

PRO-FORMA 2: Sustainable Drainage System: Discharge of Conditions

This pro-forma is a requirement of the Planning Validation Checklist. You **must complete all white boxes in full** and submit this pro-forma, along with your supporting evidence, to the Local Planning Authority for your application to discharge condition(s) related to your sustainable drainage system and surface water management in relation to your major development (as defined in section 2 of [Statutory Instrument 2015 No. 595](#)).

This pro-forma supports developers and regulators in **summarising and confirming** how surface water from a development will be managed sustainably under current and future conditions. It should be completed in conjunction with the Council's 'Completing your Pro Forma' document and your sustainable drainage system should be designed in accordance with [CIRIA The SuDS Manual C753](#).

The pro-forma follows Policy CS24 of [Knowsley MBC's Local Plan](#), [National Planning Policy Framework](#), [House of Commons Written Statement \(HWSW 161\) on SuDS](#), [Planning Practice Guidance](#) and [Defra's Non-Statutory Technical Standards for Sustainable Drainage Systems](#). It is supported by the [Defra/EA Guidance on Rainfall Runoff Management](#) and can be completed using freely available tools such as [Tools for Sustainable Drainage Systems](#) or approved Industry Standard surface water management design software. The Council's [Sustainable Drainage & Surface Water Management Technical Guidance document](#) also provides further information.

Section 1: Development Details					
Development Name	Huyton Sovereign Distillery		Planning Permission Reference		
			Approved Sustainable Drainage Strategy Reference		
Development Address (including postcode)	The Sovereign Distillery, Wilson Road, Huyton Business Park, Liverpool, L36 6AD		Development Grid Reference	Northings	389651
				Eastings	345833
Has your proposed SuDS design changed since your Sustainable Drainage Strategy was approved?	Yes ☐	If YES, summarise key changes here:			
	No ☒				

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Section 2: SuDS Design

Consideration	Provide Details	Evidence Checklist	
Provide the drawing reference(s) of your detailed SuDS design drawing(s)	B029681-TTE-01-ZZ-DR-C-10102 - Drainage General Arrangement B029681-TTE-01-ZZ-DR-C-10107 - Flood Exceedance Plan	☒	Detailed SuDS design drawing showing, as a minimum: • Number of discharge points • Location of discharge points • Location and volumes of attenuation • Location and types of flow control devices Pipes and manholes including dimensions and direction of flow • Topography • Finished floor levels
Have you considered the possibility of runoff from existing neighbouring sites?	Yes ☒ No ☐	☒	Topographic plan showing pre-development surface water flow paths and a 5 metre buffer around the curtilage of the site.
State the number of discharge points	3	☒	Discharge points shown on detailed SuDS design drawing

Section 3: Infiltration

Site Information	✓	Evidence Checklist	
Do your sustainable drainage proposals include any infiltration?	Yes ☐ No ☒ <i>If NO, please move on to Section 7</i>	☐	Shown on detailed SuDS design drawing
Is infiltration feasible?	Yes ☐ No ☒	☐	If YES, proposals must be supported by a completed Infiltration Checklist from CIRIA The SuDS Manual C753 Appendix B <i>An editable version of this form is available on SusDrain website.</i>
If NO, following site specific ground investigation are you implementing your 'Plan B' sustainable drainage design?	Yes ☒ No ☐	☐	'Plan B' detailed SuDS design drawing

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Section 4: Exceedance Planning – Technical Standards S7, S8 and S9

Consideration	Details	Evidence Checklist	
Does flooding occur to any part of the site during 1:30 year rainfall event?	Yes ☐ No ☒	☒	MicroDrainage (or equivalent) calculations
Does flooding occur to any building or plant during the 1:100 year rainfall event?	Yes ☐ No ☒	☒	MicroDrainage (or equivalent) calculations
If YES to above, is this area designated to hold water?	Yes ☐ No ☐	☒	Shown on detailed SuDS design drawing, surface water depths for areas designated to hold flood water over 1:30 year rainfall event should be indicated on plans
Summarise how you have designed for exceedance. <i>You should demonstrate routing of water away from property and infrastructure, safe access and egress routes, safe designated temporary storage areas and finished floor levels (metres).</i>	Shown in the exceedance plan B029681-TTE-01-ZZ-DR-C-10107 - Flood Exceedance Plan Low Flow Routes – These are provided via the pipe networks and linear drainage at pavement level to ensure flows are adequately conveyed away from the proposed building into the surface water network. Overflows – Proposed 3D alignment allows for overflows during blockages to bypass certain areas of the system and be captured via additional downstream linear drainage or lined permeable paving. Exceedance Routes – If the system becomes overwhelmed by an exceptional rainfall event the levels of the site have been designed as such to allow exceedance flows to convey to the low side of the site adjacent to Caton Road	☒ ☒	Topographic plan showing exceedance flow routes for rainfall events in excess of 1:100 year (+ climate change) event and relative to finished floor levels Statement provided within your Sustainable Drainage Strategy explaining how it will be temporarily stored in safe designated storage areas.

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Section 5: Structural Integrity and Construction – Technical Standards S10, S11, S13 and S14

Consideration	Summarise	Evidence Checklist	
In accordance with S10 and S11, have all components of the sustainable drainage system been designed to ensure structural integrity of the drainage system to withstand the anticipated loads over the design life of the development? <i>Reasonable levels of maintenance can be taken into account, but materials must be fit for purpose and the suitability of components which will foreseeably require replacement during the design life of the development should be considered unsuitable. For example, geocellular storage may be appropriate for commercial developments, but not residential.</i> Please summarise how you have met this requirement.	All components are designed to comply with BS EN 124. Access covers to all drainage will be class D400 and withstand anticipated loads over the design life of the development. A maintenance plan has been highlighted in the drainage strategy.	☐	Statement provided within your Sustainable Drainage Strategy
Where you are connecting to an existing sewerage or drainage system, how have you ensured that the structural integrity and functionality of the existing sewerage or drainage system will be preserved during construction? NOTE: Any damage caused to the drainage system during construction must be rectified before the drainage system is considered to be completed. Please summarise how you have met this requirement.	A full CCTV survey of all sewers will be undertaken prior to any proposed connection works being undertaken. Any defects in the vicinity of the connection will be rectified via trenchless technologies prior to excavation. The existing pipework will be carefully excavated and exposed allowing a full visual inspection prior to construction of new manholes. New manholes will be constructed to industry standards with rocker pipes provided at entries to protect existing pipework.	☐	Statement provided within your Sustainable Drainage Strategy
Other Considerations			
Have you considered how surface water drainage will be provided for the site during construction? <i>e.g. temporary drainage, pollution prevention for watercourses, drains etc and protection of existing/part built drainage systems.</i>	Yes ☒ No ☐	☐	Construction phasing plan, construction environmental management plan (CEMP) or other statements

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Section 6: Operation and Maintenance – Technical Standard S12 and HCWS161

Consideration	Details	Evidence Checklist	
Have you attached your completed Operation and Maintenance Plan for approval? <i>NOTE: Does not apply where an adopting body agrees to adopt all communal components of the system e.g. WaSC, Highway Authority</i>	Yes ☒ No ☐ Not required ☐	☒	Completed Operation and Maintenance Plan
Is pumping used for surface water drainage on any part of the site?	Yes ☐ If YES, summarise your reasons for pumping below. No ☒	☒ ☐	Statement provided within your Sustainable Drainage Strategy Shown on detailed SuDS design drawing
House of Commons Written Statement on Sustainable Drainage Systems (HCWS161) states that the SuDS should be designed to ensure that the maintenance and operation requirements are economically proportionate. State how you have addressed this requirement. <i>Economic proportionality may need careful consideration where SuDS requiring replacement during the design life of the development (e.g. geocellular storage) are utilised and the occupier will also be paying the Water and Sewerage Company surface water drainage charges.</i>	Porous paving is provided in car park areas where there are no restrictions due to a heavy traffic demand thus allowing accessible future maintenance and replacement at a relatively low construction and whole life cost. The added value in reduction of other storage measures outweighs the additional cost of construction as oppose to regular pavement design. Geocellular storage systems are unavoidable however they will be specified with a design life of 50 years equivalent to that of the building. Full access provision for maintenance and inspection of Geocellular tanks will be provided. Geocellular storage tanks have a relatively low construction cost in comparison with similar products whilst WLC is not deemed to be onerous.	☐	Statement provided within your Sustainable Drainage Strategy

Please note: You will need to provide an Operation and Maintenance Plan with your Discharge of Conditions application.

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Declaration and Submission

This pro-forma has been completed using evidence from information which has been submitted with my planning application. The information submitted in the Sustainable Drainage Strategy and site-specific Flood Risk Assessment (FRA), where submitted, is proportionate to the site conditions, flood risks and magnitude of development and I agree that this information can be used as evidence to this sustainable drainage approach.

Submitter Details

Form <u>completed</u> by	Lucy Clapham	Email Address	lucy.clapham@tetrattech.com
		Daytime Telephone	+44 113 219 2215
Form <u>signed off</u> by	Neil Mason 	Accreditation(s) and/or Qualification(s) of Signatory	Principal Civil Engineer EngTech TMICE
Date (dd/mm/yyyy)	22/04.2022	Company	Tetra Tech Limited

Client Details

Name	Network Space	Company	
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