PROJECT REPORT

Gasworks Simmering

Sanitation of waste deposits ARGE W18

Data and facts

Company	PORR Umwelttechnik GmbH in a consortium
Type	Remediation of contaminated sites
Runtime	10.2010 - 04.2012
Principal	Wien Energie Gasnetz GmbH

Project report online

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100,000 t of residual waste secured

A total of 187 ramming core samplings were made in order to determine the contaminated areas. On the entire area of the old industrial site anthropogenic mounds of up to 7.2 m thickness were found. The eastern part was contaminated through massive tar oil components. Particularly in the area of the tar cistern there was a seepage of large amounts of tar oil in the subsoil. In places with low permeability subsurface layers the contaminants reached the ground water body at depths exceeding 10 m. Here the tar oil had spread laterally as well, depending on the surface topography of these layers.

The greatest exposures to PAHs were detected in the former tar and ammonia cistern, at tar tower, at tar sheath and ammonia scrubbers building, and part of the light oil scrubber plant. In the area of the former tar and ammonia cistern, the tar tower, the light oil scrubber plant and the coal scrubber building massive deposits of hydrocarbons were also detected. The contaminations of the subsoil with cyanides were distributed over the entire site. Selectively, contaminations with phenols, ammonium and sulphate were also detected. These resulted in severe groundwater contamination.

By means of two locking fountain rows hydraulic safety of the site has been achieved. The aim of the measures was to ensure long-term usability of downstream groundwater. As preparation for this purpose those areas have been cleared in which based on the risk assessment the highest pollutant concentrations and the potentially most mobile contaminants were present. This includes in particular the former tar or ammonia cistern as well as some hot-spot areas.

The total excavation amounts to approximately 100,000 t

Impressions

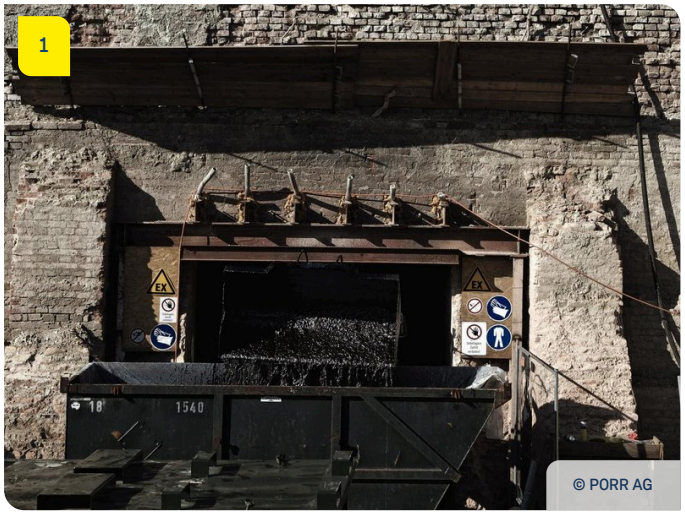

Image notes

1 **Sanitation of waste deposits ARGE W18 - Gasworks Simmering**

Wall opening of the intact cistern

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2 **Sanitation of waste deposits ARGE W18 - Gasworks Simmering**

Preparation work included the premises of the former tar cistern.

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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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