



Sink-Hole modeling using micro-gravity data

Vahid E. Ardestani *, **, **Simin Ebrahimzadeh***

*Institute of geophysics, University of Tehran.

**Center of Excellence in survey Engineering and Disaster Management (CESEDM)

Technical Faculty, Tehran university.

E-mail: ebrahimz@ut.ac.ir

A micro-gravity survey was conducted for detecting the sink-holes at site of a power plant.

Pits, man-made tunnels and canals considered as topographical effects and were corrected.

Ground shakes due to the running facilities were also preventing us of a calm measurement.

Despite all unwanted factors at site, we could delineate the sink holes quite accurately.

The depth of and the shape of these anomalies have been modeled by 3-D inversion of micro-gravity data.