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SIKA AT WORK

WASTEWATER TREATMENT PLANT, ARMY BAY, WHANGAPARAOA

REFURBISHMENT & WATERPROOFING

BUILDING TRUST



WASTEWATER TREATMENT PLANT, ARMY BAY, WHANGAPARAOA



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PROJECT DESCRIPTION

The Army Bay Wastewater Treatment Plant services Whangaparaoa Peninsula, Orewa, Hatfields beach and Silverdale. Operational since 1982, it treats wastewater and discharges it through a 2.8 km outfall pipe that extends 1.0 km out into the Tiri channel.

The existing outfall pipe was not only aging, it was not of a size capable of dealing with the demands of future population growth. A new HDPE pipe was installed underground from the Plant to the shore line. From here it was connected to the new outfall pipe, the sections of which were weighted with concrete supports and sunk onto the sea bed.

PROJECT REQUIREMENT

Each pair of the hundreds of concrete pipe supports were held together by steel rods. The rod holes had to be patched with a solution that was both waterproof and corrosion proof. Multiple 450m lengths of the outfall pipe were assembled at Whakatiwau 100kms away and transported by barge to Army Bay so it was also crucial the patching solution would not crack when transported.

CHALLENGES

Factors to consider included the aggressive marine environment, the project time-frame, the considerable durability demands and the need to ensure the steel rods had permanent protection from corrosion.

PRODUCTS USED

Sikadur UA. Easy to mix and install. No cracks or damage occurred.

PROJECT PARTICIPANTS

Product Specifier:	Mc Milen Jacobs Associates
Main Contractor:	Mc Connell Dowell
Sika Contact:	Dominic Sulisfianto



Scan QR Code for more information
or visit www.sika.co.nz

Sika (NZ) Ltd

Po Box 19192
Avondale · Auckland
New Zealand · 1746

Contact

Phone 0800 745 269
Fax 0800 745 232
www.sika.co.nz

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