

# NEWS

## DUCTILE IRON PIPE SYSTEM

Information from the European Association for Ductile Iron Pipe Systems · EADIPS®



### Editorial

Dear readers,

In this Mai 2012 issue of the Newsletter, I would like to tell you about two pipeline projects where ductile iron pipes are being used, in one case for the transporting of sewage and in the other for draining rainwater. There are two other projects concerned with the re-laying and replacement of drinking water pipelines and my final report is on how the general process has been improved in a centrifugal casting foundry.

Have an enjoyable and stimulating read,

Sincerely yours,

Raimund Moisa



### A sewer connection for future industrial parks in Nidderau-Heldenbergen

◆ Because of the small height of cover and the loads expected in future from trucks, the local supply utility Stadtwerke Nidderau has opted for DN 600 ductile iron sewer pipes with TYTON® push-in joints to drain the Nidderau-Heldenbergen industrial park in Nidderau in the German state of Hesse. The first development section, the “Stichstraße” section, is about 90 m long and will be connected to the sewer on the Friedberger Straße. This will connect in an area of some 3000 m<sup>2</sup> of industrial land. As in previous sewer development and renovation operations, the choice of ductile iron as the pipe material was prompted by considerations of sustainability. Its good economic value is due mainly to its long operating life. The installing company was also able to put in a lower tender for the installation costs because of the quick and easy assembly of the ductile iron pipe system compared with other pipeline materials. Also helping to bring down costs are the leaktight push-in joints and the rugged material of the pipes – which are typical criteria for judging the sustainability of ductile iron pipe systems.

### Re-laying of a drinking water supply pipeline

◆ The building of the new “Schlossackerstraße” housing estate in Kassel would have meant buildings would be directly above the existing DN 800 supply pipeline (of steel). This was why the local supply company, Städtische Werke Aktiengesellschaft of Kassel, has relaid a section some 500 m long of this drinking water pipeline. The route allowed the deflectability of

the joints to be exploited and fittings to be dispensed with in this way. To allow thrust blocks to be dispensed with as well, the client opted for the use of restrained BLS® push-in joints. The pipes selected were DN 600 ductile iron pipes with a zinc/aluminium coating and a finishing layer. The pipeline cross-section could be reduced because of the fall in drinking water consumption.

In the course of the installation work everybody involved said how very happy they were with the ductile iron pipe system which had been selected. Welded beads needed to be applied retrospectively where a pipe was cut and even this was no problem after on-site instruction given by the pipe manufacturer.



## Replacement of a 100 year old cast iron pipeline in Eschenbach in Switzerland

As part of a renovation scheme planned to last five years, the Swiss municipality of Eschenbach is replacing its oldest drinking water pipelines, which are now too small. The most recent piece of work was the replacement in open trenches of a cast iron pipeline installed in 1911. This runs from the Fätzikon reservoir above the village of Eschenbach.



◆ A new 330 m long drinking water supply pipeline of vonRoll *ecopur* DN 300, K 9, ductile iron pipes with an integral polyurethane internal and external coating (classified as a reinforced coating under EN 545) has now been installed along the same route. The pipe joints were fitted

with the tried and tested vonRoll *hydrotight* internal thrust resistance system. The fully protected ductile iron pipes had additional protection in the form of a vonRoll *rock* rock-protection coating applied in the factory. A walking excavator was used to excavate the trenches. The pipes were

moved to the trenches by an off-road all-wheel drive agricultural vehicle which had been fitted with a crane to convert it into a special-purpose vehicle. This vehicle had to be secured by a forestry cable winch. The easy assembly of the pipes meant that only a short installation time was needed.

## A safe and secure pipeline for rainwater drainage

Berlin's Osthafen or Eastern Harbour was built 100 years ago as the growing city's transshipment point for goods, and though after re-unification, it declined into a shabby industrial wasteland, right now it is developing into one of the city's most popular and attractive areas.



◆ After the expensive conversion of the old warehouse buildings, it is mainly well-known companies in the fashion and media industries that have setup shop here. The Danneckerstraße was lengthened and is the area where Berlin's water company Berliner Wasserbetriebe has placed a contract with a well-known Berlin underground construction company to in-

stall the rainwater drainage system. Poor soil conditions, a small height of cover and heavy goods traffic tipped the scales in favour of DN 800 ductile iron sewer pipes to EN 598 with TYTON® push-in joints being selected. These ductile iron pipes are quick and easy to assemble. The ductile iron manhole connectors are all part of the system and after assembly to a shortened pipe they are concreted into manholes of in-situ concrete and ensure that there is a flexible connection between pipeline and manhole.

### Dates for your diary

**18–20 April 2012**

IWA-European Utility Conference, Vienna

**23–24 April 2012**

FIHB-FGR®/EADIPS®

2012 Conference for College and University Teachers, Zurich

**07–11 May 2012**

IFAT ENTSORGA 2012, Munich

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## Modernisation of the converter in the centrifugal casting foundry at Hall in Tirol

◆ The installation of an additional centrifugal casting machine in the factory of Duktus Tiroler Rohrsysteme GmbH at Hall in Tirol and the resulting higher withdrawal per hour of molten iron meant that the processes and the general environment of the converter needed to be re-arranged. A new platform has enabled the entire environment, including the control console and all the alloying equipment, to be placed on a single level. During the treatment with magnesium, the access door to the treatment chamber and also the observation opening close automatically. The converter and the channel furnace can now be operated from one central control console.

