Drainage and Wastewater Management Plans (DWMPs)

Workshop on the Adur and Ouse DWMP

Tuesday 8 September 2020





Agenda

- Objectives of the workshop
- Presentation: Drainage & wastewater management in the Adur and Ouse river basin
- Discussion session 1: Exploring the Risk Based Catchment Screening
- BREAK
- Presentation: Planning Objectives
- Discussion session 2: Defining the objectives for this river basin catchment
- Next steps



Objectives of the Workshop

- To start working together to develop the DWMP
- To understand the results from the risk based catchment screening (RBCS)
- To identify any other issues or concerns in the catchment
- To agree the planning objectives for the DWMP
- To identify any other metrics or indicators of risk that need to be included in the baseline risk and vulnerability assessment (BRAVA).



Presentation 1

Drainage and Wastewater Management in the Adur and Ouse river basin catchment

Chris Braham

Head of Asset Performance, Wastewater Operations



Objectives for this session

- To develop a high level understanding of the drainage and wastewater systems in this catchment
- To understand the Risk Based Catchment Screening (RBCS) process
- To enable you to analyse and discuss the results for this catchment in the break-out session that follows this presentation

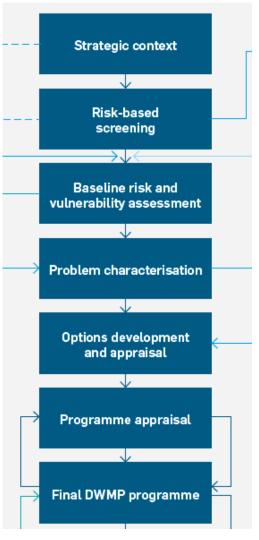


Adur and Ouse River Basin Catchment



- 68 sewer catchments
- 68 WTWs
- 423 WPS
- 4,896km sewers
- 13.4% area
- 96% homes connected





Risk Based Catchment Screening (RBCS)

- Second step in the DWMP process
- Identifies where there is potential "system vulnerability" to future changes (i.e. risks that need to be investigated during the DWMP)
- Screening process for all 68 sewer catchments



Risk Based Catchment Screening – Results 1

	Catchment Characterisasis.	Intermittent Discharge	Discharge to Sensitive Waters	Discharge to Sensitive Waters	Storm Overflow Assessment Framework Live Storm Overflow	Capacity Assessment Framework (Car.	Internal Flooding	from sewers within cues.	Risk of Pollution Incidents (Cat	Risk of WwTw Quality non-	Risk of WwTw DWF non-	Storm Overflows	Other Risk Management	Planned Residential Development	Liet Environmental Programme (Winser)	Sewer Collabses	Sewer Blockages	Customer Complaints	
Sewer Catchment Name	1	2	3	4	5	6	7	8	9	10	11_	12	13_	14	15_	16	17_	18	Proceed to BRAVA?
PEACEHAVEN BRIGHTON	·	V	·		•	•	•	V	M	_	•		·		•		•		YES
EAST WORTHING																			YES
NEWHAVEN EAST																			YES
GODDARDS GREEN																			YES
SHOREHAM																			YES
SCAYNES HILL																			YES
UCKFIELD																			YES
STEYNING																			YES
ASHINGTON																			YES
HENFIELD																			YES
NEAVES LANE RINGMER																			YES
NEWICK																			YES
BARCOMBE NEW																			YES
CUCKFIELD																			YES
PARTRIDGE GREEN																			YES
BUXTED																			YES
WIVELSFIELD																			YES
BALCOMBE																			YES
DITCHLING																			YES
MARESFIELD																			YES
ARDINGLY																			YES
8COWFOLD																			YES
																			YES
DANEHILL																			TES

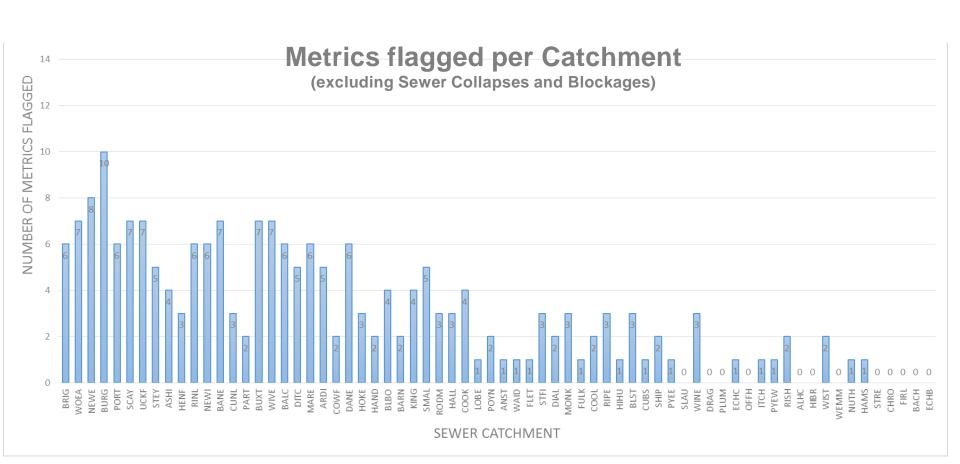
Risk Based Catchment Screening – Results 2

	Catchment Characterica	Intermittent Discharee	Discharge to Sensitive Waters	Discharge to Sensitive Waters	Storm Overflow Assessment	Capacity Assessment Framework (CAL)	Internal Flooding	External Flooding from sewers within cursus	Risk of Pollution Incidents (Cat	Risk of WwTw Quality non-	Risk of WwTW DWF non- Compliance	Storm Overflows	Other Risk Management Authority Svero	Planned Residential Develorm	Environmental Programme	Sewer Collapses	Sewer Blockages	Customer Complaints	
	Tier 2	Tier 1	Tier 1	Tier 2	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 2	
Sewer Catchment Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Proceed to BRAVA?
IORSTED KEYNES																			YES
IANDCROSS																			YES
BLACKBOYS																			YES
ARNS GREEN																			YES
INGSTON HOLLOW																			YES
MALL DOLE																			YES
ODMELL																			YES
IALLAND																			YES
COOKSBRIDGE																			YES
OWER BEEDING																			YES
OYNINGS																			YES
INSTY																			YES
VARNINGLID																			YES
LETCHING																			YES
TAPLEFIELD																			YES
DIAL POST																			YES
MONKS GATE																			YES
ULKING																			YES
COOLHAM																			YES
RIPE																			YES
IIGH HURSTWOOD																			YES
BLACKSTONE																			YES
ROOK STREET CUCKFIELD		1																	YES

Risk Based Catchment Screening – Results 3

	Catchment Characteries	Intermittent Discharee	Discharge to Sensitive Waters	Discharge to Sensitive Waters	Stom Overflow Assessment	Capacity Assessment Framework (CAR)	Internal Flooding	External Flooding from sewers within cures.	Risk of Pollution Incidents (Cat	Risk of WwTw Quality non-	Risk of WwTW DWF non- Compliance	Storn Overflows	Other Risk Management Authority Sustan	Planned Residential Development	Environmental Programme (WINE)	Sewer Collapses	Sewer Blockages	Customer Complaints	
	Tier 2	Tier 1	Tier 1	Tier 2	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 1	Tier 2	
Sewer Catchment Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Proceed to BRAVA?
SHIPLEY																			YES
PYECOMBE EAST																			YES
SLAUGHAM																			NO
WINEHAM																			YES
DRAGONS GREEN																			NO
PLUMPTON																			NO
HOLLYCROFT EAST CHILTINGTON																			YES
OFFHAM																			NO
ITCHINGFIELD																			YES
PYECOMBE WEST																			YES
SMALLHOLDINGS RINGMER																			YES
HIGHCROSS ALBOURNE																			NO
ніднвкоок																			NO
WISTON																			YES
WESTMESTON																			NO
NUTHURST																			YES
HAMSEY																			YES
STREAT																			NO
CHAILEY																			NO
STAMFORD BUILDINGS FIRLE																			NO
BARCOMBE CHURCH																			NO
HIGHBRIDGE EAST CHILTINGTON																			NO
68																			56

Risk Based Catchment Screening - Results



Discussion session 1 The results of the RBCS



Session 1: Risk Based Catchment Screening (RBCS)

Questions:

- Based on the results, what are your main concerns in this river basin catchment?
- What other issues or concerns do you have in this river basin catchment?
- Are all the sewer catchments (where you have the most concerns) flagged to progress to BRAVA?
- For any other concerns identified, what data could be used to assess the scale of the issue now and in the future?



Presentation 2

Planning Objectives for the Adur and Ouse DWMP

Chris Braham

Head of Asset Performance, Wastewater Operations

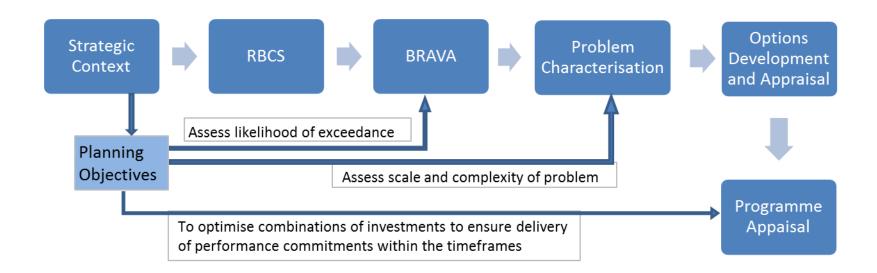


Objectives for this session

- To understand why we need planning objectives and how they will be used
- To know what planning objectives have been specified by Water UK for all companies to report
- To facilitate discussion on any additional planning objectives that may be needed for the Adur and Ouse catchment



Planning Objectives





Planning Objectives

- Water UK requires all water companies to report on the following 6 planning objectives:
 - 1. Risk of sewer flooding in a 1 in 50-year storm
 - 2. Storm overflow performance
 - 3. Risk of WTW compliance failure
 - 4. Internal sewer flooding risk
 - 5. Pollution risk
 - 6. Sewer collapse risk
- What is missing? Are any additional planning objectives needed for this river basin catchment?

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Planning Objectives – methodology for BRAVA

- Water UK sets out how each of the 6 planning objectives need to measure and report on risk in 2020, and for 2050 (where required)
- Describes how risks will be assessed in BRAVA stage
- Additional planning objectives need to consider how to measure the risks now, and for future planning horizons
 - What data is available? Coverage, ownership, format, accessibility?
 - Can we assess the likelihood of occurrence in the future, and consequence?
 - Can the outcomes be influenced by us, or other risk management organisations?
- Next step to develop BRAVA methodology for each planning objective

Discussion session 2 Identifying planning objectives



Session 2: Planning Objectives

Questions:

Based on the RBCS results from breakout 1:

- Are all your areas of concern / issues covered by the 6 national planning objectives?
- If not, then what gaps need to be filled with additional planning objectives?
- What additional indicators, metrics or data could we use to measure the current and future risks for any additional planning objectives?



Next Steps



Timetable

Dates	Activity
To Nov 2020:	Working with partner organisations to develop the strategic context, planning objectives and baseline risk and vulnerability assessment (BRAVA)
Dec 2020	Submission of BRAVA to Water UK
Jan - Sep 2021	Working with partners on options development and appraisal
Autumn 2021	Start early consultation with customers on the catchment based DWMPs (Level 2)
Summer 2022:	Public consultation on the regional DWMP
January 2023	Publish final DWMPs



Thank you for participating today

Contact us: DWMP@southernwater.co.uk



