

Survey for the recommendations to update the Non-Statutory Technical Standards (NSTS) for SuDS

Introduction

The Department for Environment, Food and Rural Affairs (Defra) has commissioned research to explore whether updating the English [Non-Statutory Technical Standards for SuDS](#) (NSTS) could help deliver SuDS that provide multiple benefits beyond managing surface water runoff, contributing to improved climate adaptation, health and wellbeing and better places and spaces.

A key part of this work is to understand how the current NSTS are used and recommend how they could be improved to:

1. Support the National Planning Policy Framework and deliver multiple benefits
2. Ensure greater consistency with respect to designing for effective local flood risk management.

This research is being undertaken by a team led by HR Wallingford that includes CIRIA, McCloy Consulting, Illman Young and others. A key element of this research is to engage with those stakeholders that approve, design and commission SuDS for new developments in England to understand the challenges, opportunities and enablers to the delivery of SuDS schemes that deliver multiple benefits.

We would therefore appreciate it if you could complete the following survey, the outputs of which will be used to directly inform any potential update of the NSTS. The survey should, depending on your level of involvement in SuDS delivery, take between 20 and 30 minutes to complete. Responses will be anonymised, unless you wish to share case studies - where it would be helpful to have contact details.

Your input will help to improve local flood risk management and deliver an improved local environment.

Many thanks.

Survey for the recommendations to update the Non-Statutory Technical Standards (NSTS) for SuDS

* 1. Do you agree to participate in the survey? The data collected will be used to inform the review of the Non-statutory Technical Standards for SuDS (NSTS)

Yes

No

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* 2. What is your role in the delivery of SuDS?

- Approval (i.e. local authorities, LLFA, LPA, WaSCs)
- Practitioner/designer (i.e. engineer, landscape architect)
- Developer (i.e. those commissioning SuDS)
- Other (i.e. supply chain members, regulators)

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Questions for developers

Your role

* 90. How many years' experience do you have with SuDS in England?

- Less than 1 year
- 1 -3 years
- 3 – 5 years
- More than 5 years

* 91. What role do you have within a developer/client organisation?

Development of drainage submissions

Assuming you answer all the questions in this survey there are now 42 questions that need to be answered.

There are 10 questions in this section.

* 92. Does your approach to drainage on developments provide additional value and benefits?

- Yes
- No

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* 93. If yes, how do you work with the LLFA and LPA to deliver the additional benefit? (Max 500 characters)

* 94. What do you usually include in drainage submissions?

	Never included	Sometimes included	Always included	Don't know
Compliance with Non-statutory Technical Standards for SuDS (NSTS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compliance with Local Plan Policy on local drainage/flood risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compliance with Local Plan Policy on SuDS, or SuDS guidance (SPD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compliance with Local Plan Policy on green infrastructure or biodiversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management of runoff peak flows	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management of runoff flows and volumes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management of water quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvements to biodiversity (biodiversity net gain)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improvements to amenity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Never included	Sometimes included	Always included	Don't know
Certainty on long term maintenance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management of water close/on surface	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delivery of source control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management of runoff in sub-catchments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consideration of drainage exceedance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Delivery of the SuDS Management Train	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provision of rainwater harvesting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate resilient development (adaptation and mitigation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other multiple benefits (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

95. What is the influence of these factors on your drainage submissions?

	High influence	Some influence	Little influence	No influence
Flood risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scale of development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Type of proposed development/land use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Density of development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ground conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Condition of previously developed land	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sensitivity of receiving catchment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Previous dealings with local authority	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adoption options for the scheme	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Financial viability of the site	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

96. If necessary, please use the text box to provide more detail about how your requirements and evaluation processes differ between sites. (Max 500 characters)

* 97. What disciplines are the people from that contribute to the design of the SuDS schemes you're involved in? Please select all that apply.

- Flood risk/drainage engineer
- Highway engineer
- Landscape architect
- Planner
- Urban designer
- Biodiversity/ecology specialist
- Other (please specify - max 70 characters)

98. How frequently does a difficult drainage submission relate to the following planning and approval challenges (particularly with respect to multiple benefits)?

	Never	Rarely	About half the time	Frequently	Always
Lack of/poor Local Plan Policies on drainage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Late consideration of drainage on site layout	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor engagement with those approving the drainage submission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient information provided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conflict between adopting organisation and LLFA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of clarity on requirements from local planning authority	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of clarity on requirements from Lead Local Flood Authority	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor assessment and evaluation (within approving organisation)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

99. How frequently does a difficult drainage submission relate to the following design challenges (particularly with respect to multiple benefits)?

	Never	Rarely	About half the time	Frequently	Always
Developer expectations or timelines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other environmental requirements (EA, Natural England)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Challenging site characteristics (location, topography)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Challenging ground conditions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Challenges around viability of developments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulties in determining maintenance requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

100. If necessary, please use the text boxes to provide more detail about the challenges faced in developing good drainage submissions and SuDS design (particularly multiple benefits).

Comment 1 (max 500 characters)

Comment 2 (max 500 characters)

* 101. Are you involved in developing/reviewing the technical detail of drainage submissions (i.e. hydraulics, runoff estimation, developing designs etc)?

Yes

No

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Hydraulic requirements

There are 20 questions in this section.

* 102. How frequently do you use these hydraulic criteria for SuDS design for Greenfield Sites?

	Never	Rarely	About half the time	Frequently	Always	Don't know
Peak flow control to 1 year greenfield rate only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to 30 year greenfield rate only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to 100 year greenfield rate only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to 2 l/s/ha only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to other rates e.g. specific rates set by the LA for flood risk or betterment objectives (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to multiple rates (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control and volume control (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

103. If necessary, please use the text box to provide additional information on any hydraulic criteria used for Greenfield sites. (Max 500 characters)

* 104. How frequently do you use these hydraulic criteria for Previously Developed Sites?

	Never	Rarely	About half the time	Frequently	Always	Don't know
Peak flow control to 1 year greenfield rate only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to 30 year greenfield rate only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to 100 year greenfield rate only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to 2 l/s/ha only	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to design rate estimated for previously developed site plus betterment (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control to other fixed rate e.g. specific rates set by the LA for flood risk or betterment objectives (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peak flow control and volume control (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

105. If necessary, please use the text box to provide additional information on any hydraulic criteria used for Previously Developed Sites. (Max 500 characters)

106. How frequently do you use these design approaches for small sites (e.g. < 1 ha)?

	Never	Rarely	About half the time	Frequently	Always	Don't know
Minimum allowable discharge rate (provide details of the rate below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Minimum allowable orifice size (provide details of the size below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

107. If necessary, please use the text box to provide additional information on any design approaches for small sites. (Max 500 characters)

108. How frequently do you use these hydraulic criteria for sites discharging to sewers?

	Never	Rarely	About half the time	Frequently	Always	Don't know
Greenfield rates (please specify return periods)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fixed rate of betterment agreed with sewerage undertaker (provide details of the rate below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fixed discharge rates agreed with sewerage undertaker (provide details of the rate below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sewerage undertaker defers to LLFA in setting rates (provide details below)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

109. If necessary, please use the text box to provide additional information on any hydraulic criteria for sites discharging to sewers.

Comment 1 (max 500 characters)

Comment 2 (max 500 characters)

* 110. Which greenfield runoff estimation methods do you use?

	Never	Rarely	About half the time	Frequently	Always	Don't know
IH124 equation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FEH statistical equation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ReFH2 model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

* 111. What factors (if any) do you believe lead to inconsistencies in agreed discharge rates and storage volumes? Please select all that apply.

- None
- Greenfield runoff estimation method
- Previously developed runoff estimation method
- Estimation tools used (please provide details below)
- Area used in runoff estimation calculations (please provide details below)
- Percentage runoff factors used in runoff estimation calculations (please provide details below)
- Assumptions on soil types
- Modelling approach (please provide details below)
- Other (please specify)

Specify here (max 70 characters)

112. If necessary, please use the text box to provide further details about the factors that lead to inconsistencies in discharge rates and storage volumes. (Max 500 characters)

113. What design rainfall models do you use?

	Never	Rarely	About half the time	Frequently	Always	Don't know
FSR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FEH99	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FEH13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

114. What climate change uplift factors (applied to the design rainfall for the development) do you use?

	Never	Rarely	About half the time	Frequently	Always	Don't know
None	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20%	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30%	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
40%	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

115. What urban creep factors (applied to the impervious areas of the development, where future urban creep could be accommodated) do you use?

	Never	Rarely	About half the time	Frequently	Always	Don't know
None	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5%	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10%	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (please specify)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Specify here (max 70 characters)

* 116. What are the key constraints (if any) to delivering the current NSTS? Please select all that apply.

- | | |
|---|---|
| <input type="checkbox"/> None | <input type="checkbox"/> Complexity and lack of understanding of the hydraulic standards |
| <input type="checkbox"/> Allowable discharge rates are too low (storage is unachievable) | <input type="checkbox"/> There is a lack of consistent guidance on which method to use for runoff estimation and how to define the parameters |
| <input type="checkbox"/> Volume control is unachievable | |
| <input type="checkbox"/> Other (please provide detail and case study evidence if appropriate - max 70 characters) | |

117. Please use the text boxes to provide further detail on key constraints to delivering NSTS and case study information (with reference details). Alternatively, please email paul.shaffer@ciria.org.

Comment 1 (max 500 characters)

Comment 2 (max 500 characters)

* 118. Interception (the prevention of runoff from the first 5mm of rainfall) is a good practice concept promoted in The SuDS Manual but not required by the NSTS. Please select the statements you agree with (can be more than one).

- | | |
|--|---|
| <input type="checkbox"/> We are always asked to deliver Interception | <input type="checkbox"/> Interception would be impossible to deliver for most sites (provide detail below) |
| <input type="checkbox"/> We are sometimes asked to deliver Interception | <input type="checkbox"/> Interception is difficult to deliver without simple tools to facilitate planning and design for it |
| <input type="checkbox"/> We are never asked to deliver Interception | |
| <input type="checkbox"/> We try to deliver Interception wherever we can (provide detail below) | <input type="checkbox"/> Interception would help deliver multiple benefits |

Specify here (max 70 characters)

119. Please use the text box to provide further details. Either a case study demonstrating delivery of Interception (with reference details) or detail explaining how and why Interception is difficult to deliver. Alternatively, please email paul.shaffer@ciria.org. (Max 500 characters)

* 120. Do you consider the current NSTS are appropriate and achievable (for controlling runoff from development)?

- Yes – I would not like to see these criteria changed
- No – the criteria should be changed (provide detail below)
- Maybe – changes to the criteria should be considered (provide detail on what you consider should change below)

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121. Please use the text boxes to provide more detail on your views of the appropriateness of NSTS and any changes you would like to suggest.

Comment 1 (max 500 characters)

Comment 2 (max 500 characters)

Delivering SuDS that provide multiple benefits

There are 12 questions in this section.

* 122. What multiple benefits do you consider SuDS should provide (in addition to hydraulic control required by NSTS)? Please select all that apply.

- None
- Improvements to amenity
- Management of water quality
- Provision of rainwater harvesting
- Improvements to biodiversity (biodiversity net gain)
- Climate resilient development (adaptation and mitigation)
- Other (please specify - max 70 characters)

123. Please suggest the level of influence the following factors have on achieving SuDS that provide multiple benefits. With 5 having a high level of influence.

	1 - Low influence	2	3	4	5 - high influence
A developer that appreciates the value of SuDS that provide multiple benefits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A competent design team committed and able to deliver SuDS that provide multiple benefits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1 - Low influence	2	3	4	5 - high influence
Early consideration of the site characteristics and layout	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pre-application discussions with those that approve the drainage submission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compliance with Non-statutory Technical Standards for SuDS (NSTS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Experience and knowledge of those assessing/evaluating schemes within the local authority	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage submission follows guidance in the CIRIA SuDS Manual	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage submission complies with Local Plan Policy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage submission complies with local drainage/flood risk policy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage submission complies with local green infrastructure or biodiversity policy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drainage submission complies with local authority SuDS guidance (SPD etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The requirement to complete a drainage submission proforma by the developer or practitioner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1 - Low influence

2

3

4

5 - high influence

The requirement to complete a (construction) verification report by the developer or practitioner

Drainage submission complies with other standards (please specify)

Drainage submission refers to other guidance (please specify)

Drainage submission includes consideration of responsibilities for long term operation and maintenance of the proposed SuDS

Specify here (max 70 characters)

124. If necessary, please use the text boxes to provide more detail about the factors that influence the delivery of SuDS that provide multiple benefits.

Comment 1 (max 500 characters)

Comment 2 (max 500 characters)

* 125. Should the NSTS be updated to include requirements for SuDS to provide multiple benefits?

Yes

No

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126. If you answered yes, and assuming guidance is provided, how would you like to see the updated NSTS and requirements for multiple benefits introduced? Please select all that apply.

- | | |
|--|--|
| <input type="checkbox"/> Update and re-issue the NSTS | <input type="checkbox"/> Update Local Plan Policy documents with reference to meeting updated NSTS |
| <input type="checkbox"/> Update the National Planning Policy Framework (NPPF) with reference to meeting updated NSTS | <input type="checkbox"/> Update Local Design Guide with reference to meeting updated NSTS |
| <input type="checkbox"/> Update the Planning Practice Guidance with reference to meeting updated NSTS | <input type="checkbox"/> Link Biodiversity Net Gain requirements to updated NSTS |

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127. If you answered no, please select an option.

- There is no need to strengthen requirements for SuDS to provide multiple benefits.
- The requirements for SuDS to provide multiple benefits should be included elsewhere (please specify).

Specify here (max 70 characters)

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128. If necessary, please use the text box to provide more detail about updating the NSTS to provide multiple benefits. (Max 500 characters)

* 129. Generally speaking, are there significant differences between the quality of the approved drainage submission and what gets delivered on site?

Yes

No

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130. Please use the text box to provide more detail on what the differences are and how they arise? (Max 500 characters)

131. What approaches are being used to agree maintenance obligations? (Max 500 characters)

* 132. Can you suggest examples of planning submissions, or completed developments that demonstrate the opportunities and challenges of delivering SuDS that provide multiple benefits? Alternatively, please send an email to paul.shaffer@ciria.org.

Yes

No

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133. Case study details (max 500 characters)

Planning reference:

Name of development:

Street or postcode:

Scale of development (area/houses):

Type of development:

Built (yes/no):

Provides multiple benefits (yes/no):

Demonstrates challenge (yes/no):

Please provide details

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Final comments

152. Please use the text box to provide any other additional comments. (Max 500 characters)

153. Thank you for taking the time to complete the survey.

Your response will help inform the research into developing recommendations to update the Non-Statutory Technical Standards for SuDS.

We may need to obtain some further information, particularly around any case studies, or examples. If you would be willing for us to contact you to follow up the survey please leave your contact details below. Your details will only be used for this purpose of this research. Alternatively, please email paul.shaffer@ciria.org.

Name

Email Address

Phone Number