

Water Cycle Studies and Strategic Flood Risk Assessments – data provision (January 2021)

Anglian Water and Environment Agency

Water Cycle Study data provision

AWS data provision	Data Type	Why/Use	Preference of who supplies	Comment
DWF data for relevant WRCs – last 3 years of data (unless it is a descriptive consent)	Excel spreadsheet	To inform assessment of flow capacity for relevant WRCs arising additional growth proposed in Local Plan	AWS	
Water quality (OSM) data for relevant WRCs – last 3 years of data	Excel spreadsheet	To inform water quality assessment for relevant WRCs arising from additional growth in Local Plan	AWS	
Water Resource Zone boundaries by Local Plan area	GIS layer	To identify relevant WRZ boundaries inform preparation of Water Cycle Study	AWS	Data sharing agreement to be signed with AWS
Water Recycling Centre catchment boundaries	GIS layer	To identify extent of relevant sewer catchment boundaries to inform preparation of WCS	AWS	Data sharing agreement to be signed with AWS

Location of Water Recycling Centres by local plan area	GIS layer	To identify location of relevant WRCs	AWS	Data sharing agreement to be signed with AWS
Investment by AW in previous AMP within foul sewerage network, Water Recycling Centres and water supply/resources (currently AMP 6)	E-mail	To identify location of investment by AWS in previous AMP	AWS	Available upon request
Investment by AW in current AMP within foul sewerage network, WRCs and water supply/resources (currently AMP 7)	Publicly available documents on EA website	To identify location of AW planned investment	AWS website	Water Resource Management Plan Water Recycling Long Term Plan Drainage and Wastewater Management Plan (to be published in 2022)
EA data provision				
For Outline WCS:				
WFD waterbody boundaries	GIS layer		EA – online (check source(s))	DEFRA Data Services Platform: https://environment.data.gov.uk/ (search for 'WFD')
Current WB status	Excel spreadsheet	River quality baseline	EA – online (check source(s))	Catchment Data Explorer: https://environment.data.gov.uk/catchment-planning/
Locations of relevant protected areas, such as SACs, SPAs	GIS	May need to be considered if different targets or substances to WFD	Magic website or Defra data services	DEFRA Data Services Platform: https://environment.data.gov.uk/
Confirmed AMP6 & AMP7 WINEP schemes	Excel spreadsheet	To refine river quality baseline to be used for WCS assessments To ensure any future improvements which will cover the period of the WCS are taken into consideration	EA	EA will take account of confirmed WINEP schemes when identifying revised permit limits
For Detailed WCS:				
Relevant permits issued by EA for WRCs	PDF document	To understand specific limits for WRCs both	EA	Current limits on request from EA website- https://www.gov.uk/guidance/access-

		flow and environmental capacity		the-public-register-for-environmental-information or local contacts to provide Future limits – provided by IEP EA contacts
Either: SAGIS SIMCAT model(s)	WQ catchment model	To assess change in river quality following Local Plan growth	EA (Held and maintained by national OCS Team)	Assess in-combination impact of all growth within river catchments. Will also require proposed growth within upstream catchments to be accounted for.
Or: RQP/Monte Carlo data <i>To include:</i> - upstream river flow data - upstream river quality (BOD, ammonia and phosphate); - WRC permitted DWF; - WRC effluent quality data - WFD 'No Deterioration' target of downstream river; - WFD target for Good status and/or any other Alternative Objectives - observations regarding the data sets and the WCS assessments required	Excel spreadsheet	To assess change in river quality following Local Plan growth	EA bespoke datasets	To assess impact of growth for individual WRC discharges.

Strategic Flood Risk Assessments data provision

See Planning Practice Guidance <https://www.gov.uk/guidance/flood-risk-and-coastal-change#Strategic-Flood-Risk-Assessment-be-prepared> and Environment Agency's advice <https://www.gov.uk/guidance/local-planning-authorities-strategic-flood-risk-assessment>.

AWS data provision	Data Type	Why/Use	Preference of who supplies	Comment
Records of sewer flooding	Excel spreadsheet	To identify location of sewer flooding to inform SFRA and sequential and exception tests for allocated sites	AWS	

EA data provision				
Initial advice on scope & requirements		Local knowledge of data available and of local risks.	EA	Local Sustainable Places team
Flood Map for Planning	GIS Online map	Establish where site specific FRA and/or sequential test required Establish where further investigation may be needed for SFRA.		Defra Data Services Platform https://environment.data.gov.uk/ https://flood-map-for-planning.service.gov.uk/
Risk of flooding from surface water	GIS Online map	Establish where site specific FRA and/or sequential test required Establish where further investigation may be needed in SFRA		Defra Data Services Platform https://environment.data.gov.uk/ Long term flood risk maps (select surface water) https://flood-warning-information.service.gov.uk/long-term-flood-risk/map? Must be supplemented with local LA/LLFA data/knowledge
Risk of flooding from reservoirs	GIS Online map	Establish where site specific FRA and/or sequential test required Establish where further investigation may be needed in SFRA		Defra Data Services Platform https://environment.data.gov.uk/ Long term flood risk maps (select reservoirs) https://flood-warning-information.service.gov.uk/long-term-flood-risk/map?
Historic flood outline	GIS			Defra Data Services Platform https://environment.data.gov.uk/ Search or https://environment.data.gov.uk/datasets/8c75e700-d465-11e4-8b5b-f0def148f590
Functional floodplain	Product 4 request for PDF map or data request for 1:20 GIS extent dataset			On request through enquiries@environment-agency.gov.uk or local contacts
Main river map	GIS	Sources of risk; EA access/management constraints		Defra Data Services Platform https://environment.data.gov.uk/ Search or https://environment.data.gov.uk/datasets

				et/25dde009-ba7d-40de-8380-c5c3bb32ccdc
Ordinary watercourses, IDB network				From LLFA and IDB respectively
Groundwater flood risk				From LLFA British Geological Survey groundwater flooding data
Flood warning areas & flood alert areas (Floodline)	GIS Registration page	Identifies where warning/evacuation can contribute to risk management		Defra Data Services Platform https://environment.data.gov.uk/ here (warning) & here (alert) Individuals and businesses can register for warnings for any location covered here
Shoreline management plans	Online document	How the Environment Agency and local councils are developing shoreline management plans to manage the threat of coastal change		https://www.gov.uk/government/publications/shoreline-management-plans-smps
Flood risk management infrastructure	GIS			Defence information https://data.gov.uk/dataset/cc76738e-fc17-49f9-a216-977c61858dda/aims-spatial-flood-defences-inc-standardised-attributes & https://data.gov.uk/dataset/a3861a23-78a1-438d-8c36-1f9f1133c572/aims-asset-bundle (location, ownership, asset ID, length, type) Local information including type, standard of protection, condition etc: On request through enquiries@environment-agency.gov.uk or local Customers & Engagement team contacts
Locally produced detailed modelling & mapping e.g. overtopping & breach of defences		Level 2 SFRA		On request through enquiries@environment-agency.gov.uk or local contacts
- Flood & coastal erosion management: current schemes & strategies		e.g. to identify planned improvement schemes & land likely to be needed in		https://www.gov.uk/government/publications/flood-risk-management-current-schemes-and-strategies https://www.gov.uk/government/publications/programme-of-flood-and-

- Programme of flood & coastal erosion schemes		future for flood risk management		coastal-erosion-risk-management-schemes Local information on request through enquiries@environment-agency.gov.uk or local contacts
National coastal erosion risk mapping				Defra Data Services Platform https://environment.data.gov.uk/ Search or https://environment.data.gov.uk/datasets/87badb85-3b4e-4a31-8a67-06972ee9aa93
Expected effects of climate change	Online guidance	When & how LPAs & developers should use climate change allowances in flood risk assessments		https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances