

ASSET INVESTIGATION DETAILS			
SAP Asset Name:	Cuckoo Mill SPS	Asset Template reference	BE0075602-CUCKOO MILL PS : -73484-Stage 1 OC-Swansea
Investigation Type	SOAF (River)		
Year of breach:	2019	Spill Trigger cause:	OC Continuation Restriction (Flow Control)
Year of Investigation:	2021	Investigation year performance:	66
Population of Asset	1435	Modelled Performance: (DESIGN) / (CALIBRATED)	17 / 47
Permit Details			
Storm Permit ID:	BE0075602	Storm Permit Name:	CUCKOO MILL PUMPING STATION
Asset NGR:	SS6393899266	Waterbody ID	GB110059025620
Discharge NGR:	SS6391899300	Water body Discharge location	Clyne River - headwaters to tidal limit
Brief description of asset (Screen, PFF flow control, Storage, outfall)			
Incoming Pipe: 900mm Gravity & 150mm Rising Main; CSO Type: Stilling Pond u/s of SPS; Screening: static 6mm 2d; Flow Control: Pump ; PFF Pipe: Rising main ; Storage Provision: No consented storage but storage shown in surveys; Consent: 22 l/s			

SOAF STAGE 1						
Details of assessment:	Asset condition surveys supported by hydraulic model assessment of the asset performance.					
Permit Compliance						
PFF	Design Compliant – Operational Intervention required to restore.					
Storage	N/A					
Screening	N/A					
Bespoke/Other	N/A					
SOAF Stage 1 findings						
<p>Primary Cause: OC Continuation Restriction (Flow Control) Secondary Cause: None</p> <p>Following the hydraulic model assessment, the cause of the high spills at the asset is concluded to be OC Continuation Restriction (Flow Control) , with no secondary cause of spills. The predicted pass-forward flow is below consent prior to the first spill and an operational Intervention required to restore. The model is fit for use, based on the reported spill numbers and telemetry trends.</p> <p>Consented pump rate of 22l/s is not sustained and frequent drop outs or worsened performance are apparent.</p>						
Cause of spill count :	Other Cause	OC Continuation Restriction (Flow Control)	Catchment Hydraulic	No	Infiltration & IRP required	No
Future Operational Management Proposal:	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					
Operational intervention required:	Fix or maintain pump					
SOAF Operational Intervention						
Start Date:	Jan-24	Completion Date:	0	Indicative future annual spill performance (less than 40 do not continue to stage 2)	17	
Intervention Description:	Pump Performance has been identified as a factor in excess spills at this asset, the assessment has determined that the pump performance requires a review and implementation of recommendations in order to achieve PFF.					
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	2021	Aesthetic Total score (inclusive of amenity classification, previous complaints & pollutions)	15	Low Impact
	Autumn	-		-	-
Stage 2b				Yes / No unable due to culverted watercourse	
Invertebrate survey:	Spring	2021	Invertebrate survey score:	18	Very Severe
	Autumn	-		-	-

Stage 2c Required:				Yes / No
Stage 2c screening:	-	Progressed through screening?	-	Stage 2c water quality assessment Score: Not required

SOAF STAGE 3 - STEP 1>3						
Options assessed	Rainscape		Traditional Storage	N	PFF Increase	N
Equivalent storage volume required	N/A	Rainscape Cost		N/A	CBR	N/A
Bespoke future trigger agreement	N/A	Traditional Storage		N/A	CBR	N/A
		Other		N/A	CBR	N/A
Key Constraints						
Future Active Management Proposal						

Conclusion and Future Spill Reduction Proposals				
Summary	<p><i>CUCKOO MILL PUMPING STATION was Shown to have a other cause issue resulting in higher spills which are expected to reduce once a resolution has been implemented.</i></p> <p><i>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</i></p>			
Asset Prioritisation Level	Priority 1		Delivery Predicted Period	AMP8/9
Asset NEP ID	DCWW101947a	Asset NEP Driver Code	W_U_O_IMP1	Detailed Design Predicted Period
Progression to Stage 5 In AMP	No	Proposed Solution yet to be taken through detailed design developed		

SOAF AGREEMENT					
Date	SOAF STAGE	Name	Contact Details	Location of Output	
DCWW Approval	17/01/2024	Stage 1 - OC	Christian Phillips Adams	christian.phillipsadams@dwrcymru.com	Email
Regulator Liaison Date	Click here to enter a date				
CSO Classification					
Satisfactory	N	Unsatisfactory	Y	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?	Y	Does not have sufficient hydraulic capacity compared to accepted minimum design standards	Y
		Any significant visual or aesthetic impact due to solids or sewage fungus?	Y	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?	Y		
		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		