

ASSET INVESTIGATION DETAILS			
SAP Asset Name:	GCG - rear of 40 Ger yr Afon		Asset Template reference
Investigation Type	SOAF (River)		BP0293701-CSO 24 REAR GARDEN - 40 GER YR AFON-70163-Stage 1 - OC-Neath Port Talbot
Year of breach:	2019	Spill Trigger cause:	OC Continuation Restriction (Maintenance)
Year of Investigation:	2021	Investigation year performance:	60
Population of Asset	2071	Modelled Performance: (DESIGN) / (CALIBRATED)	56
Permit Details			
Storm Permit ID:	BP0293701	Storm Permit Name:	CSO 24, Rear Garden of 40 Ger Yr Afon, Gwan-Cae-Gurwen
Asset NGR:	SN7038011438	Waterbody ID	GB110059032230
Discharge NGR:	SN7037411438	Water body Discharge location	Garnant - headwaters to confluence with Aman
Brief description of asset (Screen, PFF flow control, Storage, outfall)			
Incoming Pipe:225 mm, 300 mm; CSO Type: Single sided weir; Screening: Static bar screen; Flow Control: None ; PFF Pipe: 300 mm; Storage Provision: None; Consent: 58 l/s, SocA: 38 l/s			

SOAF STAGE 1					
Details of assessment:	Asset condition surveys supported by hydraulic model assessment of the asset performance against available telemetry information (EDM and radar rainfall datasets).				
Permit Compliance					
PFF	Compliant				
Storage	N/A				
Screening	Compliant				
Bespoke/Other	N/A				
SOAF Stage 1 findings					
Primary Cause: OC Continuation Restriction (Maintenance) Secondary Cause: None					
Following the hydraulic model assessment, the cause of the high spills at the asset is concluded to be OC Continuation Restriction (Maintenance) , with no secondary cause of spills. The predicted pass-forward flow is within 10% of consent prior to the first spill. The model is fit for use, based on the reported spill numbers and telemetry trends. The CCTV identified numerous root masses between 113401 (CS0) and 113401					
Cause of spill count :	Other Cause	Yes	Catchment Hydraulic	No	Infiltration & IRP required
					No
Future Operational Management Proposal:	<i>The primary cause of the spills are operational factors that have been assessed as deliverable in the short term. The asset has been added to the SOAF Intervention programme with the details outlined below</i>				
Operational intervention required:	Clearance of root masses between 113401 (CS0) and 113401				
SOAF Operational Intervention					
Start Date:	Jan-24	Completion Date:	TBC	Indicative future annual spill performance (less than 40 do not continue to stage 2)	19
Intervention Description:	A continuation restriction due to maintenance has been identified as a factor in excess spills at this asset. A cleanse of the sewerage network is required to restore compliant flows. This asset will be highlighted for future Cyclic Maintenance based upon the review of the post intervention return.				
Proposed Completion Date:	Jan-25	Data years to be excluded from future SOAF triggers calculations	-	Request to hold stage 2 surveys for environment recovery	

SOAF STAGE 2					
Receiving Waterbody WFD Status			Moderate		
Stage 2a					
Aesthetic survey:	Spring	-	Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)	-	-
	Autumn	-		-	-
Stage 2b				Yes / No unable due to culverted watercourse	

Invertebrate survey:	Spring	-	Invertebrate survey score:	-	-
	Autumn	-		-	-
Stage 2c Required:				Yes / No	
Stage 2c screening:	0	Progressed through screening?	0	Stage 2c water quality assessment Score:	Not Required

SOAF STAGE 3 - STEP 1-3						
Options assessed	Rainscape		Traditional Storage	Y/N	PFF Increase	Y/N
Equivalent storage volume required	Volume m3	Rainscape Cost		£ Cost	CBR	Ratio
Bespoke future trigger agreement	Number of spills	Traditional Storage		£ Cost	CBR	Ratio
		Other		£ Cost	CBR	Ratio
Key Constraints	Note of major factors affecting suitability of solution/pricing details					
Future Active Management Proposal	i.e. Bespoke improved planned maintenance/mitigation, investigation under DWMP or NEP revisit – future funding intention					

Conclusion and Future Spill Reduction Proposals					
Summary	<p>CSO 24, Rear Garden of 40 Ger Yr Afon, Gwan-Cae-Gurwen was Shown to have a other cause issue resulting in higher spills which are expected to reduce once a resolution has been implemented.</p> <p>Once the assets New spill performance is established, if this is shown to still be in excess of 10 the impact of the asset will be established as part of DCWW's Storm Overflow Water Quality Assessment Strategy (SOWQAS) in AMP8</p>				
Asset Prioritisation Level	-			Delivery Predicted Period	-
Asset NEP ID	DCWW102028a	Asset NEP Driver Code	W_U_O_IMP1	Detailed Design Predicted Period	-
Progression to Stage 5 In AMP	No				

SOAF AGREEMENT					
	Date	SOAF STAGE	Name	Contact Details	Location of Output
DCWW Approval	02/01/2024	Stage 1 - OC	Christian Phillips Adams	christian.phillipsadams@dwrwymru.com	Email
Regulator Liaison Date	Click here to enter a date				
CSO Classification					
Satisfactory	N	Unsatisfactory	N	Sub Standard	Y
		Any operation in dry weather conditions?	N	Does not meet modern standards of engineering and aesthetic control for storm overflow structures set out in the British standard BS EN 752:2017 drain and sewer systems outside buildings	Y
		Any operation in breach of permit conditions?	N	Does not have sufficient hydraulic capacity compared to accepted minimum design standards	N
		Any significant visual or aesthetic impact due to solids or sewage fungus?	-	Risks becoming unsatisfactory because discharges have increased beyond the original design due to infiltration, growth and urban creep	N
		Cause or significantly contributes to a deterioration in the biological or chemical status of the receiving water?	-		
		Causes or significantly contributes to failures in bathing water quality standards for identified bathing waters?	N/A		
		Causes or significantly contributes to failures in shellfish quality standards for identified shellfish waters	N/A		
		Causes or significantly contribute to failures in water quality standards in coastal and transitional waters?	N/A		
		Causes pollution of groundwater?	N/A		