OUR EXPERIENCE
SNC-Lavalin / Atkins has extensive sewer and drain rehabilitation experience from planning and scoping CCTV surveys through to data review and the development, management and site supervision of rehabilitation schemes. A selection of our experience with various clients is provided below.

- From 1999 to 2015 we had a dedicated team of engineers undertaking the full spectrum of CCTV inspections and sewer rehabilitation for Southern Water. For the eight years (2007 to 2015) we managed the CCTV planning and sewer rehabilitation scheme development for the whole of the Southern Water region. We have reviewed over 2,000km of CCTV survey data and scoped subsequent sewer rehabilitation schemes. In addition, we have co-developed IT systems / tools to manage the CCTV and sewer rehabilitation process.

- As preparation for the 2012 London Olympics, we were engaged by Thames Water to analyse the sewers in the vicinity of 20 venues to ensure that they were fit for purpose. In total approximately 100 km of sewer was inspected. Where CCTV surveys were abandoned due to silt or debris we managed the enabling work to facilitate re-inspections. Each of the surveys undertaken was reviewed to determine those where pre-Games work would be required. Due to the urgent nature of the work we managed the procurement of contractors to install 15 Cured in Place Pipe linings in the vicinity of Wembley Stadium and Wimbledon amid tight security.

- For Heathrow Airport we have reviewed the structural condition of 30km of its wastewater assets to identify which sewers require rehabilitation and developed a prioritised sewer rehabilitation schedule to ensure the most effective use of the maintenance budget.
On behalf of the Environment Agency, we have reviewed the structural condition of 10 km culverts in the Anglian Region and recommended remedial works.

As part of our 820 Alliance with Thames Water we have developed a process for the management and inspection of their 3,000+ drainage and sewerage pipes that pass under railways. This has included the development of a prioritisation procedure to evaluate the risk and deterioration rate of each asset. This analysis is then used to set the frequency of CCTV surveys and to project and prioritise when rehabilitation works will be required thus allowing financial budgets to be determined.

For Severn Trent Water we prioritised 300km of their trunk sewer network against the consequences of failure, selected the most appropriate inspection method based on size and length and prepared high-level risk assessments in relation to access, depth and flows.

For Northern Ireland Water we have project managed the inspection of over 100km of sewers, the data from which was reviewed to allow schemes to be developed for the high-risk assets. This included weekly progress meetings to track progress and identify any issues that required attention, such as land access.

For Anglian Water we have reviewed 19 years of CCTV survey data for the Cambridge sewer system to establish which surveys were outside of the re-inspection frequencies stated in the Sewerage Rehabilitation Manual (SRM) and therefore required re-survey. We also categorised the sewers in accordance with procedures contained in the SRM to allow uninspected critical sewers to be identified, re-inspection frequencies to be determined and sewer rehabilitation schemes for high risk assets to be scoped.