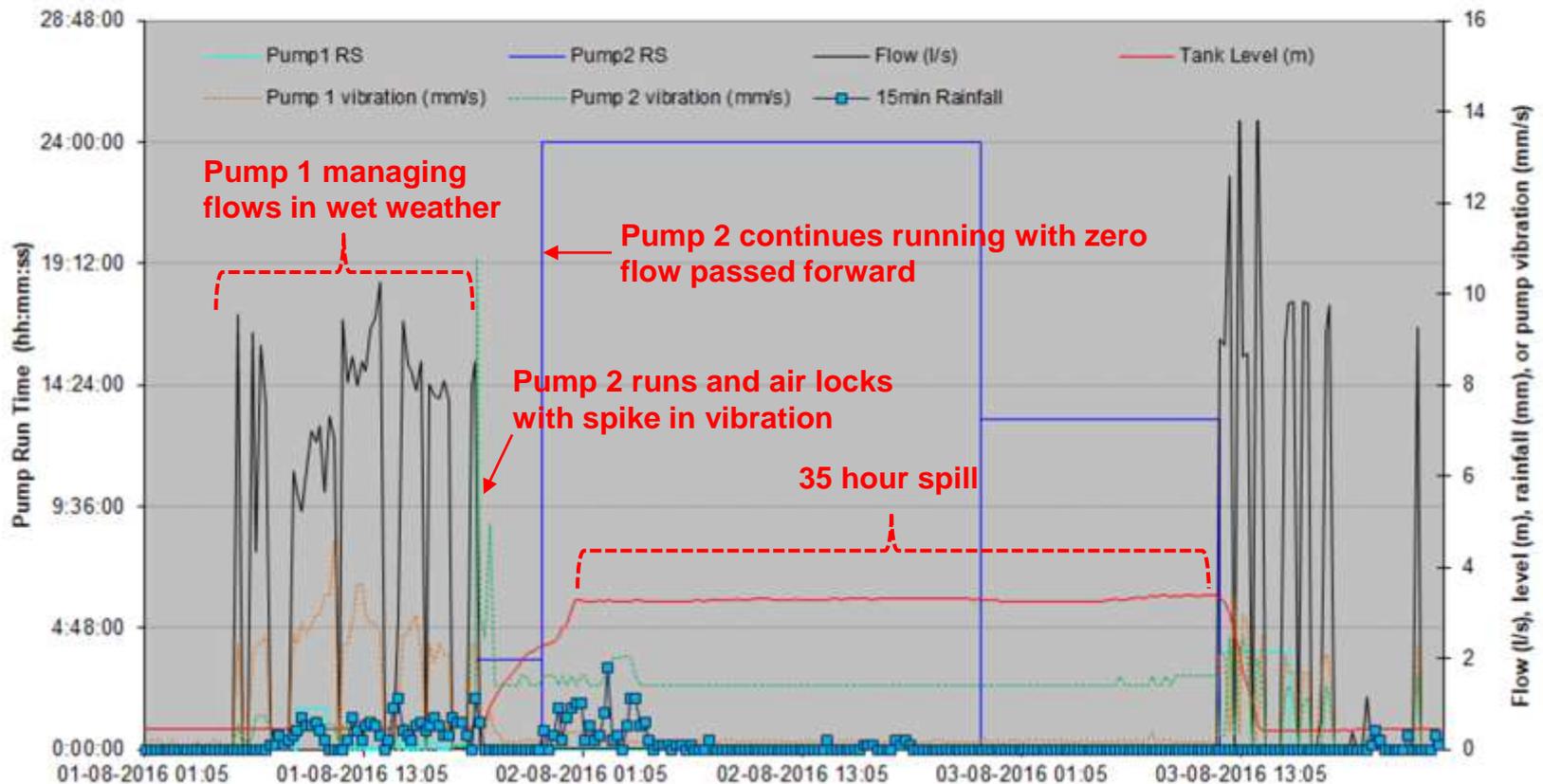
- Level: all ~ 7000 sites
- Flow: EO/CSOs (~ 3600 sites)



- MCERTS certified

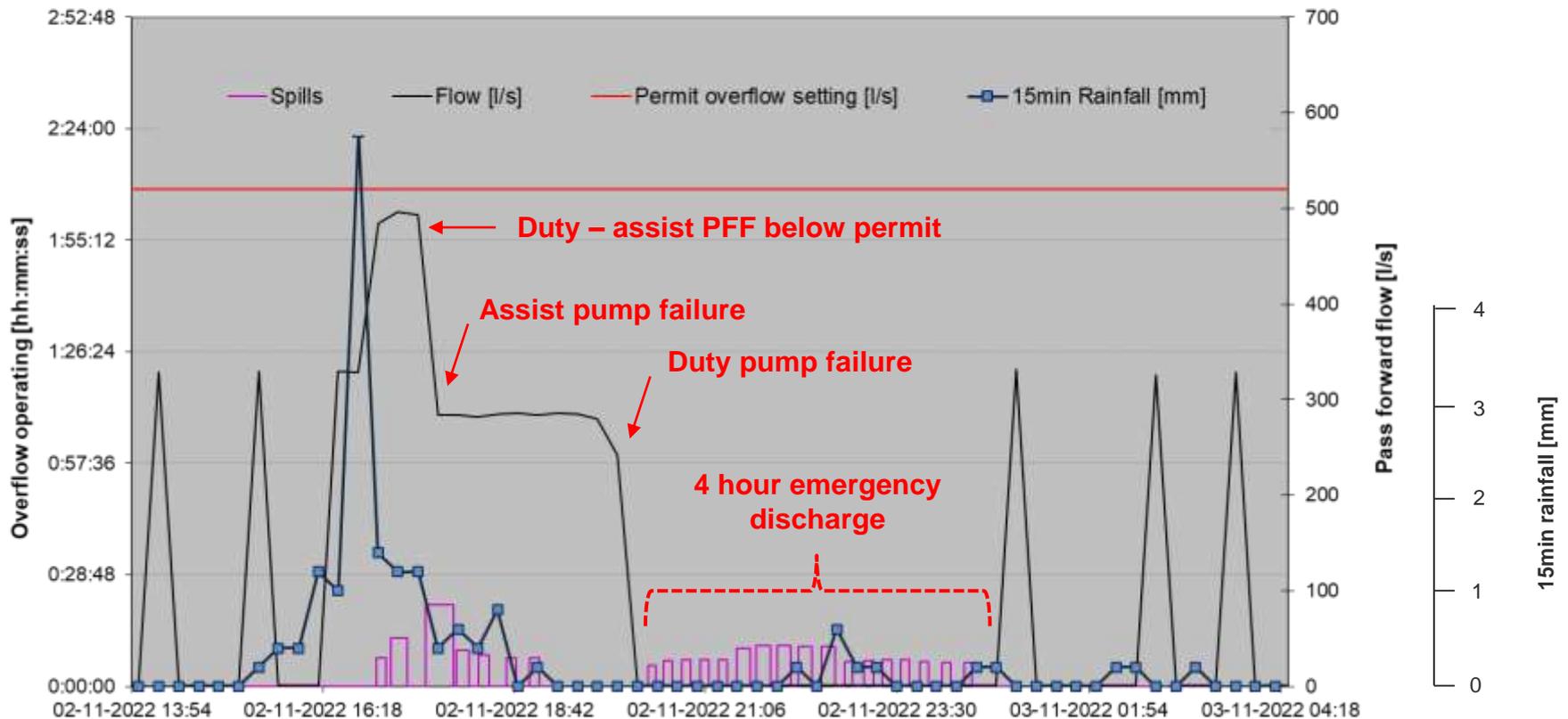
Why flow monitoring?

- Distinguish between storm and emergency operation



Why flow monitoring?

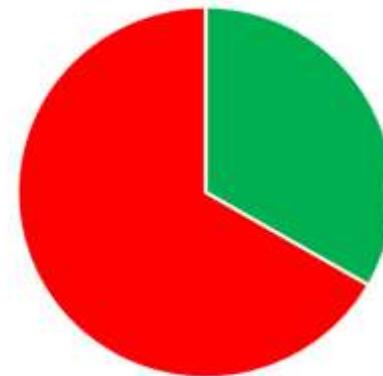
- Assess storm overflow compliance



Storm overflow compliance

- Implications

Site	Permit overflow setting (l/s)	Actual pass forward flow (l/s)	% of permit
A	700	350	50
B	8	4	50
C	25	16	64
D	18	13	72
E	11	11	100
F	15	15	100



■ Compliant ■ Non - compliant

- Pump condition
- Rising main condition
- Air valve condition
- Permit errors
- Flow reading error

Why MCERTS?

- MCERTS is our Monitoring Certification Scheme for equipment, personnel and organisations



MCERTS: Performance standards and test procedures for event duration monitors

External guidance LIT 60384

Published: 09/08/2022

Guidance

MCERTS: requirements for installing and using event duration monitors

Published 31 March 2023

- $\pm 5\text{mm}$ at lowest point a discharge occurs
- 2 min intervals

Why MCERTS?



Guidance

Minimum requirements for self-monitoring of flow: MCERTS performance standard

Updated 24 July 2022

Part 3: Performance standards and test procedures for water flowmeters

- Instantaneous FPF $\pm 8\%$ at overflow setting
- 2 min intervals

Why MCERTS?

“The monitor....wasn't fitted properly”

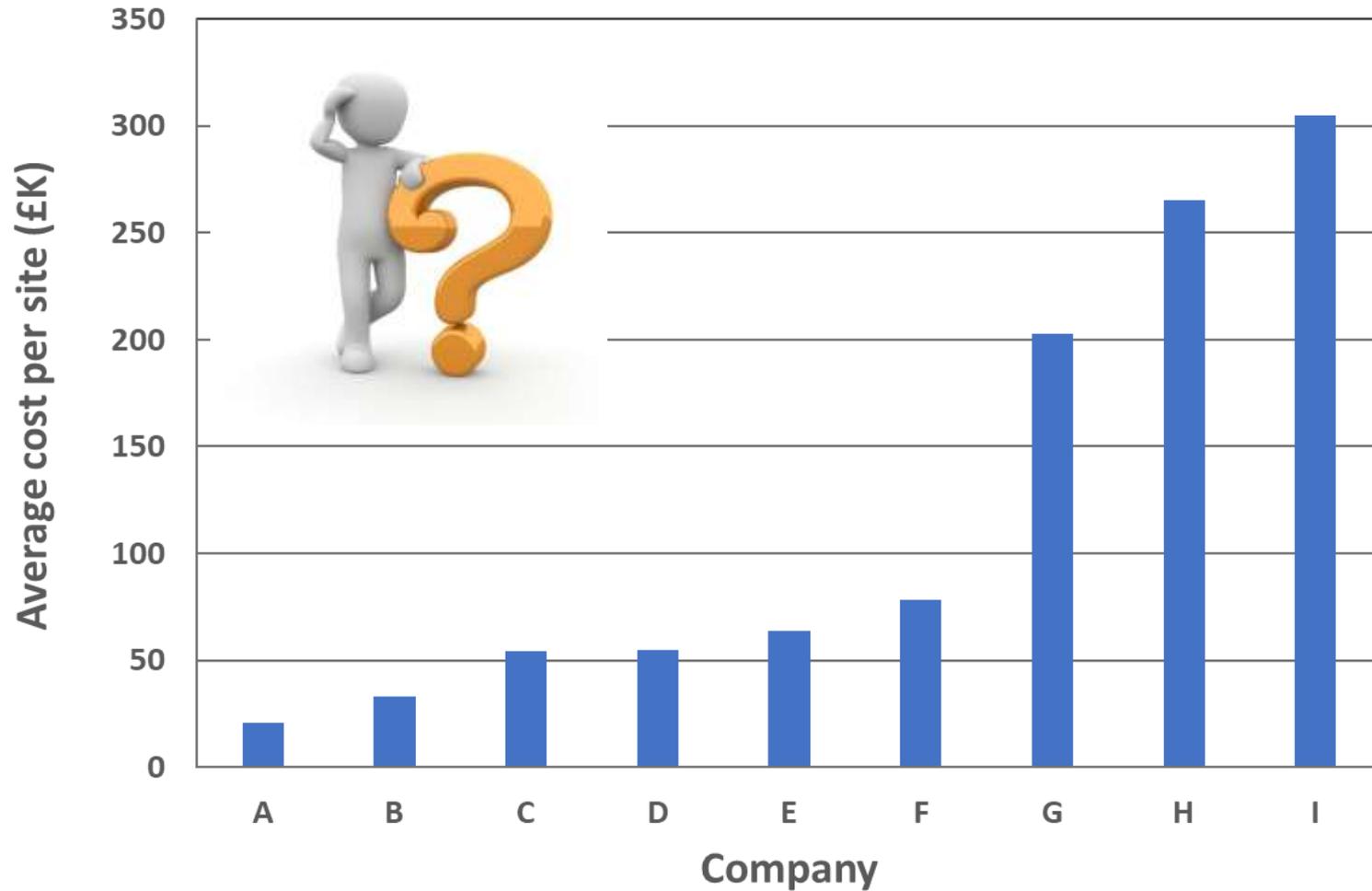
“The official data may be unreliable”



Countryfile
Flat Holm

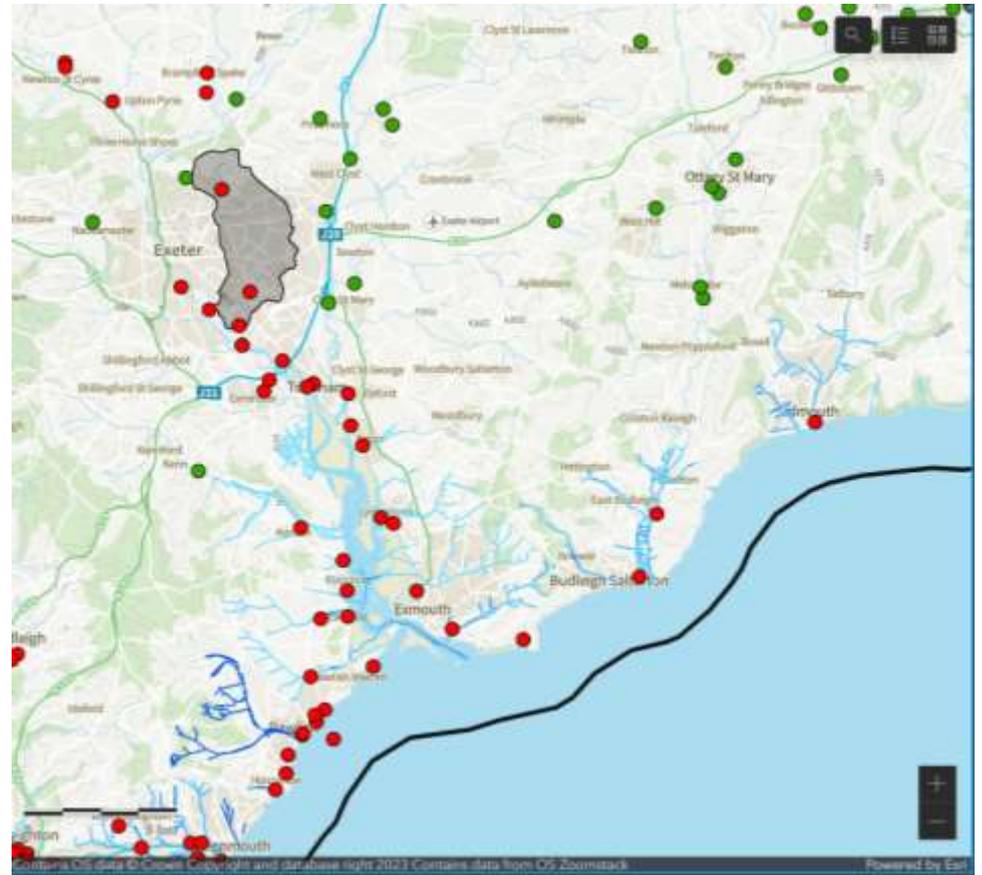
“The numbers aren't all they seem”

Cost – May 2023



Prioritisation

- Phased based on Defra priorities
 - Bathing and shellfish waters
 - SAC, SPA, Ramsar,
 - SSSIs
 - UWWTR Eutrophic SAs
 - RNAG
 - Chalk streams
- 25% of sites PR24
- Remaining 75% PR29



Summary

