



Sustainable Drainage Systems (SuDS) Observation Checklist – Dumballs Road Inspection

SECTION A – General Site Context

SECTION B – Identification of SuDS Features

SECTION C – Condition Assessment of SuDS

SECTION D – Functional Assessment

SECTION E – Measurements



SECTION F – Issues Identified

SECTION G – Improvement Recommendations



Project / Group Details

- Street Name: Dumballs Road, Cardiff CF10 5FE.
- Group No.: _____
- Date of Inspection: _____
- Weather Conditions: _____

SECTION A – General Site Context

Item	Observation	Yes/No/N/A	Notes
A1	Street is predominantly residential / commercial / mixed-use		
A2	Presence of impermeable surfaces (asphalt, concrete)		
A3	Evidence of drainage issues (ponding, erosion, blocked gullies)		
A4	Existing road crossfall directing water to SuDS		
A5	Adequate pedestrian access and safety		

SECTION B – Identification of SuDS Features

Answer all visible SuDS elements

SuDS Feature	Present? Yes/No	Notes / Location
Rain garden / bioretention cell		
Permeable or porous paving		
Swale (grass or vegetated ditch)		
Tree-pit SuDS / bioretention tree pits		
Soakaway / infiltration chamber		
Green verge with infiltration function		

Detention basin / shallow depression		
Kerb inlets / slot drains		
Other (specify): _____		

SECTION C – Condition Assessment of SuDS

1. Vegetated SuDS (Rain gardens, Swales, Tree pits)

	Item	Present? Yes/No	Notes
C1	Vegetation is healthy and well-established		
C2	No visible signs of erosion or scouring		
C3	Inlets/outlets free from blockage		
C4	No excessive litter or sediment accumulation		
C5	Evidence of recent maintenance		
C6	Standing water absent beyond 24–48 hours		

2. Permeable / Porous Paving

	Item	Present? Yes/No	Notes
C7	Surface is intact, with no severe cracking or displacement		
C8	Joints not clogged with debris or sediment		
C9	Water infiltrates through surface (test with small water pour)		
C10	No ponding adjacent to paving		

3. Infiltration Structures (Soakaways, Trenches)

	Item	Present? Yes/No	Notes
C11	Surface covers securely installed and undamaged		
C1 2	No evidence of overflow or poor infiltration		

C1 3	Surrounding area free from settlement or subsidence		
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SECTION D – Functional Assessment

	Item	Present? Yes/No	Notes
D1	SuDS features appear to delay surface-water discharge		
D2	SuDS features minimise runoff volume effectively		
D3	Visible mechanisms for infiltration into the ground		
D4	SuDS capture runoff from roofs, footpaths, roads, or verges		
D5	Flow routes between features are clear and logical		
D6	Features comply with sustainable drainage principles		



SECTION E – Measurements (If Applicable)

	Measurement Value	Notes
E1	Dimensions of rain garden / swale: Length _____ m, Width _____ m	
E2	Depth of swale / depression: _____ mm	
E3	Approx. area of permeable paving: _____ m ²	
E4	Road crossfall (estimated): _____ % or 1:_____	

SECTION F – Issues Identified

Answer all that apply.

	Issue	Present? Yes/No	Notes
F1	Blocked inlets/outlets		
F2	Excessive litter or silt		
F3	Vegetation die-off		
F4	Evidence of flooding or ponding		

F5	Damage from vehicles or pedestrians		
F6	Lack of maintenance		
F7	Poor drainage connectivity		
F8	Others (specify):		

SECTION G – Improvement Recommendations

Provide **at least three** suggestions based on observations:

1.	
2.	
3.	
4.	