



Pipe locating and mapping in Garsfontein

Site: Garsfontein, Pretoria

System: GPR (Ground Penetrating Radar) LMX 200 with GPS and Utilitrac R130.

Situation: Tshwane municipality are in the process of replacing over 8.5 KM of water pipes due to constant leak problems. As one leak is fixed another appears. The contractors doing the pipe replacement need to know where the existing services (pipes, electric cables and fibre optics) were running prior to trenching in order to avoid damaging utilities and been charged heavy penalties. As usual the drawings of the area are not 100% accurate and not all services are recorded.

ORSCO (Pty) Ltd was appointed to map all shallow services in the Garsfontein area prior to contractors trenching.

Solution: ORSCO undertook a combined GPR (Ground Penetrating Radar) LMX 200 with GPS and Utilitrac R130 pipe and cable locator to execute scanning and mapping the services. A total of 24 000 meters were surveyed on and near proposed trenching line.

Results of the survey were marked on the ground to assist with immediate trenching as well full GIS Auto Cad map generated and supplied tot the contractors.

