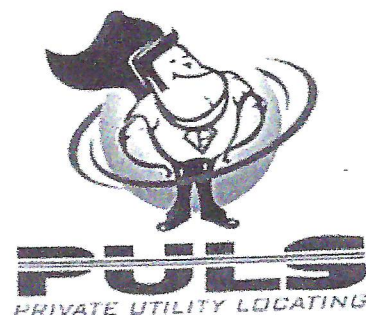




Project Summary – PULS, Inc. Electromagnetic (EM) and Ground Penetrating Radar (GPR) Locating Services Summary Report
Completed for: PES Associates
Work Location: Pool Outlet, 331 W. County Line Road, Hatboro, PA 19040
Work Completed on 5/15/2012

Scope

The project was on the grounds of UST in Hatboro, Pa. PULS performed Electromagnetic (EM) and Ground Penetrating Radar (GPR) utility scans of the site. The boundaries were highlighted in white on Client provided print "20120515_PES Assoc_Pool Outlet_331 W County Line Rd Hatboro Pa".

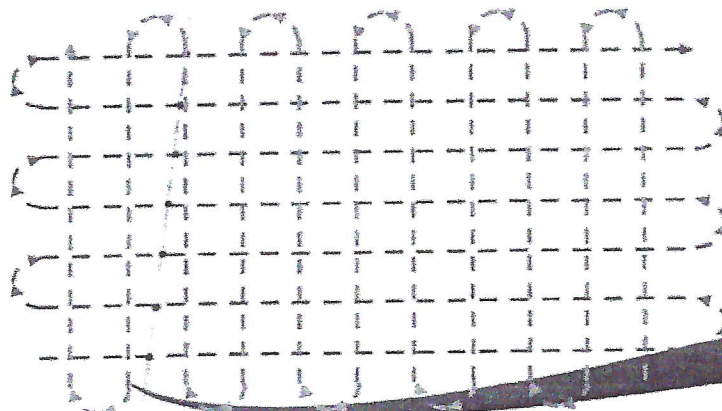
Equipment Used

- (EM): Metrotech 810A single frequency locator (82 Mhz)
- (EM): Radiodetection RD4000 multi-frequency locator (60, 512Hz, 8Khz, 33Khz, 65Khz)
- (GPR): Mala Geosciences GPR incorporating a single shielded antenna (1600 Mhz)

Methodology

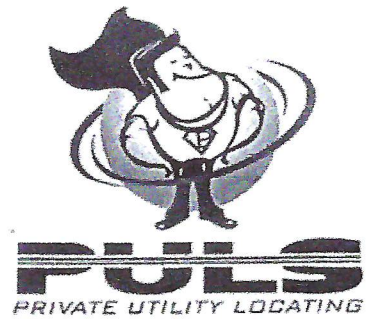
The PULS Technicians use the following methods for site investigation:

- If an access point for a utility is known, then the technician will apply an EM signal to the line and proceed to trace the line.
- If there is no access for a utility then the technician will use a combination of active and passive sweeps of the site, noting, locating and marking any utility line found.
- A GPR scan of the site will be completed using the following methods:
- The technician will run a series parallel GPR sweeps across the proposed area.
- The technician will move the GPR antenna over the surface looking for any subsurface structures, if a structure is found the technician will mark it and continue scanning.
- At the end of each sweep the technician moves approximately 24" over, reverses direction and performs a new sweep parallel to the previous one. Again, the technician will mark any subsurface structures as he/she scans the specified areas.
- Once all sweeps are complete the technician will note any subsurface structures on the ground (connecting the dots) and record this information on the records provided to PULS.
- The following is an example of the GPR sweeps:
 - The blue dashed line is the path of GPR antenna for the first sweep.
 - The green dashed line is the path of GPR antenna for the second sweep.
 - The red line with the red dots is an identified subsurface structure.



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Results of Work Completed

PULS Technician Dana Walton found the following utilities:

North Side of Building:

- Water Shut off (CC) and Water Meter Pit (blue)
- Unknown cinder block pit (pink)
- Located two former pump islands (outlined in white) and electric feeds (red)

West Side of Building:

- Unknown anomaly area outlined in white
 - Dug down approximately 8" to macadam surface

Technician did not locate any underground storage tanks using EM or GPR.

General Disclosure

PULS marked utilities along the path using a combination of EM and GPR utility locating equipment. The utilities were marked in accordance with APWA color codes.

The exception of the APWA coloring code was used for unknown utilities or structures. These were marked in pink. An unknown line is any line detected by PULS that cannot be identified in terms of utility type. Typically, these lines are found using a GPR.

Additional Notes or Comments

See attached Utility Plan "U-1.1".