

Appendix M - Data Sources

This appendix provides details on the main data sources used as part of this Strategic Flood Risk Assessment (SFRA), including its purpose, licencing details, where any updated data can be obtained by users of the SFRA and the names of the datasets provided to Swale Borough Council.

Appendix Map	Data used	Data source	Purpose of data	Where can the GIS files be obtained?	Licence details	Data used	GIS File name
Appendix A - Historic Flooding	Recorded Flood Outlines	Environment Agency	Understand historic flood risk	Recorded Flood Outlines	Open Government Licence	Recorded Flood Outlines Main Rivers and Sea	Recorded Flood Outlines Main Rivers (v1 Nov 25) Recorded Flood Outlines Sea (v1 Nov 25)
	Historic Flood Events	Kent County Council	Understand historic flood risk	Request to Kent County Council	Kent County Council	Historic flood incident point data provided by Kent County Council. The data shows the number of incidents within a 1km x 1km grid.	KCC Historic Flood Incidents (v1 Nov 25)
Appendix B - Watercourses	OS MasterMap Water Network	Ordered by JBA through the data.gov.uk website. This data is available under the OGL license agreement	Assess flood risk from rivers	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence	Statutory Main Rivers Ordinary Watercourses	Statutory Main Rivers (v1 Nov 25) Ordinary Watercourses (v2 Apr 26)
	Internal Drainage Board Watercourses	Ordered by JBA through the data.gov.uk website. This data is available under the OGL license agreement	Assess flood risk from rivers	Request to Lower Medway Internal Drainage Board	Permission from Lower Medway IDB	Lower IDB Area	Lower Medway IDB Area (v2 Jan 26) Lower Medway IDB Watercourses (v2 Jan 26)
Appendix C.1 - Present day flood risk - Flood Zones	Flood Map for Planning Flood Zone 2	Ordered by JBA through the data.gov.uk website. This data is available under the OGL license agreement	Assess flood risk from rivers and sea	Flood Zone 2 and Flood Zone 3	Open Government Licence	Flood Zone 2 and 3 provided by the Environment Agency	Environment Agency Flood Zones (v2 Apr 26)
	Flood Zone 3b	Prepared by JBA Consulting using Environment Agency models	Assess flood risk from rivers and sea	Request to Swale Borough Council	Open Government Licence and Environment Agency Conditional Licence	Flood Zone 3b (Present day dataset was used from NuFRA2 defended 3.3% AEP (1 in 30-year), Iwade Stream 3.3% AEP model, Warden Bay 3.3% AEP model, Scrapsgate 3.3% AEP model extents to create Flood Zone 3b)	Flood Zone 3b (v1 Nov 25)
	Generalised model	Based on the Environment Agency Flood Zone 2 and 3	Assess flood risk from rivers and sea	Request to Swale Borough Council	Open Government Licence and Environment Agency Conditional Licence	Areas of Flood Zone 2 and 3 that use generalised models	Generalised modelling (v1 Apr 26)
Appendix C.2 - Present day flood risk from rivers - detailed river models	Hydraulic models and outputs	Environment Agency	Assess flood risk from rivers	Request from the Environment Agency via their Flood Map for Planning Service	Environment Agency Conditional Licence	Present day fluvial detailed models - Iwade, Scrapsgate drain, Warden Bay models of: Defended 3.3% AEP (1 in 30-year) Undefended 1% AEP (1 in 100-year) Undefended 0.1% AEP (1 in 1000-year)	3.3% AEP Iwade model (v1 Nov 25), 3.3% AEP Scrapsgate Drain model (v1 Nov 25), 3.3% AEP Warden Bay model (v1 Nov 25)
							1% AEP Iwade model (v1 Nov 25), 1% AEP Scrapsgate Drain model (v1 Nov 25), 1% AEP Warden Bay model (v1 Nov 25)
Appendix C.3 - Present day flood risk from the sea - North Kent Coast model	Hydraulic models and outputs	Environment Agency	Assess flood risk from the sea	Request from the Environment Agency via their Flood Map for Planning Service	Environment Agency Conditional Licence	Present day North Kent Coast models: Defended 3.3% AEP (1 in 30-year) Undefended 0.5% AEP (1 in 200-year) Undefended 0.1% AEP (1 in 1000-year)	0.1% AEP Iwade model (v1 Nov 25), 0.1% AEP Scrapsgate Drain model (v1 Nov 25), 0.1% AEP Warden Bay model (v1 Nov 25)
							3.3% Defended North Kent Coast model (v1 Nov 25)
							0.5% Undefended North Kent Coast model (v1 Nov 25)
Appendix D.1 - Future flood risk from rivers and sea- Flood Map for Planning	Flood Map for Planning Future Flood Risk from Rivers and Sea	Environment Agency	Assess future flood risk from rivers and sea	Flood Map for Planning - Flood Zones plus Climate Change	Open Government Licence	This includes the Flood Zones 2 and 3 plus climate change data which shows how the combined extent of Flood Zones 2 and 3 could increase with climate change over the next century, ignoring the benefits of any existing flood defences.	0.1% Undefended North Kent Coast model (v1 Nov 25)
Appendix D.2 - Future flood risk from rivers - detailed river models	Flood Map for Planning Future Flood Risk from Rivers	Environment Agency	Assess future flood risk from rivers	Request from the Environment Agency via their Flood Map for Planning Service	Environment Agency Conditional Licence	1% AEP (1 in 100-year) plus 22% (Central) climate change allowance, 0.1% AEP (1 in 1000-year) plus 22% (Central) climate change allowance	Flood Map for Planning - Flood Zones plus Climate Change (v2 Apr 26)
Appendix D.3 - Future flood risk from the sea - North Kent Coast model	Flood Map for Planning Future Flood Risk from Sea	Environment Agency	Assess future flood risk from the sea	Request from the Environment Agency via their Flood Map for Planning Service	Environment Agency Conditional Licence	Undefended 0.5% AEP (1 in 200 year) 2100 Upper End allowance Undefended 0.1% AEP (1 in 1000 year) 2100 Upper End allowance Undefended 0.5% AEP (1 in 200 year) 2125 Upper End allowance Undefended 0.1% AEP (1 in 1000 year) 2125 Upper End allowance	1% AEP (1 in 100-year) plus 22% climate change allowance (v1 Nov 25)
							0.1% AEP (1 in 1000-year) plus 22% climate change allowance (v1 Nov 25)
							0.5% AEP Undefended 2100 upper end (v1 Nov 25)
							0.5% AEP Undefended 2125 upper end (v1 Nov 25)
Appendix E - Risk of Flooding from Surface Water	Risk of Flooding from Surface Water	Ordered by JBA through the data.gov.uk website. This data is available under the OGL license agreement	Assess surface water flood risk	Risk of Flooding from Surface Water	Open Government Licence	RoFSW 4band Thames South East	0.1% AEP Undefended 2100 upper end (v1 Nov 25)
Appendix F - JBA Groundwater Flood Map	JBA's Groundwater Emergence Map	JBA	Assess groundwater flood risk	Request from JBA Consulting (subject to licence fee)	JBA Consulting Licence	JBA groundwater emergence dataset	0.1% AEP Undefended 2125 upper end (v1 Nov 25)
Appendix G - Risk of Flooding from Reservoirs	Reservoir inundation mapping - Dry Day scenario	Environment Agency	Assess reservoir flood risk	Reservoir inundation mapping - Dry Day scenario	Open Government Licence	Reservoir Flood Extents Wet Day provided by the Environment Agency	Risk of Flooding from Surface Water (v1 Nov 25)
	Reservoir inundation mapping - Wet Day scenario	Environment Agency	Assess reservoir flood risk	Reservoir inundation mapping - Wet Day scenario	Open Government Licence	Reservoir Flood Extents Dry Day provided by the Environment Agency	JBA Groundwater Emergence 5m (v1 Nov 25)
Appendix H.1 - Flood Defences	Flood defence data from AIMS database	Environment Agency	Assessing impact of defences	Flood defence data from AIMS database	Open Government Licence	EA Flood Defences (the dataset used in the shapefile was column 'protection')	Flood Defences (v1 Apr 26)
Appendix H.2 - EA Flood Defences Types						EA Flood Defences Types (the dataset used in the shapefile was column 'asset_sub')	
Appendix H.3 - Environment Agency Flood Defences Standard of Protection						EA Flood Defences Standard of Protection (the dataset used in the shapefile was column 'current_so')	
Appendix H.4 - EA Flood Defence Condition						EA Flood Defence Condition (the dataset used in the shapefile was column 'current_co')	
Appendix I - Flood Alert and Flood Warning Areas	Flood Alert Areas	Environment Agency	Flood warning and emergency planning	Flood Alert Areas	Open Government Licence	Flood Alert Areas provided by the Environment Agency	Flood Alert Areas (v1 Nov 25)
	Flood Warning Areas	Environment Agency	Flood warning and emergency planning	Flood Warning Areas	Open Government Licence	Flood Warning Areas provided by the Environment Agency	Flood Warning Areas (v1 Nov 25)
Appendix N - MEAS Contribution Zones	MEAS Contribution Zone 1	Environment Agency	The location of MEAS contribution Zones	Request from the Environment Agency via their Flood Map for Planning Service	Open Government Licence	The Flood Map for Planning combined undefended 1% AEP (1 in 100-year) and 0.1% AEP (1 in 1000-year) with climate change allowance for the year 2125.	MEAS Contribution Zone 1 (v1 Apr 26)
	MEAS Contribution Zone 2	OS mapping	The location of MEAS contribution Zones	Request to Swale Borough Council	Open Government Licence	The Isle of Sheppey from OS mapping	MEAS Contribution Zone 2 (v1 Apr 26)
Main report - Table 7.3	Sewer Incident Report Form (SIRF) hydraulic overload database	Southern Water	Understand historic flood risk	Request to Southern Water	Permission from Southern Water	Southern Water Sewer Incident Report Form (SIRF) hydraulic overload database	Not provided in GIS format