Southern Water Stakeholder Group

Thursday 2 July

Eastbourne bio bead release incident

from Southern Water

Eastbourne beads: What happened

- On 29 October, up to 10 tonnes of plastic beads used in wastewater treatment were released from the Eastbourne Treatment Works and entered the sea via a 3.4km long outfall pipe. Beads began to wash up on Camber Sands beach during the week of 3 November.
- On 10 November we confirmed the beads came from our site.
- This was a rare and extremely serious occurrence. We completely understand the anger and anxiety it has caused to communities along the affected coast.
- We are determined to do all we can to put things right; we are paying for the clean-up, and we recognise this is a long-term, substantial commitment.



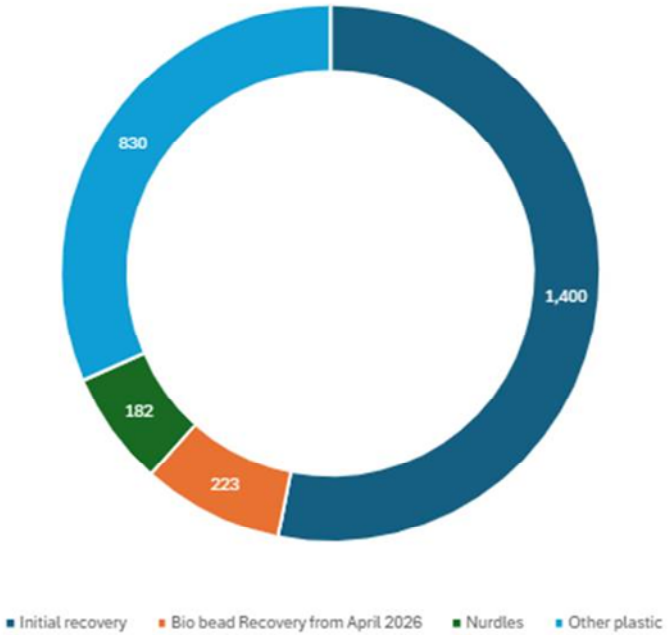
The ongoing cleanup

- The ongoing cleanup is being led by two organisations for Southern Water, **Nurdle** and **GLE**.
- Nurdle are using a digger and screener to recover buried biobeads from Camber Sands, the most visible part of the operation.
- Meanwhile, when weather conditions allow, GLE are using a brand-new beach screener, a highly efficient method for removing plastic from large areas of the beach.
- The long-term cleanup is being funded by Southern Water, and it's our ambition to leave the beach in a better state than before this incident.



Plastic recovery to date

- To date we have recovered approximately 1,623 kg of bio-beads (≈35% of the total released).
- We have collected an additional 1,012 kg of plastic.
- In total, we've collected 2,635 kg of plastic materials during the recovery.



Lessons learned

- This incident is subject to a live Environment Agency prosecution, and an independent investigation for Southern Water.
- We have committed to sharing lessons learned from this incident as soon as we have the outcome of the independent investigation.
- We do not yet have a timeline for when that investigation will conclude.



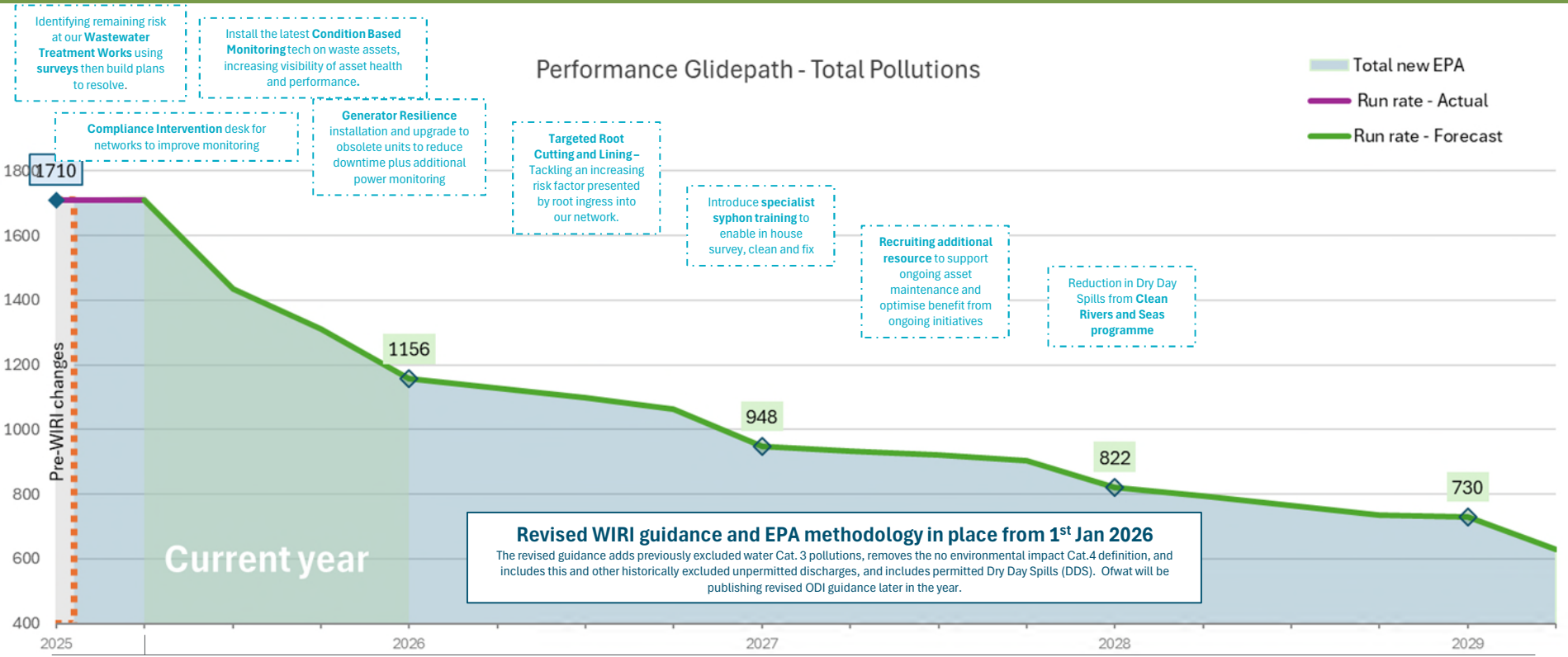
Our performance

Wastewater

WATER for LIFE from Southern Water

Wastewater ~ Pollution (Incidents)

Pollution incidents is reported as the total number of pollution incidents (categories 1 to 3) for which the company is responsible in a calendar year (lower is better)



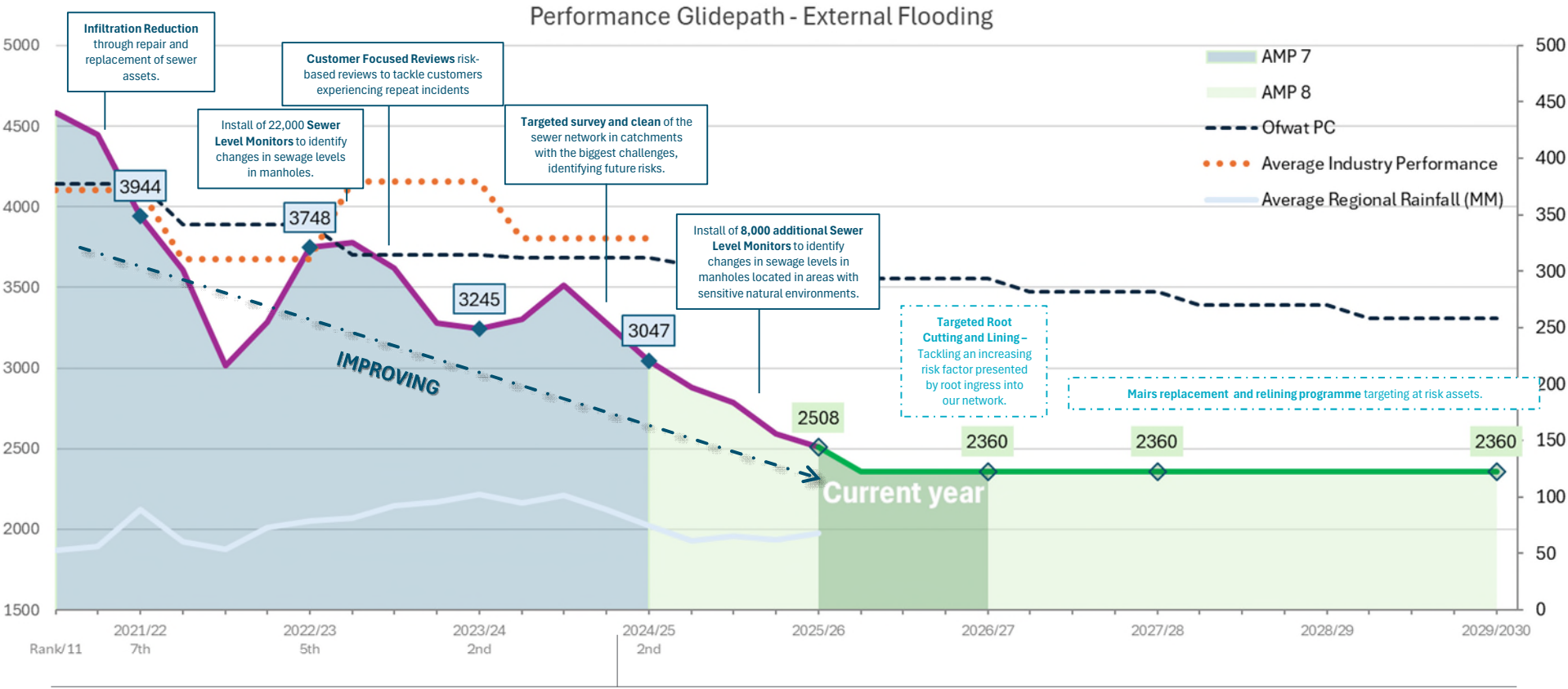
Targeted Pollution Incident Reduction Plan.

New risks identified and exploring risk awareness tools to identify future risks.

March 2026 data

Wastewater ~ External Sewer Flooding (Incidents)

External Sewer Flooding is reported as the number of incidents where flooding is withing the curtilage of a building normally used for residential, public, community or and business purposes in a financial year (lower is better)



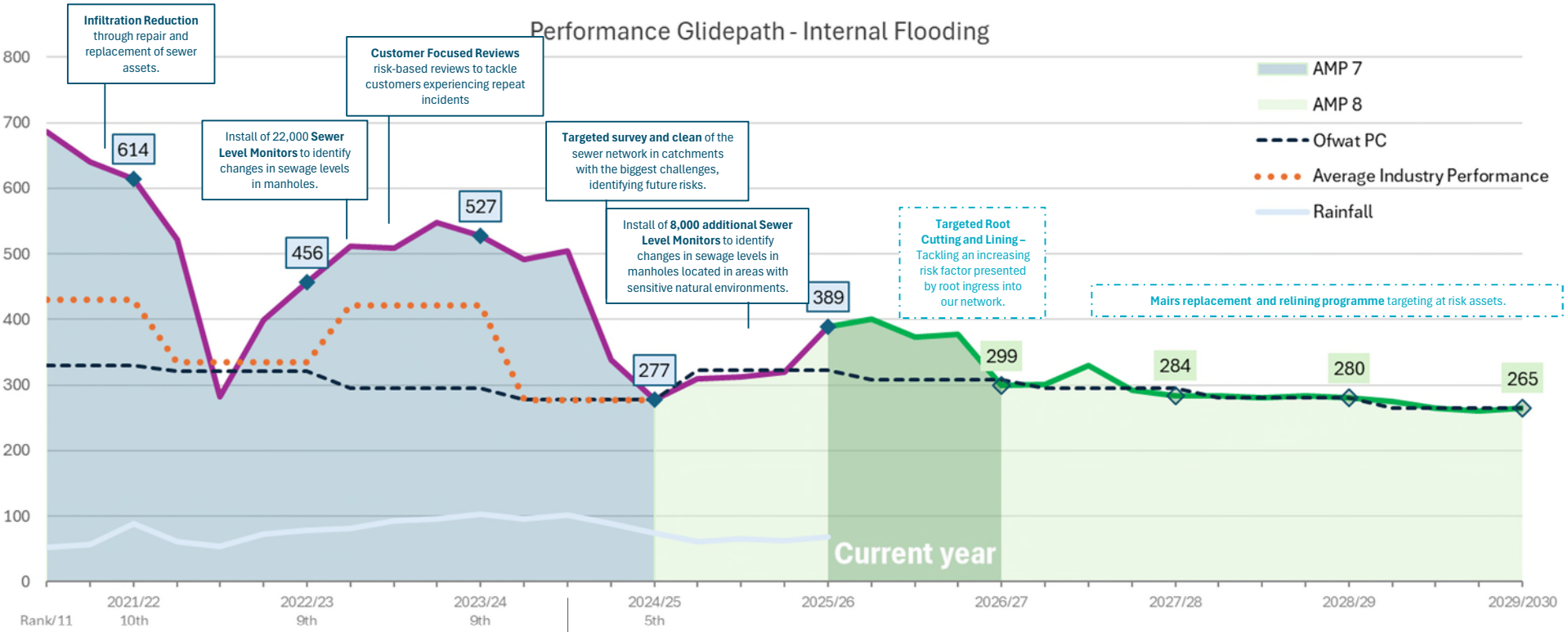
Identifying areas with repeated floodings, using targeted plans to resolve risk and working with customers to tackle repeat incidents.

Focus on identifying and preventing future failures in high-risk areas, using Sewer Level Monitoring to identify a flooding risk prior to a flood occurring.

March 2026 data

Wastewater ~ Internal Sewer Flooding (Incidents)

Internal Sewer Flooding is reported as the number of incidents (including flooding due to severe weather events) where flooding enters a building or passes below a suspended floor in a financial year (lower is better)



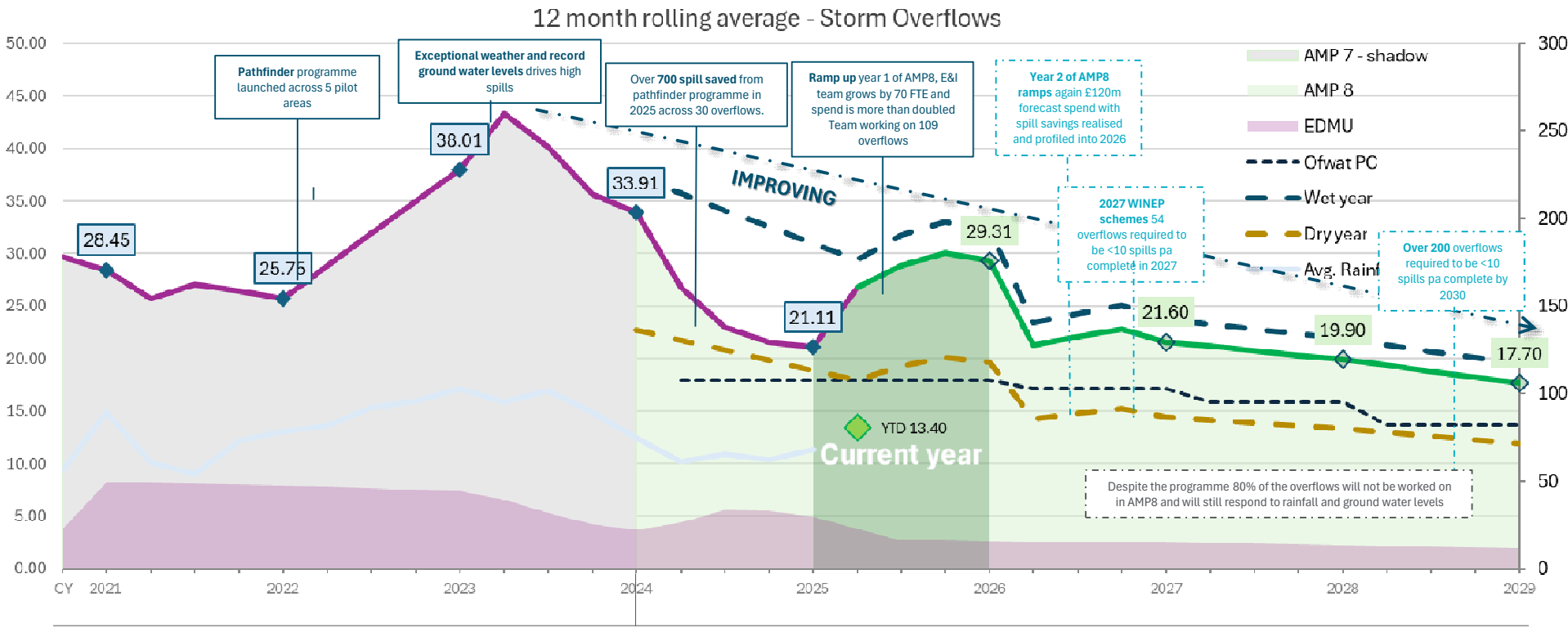
Identifying areas with repeated floodings, using targeted plans to resolve risk and working with customers to tackle repeat incidents.

Focus on identifying and preventing future failures in high-risk areas, using Sewer Level Monitoring to identify a flooding risk prior to a flood occurring.

March 2026 data

Wastewater ~ Storm Overflows (average spills)

The average number of times storm overflows have spilled in the calendar year, including an "uptime adjustment" where each overflow is assumed 100 spills per year if we're not monitoring it in real-time. This means if an overflow is unmonitored for a whole year, it's allocated 100 spills, so an overflow with 97% of data available will have 3 average spills added. (lower is better)



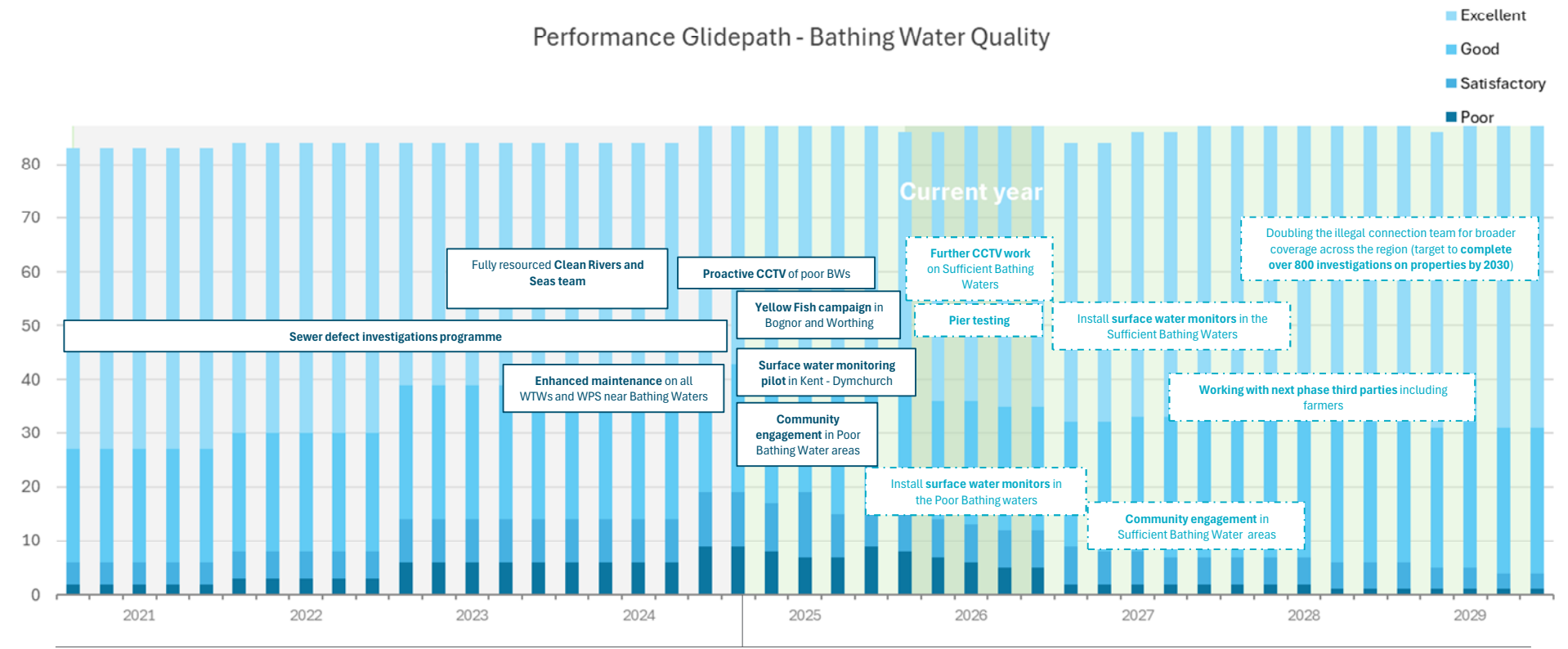
Pathfinder programme on small number of catchments to develop learning and inform reduction plan and build PR24.

Industrialise the programme ramp up resources, supply chain and embed processes and systems. To deliver at scale and pace to meet WINEP outcomes and spills reduction profile

March 2026 data

Wastewater ~ Bathing Water Quality

Average score out of 100 for bathing water quality as measured across the May – September bathing water seasons. Scores are weighted 100% for excellent classification, 66% for good classification, 33% for sufficient classification and 0% for a poor classification. An overall average score of 100 would mean that all bathing waters are excellent, whereas 0 would mean



Bathing water improvements through partnership working, and assessing root cause to form our PR24 plan

Focus on quick wins and small incremental changes using investment and community engagement, bringing customers and stakeholders along the journey with us

March 2026 data

Our role in planning

Our role in the planning process

Policy

- We provide statutory consultation responses to Local Planning Authorities (LPAs) on Local and Neighbourhood Plans.
- We recommend policy provisions that support sustainable development and protect the operation and capacity of our infrastructure.
- This work is supported by ongoing engagement with LPAs under the legal ‘Duty to Co-operate’.

Planning Applications

- We respond to non-statutory consultations from Local Planning Authorities (LPAs) on developer planning applications.
- We recommend planning conditions that support sustainable development and protect the operation and capacity of our infrastructure.
- We also respond to pre-planning enquiries from developers, assessing how proposed developments may impact our network.
- Outline planning approval acts as the trigger for us to engage more formally with developers. At this stage, we discuss build-out rates and begin option development with our asset team.
- We lead relationship management with major developers.

Industry regulation

We can:

- Deliver infrastructure to support new development, working with LPAs and developers to agree appropriate timeframes.
- Ask LPAs to apply planning conditions that phase development in line with the delivery of infrastructure, helping to protect the environment and our customers.
- Refuse surface water connections into our ‘foul only’ sewer network, in line with our surface water policy.

We cannot:

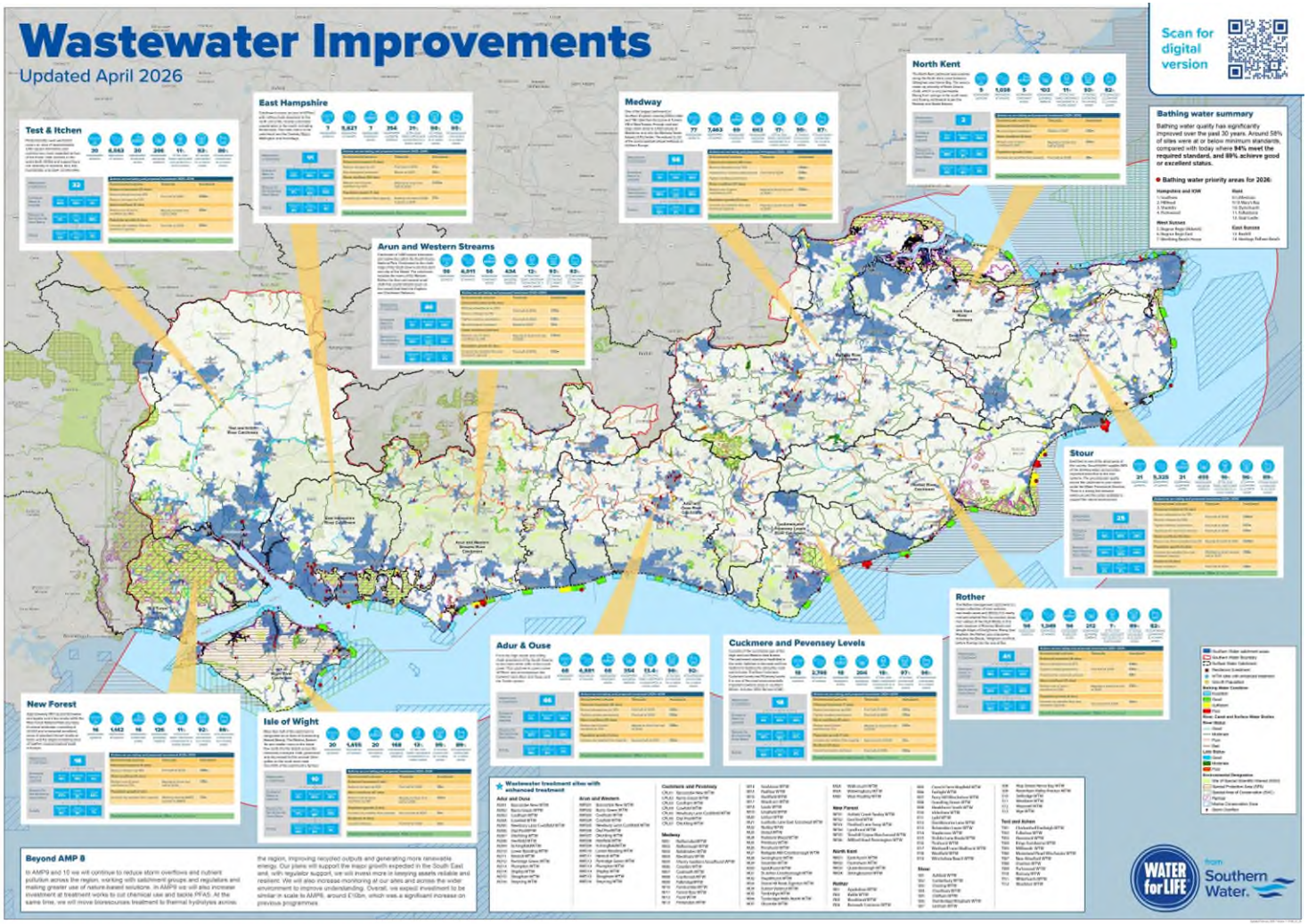
- Require developers to fund solutions to address pre-existing operational issues.
- Refuse connections to our network, even where capacity is constrained. Under Section 106 of the Water Industry Act, developers have a right to connect foul drainage with 21 days’ notice.
- This is why securing planning conditions that phase development in line with infrastructure delivery is critical.

Infrastructure upgrades

Wastewater

Stephen Pattenden

WATER for LIFE from Southern Water



Wastewater investment targets environmental and resilience improvements at locations across our service area.

Between 2025 and 2030 we will invest £3.6bn to enhance our sewerage, treatment and bioresources assets.

Drawing from this programme, today we'll focus on quality and capacity investments representing half of our enhancement programme and capital maintenance expenditure.

What we're delivering in AMP8

The **Water Industry National Environment Programme (WINEP)**, the regulatory framework which addresses our environmental obligations, developed in collaboration the EA and Ofwat.

Growing our wastewater treatment capacity to support new housing and improving environmental protections.

Growing our wastewater network to strengthen the network, ensure capacity is maintained and enhanced to support housing and development.

Maintaining and renewing existing sewer assets through relining and targeted replacement, reducing infiltration, improving reliability and extending the life of the network.

Water Industry National Environment Programme (WINEP) Areas

Area	Rationale	Total value (AMP8)
Overflows	Reduces storm overflow spills through catchment-level storage, SuDS and flow management, delivering regulatory compliance and significantly improving river and coastal water quality across priority sites. This multi year programme will continue into AMP9	£598 million
Nutrient reduction	Removes nitrogen and phosphorus from wastewater to prevent eutrophication, protect sensitive habitats, meet regulatory permits and support nutrient neutrality for sustainable housing and environmental goals.	£571 million
Removing sanitary and chemical pollutants	Upgrades treatment processes to meet tighter permits for ammonia, biochemical oxygen demand (BOD) and chemicals, reducing pollution risks and ensuring compliance with strengthened environmental standards across wastewater treatment works.	£123 million
Protecting shellfish beds	Protects designated shellfish waters by reducing microbiological contamination and storm impacts, using targeted upgrades such as UV treatment and improved flow management to safeguard marine environments.	£77 million

Treatment and networks enhancements

Area	Rationale	Total value
Treatment growth	Expands treatment capacity to support population and housing growth, ensuring wastewater systems handle increased demand while maintaining environmental standards and improving effluent quality.	£207 million
Network growth	Strengthens sewer networks through modelling and targeted interventions to manage demand, reduce infiltration and maintain capacity, preventing system failures and reducing risk of pollution incidents.	£61 million
Network maintenance	Renews and upgrades critical network assets through replacement, relining and infiltration reduction, improving reliability, extending asset life and maintaining long-term wastewater system performance.	£54 million

On-site foul water attenuation

WATER for LIFE from Southern Water

Our work in the catchment area

- Engagement previously took place with our then Head of Developer Services, Rob Angus for the development of the Wealden Foul Drainage Framework.
- We are currently scoping delivery in the catchment both in Hailsham North and South. Once these works are underway, it will reduce spills, supporting development in the area.
- Our planning team are due to meet with Wealden DC for the next Bi Lateral meeting on 21 July.

Q&A



Appendix A: Wastewater scheme detail

WINEP Overflows

Southern Water's WINEP (Water Industry National Environment Programme) targets the reduction of storm overflow spills through a multi-billion pound phased investment program. The plan prioritizes green infrastructure and local storage upgrades across Kent, Sussex, Hampshire, and the Isle of Wight to significantly lower spill frequencies by 2030 and 2035.
Projects typically take place at individual overflows catchments and involve surface water separation, SudS, pass forward flow, installing intelligent networks

Programme Value (AMP8)

£598m

Hampshire

2027 Regulatory Date – 40 sites

ARUNDEL DRIVE FAREHAM CSO	LEES LANE GOSPORT CEO
BREWERS LANE GOSPORT CSO	MAINLAND DRAYTON SSO
BRIDGEFOOT FAREHAM CEO	MIDDLECROFT LANE GOSPORT CSO
BURY ROAD GOSPORT CEO	MILE END ROAD PORTSMOUTH NO 1 CSO
CAMBRIDGE ROAD GOSPORT CEO	MILE END ROAD PORTSMOUTH NO 2 CSO
CAMS HILL FAREHAM CSO	NEWCOMEN ROAD PORTSMOUTH CSO
COTSWOLD WALK FAREHAM CSO	NORTH END AVENUE PORTSMOUTH CSO
COURT LANE COSHAM SSO	PIER ROAD SOUTHSEA CSO
COW LANE PORTCHESTER CEO	QUAY STREET FAREHAM CSO
ELMHURST ROAD FAREHAM CSO	REDLANDS LANE FAREHAM CSO
FAREHAM ROAD GOSPORT OUTSIDE 359	SALTERNS LANE FAREHAM CEO
FAREHAM ROAD GOSPORT OUTSIDE 68 CSO	SALTERNS LANE FAREHAM O/S 12
FOSTER ROAD GOSPORT CEO	SCHOOL LANE HAMBLE CEO
GLADYS AVENUE PORTSMOUTH CSO	STAMSHAW ROAD PORTSMOUTH CSO
GREEN CRESCENT GOSPORT CSO	THE GILLIES FAREHAM CSO
GROVE ROAD GOSPORT CEO	WALLINGTON HILL FAREHAM CSO
HIGH STREET FAREHAM CSO	WICKHAM ROAD FAREHAM CSO
HOEFORD FAREHAM CEO	WICOR MILL LANE PORTCHESTER CEO
HOLBROOK ROAD PORTSMOUTH CSO	WIDLEY ROAD PORTSMOUTH CSO
KIRTLEY CLOSE DRAYTON CSO	WINSTANLEY ROAD PORTSMOUTH CSO

Sussex

2027 Regulatory Date:
Thornham
Bosham
Bognor Main
Lavant - Singleton Relief
Investigations and surveys at 47 sites

2030 Regulatory Date
55 sites with storage solutions to reduce spill frequency
2 sites with online storage in the network
8 Sites with upgraded or improved screening

Kent

Swalecliffe WTW, FPF increase and significant treatment works rebuild.
Kings Hall Herne Bay CSO, SUDS and storage
Tunbridge Wells South CSO, SUDS and lining
Queenborough SSO, SUDS and storage
Abbey Road Faversham CSO, SUDS and storage
Diamond Road Whitstable, SUDS, storage and smart sewer
Paddock Wood SSO, SUDS and storage
Tankerton circus CSO, SUDS, storage and smart sewer
Tatt Yalding CSO, Lining
Cranbrook SSO, Lining
Sittinbourne, SUDS, storage and lining
Tunbridge wells south SSO, SUDS and Lining
Godstone, SUDS and storage
Hospital farm Harbledown, SUDS and storage
7 sites Screen only, 38 additional overflows

Wastewater Quality – Nutrient (WINEP)

Under the Water Industry National Environment Programme (WINEP), Southern Water is delivering a massive programme to strip nitrogen and phosphorus from wastewater before it enters local waterways. These efforts prevent eutrophication, combat nutrient pollution in sensitive habitats, and help achieve regional nutrient neutrality targets.
Projects typically take place at individual Wastewater Treatment Works and involve enhancement of chemical dosing and tertiary solids removal to meet a Phosphorus permit or additional treatment units to perform biological nitrogen removal

Programme Value (AMP8)

£571m

Hampshire

Total Nitrogen permit:
Portswood
Morestead
Ashlett Creek
Slowhill Copse
Woolston
Chickenhall
Lyndhurst
Overton
New Alresford
Wroxall
Flexford Lane, Sway
Harestock
Fullerton
Whitchurch
Romsey
East End

Total Phosphate permit:
Harestock
Fullerton
Romsey

Sussex

2030 P Permit
BARNS GREEN
BATTLE
BERWICK
BURWASH COMMON
CLAPHAM
COOLHAM
CROUCH FARM
MAYFIELD
DIAL POST
DITCHLING
EAST HOATHLY
FERNHURST
FERRY HILL
WINCHELSEA
FOREST ROW
FRANT
GUESTLING GREEN
HARTFIELD
ICKLESHAM
ITCHINGFIELD
KIRDFORD
LOWER BEEDING
LUXFORDS LANE EAST
GRINSTEAD
NUTLEY

2030 P Permit
PARTRIDGE GREEN
PETWORTH
PLUMPTON
ROGATE
SLAUGHAM
ST JOHNS CROWBOROUGH
STAPLECROSS
STEYNING
STUBBS LANE BREDE
TILLINGTON
VINES CROSS
WASHWELL LANE
WADHURST
WESTFIELD
WILMINGTON
WINCHELSEA BEACH
WINDMILL HILL
HERSTMONCEUX
WISBOROUGH GREEN

Total Nitrogen
Lavant WTW

Kent

Total Nitrogen and Phosphorus permits
Ashford,
May Street Herne bay,
Canterbury,
Westbere,
Sellindge,
Chilham, Potential pump away to Chartham
Chartham,
Lenham,
Wye,
Charing,

Phosphorus removal permits
Tunbridge Wells North,
Tonbridge,
Staplehurst,
Paddock Wood,
Sutton Valance

27 additional smaller sites for Phosphorus removal

Wastewater Quality - Sanitary & Chemicals (WINEP)

As part of the Water Industry National Environment Programme (WINEP), Southern Water is investing to tackle sanitary and chemical pollutants in the region's waterways. These statutory schemes focus on tighter permit limits for nutrients (phosphorus, nitrogen), ammonia, and specific chemicals of concern, as well as upgrading treatment works and tackling storm overflows.

Projects typically take place at individual Wastewater Treatment Works and involve enhancement of [……..technical summary here……]

Programme Value (AMP8)

£123m

Hampshire

No investment in Hampshire in AMP8

Sussex

Ticehurst WTW	£11.0M
Hailsham South WTW	£10.1M
Horsham New WTW	£5.8M
Henfield WTW	£4.5M
Barcombe New WTW	£3.6M
Battle WTW	£3.0M
Newick WTW	£1.9M
Fairlight WTW	£0.6M

BOD
Battle
Lidsey
Ticehurst

Ammonia
Barcombe New
Hailsham South
Henfield
Horsham New

Kent

Additional or tighter BOD permit
Newnham Valley Preseton,
Bidborough
Paddock Wood
Ulcombe
Headcorn
Lingfield
Oxted
3 additional sites

Additional or tighter Ammonia permit
Felbridge
Staplehurst
Paddock Wood
3 additional sites

DO permits at two sites, Eel Screening at 1 site,
Additional other chemical drivers at 3 sites

Wastewater Quality – Shellfish (WINEP)

Under the Water Industry National Environment Programme (WINEP), Southern Water is investing heavily to reduce microbiological contamination and storm spills impacting designated shellfish waters. Key initiatives include multi-million-pound upgrades at coastal treatment works, UV irradiation systems, and strict spill limits to safeguard marine environments.
Projects typically take place at individual Wastewater Treatment Works and involve enhancement of [……..technical summary here……]

Programme Value (AMP8)

£77m

Hampshire	Sussex	Kent
Southwick WTW – solution is to convert the WTW into a pumping station and convey flows to Peel Commons catchment	Thornham WTW – install UV	Faversham WTW – install UV and tertiary solids removal

Wastewater Treatment Growth

Southern Water faces significant population growth forecasts across its region, prompting a massive capital investment into its Wastewater Treatment Works (WWTWs) to support new housing while upgrading environmental protections. The company is injecting billions of pounds to expand site capacity, build storm tanks, and improve effluent quality.
Projects typically take place at individual Wastewater Treatment Works and involve enhancement of assets to process the additional flows

Programme Value (AMP8)

£207m

Hampshire

Site investment as name (town/ district council) ordered by investment size.

Future: order investment by change magnitude, e.g. £/PE

Fullerton (AMP8 & 9)
Stockbridge WTW
Bishops Waltham WTW
Chale

Sussex

Site investment as name (town/ district council) ordered by investment size.

Future: order investment by change magnitude, e.g. £/PE

Goddards Green WTW
Ford WTW
Billingshurst WTW
Horsham WTW
Alfriston WTW

Kent

Site investment as name (town/ district council) ordered by investment size.

Future: order investment by change magnitude, e.g. £/PE

Whitfield (Dover) WTW
Northfleet WTW
Ham Hill WTW
Dymchurch WTW
Gravesend WTW
Stoke WTW
Sandhurst WTW
Horsmonden WTW
Wateringbury WTW

Network Growth

Network Growth Description

Projects are typically delivered within the catchments of individual Wastewater Treatment Works. They involve modelling and design activities, followed by targeted interventions to strengthen the network and ensure capacity is maintained and infiltration is effectively managed. There are currently 40 live projects within 13 strategic catchment-wide schemes.

Programme Value (AMP8)

£61

Hampshire

Site investment as name (town/ district council) ordered by investment size.

Future: order investment by change magnitude, e.g. £/PE

Peel Common
Chickenhall

Sussex

Site investment as name (town/ district council) ordered by investment size.

Future: order investment by change magnitude, e.g. £/PE

Eastbourne
Hailsham South
Hailsham North
Horsham
Hastings

Kent

Site investment as name (town/ district council) ordered by investment size.

Future: order investment by change magnitude, e.g. £/PE

Northfleet
Aylesford
Sittingbourne
Queenborough
Swalecliffe
Faversham

Planned Wastewater Network

Planned Network Description

Projects typically take place at individual site locations & involve either relining or replacing the asset.

Programme Value (AMP8)

£54

Hampshire

Rising Main:
Little Ann Bridge
St Marybourne
Ashurst Bridge
Rowner Lane
Pollards Moor
Mainland Drayton

Infiltration Reduction by Catchment:
Fullerton – Appleshaw, Penton Mewsey & GoodworthClatford
Budds Farm: Hambledon
Kings Somborne – Broughton
Barton Stacey – Ibthorpe to St MaryBourne

Sussex

Rising Main:
Barnetts Bridge
Ropetackle WPS
Ford Rd, Arundel WPS
Malthouse Lane WPS
Bay Estate RM

Infiltration Reduction by Catchment:

Barnham
Winchelsea
Sidlesham

Kent

Rising Main:
Mill Lane Kennington
Lower Road Lower halstow
Hall Road Aylesford
Gainsborough drive
Kingsford Street Mersham

Infiltration Reduction by Catchment:
Upper Nailbourne (Hythe)
Lower Nailbourne (Newnham Valley)

Site Specific
Gorrel Tank Refurbishment

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