

Stormwater Package Solution



turning water around ...

West Lothian's Fastlink Project has SUDS Designed in with Hydro's Stormcell® and Downstream Defender®

The Fastlink Project is part of a far-reaching transport and development action plan for the Lothians and Edinburgh region. It comprises new road transport links in the Livingston / Edinburgh corridor to control vehicle commuter traffic through West Lothian. As West Lothian Council is committed to the principles of SUDS, the infrastructure construction incorporates Stormcell® and Downstream Defender® stormwater storage and control equipment from Hydro International.

Graeme Hedger, Senior Professional Officer, West Lothian Council, commented: "The Stormcell® installations provided a high performance, storage and treatment solution in very constrained retrofit situations, where otherwise it would have been difficult to achieve the required runoff control without compromise to the overall design."

The Fastlink scheme is providing an express bus link into Edinburgh, and is one of a number of regional schemes to reduce road vehicle commuting into the City of Edinburgh. Specifically, Fastlink will improve the A899 through Livingston for all road users, with three new bus halts for the Fastlink buses at Knightsbridge and Ladywell, and Howden which also included park and ride facilities. In addition, a new cloverleaf grade separation interchange is being constructed at Houston.



With the addition of extensive non-porous surfaces, it is important to control stormwater runoff safely, especially in a relatively flat locality. Consultant engineers Mouchel Parkman specified Hydro's Stormcell® modular block storage systems with Downstream Defender® silt protection because they had successfully used Stormcell® on other similar projects.

Cont ...

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Product Profile

- Integrated package of stormwater products.
- No power requirements.
- Provides SUDS Quantity, Quality and Amenity requirements.
- Very low maintenance requirements.
- Complements other on-site SUDS solutions.



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Hydro International

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Around 50 m³ of Stormcell® was installed for the bus lay-bys and the park and ride facility, fed from point drainage systems. As Stormcell® is constructed from a high load bearing honeycomb structure, it has a loading capacity of 40 tonnes/m² which enables it to be installed under trafficked areas without requiring extensive structural support, thus minimising land take.

Additionally, Stormcell®'s patented perforated pipe design provides unique integral silt protection to the storage and minimises the need for maintenance of the stormwater storage tank itself.

Additional silt and floating pollutants entrapment was incorporated after the stormwater storage where required, using 1 m diameter Downstream Defender®s.

Nearly 90 m³ of Stormcell® storage capacity was specified for the Houston interchange construction between the A899 and the A89, in an installation either side of the carriageway. Here, 2 m and 2.55 m diameter Downstream Defender®s were used to remove pollutants and silt prior to discharge through the Hydro-Brake® Flow Control devices used to attenuate the higher potential volumes from the highway runoff.



Consulting engineers:

Mouchel Parkman

Civil contractors:

Farrans Construction

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