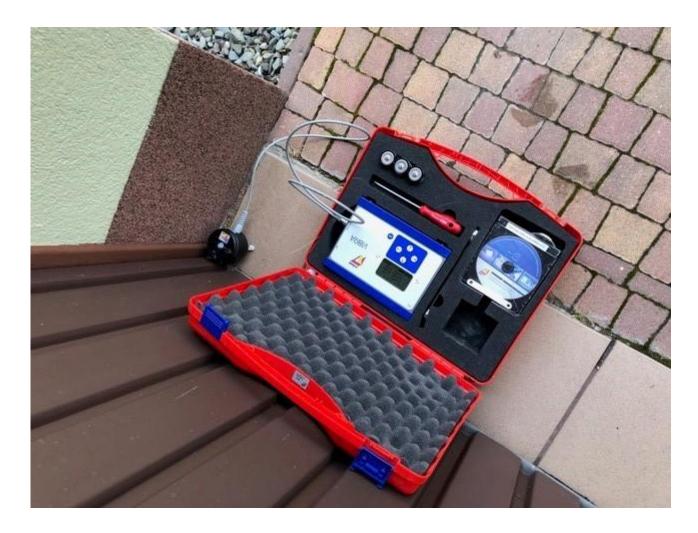


## **Reconstruction of the sewage system**

Wilkowice

Construction of a sewage system in the Wilkowice Commune in designated areas of the agglomeration - stage 1 - districts A, B, C, G, H, K, L in the villages of Bystra, Meszna and Wilkowice, with a total length of 33,631.1 m, along with reconstruction of the surface after works.



#### The project

Evaluation of vibrations transmitted to the structure of residential buildings located in the vicinity of road reconstruction works during construction of a sewer network.

## The challenge

Measurement and evaluation of harmful dynamic effects during pavement restoration works. Construction works were conducted using a grader and vibratory roller.

#### The solution

A PROFOUND triaxial VIBRA type geophone was used to measure the vibrations. During the measurements, the values of the speed of wave propagation were observed in 15 s intervals. The inspection included a comparison of the recorded vibration level with the permissible values specified in DIN 4150-3 and professional assistance in optimizing the operation of vibration-inducing equipment in such a way as to minimize the impact of vibrations on adjacent buildings.

# **Project facts**

Owner(s)

Commune Wilkowice

**Keller business unit(s)** 

**GEO Instruments Polska** 

Main contractor(s)

**INSTALBUD** 

**Services** 

**Environmental monitoring** 

**Markets** 

Buildings Infrastructure

**Technologies** 

Vibration and noise monitors