North-East Local Standards for Sustainable Drainage Checklist Proforma

This checklist should be completed by using guidance from the North-East Local Standards for Sustainable Drainage

1. Project & Site Details			
	Project / Site Name (including sub-catchment / stage / phase where appropriate)		
	Has a Pre-app consultation been undertaken? (Add any existing planning reference?)		
	Site address & post code		
	OS Grid ref. (Easting, Northing)	E	
		N	
	Brief description of proposed work		
	Total site area		m^2
	Total proposed impervious area		m^2
	Total proposed area of Public Open Space		m^2
	Total area used for GFRO		m^2
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?		
	Existing drainage connection type and location		
	Designer Position/Company		
	Designer email address/contact		

2. Drainage Strategy	2a. Discharge Rates & Required Storage			
		Greenfield runoff rate (l/s)	*Required storage (m^3)*	*Proposed discharge rate (l/s)*
	Qbar			
	1 in 1			
	1 in 30			
	1 in 100			
	1 in 100 + CC			
	Climate change allowance used	40%		
	2b. Principal Method of Flow Control			
	2c. Proposed SuDS Measures			
		Catchment area (m^2)	*Plan area (m^2)*	*Storage vol. (m^3)*
	Rainwater harvesting	0		0
	Infiltration systems	0	0	0
	Green roofs	0	0	0
	Blue roofs	0	0	0
	Filter strips	0	0	0
	Bioretention / tree pits	0	0	0
	Swales	0	0	0
	Basins/ponds	0	0	0
	Filter drains	0	0	0
	Pervious pavements	0	0	0
	Other storage types	0		0
	Total	**0**	**0**	**0**

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3. Proposed Discharge Arrangements			
	3a. Infiltration Feasibility	*Report/Page/Section*	
	Superficial geology classification / Bedrock geology classification		
	Is land contamination present? / Is there any coal mining, subsidence risk or SPZ		
	Site infiltration rate		m/s
	Depth to groundwater level		m below ground level
	Is infiltration feasible? (full or partial)		
	3b. Drainage Hierarchy		
		Feasible (Y/N)	*Proposed (Y/N)*
	1 store rainwater for later use		
	2 use infiltration techniques, such as porous surfaces		
	3 discharge rainwater direct to a watercourse		
	4 discharge rainwater to a surface water sewer/drain		
	5 discharge rainwater to the combined sewer.		
	3c. Proposed Discharge Details		
	Proposed discharge location (s)		
	Has the owner/regulator of the discharge location been consulted? (have you included copies of NW pre-app enquiries)		

4. Waterquality, amenity, biodiversity and construction		
	4a. Source control/interception and water quality	*Comment/Report /Page/Section*
	How have you provided source control SuDS for all of the impermeable surfaces of the development? (if full source control is not possible detail how you have provided as much as possible i.e. permeable paving on all drives etc)	
	How have you provided source control interception for the first 5mm of rainfall? (see CIRIA c753 , chapter 24)	
	What is the pollutant loading of the development?(see CIRIA c753 chapter 26)	
	What is the pollutant removal efficiency of the SuDS provided? (see CIRIA c753 chapter 26)	
	Have you shown the SuDS provide residence time, depths and flow velocities as required in C753?	
	4b. Other Supporting details	*Comment/Report /Page/Section*
	Is evidence provided that the SuDS have been integrated with landscape design and ecology?	
	Is a landscape plan or drawing included?	
	Is a SuDS health and safety risk assessment considered	
	Have you considered overland flow routes on your site?	
	Have you provided detailed design drawings , including sections and landscape drawings and if applicable mdx or other hydraulic modelling files?	
	Have you identified any risk and mitigation to water receptors during precommencement of construction?	
	Have you provided a maintenance strategy?	
	4c Demonstration of how the proposed SuDS measures improve:	
	a) water quantity	
	b) water quality	
	c) biodiversity	
	d) amenity	