08/07/24

Sarah-Jayne O'Kane

COTSN(SEVERA SUMMI





WHAT WE WILL COVER

- How we plan our investment
- Share a summary of the Severn Trent catchments and key wastewater assets in the Cotswolds District
- What plans do we have for future improvements in the Cotswolds?
- River quality and improvement plans

HOW WE PLAN FOR INVESTMENT

WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS DRAINAGE AND WASTEWATER MANAGEMENT PLAN

What is it?

- A strategic plan to 2050 of how we will extend and maintain a robust and resilient drainage and wastewater system to manage future pressures of climate change, population growth and urban creep.
- It sets out the best value investment plan requirements over the next 25 years, underpinned by hydraulic modelling & following industry guidance.

What does it include?

- Shows the investment needed to aligning to the Governments Storm Overflows Discharge Reduction Plan
- Shows how we are working in partnership to address sewer flooding risks
- Provides the evidence base to support our PR24 Business Plan submission to Ofwat for 2025-2030



WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS DRAINAGE AND WASTEWATER MANAGEMENT PLAN

- Shows information from the DWMP Assessment at individual catchment level. This provides details such as:
 - Catchment Summary
 - Wastewater Treatment Works long term constraints
 - Current and future risks
 - Viable options within the catchment

DWMP: Catchment Overview: CHIPPING CAMPDEN (10330)

Overview

Chipping Campden WarTW is located to the east of Chipping Campden and serves a population of 2,320. Treated effluent is discharged to the Cam Brook, a tributary of the River Stour. In addition to treating flows from Chipping Campden, the cathoment also drains the village of Broad Campden. All flows are by gravity.

Key Statistics:

- Residential Population Served: 2,320
- This is our 237th largest catchment across the whole of Severn Trent, and the 31st largest in the Avon Stategic Planning Area making up <1% of its population.
- It has 39.5km of public foul water sewers and 4.8km of public surface water sewers (these exclude Section 24 and sewers transferred in 2011).

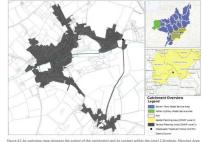


Figure 61 An overview map showing the extent of the catchment and its context within the Level 2 Strategic Planning Area and Level 1 Company.

Wastewater Treatment Works (WwTW)

In line with Common Planning Objective 5 (CPOB); "Nisk of Wastewater Treatment Works guality compliance failurs" we have considered pressures on flow and guality permit compliance, plus any technological limitations or physical site conditions which could be a 'showerbayer'. The output of this assessment is summarized in Figure 2 (below), for more information on this assessment please see the DWMP Technical Summary', Assessing WarWN Capacity'.

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WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS OUR BUSINESS PLAN

- Our DWMP has fed into our PR24 Business Plan it outlines that **£4.4bn** investment required on Storm Overflows over the next 25 years.
- Between 2025 and 2030 **£1.1bn** investment is planned for Storm Overflows across the Severn Trent Region.
- It focusses on ensuring that our activities are not the reason for watercourses not achieving good status.



WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS STORM OVERFLOW IMPROVEMENTS IN 2024

- Across the Severn Trent region we are planning to deliver storm overflow solutions across 900 locations, with a total investment for 2024/25 of £450m aiming to reduce total storm overflow spills by 20% per year.
- This includes:
 - New storage solutions to capture and store more flows
 - A large-scale community trial of over 8,000 free water butts
 - New 'nature based' solutions including the creation of 70 new reed beds to treat sewage from storm overflows.
 - Enhancements to increase the flow of sewage to treatment works
 - Flap valves to prevent river ingress into the network
 - A Zero Spills hub dedicated to storm overflow improvements

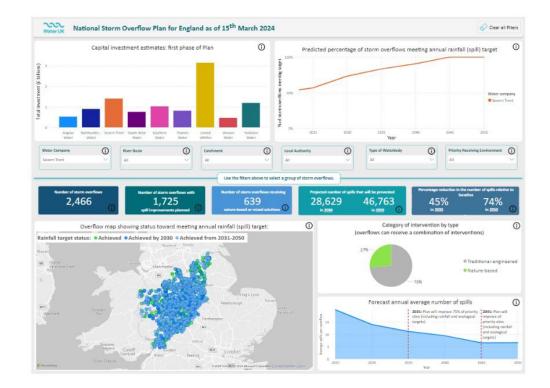
Catchment	Spills Improvement Planned 2024/25
Avening	Yes - Treatment and storage
Blockley	Yes - Treatment, storage and infiltration reduction
Chipping Campden	Yes - Storage
Honeybourne	Yes - Maintenance Activities
Stanley Downton	No



ST Classification: UNMARKED

WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS STORM OVERFLOW ACTION PLAN

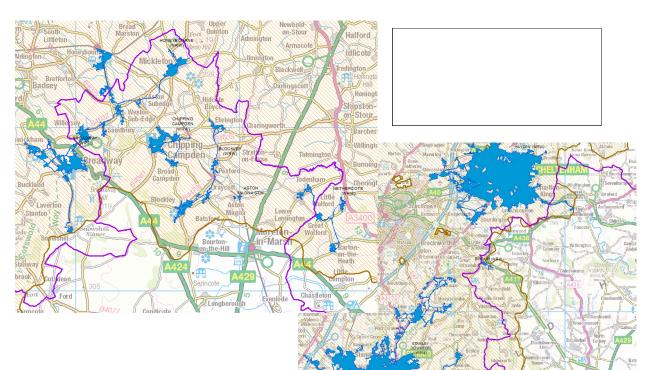
- The National Storm Overflows Plan can be viewed on Water UK's website.
- For all English Water companies, it shows the plan for each storm overflow up to 2050.
- It shows how the targets of the Government's Storm Overflows Discharge Reduction Plan will be met for all storm overflows.
- These targets include:
 - Ensure all storm overflows are NOT causing harm to watercourses
 - Ensure all storm overflows spill no more than 10 times in a typical year
 - Ensure all storm overflows have appropriate screening controls
 - Ensure all storm overflows in designated bathing waters are reduced to 1 spill per bathing season (May-Sept)
- £11.2m planned across the Cotswolds District to address 4 storm overflows by 2045.



SEWERAGE INFRASTRUCTURE IN THE COTSWOLDS

• There are 10 ST catchments within the Cotswolds District:

	Population
Catchment	Equivalent
ASTON MAGNA STW	205
AVENING (WRW)	1,036
BIRDLIP (WRW)	224
BLOCKLEY (WRW)	1,954
BROADWAY (WRW)	4,101
CHIPPING CAMPDEN (WRW)	2,376
HAYDEN (WRW)	123,061
HONEYBOURNE (WRW)	5,292
NETHERCOTE (WRW)	567
STANLEY DOWNTON (WRW)	77,859



WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS TREATMENT CAPACITY

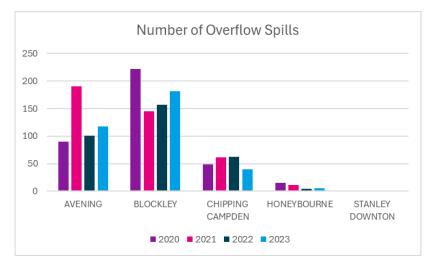
		Current Estimated Spare	
	Population		Estimated Spare
Catchment	Equivalent	(dwellings)	Capacity Risk
ASTON MAGNA STW	205	N/A	N/A
AVENING (WRW)	1,036	1224	LOW
BIRDLIP (WRW)	224	333	LOW
BLOCKLEY (WRW)	1,954	252	MEDIUM
BROADWAY (WRW)	4,101	-292	VERY HIGH
CHIPPING CAMPDEN (WRW)	2,376	5,106	LOW
HAYDEN (WRW)	122,278	25,197	LOW
HONEYBOURNE (WRW)	5,292	2,573	LOW
NETHERCOTE (WRW)	567	450	LOW
STANLEY DOWNTON (WRW)	68,536	38,883	LOW

Key	Estimated Spare Capacity (RAG)
Not Measured	Non Mcerted - Scale of WwTW is below that requireing flow monitoring
Low	Not expected to be an issue
Medium	Marginal concern subject to size of development
High	Probable issue
Very High	Issue Currently being investigated

Broadway Treatment Works has a capital investment scheme ongoing to install a new oxidation ditch, completing by March 2025. This will resolve capacity issues here by increasing flows to full treatment.

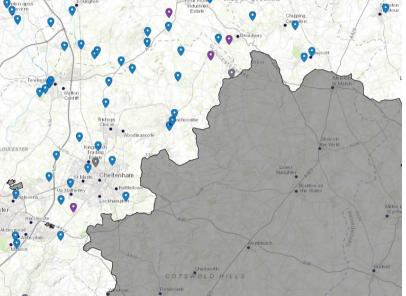
WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS STORM OVERFLOWS

We have 7 Storm Overflows across 5 catchments within the area Severn Trent covers in the Cotswolds.

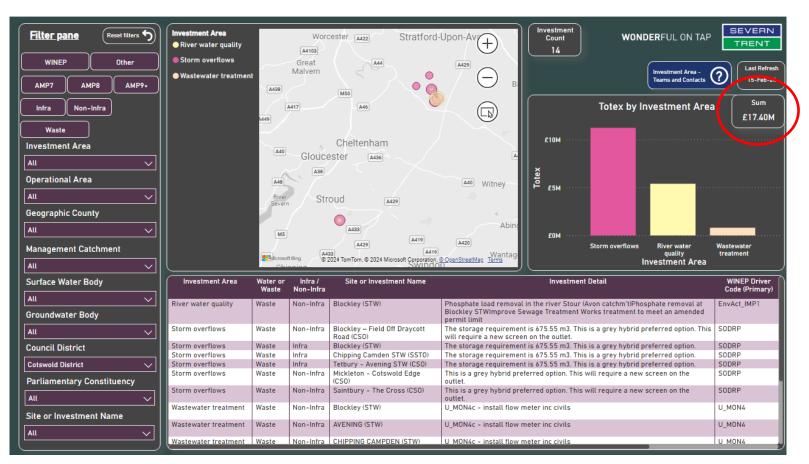


Our Storm Overflow Map can be accessed from the Severn Trent Website

SEVERN TRENT Your account Your services Water meters Emergencies Help and contact Storm overflow map I Get River Positive I About this map Find address or place Image: Complex of the shame of the shame



INVESTMENT PROGRAMME



EXAMPLES OF INVESTMENT

Blockley Treatment Works – We've invested £3.7M here to increase the capacity of the works. We can now treat an additional 61% increase in flow through the works. This work was completed in Feb 2024

Long Compton – c£1M of work has gone on here to meet a new phosphorus permit - chemical dosing and aeration of existing reed bed We also have plans in AMP8 to add additional capacity to accommodate expected growth

Nethercote Treatment Works (serves Great Wolford, Little Wolford, Toddenham and Barton-on-the-Heath, about 4 km NE of Moreton-In-Marsh. We invested £2.3M to rebuild the works with an RBC, new reed bed and chem dosing to achieve the new P permit.

Cherington Treatment Works – we're now able to treat 70% more wastewater at this site due to new inlet pipes and new permits.

Honeybourne Treatment Works - it sits just in Stradford DC, but serves Mickleton, Aston Subedge, Weston-sub-Edge and Willesey – we have invested £8.3M to upgrade the inlet works, Tertiary Ammonia Removal plant, Tertiary Solids Removal plant, and chemical dosing.

We are investing at four works on the edge of the Cotswolds -**Alderton, Ashton under Hill, Beckford and Toddington** to accommodate growth, which is precipitating increased capacity and tighter permit limits (higher standard of water recycled to the environment). Solutions are still being developed, but will be £15-20M across these works

Broadway Treatment Works has a capital investment scheme ongoing to install a new oxidation ditch, due to be completed by March 2025. This will resolve capacity issues here by increasing flows to full treatment

WORKING TOGETHER TO GET THE BEST OUT OF OUR ASSETS APPROACH TO NEW DEVELOPMENT



We are consulted on new developments planned in our catchment



We respond to Local Planning Consultations and Planning Applications. This includes Water Cycle Studies, Strategic Flood Risk Assessments and encouragement of water efficiency standards.



We undertake Sewer Capacity Assessments to identify where there may be risks and where improvement activity may be required.



We work with developers to ensure their plans reduce surface water connections to the foul sewer network and use approved building standards.

PLANS FOR MANAGING **WASTEWATER AND** WATER QUALITY

- Rivers matter to us and nature. They are crucial for maintaining ecosystems and are at the heart of what we do.
- That's why we are keen to play a leading part to protect them and drive forward further improvements to our environment, whilst supporting others to do the same.
- We developed five ambitious pledges for us to be able to track our progress against
- After a successful year, the Advisory Panel members have all agreed to continue and we have enhanced the panel through the representation of an additional river user group PaddleUK alongside our land use and habitat experts.



PLEDGE ONE

Ensure storm overflows and sewage treatment works do not harm rivers



PLEDGE TWO

Create more opportunities for everyone to enjoy our regions' rivers

PLEDGE THREE or Support others to improve and s' care for rivers



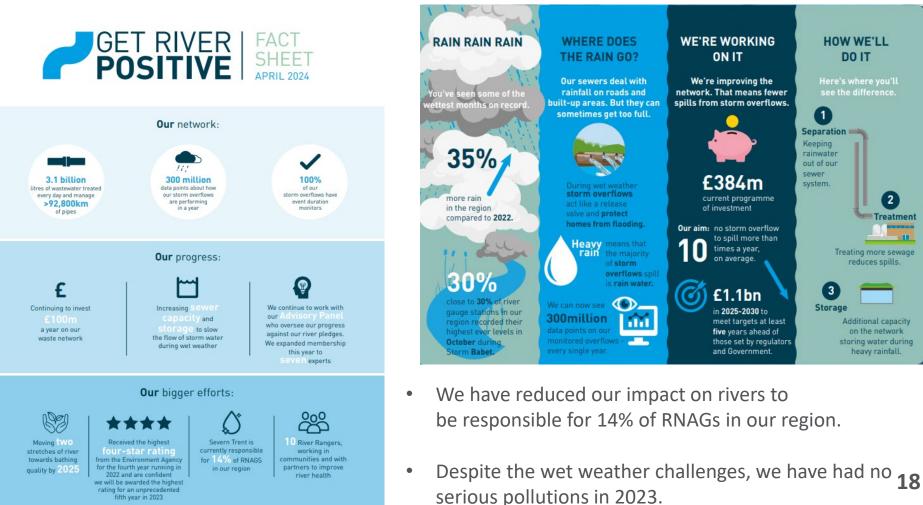
e Open and transparent about our performance and our plans

PLEDGE FIVE



Get River Positive Annual Report 2024

Get River Positive Website contains more details on our pledges.



Since January 2022, our team of 10 River Rangers have worked with customers, citizen scientists, community groups and environment organisations to protect and enhance our local rivers.

River Ranger Team



We've carried out over 7,200 riverside inspections in the area, and held over 100 stakeholder meetings in Gloucestershire

You can get in touch with the team: **RiverRangers@severntrent.co.uk**



Terry & Randall our Gloucestershire team



QUESTIONS?