

## Route 9 - Ngong Shuen Chau Viaduct Hong Kong - CHINA

### Manual Instrumentation monitoring and using GEOSCOPE WEB software for data management

The construction of the Phase I of the Route 9 Project comprises the Ngong Shuen Chau Viaduct and its link with the Container Terminals No.8, Route 9 - Cheung Sha Wan to Shatin section and West Kowloon Highway.

This project includes the excavation, temporary drainage system, bore piling and utility diversion etc. SolData has been awarded the installation and the monitoring of different kinds of manual geotechnical instruments such as: Ground settlement marker, Structure settlement marker, Utility settlement marker, Structure tilting marker, Standpipe & Piezometer and vibration monitoring etc., of residential buildings, schools, various utilities at Cheung Sha Wan and the dwellings at Stonecutters Military Base.

The use of Geoscope Web as the site instrumentation database allowed all the site players to have an easy access to a unique, user-friendly and reliable database on which all instrumentation data are stored and usefully displayed.



OWNER :	HIGHWAYS DEPARTMENT
MAIN CONTRACTOR:	CHINA HARBOUR ENGINEERING COMPANY (GROUP)

DATE OF WORKS :	JULY 2002 - DECEMBER 2005
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#### WORKS CARRIED OUT:

- Set up and use of Geoscope Web for Data Management
- Installation and monitoring for
  - 128 nos of Building Settlement Markers
  - 125 nos of Ground Settlement Markers
  - 14 nos of Grid Crack Gauges
  - 7 nos of In-Place Electrolevel
  - 37 nos of Tilt Plate
  - 39 nos of Utility Monitoring Point
  - 10 nos of Standpipe and Piezometer
- Vibration Monitoring at different locations