HAMMANN

Comprex® cleaning
Municipal Networks

Reference project
Potable water network Great Britain

Figure 1: Comprex® equipment on site

Cleaning a drinking water distribution network in Scotland

Task

- cleaning drinking water distribution network of a large Scottish city using the Comprex® process
- removing of easily mobilised deposits
- eliminating problems with turbidity
- realisation of all works during night time


Figure 2: injection using hydrant and stand pipe

Specifications

- nominal diameter DN 80 to DN 250
- total length 12,4 km
- materials cast iron, PE, fibre cement
- supply pressure up to 5,5 bar


Figure 3: turbidity in inspection glass during cleaning process

Cleaning using the Comprex® procedure

- mechanical cleaning process using water and treated compressed air delivered by Comprex® unit (Figure 1)
- cleaning in sections using different injection locations along the pipe network
- injection using adapter connections at hydrant stand pipes (Figure 2)
- inspection glass for indication of cleaning progress at the discharge location (Figure 3)
- measurement of tubidity by our customer for detailed documentation (Figure 4)
- 2 technicians, 12 nights on site

Figure 4: measurement of turbidity during cleaning

Result of Comprex® cleaning

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


Figure 5: discharged large particles

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