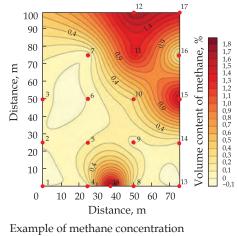
HARDWARE AND METHOD COMPLEX FOR ECOLOGICAL ENGINEERING SURVEYS OF SOLID WASTE LANDFILLS





Example of methane concentration determination in surface SWL

Areas of Application

The complex is to be used for surface, subsurface and borehole measurements of methane and carbon dioxide concentration in the solid waste landfills (SWL); borehole measurements of engineering geophysical parameters and landfill cross section (clay insulating layers – wastes – natural ground)

Advantages

There are no counterparts to be used for combined ecological and engineeringgeophysical surveys of landfills in the world market; the hardware, result interpretation support, and software are customizable to any specific object; real-time in-situ measurement of a wide set of parameters without sampling

Specification

The complex consists of radioactive log hardware, CH_4 and CO_2 concentration meter, and methodological support for results interpretation. The following parameters are measured: concentration of CH_4 and CO_2 within the range of 0-100%; density, moisture, porosity, etc.

Stage of Development. Suggestions for Commercialization

IRL5, TRL6

Piece production of hardware upon request; seeking partners for commercial production and wide-scale introduction of the complex

IPR Protection

IPR1, IPR2, IPR3

Contact Information

Andrii Yu. Ketov, S. Subbotin Institute of Geophysics of the NAS of Ukraine; +38 044 424 33 30, +38 096 630 04 61, e-mail: vkulyk@igph.kiev.ua