

## CASE STUDY

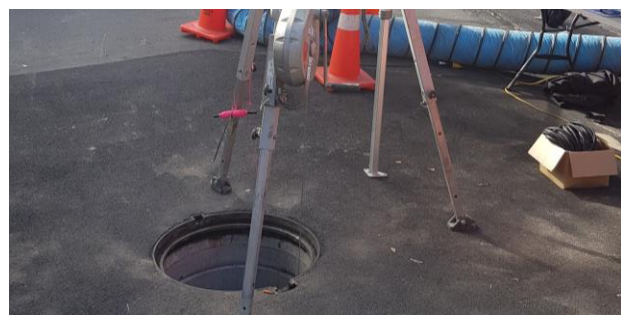
# IPLEX RESTRAIN® Kingsland DN300 Stormwater Rehabilitation

## The Project

This emergency repair project is located in the heart of Kingsland, one Auckland's oldest leafiest suburbs. At the bottom of this quiet, but heavily built up cul-de-sac was a DN300 clay earthenware stormwater pipe. The old pipe which runs under several of the residents houses had collapsed causing a flood risk for the street.

## The Challenge

Open trench excavation was just not an option without removing the houses above the pipeline. A trenchless application was the only suitable option for this project. Access to the pipeline was also a challenge as the invert level was approx. 4.2m deep and the access chamber was narrow and old.



## Phase 1 (Preparation)

Humes Pipeline Systems (Part of Fletcher Concrete), partnered with CDS New Zealand on the project & manufactured the concrete structures. CDS NZ started by installing a new 4.2m deep, 1.8m wide flange base manhole. This would allow for safe access and easy installation of Iplex Restrain® pipe.



Iplex Restrain DN300 PN16 Pipes



Fitting the Seal Ring



Approved Silicon Spray Lubricant Applied

## Phase 2 (Installing the Iplex Restrain®)

Iplex Restrain® DN300 SN16 in 1.0m lengths was specified for the project. This allowed for easy handling down the manhole to the pipeline. A pipe reaming head was attached to the first pipe and then drawn through by a drilling rig located at the next street over.



## The Benefits

The contractor chose Iplex Restrain® because of the trenchless application and the ability to install in restricted spaces. Simply threading sections of Restrain® pipe together to form the new pipeline being drawn through. Ultimately causing less disruption to the environment and to residents.