Community Based SuDS

Blue Green Cities
7th March 2019

We’re active members of the communities we serve

That’s why at Stantec, we always design with community in mind

This is our promise
Whitburn Spills — Roker Park SuDS

Low flows discharge to existing pond

Storage above ground in swale and low lying areas

Medium flows permeate into geocellular and subsoil

Swale conveys flows

Runoff from highways and roof areas collected in pipes

Low flows enter swale. High flows enter swale, once below ground storage is full

High level outlet to surface water network

NORTHUMBRIAN WATER
living water

Sunderland City Council

Esh Stantec

Turner & Townsend
Whitburn Spills – Community Involvement
Whitburn Spills – Community Benefits
Communicate design and involve communities
# Water Resilient Cities Initiative

**Moorlands School, Manchester**

## Funders

- Business in the Community are funded by DEFRA and United Utilities

## Clients

- Moorlands Junior School
- Business in the Community

## Designers

- Stantec
- ARUP
- Marshalls

## Contractors

- Groundwork

## Other

- Environment Agency
- WWT
- Ciria
- GMCA Greater Manchester Combined Authority
- CLASP: Environment Protection & Support

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Business-led group promoting healthy communities with successful businesses at their heart
Moorlands School

Stepping stones provide the opportunity for school children to interact with the raingardens

SuDS used
- Raingardens
- Infiltration Trench
- Permeable Paving

Benefits
- Education and Amenity
  - Biodiversity and habitat creation
  - Lower water bills
  - Demonstration site for Greater Manchester

Savings on SW charges alone will pay for the scheme in 12-15yrs

Promoting SuDS through guidance, example projects and engagement
Economic drivers for improving resilience to major events

Represents good business

**FEMA**

“Every $1 spent on mitigation saves $4 on disaster recovery”

“Post disaster, if a business hasn’t re-opened within 5-days, nearly 90% of those businesses will fail.”

**Defra**

“Coastal, river, and surface water flooding cost England and Wales £1.2bn per year in damages”

**EA**

“EA flood defense projects provide at least £5 of benefits for every £1 spent”
Our values guide us
We put people first
We are better together
We do what is right
We are driven to achieve