



Figure 1: Comprex® equipment at work

## Cleaning of municipal drinking water pipelines in Portugal

### Task

- cleaning of potable water mains using the Comprex® procedure
- removing of easily mobilised deposits
- eliminating problems with turbidity
- ensure performance

### Specifications

- nominal diameter between DN 100 to DN 200
- total length 5,1 km
- material cast iron
- supply pressure up to 10 bar

### Cleaning using the Comprex® procedure

- mechanical cleaning process using water and treated compressed air and water delivered by Comprex® unit (Figure 1)
- cleaning in sections by using different injection locations along the pipe (Figure 2)
- discharge using a discharge box (Figure 3)
- inspection glass at the discharge location as indication of the progress of cleaning (Figure 4)
- 1 technician, 3 days on site

### Result of Comprex® cleaning

- deposits and large particles mobilised and discharged (Figure 3 to Figure 5)
- turbidity eliminated
- improved hydraulic properties due to decreased pressure drop
- performance and security of supply restored



Figure 2: injection location



Figure 3: turbidity at discharge box



Figure 4: inspection glass during cleaning



Figure 5: large particles removed from the pipe