S104 SuDS Technical Appraisal Form

Basin

Version 3 (October 22)

Proposed Section 104 Development at UU Reference –

Section 1 - Information required for SuDS assessment

Note: any item selected as 'not submitted' will need to be provided to support and progress the application to Technical Acceptance.

Section 1 Information required	Submitted	Not submitted	N/A	Designer Tick to highlight where information noted as 'not submitted' has now been provided
SuDS component(s) drawing / included on S104 Agreement Plan See UU S104 SuDS guidance document, comment 1 for further information				
 S104 SuDS Technical Appraisal Form: Infiltration viability (only required for infiltration basins) 				
Sectional Drawing(s)				
Completed CIRIA SuDS checklist See C753 The SuDS Manual Appendix B: Basin				
 Completed CIRIA SuDS health and safety checklist (only required for Adoptable SuDS) See C753 The SuDS Manual Appendix B: SuDS health and safety risk assessment checklist 				
SuDS Component(s) Management & Maintenance document				
 Maintenance inspection plan This must include access details for inspection and all maintenance requirements including machinery 				
1:20 sectional catch pit manhole details				
 Landscape plan and planting schedule See UU S104 SuDS Landscape & Planting guidance document for further information 				
SuDS hydraulic assessment information See UU S104 SuDS guidance document, comment 6 for further information				
 Separate calculation document for the 1 year, 30 minute event (for water quality purposes and will not be applicable for infiltration basins) See UU S104 SuDS guidance document, comment 7 for further information 				
 Simple Index Approach (SIA) Assessment / Mitigation Indices for Water Quality (only applicable for mixed use /commercial sites or any site containing infiltration components) See chapter 26.7.1 & (26.7.2 for infiltration) of CIRIA C753 for guidance 				
Flood route plan for any exceedance flows from the SuDS Component				
Flood Risk Assessment				
Site Investigation containing geotechnical information				
• Topographical survey This drawing must be a full topographical survey of the existing site, with contour to record levels at 500mm intervals as a minimum for large greenfield sites. For small/urban/very flat sites, closer level differences may be required along with spot levels for onsite surface features and changes of level.				

Section 2 – High level SuDS considerations

Comment number	Engineer General comments	Yes	No	ТВС	Designers response comments If marked 'NO' or 'TBC', please amend the design or provide justification and mitigation of risks?
1	The component is adequately distanced from any adjacent structures/features (i.e. existing sewers, pumping station, retaining walls etc.) and does not pose a risk in relation to flooding, pollution or slope stability				
2	The topography, shape & location is suitable for the components See UU S104 SuDS guidance document, comment 2 for further information				
3	Maintenance access is acceptable for the SuDS component(s) and responsibilities detailed in management and maintenance plan (i.e. adopting body / management company) See UU S104 SuDS guidance document, comment 2 for further information				
4	The component is outside any area of significant flood risk See UU S104 SuDS guidance document, comment 3 for further information				



Section 3 – Design requirements

Note: any points marked as 'No' or 'TBC' will require amendments to the design / drawings.

Infiltration / Detention Basin

For full design requirements, please refer to **Chapters 13 & 22** of CIRIA C753.

SuDs assessment acceptable Is the component appropriately dimensioned See UN 315 SuDs publication decounter, comment 2 for further information See UN 315 SuDs publication decounter, comment 2 for further information See UN 315 SuDs guidance decounter, comment 3 for further information See UN 315 SuDS guidance decounter, comment 3 for further information See UN 315 SuDS guidance decounter, comment 3 for further information See UN 315 SuDS guidance decounter, comment 3 for further information See UN 315 SuDS guidance decounter, comment 5 for further information See UN 315 SuDS guidance decounter, comment 5 for further information Surable head Size 3 guidance decounter, comment 5 for further information Surable head Size 3 guidance decounter, comment 5 for further information Surable Substitution of the Event 1 in 100 and 1 in 10	Hydraulics (Chapter 22.4), Maintenance (Chapter 32) & Health and safety (Chapter 36)	Yes	No	ТВС	N/A	(Designer) Tick to confirm addressed with resubmission
See UL 9105 SubS guidance document, comment 5 for further information	SuDS assessment acceptable					
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The component is represented correctly in the hydraulic model						
See US 150 SIDS guidance document, comment 5 for further information						_
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Section 4 – Drawing requirements

S104 Agreement Plan and Land Registry Plan requirements	Yes	No	ТВС	N/A	(Designer) Tick to confirm addressed with resubmission
Both drawings contain all relevant component information?					
Component offered for adoption is coloured purple					
A 2m easement is be applied around the full perimeter of the component, coloured in yellow and dimensioned					
The following requirements are relevant to the S104 Agreement Plan only;		•	•		1
Component type noted correctly (i.e. infiltration/attenuation-detention basin/vegetated basin)					
Dimensions shown (length at longest point in addition to the width at widest point, both at the bottom and top of the component)					
The area of the component (m ²), max water depth (m) and storage volume (m ³) are noted on the drawing					
The inlet level and outlet level are to be clearly noted, in addition to the top of bank level and bed level					
Component area (m²) and depth (m) matches the hydraulic model					
Base & side slope gradients labelled, clearly falling to the outlet					
The position of boreholes used to confirm and understand geotechnical conditions are shown and referenced in accordance with the ground condition investigation report					
Full design detail shown See UU S104 SuDS guidance document, comment 12 for further information					
Erosion protection measures detailed at inlet points					
Ancillaries are clearly identified (i.e. catch pit manholes and flow control manholes)					

Sectional view drawing	Yes	No	ТВС	N/A	(Designer) Tick to confirm addressed with resubmission
Maximum water levels for the following storm events; 2, 30, 100 & 100+cc year events					
For sites with Pumping Stations, the 200 year water level also needs to be noted to confirm compliance with Design & Construction Guidance (D5.1.2)					
The inlet level and outlet level are to be clearly noted, in addition to the top of bank level and bed level					
Slope gradients shown					
Erosion protection measures detailed at inlet points					
Full design detail shown including materials See UU S104 SuDS guidance document, comment 12 & comment A for further information					