

A waterline climbs up a hill



In the Northeast of Poland nearby the boarder to Lithuania and Russia M/s Raba had to lay a new fresh water line in a total length of 18 km (12 miles). Therefore they laid a HDPE pipe OD 110 mm (4.3") of the producer Wavin. Most of this new water line was laid by Horizontal Directional Drilling (HDD). A very interesting HDD bore of this project was a 128 m (425 ft) long bore underneath a small river. The river was 20 m (66 ft) deeper than the starting point. The final target was 50 m (165 ft) higher than the river. So the HDD bore began with a inclination of 33 % downwards, it undercrossed the river horizontal, then the bore went more than 30 % upwards.

The HDD bore was done with the TERRA-JET 5415 S. The operator David started the pilot bore at 11.00 h. The backreaming \emptyset 260 mm (10") and the pipe pulling of the 128 m (425 ft) long HDPE pipe OD 110 mm (4.3") was finished at 18.00 h the same day.

M/s Raba is a specialist in pipe and cable laying. The company was found in the year 1991. Besides contracting they are a successful dealer for Wavin pipes and fittings.



This truck of M/s Raba transports the whole HDD machine TJ 5415 S with accessories



View of the control station of the TJ 5415 S





TJ 5415 S during the staring of the pilot bore.



End of the pilot bore. View back onto the TJ 5415 S.



The drill head reaches the target point exactly in the part of the new waterline.



Butt fusion of the HDPE pipe OD 110 mm (4.3").



The backreamer OD 260 mm (10") with 130 m (425 ft) of HDPE pipe OD 110 mm are assembled.



The backreaming begins. Bentonite comes out of the jet nozzles of the backreamer.



The HDPE pipe is pulled in. The drill mud continuously flows backwards



TJ 5415 S during the backreaming

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