

Edyta - through the underground of Warschaw, Poland



Collector construction Burakowskiego-BIS under Marymoncka Street along the track from Zeromskiego Street to Most Polnocny Bridge

Abikorp purchased a complete microtunnelling system from mts Perforator, who also provided technical support for the entire duration of construction. The new waste water collector was built between January 2014 and October 2015. The DN 3000 pipeline is a black-box construction with a length of 3,240 m. Seven separate tunnelling tracks were built at a depth of 6.5 to 13.0 m. The permissible maximum deviations of +/- 40 mm (horizontal) and +/- 20 mm (vertical) from the nominal axis specified by the client were never exceeded along any of the tunnelling tracks.

This project was completed with an mts 2000 microtunnelling system equipped with custom-engineered mixed-ground discs, scrapers and mining knives to suit the ground conditions. In order to reduce pipe friction, a Bentonite, mixing and compacting unit combined with a fully automated Bentonite lubrication system was used. On the 22 November 2014, the construction team achieved the highest jacking rate, installing 15 product pipes of 2.96 m each within a 24-hour period, which corresponds to a driving length of 44.40 m. Within one 29-day period, a record section of 604 m was excavated. Tunnelling work took only 11 months. This huge achievement was due to meticulous planning and proper site preparation, as well as the use of a powerful and reliable microtunnelling system from mts Perforator.

| Short facts | |
|-------------------|---------------------|
| Customer | ABIKORP |
| Machine | mts1800S, mts2400S4 |
| Max. torque | 742,000 Nm |
| Max. drive length | 604 m |



| Project Background | |
|----------------------|-----------------------------------|
| Job site | Warschaw, Poland |
| Main contractor | Inzynieria Rzeszow S.A. |
| Subcontractor | ABIKORP |
| Total project length | 3,240 m |
| Geology | sand, gravel, loamy sand and clay |



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