



Underground Service Detection Report

Site Name Address	Building 33, CSIR, Meiring Naudé Rd, Brummeria, Pretoria
Client	Mr Rhulani Shingwenyana
Date	19 September 2024

1. Site Details



Figure 1. Site address.

2. Scope of Work

The scope of the work included using the detection equipment (GPR and CAT) to detect underground services. The deliverable involved marking the positions of detected services on the ground surface using spray paint.

3. Site Photos

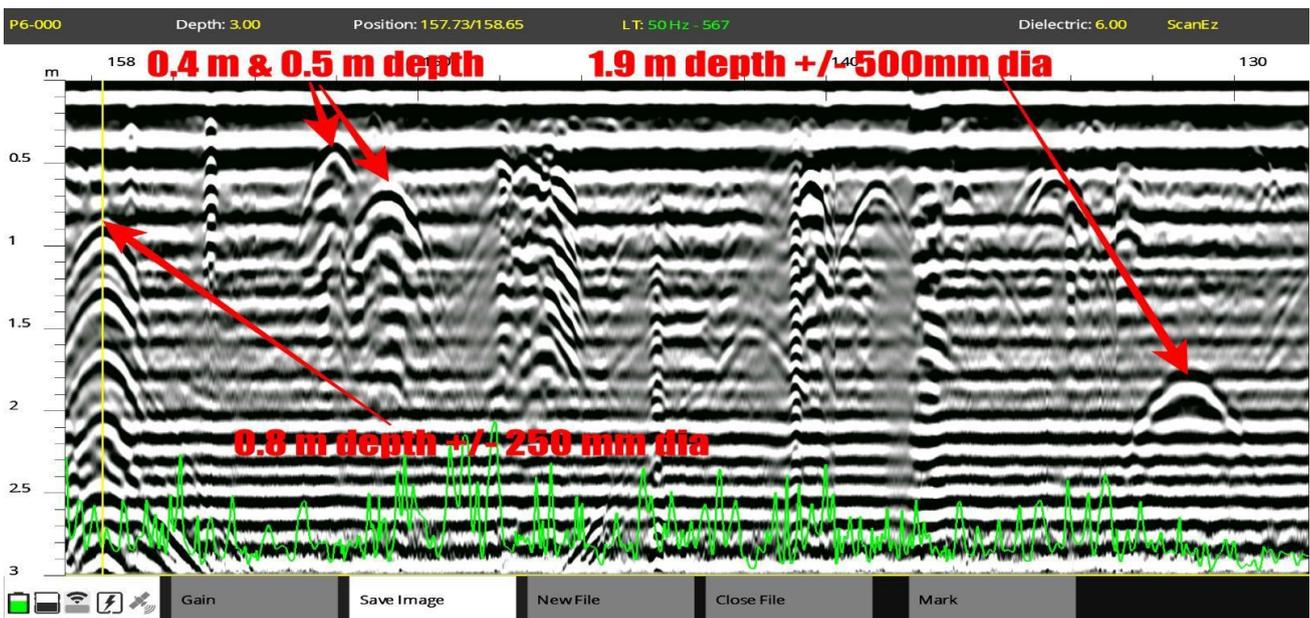
The following table denotes the colored spray paint used for the various underground services on site and in the photos:

Legend:

Live cables	Red line	
Unidentified pipes	White line	
Sewer pipes	Green line	

Please take note of the following:

- The Cable Avoidance Tool was used to detect live cable lines.
- The GPR was set to a depth reading of 3 m depth.
- Interference was experienced on the GPR due to the presence of tree roots.
- The depth readings for the identified underground services are dependent on the site conditions and might not be accurate. Caution to be applied.
- Take note of some of the concerning pipe's screenshot in Figure 2 and figure 3 of the Google Earth (kmz file) are not georeferenced. Refer to the referenced pictures taken on site.



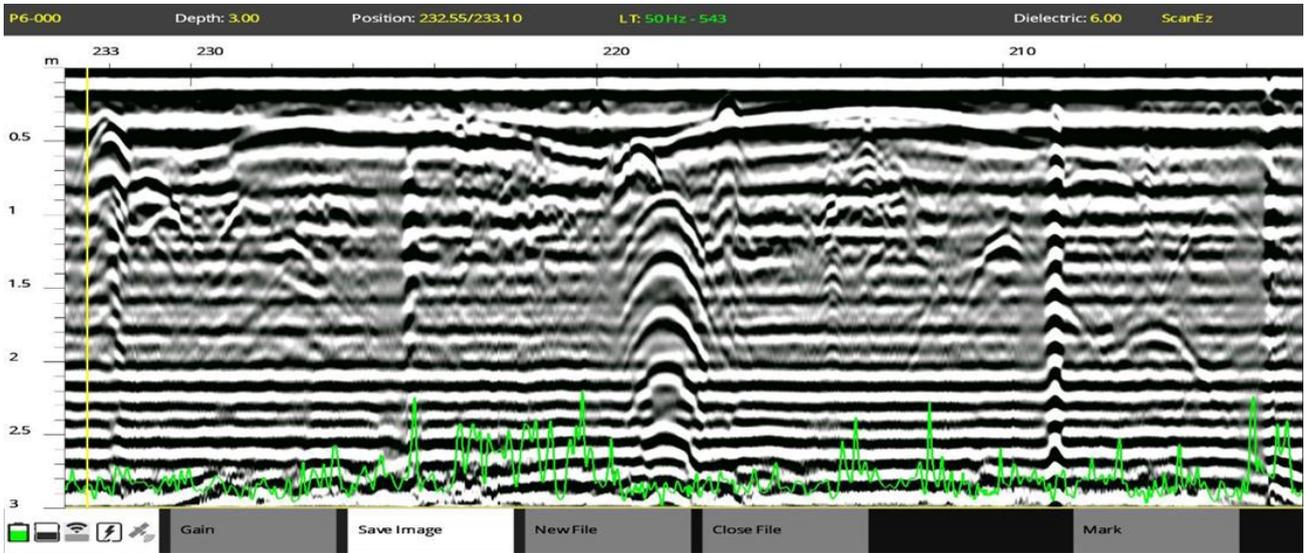


Figure 2. GPR screenshot of some of the pipes located in the area.



Figure 3. Satellite view of the scanned area and marked services, markings are not georeferenced.



Figure 6



Figure 5



Figure 6



Figure 7



0.4 m



Figure 8



0.5 m



Figure 9



Figure 10



Figure 11



Figure 12



Figure 13



Figure 14



Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20

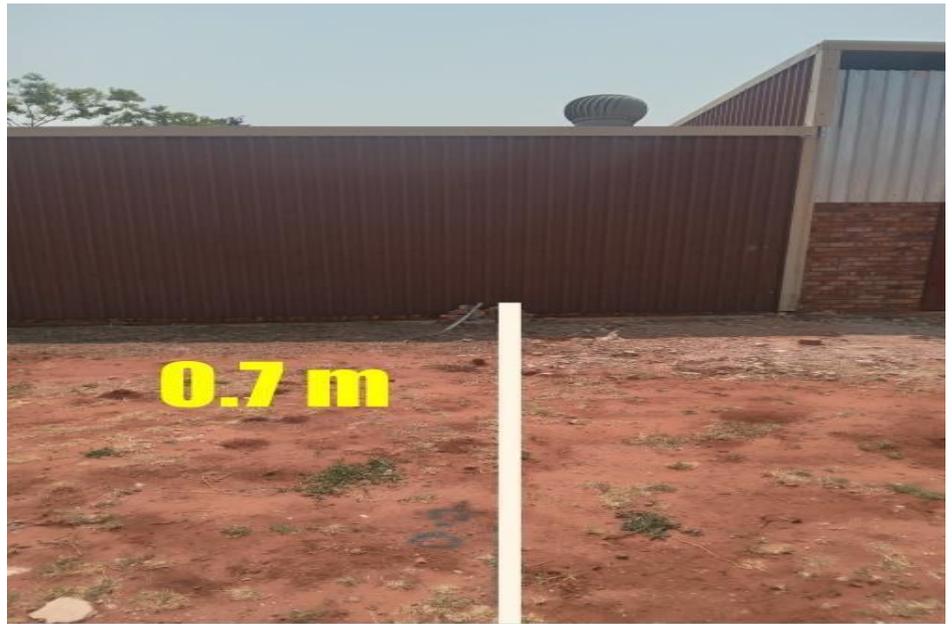
Figure 21



0.7 m



Figure 22



0.7 m



0.3 m

Figure 23



Figure 24



Figure 25



Figure 26



Figure 27



Figure 18



Figure 29