



POLITECNICO DI TORINO
Dipartimento di Georisorse e Territorio



GEORESOURCES AND ENVIRONMENT ASSOCIATION



ITALIAN TUNNELLING ASSOCIATION

INTERNATIONAL CONGRESS

MECHANIZED TUNNELLING: CHALLENGING CASE HISTORIES

Politecnico di Torino, 16 – 19 November 2004

**DESIGN AND MANUFACTURE OF TUNNEL BORING
MACHINES FOR THE NORTH EAST INTERCEPTOR SEWER,
LOS ANGELES, USA**

Abstract

To complete the construction of the North East Interceptor Sewer (NEIS) the Joint Venture of Traylor Bros., J.F. Shea, Frontier Kemper Constructors and Kenny Construction (TSFK) purchased three Tunnel Boring Machines (TBM) from LOVAT. Two of the TBMs were Earth Pressure Balance (EPB) type and incorporated new designs in there construction. The new designs were possible because Traylor Bros. (Joint Venture Lead Partner) is a contractor that pushes innovation in their TBMs. This push for innovation allowed LOVAT to introduce new features in the design and manufacture of the two EPB TBMs.