

Gravity Sewer Inspection and Condition Assessment

case study: Urban gravity sewer network

Colombo, Sri Lanka

The Greater Colombo Wastewater Management Project (GCWMP) is a multi-year programme to survey, inspect, assess and renovate over 500km of sewers in Colombo, the capital city of Sri Lanka. Many of the sewers are more than 100 years old and their management is a key element of the public health of this city of over 750,000 people. The first phase of the programme covers approx. 125km of collector and interceptor sewers, including some rising main and siphon sections, in the oldest areas of the city.

Downley Consultants Ltd was engaged by the Asian Development Bank to review selected parts of the CCTV inspection output on behalf of the Client, CMC, and to make recommendations on repair and rehabilitation of the sewers. In addition we provided training for the Client's team in condition assessment and in rehabilitation of rising mains to enable them to plan future phases of the programme.

The detailed works included:

- Review selected CCTV inspection output data
- Undertake condition assessment and make recommendations on repair and rehabilitation
- Provide training to Client's project team in condition assessment and rehabilitation
- Advise on inspection of rising mains for future contracts

client

Asian Development Bank
Colombo Municipal Council (CMC)

date

2018

value

\$140,000 (value of consultancy contract)

services

Condition Assessment
Training
Rehabilitation and Repair Decisions