

PORT 2000 PROJECT

Le Havre - FRANCE

Piezometer survey during dewatering works for the construction of a 1400 metre long wharf.

The maritime port of Le Havre, situated at the mouth of the Seine, is France's largest port facility.

The "Port 2000" project is a major infrastructure project and is under construction to receive the new generation of container vessels.

The French company "Port Autonome", which is part of the Le Havre Port Authority, commenced work on the Port 2000 project in the autumn of 2001 and when completed provided 12 new wharfs covering a distance of more than 4km.

Each wharf was constructed during dewatering of the area within a temporary coffer dam, reducing the sea level to enable works to be carried out.

Sol Data was awarded the project to monitor the water levels in real-time to control the dewatering during the construction of the diaphragm wall.

Sixty instrumented boreholes with piezometers were drilled and installed. Data was transmitted in real time to the surface through cables connected to our acquisition system; GEOSCOPE web, which was located 3km away from the instruments. All water levels were recorded and are displayed in real-time.

The system provided two main functions:

- The writing of daily, weekly and other periodical reports.
- An early warning system in case of sudden changes in water level.

Each wharf was constructed during dewatering of the area within a temporary coffer dam, reducing the sea level to enable works to be carried out.



Le Havre : Port 2000 Project

OWNER :	PORT AUTONOME DU HAVRE
COMPANY :	SOLÉTANCHE BACHY
PROJECT DURATION :	2001-2004
SCOPE OF WORKS :	
<ul style="list-style-type: none">• 60 marine vibrating wire piezometers.• Real time monitoring throughout the dewatering period.• Radio transmission of data over 3 km• Monitoring of tidal changes• Alarm & Data management, with manual reporting for the 3 year duration of the project.	