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Stopping Hastings falling foul of the revised BWD rules

▶ Various sources of pollution were putting the population and historic town of Hastings at risk of failing the stringent new standards demanded by the revised Bathing Water Directive. MWH's Rob McTaggart explains.

PROJECT SPECS

- Hastings must achieve at least "sufficient" in the revised BWD
- Review historic investigations and prioritise catchment areas for further
- Fix pollution sources leading affecting Hastings' bathing water
- Foster collaboration and data sharing

Directive 2006/7/C) introduced by the European Union has brought a new classification system with much tougher water quality standards as well as an emphasis on providing infour levels of classification -

Hastings had been to meet revised bathing water quality standards. Additionally, the Environment Agency (EA) had predicted that stakeholders. Hastings would be classified as "poor" for the 2015 bathing season. Southern Water, therefore, set itself the target of "sufficient" classification (as identified in the Environment Programme) following the 2015

It was clear from the outset that this was not going to be an easy fix. Especially, as the is a historic area, heavily urbanised, covers an area of and has a population of around

The EA had identified the Alexandra Park Stream as a major path of pollution that discharges directly onto the beach, 60m from the bathing water sample point. As a result, the EA and Hastings Borough Council (HBC) undertook Stream during 2014 and 2015.

It was also quickly obvious that this was not a challenge that could be tackled alone. Southern Water, HBC, EA and

The revised Bathing Water Hastings and Rother Voluntary Hastings in 2014 and prioritised (rBWD Action groups, all supported areas of the catchment for fur-uced by by local MP Amber Rudd, ther research. We took visual consortium to collectively meet ples at every outfall in the

Combined powers

The Hastings Bathing Water excellent, good, sufficient and formed to bring together risk to pollution following these identified as one of 25 UK. The combined powers of all were prioritised to achieve the and communicate effectively Hastings beach. These sub-

> passing the more stringent standards (which are twice as water passed but has been classified identified to date "good", exceeding the remediated. "sufficient" target

John Spence, head of Water Misconnections pleased to have played our part Details of all the private

catchment that discharge to Alexandra Park Stream to iden tify key sources of pollution.

Executive Group (HBWEG) were confirmed as being low interested parties and foster surveys. The sub-catchments collaboration and data sharing. where pollution was present these groups enabled them to biggest impact in reducing the address sources of pollution bacterial load discharging onto with the public and other catchments were thoroughly investigated to identify Work carried out by all bacterial sources by means parties has helped fix a variety including strategic caging, of pollution sources leading to manhole surveys, connectivity the town's bathing water now surveys and property surveys.

Approximately 1,700 surface manholes tough as those previously successfully surveyed. A total applied). The first results of 125 defects to dual manholes published on November 5 show which have the potential to be a the bathing water not only pollution source, have been

Quality and Environment at Between 2014 and 2015 Southern Water, says: "This is additional surveys commisfantastic news for Hastings sioned by HBC, MWH and and demonstrates just how Southern Water collectively successful this collaborative checked the connectivity of way of working can be. We more than 1,200 properties in were fortunate to have the the town, revealing misconnec support of the town's MP, tions at 85 properties. These Amber Rudd, who helped drive included dishwashers, washing the collaboration. We are really machines, sinks and 22 toilets.

in helping the town protect its misconnections found have bathing water and meet the been passed to the council so works to clean Alexandra Park new standards for water they can contact homeowners and arrange for them to be Southern Water commis- corrected. Southern Water sioned MWH to carry out a continues to carry out detailed review of all the rectification works on the historic investigations in public network where issues

Visual surveys and grah water samples were taken at every outfall that discharge to Alexandra Sub-catchments were investigated to identify

bacterial sources ▶ The connectivity of more than 1,200 pro Hastings were checked

NEED TO KNOW

- oving indirect misconnections has reduced E. coli being discharged by 47.9 billion E. coli/day
- The EA had predicted Hastings would be
- Southern Water has so far invested more than

THE VERDICT

strates just how successful this collaborative way of support of the town's MP, Amber Rudd, who helped drive the collaboration" John Spence, Southern Water





have been identified

It was envisaged that direct main source of pollution. However, the extensive survey work identified that indirect misconnections were the main source of pollution. sewers carrying wastewater from homes to the town's treatment works are wrongly connected into surface water pipes through which rainwater released into the sea. Indirect misconnections occur when a foul sewer running through an open dual manhole becomes blocked. As a result, the sewage builds up and tips into the surface water network. The survey identified a small

removal of these indirect coli being discharged into everything else in the bin. Alexandra Park Stream by 47.9 billion E. coli/day.

overflows in the catchment was carried out by Southern Water, to determine what risk water based on frequency and scale of pollution. Following a review of historical spill events, it was concluded that good for the water environ the spill frequency of the overflows in Hastings was not regular enough during a effect upon the classification of the Hastings bathing water.

To help communicate this wide-ranging project to the community-led campaign called 'Clean Seas Please' was managed by Hastings Voluntary east Hastings. Action and Rother Voluntary Action, and supported by the EA and Southern Water.

wide-ranging and the Hastings project.

This is fantastic news for Hastings ust how successful this collaborative way of working can

successful campaign focused on encouraging people to check their domestic plumbing It is estimated that the misconnections and to only flush the three Ps - pee, poo misconnections has reduced E. and paper - and to put

Coastal Environment manager An assessment of the three for the EA, says: "It is great news for Hastings but it's crucial that we continue to work in partnership to address the effect that pollution is having on bathing water quality. Having quality beaches and bathing water is not only but also for tourism and loca economies too.'

bathing season to have an collaborative project has Waters exceeding the targeter "sufficient" classification and achieving a strong "good". people of Hastings, a Southern Water has so far invested more than £3M in the set up in March 2013. It is now being carried out in north collaboration will continue to protect and sustain the classification achieved.

Volunteers from Clean Seas ■ Rob McTaggart, senior principa Please held a series of high civil engineer at MWH, is strategi profile events across the town. solution provider technical lead on