

Medway Council – Sustainable Drainage (SuDS) Proforma

This proforma is intended to support planning applications, as specified in Section 5.1 of the Medway Council Strategic Flood Risk Assessment (SFRA) 2020, and provides additional information in relation to the management of surface water runoff from new development. Reference should be made to the Medway Council SFRA (2020), which provides guidance on the management of surface water runoff.

Requirements:

This form is recommended to be completed and submitted in support of all **'major'** planning applications to accompany the required detailed Surface Water Management Strategy, in accordance with the Technical Standards for SuDS. Applications for **'Minor'** development which are located within a Sensitive Drainage Area may be required to submit this form in accompaniment to a Flood Risk Assessment to demonstrate that the use of SuDS has been prioritised. Please contact suds@medway.gov.uk for more information. For all developments classified as **'small development'** this proforma is not required to be submitted. The definition of **'small development'** is specified in Section 3.2.5 of the Medway Council SFRA. Further details are included within Section 5.1 of the Medway Council SFRA.

Summary:

Part 1 – Provide details regarding the site location, development description and site characteristics.

Part 2 – Provide details in relation to the risk of flooding to the development from rivers, the sea and surface water.

Part 3 – Provide details regarding the existing site drainage and current method of discharge.

Part 4 – Provide details of the proposed drainage system.

Part 5 - Provide calculations for the rate and volume of runoff for the pre- and post-development site conditions.

Part 6 – Provide details of SuDS features specified within the proposed drainage system.

Part 7 - Provide details of Sensitivity Testing undertaken (i.e. exceedance and blockage scenarios).

Part 8 – Other considerations (e.g. maintenance and water quality details).

Part 9 – Checklist for submission and declaration.

Part 1 - Site Location and Development Description					
Provide a description of the existing site use:			Please append a site location plan showing; <ul style="list-style-type: none"> - the site in context to the surrounding area - the application boundary - land ownership boundary (where different from the application boundary) 		
Provide a description of the proposed development:					
Is the proposed development on greenfield or brownfield land?					
Is the development classified as 'Householder', 'Minor' or 'Major'?			Refer to Section 3.2 of the Medway SFRA for definitions		
If the development is linked to any other or pre-existing planning applications or other developments, state the planning reference here:			If the development is linked to other adjacent developments, or pre-existing planning applications, the application should make clear reference to these. It may be necessary to provide combined outlets and discharge rates when assessing the application.		
State the total impermeable areas for the existing site and proposed development	Impermeable area pre-development (area in m ²)	Impermeable area post-development (area in m ²)	Will the development proposals result in an increase in the total impermeable area?		
What is the lifetime of the proposed development?	_____		Refer to Section 2.5 of the Medway SFRA for definitions		
What is the mapped site geology?	Bedrock	years	Superficial		Soils (if available)
British Geological Society Geology of Britain Viewer: http://mapapps.bgs.ac.uk/geologyofbritain/home.html?					

Part 2 – Flooding		
State which Flood Zone the site is located in:		Refer to: https://flood-map-for-planning.service.gov.uk/https://flood-map-for-planning.service.gov.uk/ (e.g. Flood Zone 1, 2 or 3)
Is any part of the site at high, moderate, or low risk of surface water flooding based on the Flood Risk from Surface Water maps?		Refer to: https://flood-warning-information.service.gov.uk/long-term-flood-risk/map (e.g. High/Moderate/Low)
Is the site located within a Sensitive Drainage Area?		Refer to the maps included in Appendix A.7 of the Medway SFRA

Part 3 – Existing Drainage	
<p>Describe the existing drainage system for the site:</p> <p><i>Describe <u>where</u> the existing site currently discharges (i.e. via a soakaway, to a river, or to the public sewer). If the site is undeveloped greenfield land, confirm whether this land is currently artificially drained, i.e. via land drainage or ditches.</i></p> <p><i>The description provided should also state how the site is drained; for example, using gullies or a swale. If the site is classified as 'greenfield', or is assumed to have no formalised drainage system, this should be stated as 'informal drainage' on the SuDS proforma.</i></p>	
<p>Does the existing site have a direct connection to a watercourse, or public sewer? If yes, evidence must be provided</p>	

Part 4 – Proposed Discharge Method		
	State the method proposed to discharge surface water runoff from the proposed development?	Justify why you have selected the proposed method of discharge. <i>Evidence will be required to demonstrate that you have following the drainage hierarchy e.g. Infiltration, Watercourse, Sewer (as outlined in Section 5.2 of the Medway Council SFRA). If necessary, please append all supporting evidence to this proforma (e.g.; agreements with 3rd parties, infiltration test results, agreements with sewerage undertaker).</i>
Infiltration		
Connection to a watercourse*		
Connection to a public sewer*		
Other (e.g. highway drain) <i>describe alternative solution</i>		
<p>*Please note consent may be required from the relevant authority (e.g. IDB, EA, Southern Water), to discharge to a watercourse or public sewer. Refer to Section 5.2 of the Medway SFRA for guidance.</p>		
<p>Provide a drainage layout plan showing the proposed drainage system, which <i>must</i> include the following;</p> <ul style="list-style-type: none"> • The location of any SuDS. • The location of any outfalls, connections to watercourses, or connections to the public sewer system. • Details of the proposed surface water drainage connections. <p>A copy of the drainage layout plan must be appended to this proforma. <i>The detail of the layout plan should be commensurate with the scale of the development. For developments with simple drainage systems a sketch should be sufficient, although Medway reserve the right to request additional information if required.</i></p>		

Part 5 – Calculations					
Rate of Surface Water Runoff				Volume of Surface Water Runoff	
Return Period (1 in X Years)	(A) Provide Pre-development discharge rates for the site <i>If the site is greenfield, state the greenfield runoff rate for the developed part of the site.</i>	(B) Provide Post-development discharge rates for the site <i>Calculations should include any mitigation (i.e. SuDS and/or flow control devices) and an allowance for climate change.</i>	Calculate the difference between the pre and post development discharge rates. <i>i.e. (A) – (B)</i>	State the volume of runoff discharged from the site during the 1:100 year 6 hour duration event <i>(volume = impermeable area in ha x total 6 hour rainfall in mm x 60)</i>	
				Pre-development	Post-development <i>Calculations should include any mitigation (i.e. SuDS and/or flow control devices) and an allowance for climate change.</i>
				3	3 *
2				State whether there is an increase/decrease in either the peak rate of runoff and the volume of runoff discharged from the site?	
30	l/s	l/s*	l/s	Rate of Runoff	Increase / Decrease
100	l/s	l/s*	l/s	Volume of Runoff	Increase / Decrease
	l/s			* Must include an allowance for climate change (Refer to Section 2.5.4).	
State what methodology has been used to calculate the pre- and post-development discharge rates stated above?					Refer to Section 5.3 of the Medway SFRA for guidance.
What climate change allowance has been applied to the post development discharge rates when designing the drainage system?				_____%	Refer to Section 2.5.4 of the Medway SFRA for guidance.
Has an allowance for urban creep been applied to the calculations?				_____%	Refer to Section 5.5 of the Medway SFRA for guidance
Has a flow control device been used to restrict post-development discharge rates? <i>If yes, state the flow control device that has been specified (e.g. vortex flow control device/orifice plate/pipe)</i>					
Please append a copy of the calculations used to complete Part 5.					

Part 6 – SuDS			
List of SuDS used within the drainage strategy	Description	Volume of storage within each of the proposed SuDS	Where does the SuDS discharge to? (e.g. public sewer system, another SuDS feature, directly to the ground)
<i>E.g. Soakaway...</i>	<i>E.g. dimensions, crate/rubble/ring soakaway</i>	m ³	<i>E.g. directly to the ground via infiltration</i>
		m ³	
		m ³	
		m ³	
		m ³	
		m ³	
If SuDS have not been included within the proposed drainage system, provide justification:			

Part 7 – Sensitivity Testing		
Sensitivity Testing – the proposed surface water drainage system should be tested for the following scenarios:		
Sensitivity Test:	Is the capacity of the system exceeded? Would flooding occur? State which SuDS elements would flood.	<p><i>If the system floods under either scenario, provide a drawing identifying overland flow routes, or areas where floodwater is likely to pond.</i></p> <p>Refer to Section 5.8 of the Medway SFRA for guidance on how to complete this section.</p>
Exceedance (<i>i.e. event greater than the design rainfall event</i>)		
Blockage (<i>i.e. 100% blocked outfall</i>)		
Provide details of any additional mitigation measures which have been incorporated into the drainage system to reduce the risk of failure or lessen the impact of a flooding: <i>(e.g. additional storage capacity, overflow pipes, spillways etc.)</i>		

Part 8 – Other Considerations	
<p>State who will be responsible for the maintenance of the drainage system and any SuDS following construction. <i>(e.g. management company, home owner)</i> (Refer to Section 5.6 of the Medway SFRA)</p>	
<p>What measures will be put in place to ensure the maintenance requirements are conveyed to the responsible party (above) following construction? <i>(e.g. a maintenance and management plan included within the owners-manual given to all future land owners.)</i> Refer to Section 5.6 of the Medway SFRA</p>	
<p>Provide details of;</p> <ul style="list-style-type: none"> - how interception storage has been provided to manage the first 5mm of rainfall (i.e. the ‘first flush’), and; - any other pollution control measures specified <p>Refer to Section 5.4 of the SFRA</p>	

Part 9 – Declaration
<p>The following information is required to be submitted alongside this proforma. Please tick to confirm information has been appended:</p> <ul style="list-style-type: none"> <input type="checkbox"/> A site location plan [compulsory]. <input type="checkbox"/> If MAJOR development – Submit a detailed SWMS and reference relevant page numbers in proforma. <input type="checkbox"/> Evidence for proposed method of discharge (e.g. infiltration test results) [compulsory] <input type="checkbox"/> An indicative drainage layout plan or sketch [compulsory]. <input type="checkbox"/> Supporting calculations [compulsory]. <input type="checkbox"/> Sensitivity test calculations and diagram showing flow routes/areas of ponding [where applicable]. <input type="checkbox"/> Other information (e.g. topographic survey, CCTV drainage survey, groundwater monitoring reports). [where required] <p>By signing, I declare that, to the best of my knowledge, all of the information provided is correct on the date of completion.</p>
<p>Signed by:</p>
<p>Date:</p>
<p>Please note Medway Council can request that additional information is provided in support of this proforma.</p>