



Westmorland
& Furness
Council

Communities and Environment Scrutiny

Environment Agency:
Regulation – Presented by Andy Brown



United Utilities:
Improvement plans – Presented by Kevin Sayers





Westmorland
& Furness
Council

Water Quality

westmorlandandfurness.gov.uk



Regulating Water

Andy Brown

Environment Planning & Engagement Manager

Feb 2024



2025 Creating a better place

We will protect and enhance the environment as a whole and contribute to sustainable development. Through this we will contribute to the United Nations Sustainable Development goals and help protect the nation's security in the face of emergencies.

- a nation resilient to climate change
- healthy air, land and water
- green growth and a sustainable future



Monitoring - Quality and Quantity

Fixed Assets

- Gauging Stations
- Observation Boreholes
- Rain gauges
- Fish counters
- Telemetry Network

Analysis

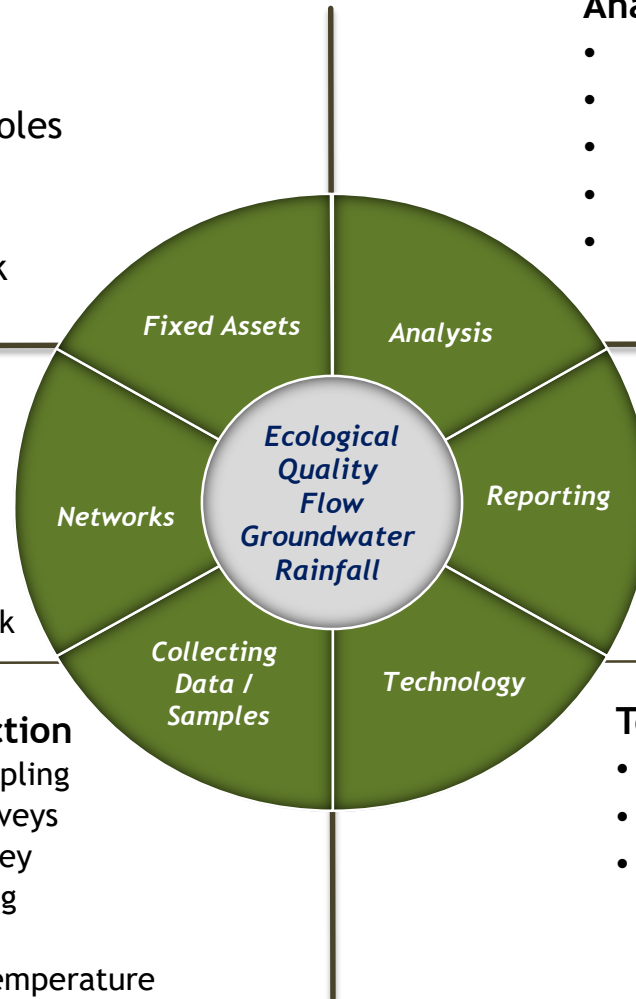
- Macroinvertebrate Analysis
- Shellfish Waters Investigations
- Bathing Water Investigations
- Fish Counter Analysis
- WQ / WR analysis

Networks / Online / Open Data

- River Surveillance Network
- Hydrometric Network
- Raingauge Network
- Water Quality Monitoring
- Water Framework Directive Network

Sampling & Collection

- Water Water Sampling
- River Habitat Surveys
- Invertebrate survey
- Spot Flow Gauging
- Electro fishing
- Sondes - WQ & Temperature
- Blue Green Algae etc

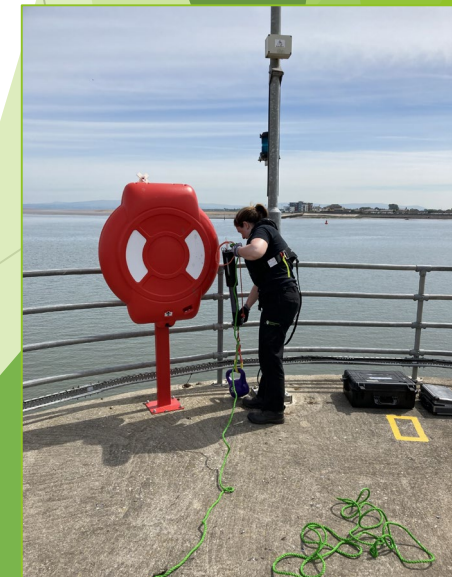


Reporting

- [Water Situation Reports](#)
- [Irrigation Prospect Reports](#)
- [Drought Information](#)

Technology

- Bug App
- Citizen Science
- eDNA



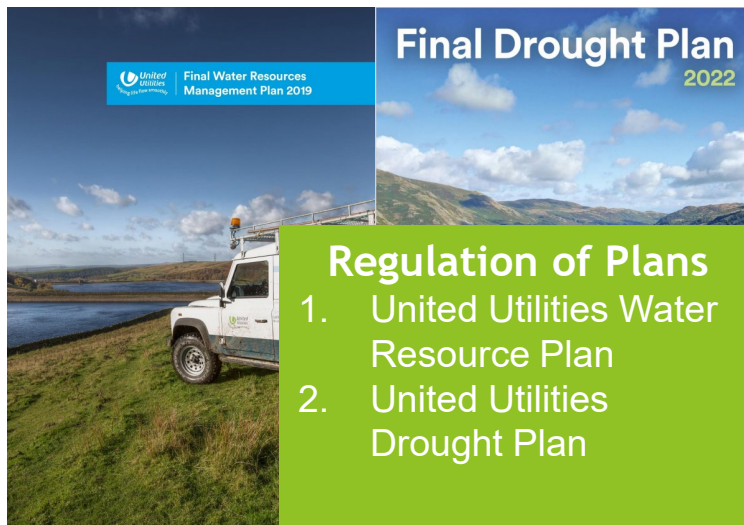
Planning

Department
for Environment
Food & Rural Affairs

Our integrated
plan for delivering
clean and plentiful
water

Plan for Water

1. Transform management of the whole water system
2. Deliver a clean water environment for nature and people
3. Secure a plentiful supply of water



Regulation of Plans

1. United Utilities Water Resource Plan
2. United Utilities Drought Plan



Plans to deliver on the Plan for Water

- ▶ EA 2025
- ▶ Local Outcome Plans
- ▶ River Basin Management Plans
- ▶ Environment Agency Drought Plan
- ▶ Shellfish Water Action Plans
- ▶ Bathing Water Action Plans
- ▶ Shoreline Management Plans

Permitting

- ▶ Environmental permits are issued for water discharges, waste & wastewater treatment, land spreading plus many other activities
- ▶ Water Resources licences are issued for abstraction and impounding
- ▶ Assessed & determined by the EA's National Permitting Team
- ▶ Permit conditions are written to comply with Environmental Permitting Regulations (EPR), water resources legislation and other relevant guidance



Water Company
Wastewater Treatment
Works



Water Abstraction
Licensing



Wastewater Treatment
Works Outfall

Compliance and Enforcement

34 Regulatory Officers across Cumbria & Lancashire, with specialists in water quality, water resources & agriculture.



Water Company Regulation
Planned compliance inspections & audits

Use data & intelligence to target inspection programme

Enforcement actions will be taken where needed - including Compliance Action Plans, improvement notices & prosecution for the most serious offences.



Septic tanks & private Sewage Treatment Works

We work with partners to identify hotspots and help inform operators of their responsibilities



Targeted regulation at Priority Bathing Waters



Incident response

We assess all reports we receive and attend the most serious.

All information we receive is logged and used to help target regulatory interventions



Agriculture

Farm inspection programme across the region

Action Plans used to bring farms back into compliance with *Farming Rules for Water* and Agriculture Fuel Oil rules.

Influencing and Partnerships

Nature / climate

Flood risk



Water quality

Water resources

Final Thought Our Climate is Changing....

► The projected climate change impacts on rainfall and river flow for the Northwest region by 2050s are for:

- Rainfall to decrease by 38% in the summer but increase by 29% in the winter
- Low flows to be 69% lower but peak river flows to be 35% higher



W&F Council Scrutiny Committee

United Utilities – Water Quality

23rd April 2024

Building a plan for the North West

7.3 million people and **200,000 businesses**

Industrial heritage and Victorian infrastructure

Rainy, hilly region so water stored mainly in **reservoirs**

12% of households affected by water poverty

29 designated bathing waters

34% of land in the region has environmental protection

Annual water runoff **28% more** than rest of country

54% of sewer system is combined, with **2,200 storm overflows**

Challenges facing our region

A growing population

1 million more people over the next 25 years

Climate change

More severe rainfall events

Diverse communities

Differing levels of prosperity across the region's communities

Growing expectations

Environmental requirements driving unprecedented levels of investment over next 30 years



So we're proposing to deliver on things that matter to you

£13.7bn plan

Largest for over 100 years



1.4 million customers

Improved water quality



7x increase

In value of the environmental programme



60% spill reduction (decade to 2030)

£3.1bn investment



2 million people

Safeguarding water supplies



500km of rivers

Protecting and enhancing rivers across the region



Halving the chance

of a hosepipe ban



30,000 jobs

7,000 new roles



£525m affordability support

Helping one in six customers



Addressing your priorities in Cumbria – our proposed plan



Stronger

- ✓ 10,600 people supported with affordability help, this will double by 2030
- ✓ 21,300 customers supported through Priority Services
- ✓ Employing 650 people across Cumbria, with more green jobs created
- ✓ Supporting community development e.g. St Cuthbert's Garden Village in Carlisle



Greener

- ✓ Improving 219km of rivers, and spending £38 million to improve three sites, including Crummock Water
- ✓ Partnerships to improve the local environment, e.g. Wild Ennerdale, The Lake District National Park Partnership, Love Windermere and the Catchment Partnerships for West Cumbria, Eden and South Cumbria
- ✓ Partnerships to promote sustainable farming, working across Cumbria to reduce pollution at nine locations
- ✓ Investing £914 million to reduce spills of 158 storm overflows



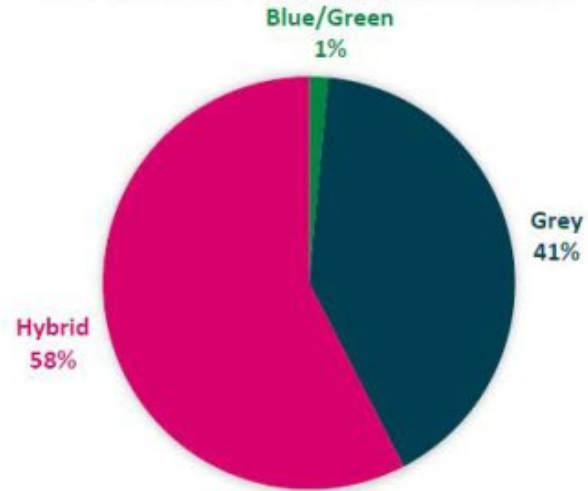
Healthier

- ✓ Restoring peatland across 2,144km² in Cumbria

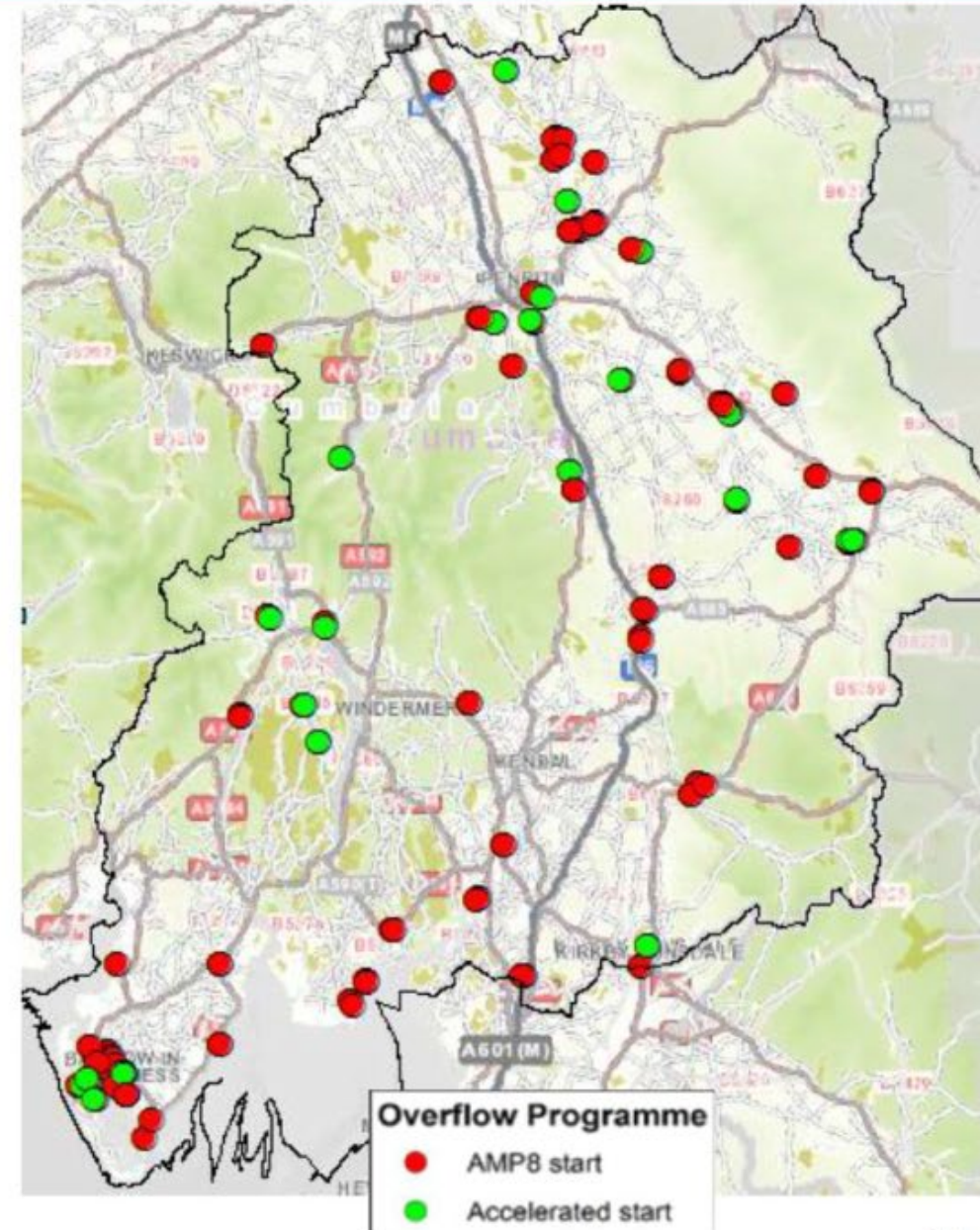
- See later slide for Cumbria CSO Improvement Plan

Storm overflow improvements – W&F breakdown

SOLUTION TYPE IN W&F AREA



- Grey solution – storage only
- Hybrid solution – split between grey solution and surface water management
- Blue-green solution – where SuDs solution removes need for the grey solution



W&F Council Area;

- 22 sites in the accelerated programme (underway now) with 75 sites in overall programme (2025-2030)

Discharge Ref	Site Description	Solution Type	Area
17370024	Ambleside WwTW	Grey	Ambleside
LAK0025	Elterwater PS	Hybrid	Langdale
LAK0107	Hawkshead PS	Grey	Hawkshead
17370030	Near <u>Sawrey WwTW</u>	Hybrid	Near Sawrey
17670019	<u>Morland WwTW</u>	Grey	Morland
BRW0040	<u>31 Abbotsmead Approach CSO</u>	Grey	Barrow
17670054	<u>Armathwaite WwTW (SO)</u>	Hybrid	Armathwaite
EDE0116	<u>Carleton Hall Templebank CSO</u>	Hybrid	Penrith
17270014	<u>Casterton WwTW</u>	Hybrid	Casterton
EDE0086	<u>Clifton PS</u>	Hybrid	Bolton Penrith
17670061	<u>Great Salkeld WwTW</u>	Hybrid	Great Salkeld
17670013	<u>Kirkby Stephen WwTW incl Winton PS</u>	Grey	Kirkby Stephen
BRW0099	<u>Ferry PS</u>	Grey	Barrow
17680367	<u>Glenridding WwTW</u>	Hybrid	Glenridding
BRW0100	<u>Graving Dock PS</u>	Grey	Barrow
17680364	<u>Great Asby WwTW</u>	Hybrid	Great Asby
BRW0101	<u>Harbour Yard PS</u>	Grey	Barrow
EDE0061	<u>Holme Street Chapel Street CSO</u>	Hybrid	Appleby
17570044	<u>Keswick WwTW</u>	Grey	Keswick
17670025	<u>SHAP WwTW</u>	Hybrid	Shap
EDE0003	<u>Skirwith Beck CSO</u>	Grey	Langwathby
17670087	<u>Sockbridge & Tirril WwTW</u>	Hybrid	Sockbridge

Permit Ref	Site Name	Solution Type	Area
17270006	KIRKBY LONSDALE WwTW	Grey	Kirkby Lonsdale
17270008	ORTON WwTW	Hybrid	Orton
17270009	SEDBURGH WwTW	Grey	Sedbergh
17270018	TEBAY WwTW	Hybrid	Tebay
17370035	CONISTON	Grey	Coniston
17370061	STAVELEY WwTW	Blue/Green	Staveley
17370073	LINDALE	Hybrid	Lindale
17370128	Grange-Over-Sands WwTW	Grey	Grange-Over-Sands
17470136	<u>Askam-in-Furness WwTW ST</u>	Grey	Askham
17670001	APPLEBY (APPLEBY WwTW)	Grey	Appleby
17670002	Bolton (Penrith)	Hybrid	Bolton Penrith
17670004	BROUGH	Hybrid	Brough
17670005	CROSBY GARRETT WwTW	Hybrid	Crosby Garret
17670013	Kirkby Stephen WwTW/Winton	Grey	Kirkby Stephen
17670065	KIRKOSWALD WwTW	Hybrid	Kirkoswald
17670066	LANGWATHBY	Hybrid	Langwathby
17670104	LOW HESKET WwTW	Hybrid	Low Hesket
17680299	Glassonby Village Ww	Hybrid	Glassonby Village
17680532	MURTON WwTW	Hybrid	Murton East
BRW0009	Schneider Road	Grey	Barrow
BRW0012 + 91	Oxford Street/Ainsley Street CSO	Grey	Barrow
BRW0013	Ainslie Street/Oxford Street CSO	Hybrid	Barrow
BRW0031	Hawcoat Lane/Hartland Road CSO	Hybrid	Barrow
BRW0032	<u>Hawcoat Lane/Thorncliffe Road CSO</u>	Grey	Barrow
BRW0034	Abbey Road/Hollow Lane CSO	Grey	Barrow

BRW0036	Hollow Lane/Harrel Lane CSO	Grey	Barrow
BRW0039	Flass Lane at Bridgegate Ave, Newbarns CSO	Grey	Barrow
BRW0041	<u>Bridgegate Avenue (manhole 5800) CSO</u>	Hybrid	Barrow
BRW0042	<u>27/29 Abbotsmead Approach CSO</u>	Hybrid	Barrow
BRW0044	Frederick Street PS	Grey	Barrow
BRW0071	Rampside Village PS	Grey	Barrow
BRW0097	Palace Nook	Grey	Barrow
BRW0102	Roa Island	Grey	Barrow
EDE0007	The College CSO	Grey	Kirkoswald
EDE0008	<u>Askham Beck CSO</u>	Hybrid	Askham
EDE0015	<u>Gategill Beck M/H Near River Flats CSO</u>	Grey	Threlkeld
EDE0022	CSO behind Lager's Store	Hybrid	Kirkoswald
EDE0023	Manhole on Syphon (Warcop) CSO	Hybrid	<u>Warcop</u>
EDE0073	Lazonby PS	Hybrid	Kirkoswald
EDE0079	Tebay Sewage PS	Hybrid	Tebay
EDE0080	Stainton SSO	Hybrid	Penrith
EDE0089	Shap PS	Hybrid	Shap
EDE0097	Appleby CSO Adj to Appleby WwTW	Grey	Appleby
EDE0120	Langwathby CSO	Hybrid	Langwathby
EDE0121	The effluent facility at Skirwith	Hybrid	Langwathby
EDE0122	The effluent facility at Winskill	Grey	Langwathby
LAK0001	Baycliffe PS CSO	Hybrid	Newbiggin
LAK0046	Holme Station CSO	Grey	Holme
LAK0055	Heversham Sewage PS	Hybrid	Milnthorpe
LAK0059	Town Beck CSO	Grey	Ulverston
LAK0060	Loftus Hill/Mortar Pits CSO	Hybrid	Sedbergh
LAK0073	Cart Lane (Grange) PS	Grey	Grange-Over-Sands
LAK0091	Sedgewick PS	Hybrid	Kendal

Storm overflow improvement – progress in Cumbria



Gilcrux



Plumbland

Interim solutions to tackle some of our highest spilling overflows in Cumbria

No spills at Cargo since solution implemented – reduced from over 300 to 0



Cargo



Storm overflow improvement – upcoming

United Utilities
Water for the North West

Storm Overflow Map

Learn more about how we are committed to enhancing the region's natural water resources
Find out more

Find address or place

In total 99.1% of our storm overflows are currently not discharging

What are storm overflows?
Watch the video to understand what storm overflows are and why they are a part of our network

What are storm overflows?

What are we doing to reduce spills?
How do you track and measure spills?
View more FAQ's
Disclaimer

Status

- Site not discharging - CSO Site
- Site not discharging - Bathing Water Site
- Site currently discharging - CSO Site
- Site currently discharging - Bathing Water Site
- Site discharged within the last 24 hours - CSO Site
- Site discharged within the last 24 hours - Bathing Water Site
- Site under maintenance



- Near real time information on overflow activation to be available on our website
- Will show location of overflow and report activation within one hour
- Go live in April – available to all customers and stakeholders

- 2023 overflow performance
 - Data to be published in March
- 2023 annual rainfall exceptionally high:
 - 50% higher than 2022
 - 33% higher than the long run
- Start of 2023, 14 named storms, 10 since September – this has impacted spill volumes
- On track to deliver at least one-third sustainable reduction in spills by 2025 from 2020 baseline

Love Windermere: Partnership working in action

£41m to improve water quality, reducing activations by 50%

Near Sawrey



Ambleside



Windermere



Flooding: Who Manages What in Cumbria?

Flood & Water Management Act 2010: We all have a duty to co-operate



Summary

- Extremely Ambitious Programme – largest ever in the history of the North West
- Addresses priorities across multiple areas eg. flooding, Water Quality (both clean-water & wastewater) and Environmental ambitions
- Want to work with LA's collaboratively to see where we can support each other
- Will need to work closely with LDNP & W&F Council across multiple areas eg. planning & flooding (LLFA)
- Happy to share further details – we have a Quarterly Strategy Meeting in place with the LA Officers. Local engagement with communities also in place as projects start
- Great start already made in numerous areas and we want to continue with this eg. Windermere, Staveley etc
- Our regulator will confirm our Business Plan in Dec-24 – until then we are focussing on the accelerated projects which we have already received approval for

Questions on Water Quality

Next section – Love Windermere Partnership

