



Hydro-Jet™ Screen

New-Build Rotary Jet™ Screen with Storm King® Overflow

Bolsover, Derbyshire

Project Profile:

- Integral storage to reduce number of spills to watercourse.
- Outfall very visible to public.
- High performance required.

Product Profile:

- Hydrodynamic separation and integral storage with Storm King® Overflows.
- 6 mm two dimensional screening from Rotary Jet™ Screen.
- No power required.
- Self-cleansing and self-activating.

Located in a recreational area on steeply sloping ground on the outskirts of Bolsover in Derbyshire, this overflow responds quickly to rainfall runoff. Initial hydraulic modelling indicated that the new overflow would spill to a small stream over 50 times a year despite over 100 m³ of storage integrated within the Storm King® Overflow. The sensitive and highly visible location of the outfall and stream demanded a high quality overflow and screening system. Installed in the summer of 1997, the photograph below shows the screen in February of 1999.

Bolsover District Council's engineer, Steve Milner has been responsible for the modelling design and installation of the whole scheme and commented, "Before the installation of the new overflow the site was a mess with sewer debris littering the banks of the receiving watercourse. The new Storm King® Overflow provides the highest possible level of treatment and together with the Rotary Jet™ Screen ensures that the required 6 mm, 2 dimensional solid separation standard, as set out in the AMP3 guidelines, is satisfied. Routine CSO inspections carried out throughout the winter have shown that only minimal maintenance has been necessary and the stream is now completely clear of sewage litter."



This case study forms part of a series demonstrating the flexibility, cost-effectiveness and extended track record of the Hydro-Jet™ Screen. Other case studies include:



Retrofit to Existing CSO Chamber



Retrofit to Storm King®



Package Unit



New-Build Concrete Chamber

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