

A595 Adjam Culvert Otter Ledge



The existing Otter Ledge had been vandalised and set on fire. The first job was to remove and dispose of it.



The finished screen should stop any damage to the ledge, caused by either debris flowing downstream or vandalism.



The trash screen at the upstream end was difficult to design and install because of its complicated shape and the difficult site access.



The finished Otter Ledge and downstream trash screen. The screen was constructed in two parts so we could carry it down the pipe.

Client: Enterprise Mouchel	Value: £20,000
Location: A595 Nr. Whitehaven	Duration: 2 Weeks

Project information

The purpose of this project was to replace a vandalised Otter Ledge in an 1800mm diameter culvert running under the A595 nr. Whitehaven.

The existing ledge was made of fibreglass. It was broken out using hammers and crowbars, and then taken to a Flusco landfill for disposal, as recycling was not an option.

The new ledges were fabricated off-site in anticipation of the start date, from drawings supplied by the client. They were fitted by specialist subcontractor MJ Engineering in conjunction with our own labourer, and they were able to make adjustments to the ledges as they were fitted.

The trash screens were roughly designed on the drawing provided, but didn't include measurements and they were subject to a more detailed design by MPH and MJ Engineering once work had started on site. The upstream trash screen was difficult to design as the sides needed to incorporate two outfalls that joined the river at the culvert entrance, whilst still blocking human entry to the culvert. Only one end of the culvert could be accessed, and even then only with small lifting machinery so both screens were made in sections so they could be manually carried to the site. The downstream screen was made in two sections small enough to carry down the culvert. The upstream end was made in five sections which were carried down to the site and adjusted as necessary.