

Stockbridge Wastewater System - Outline Options Appraisal

Generic Option	Location of Risk	Planning Objective and Description of Risk	Option Reference	Description	Further Description	Unconstrained Option?	Constrained Option?	Feasible Option?	Net Benefits	Estimated Cost	Preferred Option	Best value / Least cost or Reasons for Rejection
Control/ Reduce surface water entering the sewers												
Control / Reduce groundwater infiltration												
Improve quality of wastewater entering sewers (inc reducing FOG, RAG, pre-treatment, trade waste)												
Control / Reduce the quantity / flow of wastewater entering sewer system	STOCKBRIDGE WTW	PO8 (2050)- Dry Weather Flow	STOC.SC04.1	Water Efficient Appliance / Measures	Southern Water aims to reduce water consumption to 100 l/h/d by 2040.	Yes	No					Environmental - Strategic Environmental Assessment
Network Improvements (eg increase capacity, storage, conveyance)	Catchment Wide	PO8 (2050)- Dry Weather Flow	STOC.PW01.1	Pipe Rehabilitation Programme	Relining/improving structural grades of sewers across the catchment.	Yes	No					Environmental - Strategic Environmental Assessment
Network Improvements (eg increase capacity, storage, conveyance)	High Street	PO2 - Pollution Risk	STOC.PW01.2	Improved Jetting Programmed	Enhanced Maintenance: Review and enhance jetting programme of the pipe network in this location to maximise the capacity of the network for rainfall.	Yes	Yes	Yes	Minor Positive +	£TBC - With Partners	Yes	Best Value
Improve treatment (capacity and quality at existing works or develop new WTWs)	STOCKBRIDGE WTW	PO8 (2050)- Dry Weather Flow	STOC.PW02.1	Permit Review	Increase capacity of the Wastewater Treatment Works (WTW).	Yes	Yes	Yes	Minor Positive +	£1,500K	Yes	Best Value
Wastewater Transfer	STOCKBRIDGE WTW	PO8 (2050)- Dry Weather Flow	STOC.PW03.1	Construct New WPS & Rising Main	Within 15km radius of STOC is ROMS which in 2050 will have approximately 305m3day of headroom (until it is above 80% of its DWF permit).	Yes	Yes	Yes	Minor Positive +	£TBC - With Partners	No	Best Value
Mitigate impacts on Air Quality (e.g. Carbon neutrality, noise, odour)												Not included in the first round of DWMPs
Improve Land and Soils												Not included in the first round of DWMPs
Mitigate impacts on Water Quality												
Reduce consequences Properties (e.g. Property Flood Resilience)												
Study/ investigation to gather more data	Catchment Wide	PO8 (2050)- Dry Weather Flow	STOC.OT01.1	Pipe Rehabilitation Programme / CCTV Investigation / Infiltration Reduction Programme	Relining/improving structural grades of sewers across the catchment.	Yes	No					Environmental - Strategic Environmental Assessment
Study/ investigation to gather more data	Solent Maritime Solent & Southampton Water Solent and Dorset Coast	PO11 - Nutrient Neutrality	STOC.OT01.2	Nutrient Budget	Study / Investigation: Develop a nutrient budget and investigate the risks and sources impacting these named Habitat sites.	Yes	Yes	Yes	Minor Positive +	£75K	Yes	Best Value
Study/ investigation to gather more data	Catchment Wide? Overflow Locations	PO4, PO5, PO7 & PO10	STOC.OT01.3	Improve Hydraulic Model	Study / Investigation: Update and re-verify the Stockbridge Hydraulic Model to improve model confidence.	Yes	Yes	Yes	Minor Positive +	£300K		Best Value