

# The Complete Construction Service



**Donegan**  
Civil Engineering



Title:	<b><u>Cookesmere Lane DG5</u></b>
Location:	Sandbach
Client:	United Utilities
Project Manager:	Kevin Clarke-O'Neil
Main Contractor:	Donegan
Commenced:	October 2009
Completed:	May 2010
Value:	£650k

#### **Background Of The Works:**

The purpose of this project was to remove 18 properties from the DG5 flood register.

The sewer infrastructure upgrade was identified to prevent foul sewage flooding as a result of a general hydraulic inadequacy in the sewerage network within the area.

Surcharged flows backed up the system around Cookesmere Lane and would emanate from manhole covers and galleys', subsequently causing both internal and external flooding of the local properties.

**Civil Engineering & Tunnelling Contractors**



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## **Scope Of The Works:**

Construction of a 6.00m  $\varnothing$  segmental shaft by caisson approx 8 metres deep with over 80m<sup>3</sup> (80,000 litres) storage capacity for combined surface/foul water.

Mechanical & Electrical installation including 2 variable speed submersible pumps within the detention tank, motor control panel, instrumentation and telemetry equipment within a GRP kiosk and isolating penstocks.

Construction of a 4.00m  $\varnothing$  CSO chamber fitted with a 'Longwood Stormguard Powered Screen'.

Approx 165m of 450 - 525mm  $\varnothing$  opencut pipework constructed online along with 7 manhole chambers 1.20 - 1.80m diameter all within the carriageway

Demolition of existing pumping station and remedial works.



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