PROJECT REPORT

Ostravice drainage tunnel and Šance waterworks

Data and facts

Company	PORR a.s.
Type	Hydraulic engineering & harbours
Runtime	11.2012 - 10.2013
Principal	Povodí Odry, státní podnik

Project report online

www.porr.cz

Most modern construction materials ensure stability.

The excavation of the tunnel, which was nominated Construction of the Year 2014 by the Czech Chamber of Chartered Engineers and Technicians, was executed under very difficult hydro-geological conditions below the groundwater level. A 50m-long section of the drainage tunnel was excavated through unstable hillside scree, while blasting was required to bore the rest of the length through rock areas.

Modern construction materials, such as significant quantities of fibreglass reinforcement and anchor elements, were used to replace classic steel grating and bolts. Access structures and elevated constructions were also made from composite materials. These long-lasting materials will ensure the sustained stability of the tunnel, which is constantly exposed to the effects of groundwater.

Impressions

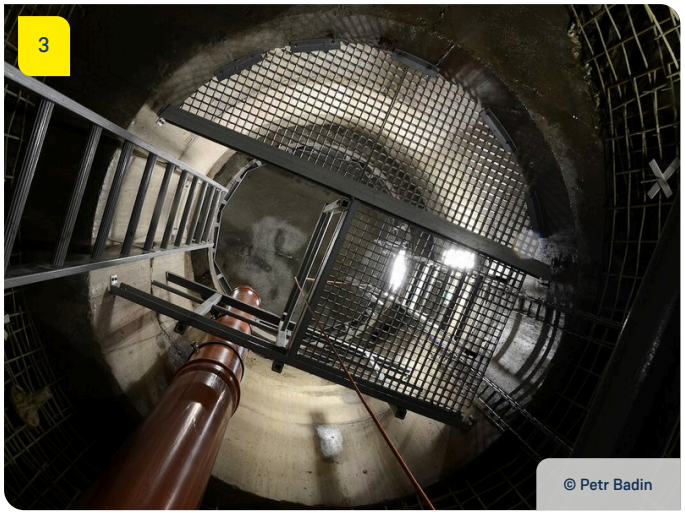

Image notes

1

Optimal execution for long-term durability.

The inner shell of the tunnel is partly coated with jetcrete, and partly with fibreglass laminate composite netting materials and suspension bolts.

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2

High-tech materials.

Special fibreglass laminate netting was used to shore up the drainage tunnel.

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3

Perfectly executed.

This infrastructure project was awarded Construction of the Year 2014 for its modern execution.

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Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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