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Technical Information – Guideline

DVGW G 451 September 2016

**Aspects of Soil Protection for the Planning and Construction Phase
of Gas Transmission Lines**

GAS

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Foreword

This Guideline has been elaborated by the project group "G-PK-1-1-5 Pipeline Construction in Arable Soil" of the Technical Committee "G-TK-1-1 Gas Transmission Pipelines".

The construction of gas transmission pipelines requires taking into account soil protection regulations in order to comply with statutory provisions.

It is indispensable to obtain meaningful information about the use and maintenance of the soil as a production factor for agriculture and forestry and as a legally protected natural resource in its own right and with predefined functions even when planning the first stages, which involve, for instance, regional planning procedures and environmental impact studies. All subsequent relevant planning procedures shall describe this information in concrete terms and include it in the interference and compensation balances.

The acceptance of a pipeline construction plan presupposes that private-law agreements between property owners and managers contain a well-founded technical description of the construction works and the soil maintenance and restoration measures; these shall be implemented during the construction process. Observing the information provided in this Guideline will help prevent a negative impact on the soil and will generally ensure that such plans make a positive economic contribution.

The following remarks on how to plan and execute pipeline construction projects take into account that implementing the requirements of this Guideline will reduce the effort and expenses incurred by amelioration measures and increase the acceptance of gas transmission pipeline construction.

Amendments

The following amendments have been made in comparison with DVGW Guideline G 451:2013-09:

- a) Editorial revision
- b) Addition of the requirement to define a soil protection concept during the planning stages
- c) Addition of the requirement for pedological advice during construction

Earlier editions

DVGW G 451 (M):2013-09