Appendix A - 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, when the data was obtained for the SFRA, and where any updated data can be obtained by users of the SFRA.

Data used	Purpose of data	Data source	Date received	Where can data be obtained?	Licence details
Hydraulic models and outputs	Assess fluvial flood risk	Environment Agency	17/03/2026	Request from the Environment Agency via their Flood Map for Planning Service	Environment Agency Conditional Licence
Flood Map for Planning Flood Zones 2 and 3	Assess fluvial flood risk	Environment Agency	21/04/2026	Flood Map for Planning - Flood Zones	Open Government Licence
Rivers and Sea defended and undefended flood risk extents - climate change	Assess fluvial flood risk	Environment Agency	21/04/2026	Rivers and Sea defended and undefended flood risk extents - climate change	Open Government Licence
Rivers and Sea 3.3% defended flood risk extents - present day	Assess fluvial flood risk	Environment Agency	21/04/2026	Rivers and Sea 3.3% defended flood risk extents - present day	Open Government Licence
Rivers and Sea 3.3% defended flood risk extents - climate change	Assess fluvial flood risk	Environment Agency	21/04/2026	Rivers and Sea 3.3% defended flood risk extents - climate change	Open Government Licence
Flood Map for Planning Surface Water Spatial Planning Dataset - Present Day	Assess surface water flood risk	Environment Agency	28/05/2026	Flood Map for Planning – Surface Water Spatial Planning Extents – Present Day	Open Government Licence
Flood Map for Planning Surface Water Spatial Planning Dataset - Climate Change	Assess surface water flood risk	Environment Agency	28/05/2026	Flood Map for Planning – Surface Water Spatial Planning Extents – Climate Change	Open Government Licence
JBA's Groundwater Emergence Map	Assess groundwater flood risk	JBA Consulting	19/02/2026	Request from JBA Consulting (subject to licence fee)	JBA Consulting Licence
Groundwater Vulnerability Map	Assess groundwater flood risk	Environment Agency (via Southend-on-Sea City Council)	27/04/2026	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Reservoir inundation mapping - Dry Day scenario	Assess reservoir flood risk	Environment Agency	16/03//2026	Reservoir inundation mapping - Dry Day scenario	Open Government Licence
Reservoir inundation mapping - Wet Day scenario	Assess reservoir flood risk	Environment Agency	16/03/2026	Reservoir inundation mapping - Wet Day scenario	Open Government Licence
Sewer Flooding Recorded Incidents	Understand historic flood risk	Anglian Water	05/05/2026	Request from Anglian Water	-
List of known locations of historic flooding incidents	Understand historic flood risk	Essex County Fire and Rescue Service	19/03/2026	Request from Essex County Fire and Rescue Service	-
Historic Flood Map	Understand historic flood risk	Environment Agency	16/03/2026	Historic Flood Map	Open Government Licence
Recorded Flood Outlines	Understand historic flood risk	Environment Agency	16/03/2026	Recorded Flood Outlines	Open Government Licence
Flood defence data from AIMS database	Assessing impact of defences	Environment Agency	16/03//2026	Flood defence data from AIMS database	Open Government Licence
Lead Local Flood Authority Asset Register	Assessing impact of defences	Southend-on-Sea City Council	02/03/2026	Request from Southend-on-Sea City Council	Southend-on-Sea City Council Data Sharing Agreement
Aquifer designation map (bedrock geology)	Understanding the study area	Environment Agency (via Southend-on-Sea City Council)	27/04/2026	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Aquifer designation map (superficial deposits)	Understanding the study area	Environment Agency (via Southend-on-Sea City Council)	27/04/2026	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Environment Agency 1m LiDAR	Understanding the study area	Environment Agency	01/04/2023	LIDAR Composite Digital Terrain Model (DTM) - 1m	Open Government Licence
WFD catchment boundaries for CIA	Understanding the study area	Environment Agency	13/03/2026	WFD River Waterbody Catchments Cycle 2	Open Government Licence
Source Protection Zones (merged)	Understanding the study area	Environment Agency	24/04/2026	Source Protection Zones (merged)	Open Government Licence
Information on site allocations	Assessing the cumulative impacts of development	Rochford District Council	27/03/2026	Request from Rochford District Council	-
Information on site allocations	Assessing the cumulative impacts of development	Castle Point Borough Council	09/03/2026	Request from Castle Point Borough Council	-
Flood Alert Areas	Flood warning and emergency planning	Environment Agency	16/03//2026	Flood Alert Areas	Open Government Licence
Flood Warning Areas	Flood warning and emergency planning	Environment Agency	16/03//2026	Flood Warning Areas	Open Government Licence