SuDS Delivery in Wales
6th September 2018

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Key Facts

Welsh Water Capital Delivery Alliance

- We have five Alliance partners
- Which equates to around 1000 people
- We currently have circa 1400 live capital schemes being designed and delivered by our in-house Engineering Delivery Team and Alliance Partners
- We submit around 150 planning applications a year
- This equates to circa £1.3m of investment per day during this AMP

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Llanelli and Gowerton

The Loughor

Environmental Quality Objectives
- Shellfish Waters Directive and Bathing Water
- Sensitive water under Urban Wastewater Treatment Directive
- Special Area of Conservation under Habitats Directive
- RAMSAR Site

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Loughor Estuary – Pre-1997 discharges

Original untreated sewage discharges
Original biological treatment works not capable of meeting new environmental standards
General route of sewage flow in catchment

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Loughor Estuary – Post-1997 discharges

Reduction in load and bacteria

Combined sewer overflows
New waste water treatment works
General route of sewage flow in catchment

TOTAL PRICE
£69m

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Developing solutions

Storage won’t work in this catchment!

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RainScape
GlawLif

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Llanelli Overview

• Investment in Llanelli and Gowerton:
  • AMP5 £15m
  • AMP6 NEP £26m – 7nr. Intermittent Discharges
  • NRW L2 Driver £73m – Northumberland SPS and Both Llanelli and Gowerton WwTW
  • Maintenance improvements of £5m – Halfway SPS

• Total Permeable Area removed by end of AMP6 >44 Ha
• Total flow removed during a 1:5 year storm – 6,116 l/sec
• “Smart Networks” has ‘mobilised’ >25,000 cu.m of previously unused storage across the network
• Peak Flow Equivalent Treatment – PFET – used at Llanelli WwTW

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Stebonheath Primary School (AMP5)

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Queen Mary’s Walk (AMP5)
Glevering Street (AMP5)

- £2m scheme, part funded via the European Regional Development Fund
- Mix of green infrastructure and below ground interventions
- Close engagement needed with residents
- Lessons learnt

Cambrian North basin – Before (AMP6)
Cambrian North basin - After (AMP6)
Welsh Water 2050

- Strategic vision with the goal of resilience by 2050
- Strategic response 15 – using nature to reduce flood risk and pollution
- Recognises RainScape as a tool to be used in managing a range of issues and deliver multiple benefits
- Resilient solutions will provide the best value solution, whilst managing catchment risk
- Close working with local authorities and others needed. It cannot be delivered in isolation.

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