

### Product Profile

- Self-cleansing by rotating helical brushes..
- All screenings retained on the foul side of the weir.
- Low headloss.
- Operates under surcharged conditions.



The main contractor on the Atlas Works and Carlisle Street sites was ETM.

### Heliscreen® Upgrades Under-Street CSOs

Two recently completed Combined Sewer Overflow upgrade projects in urban Sheffield demonstrate the versatility of Hydro's Heliscreen® in assisting the Yorkshire Water Services Ltd AMP3 programme to improve the city's water quality to the Environment Agency's standards. At the Atlas Works and Carlisle Street sites, twin Heliscreen® units were retrofitted into existing chambers under the road surface.

Both projects were designed to improve existing CSO arrangements. During heavy rainfall the chamber overflowed into the watercourse causing pollution by visually offensive material.



Carlisle Street Heliscreen® awaiting installation.

To upgrade this to a positive screening method, at an economical cost, Yorkshire Water installed twin patented Heliscreen®s in double high-sided weirs. Both units were supplied with bespoke stainless steel flow channels which enabled complete mechanical installation within one day with minimal civil work.

The Atlas Works installation under an urban road comprised two 700 x 2500 mm units with a maximum inlet flow of 1593 l/s (1 in 5 year) and a maximum screened flow of 1328 l/s (1 in 5 year).

Yorkshire Water's Contracts Manager, Peter Myerscough, commented: "The Heliscreen® is an efficient, versatile and cost-effective unit. The bespoke Heliscreen® installations at Carlisle Street and Atlas Works were completed on time and within our normal 10-12 week delivery period".

Hydro International's patented Heliscreen® is a self-cleansing, low head loss screening device that protects CSO outfalls by retaining all matter greater than 6 mm (in 2 directions) in the foul continuation flow to the treatment works effectively even in totally flooded chambers with surcharged outflow pipes and is able to handle high screening concentrations.



Carlisle Street Heliscreen® installed in the chamber.

turning water around ...®

This information is for guidance only and not intended to form part of a contract. Hydro International pursues a policy of continual development and reserves the right to amend specifications without prior notice. Equipment is patented in countries throughout the world.