

# GEO-TECHNICAL SITE INVESTIGATION

## Concrete Pipe Locating in Costa Rica using 2D Electrical Resistivity Imaging

## CASE HISTORY

**Objective:** Geotechnical site characterization of the area to correlate the results obtained through the 2D resistivity imaging and the information of the concrete aqueduct.

**Survey site:** San José - Costa Rica

**Instruments Used:** SuperSting™ WiFi R8/IP/SP, 42 electrodes at 3 meter spacing, using a combination of Dipole-Dipole and Schlumberger arrays.

**Software Used:** EarthImager 2D™



## BACKGROUND:

In February 2017, AGI hosted a seminar at the Costa Rican Institute of Aqueducts and Sewers (AyA). The main objective of the field test was to determine the geotechnical site characterization of the area where there are 8 wells that supplied water to the community. We also wanted to correlate the results obtained through the images of 2D resistivity imaging and the information of the wells.

## PROCESS:

The resistivity survey was performed with the help of AGI, using a SuperSting™ Wi-Fi R8/IP/SP instrument. We also used 42 electrodes at 3 meter electrode spacing with a mixed array of Dipole-Dipole and Schlumberger. The data was processed with EarthImager™ 2D software.



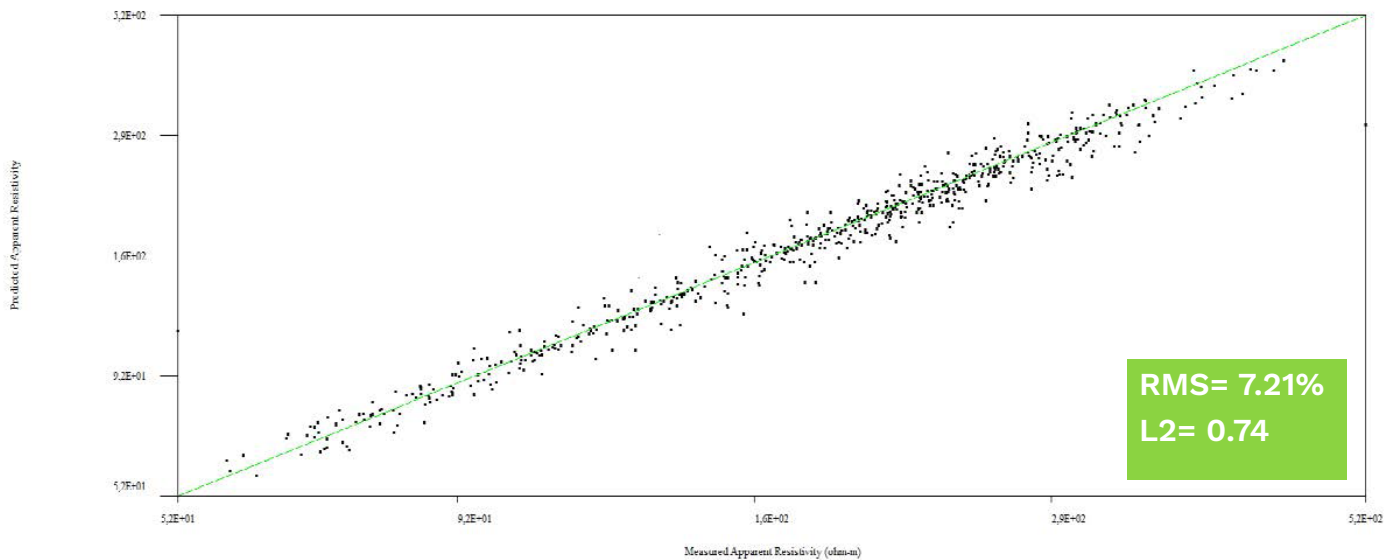
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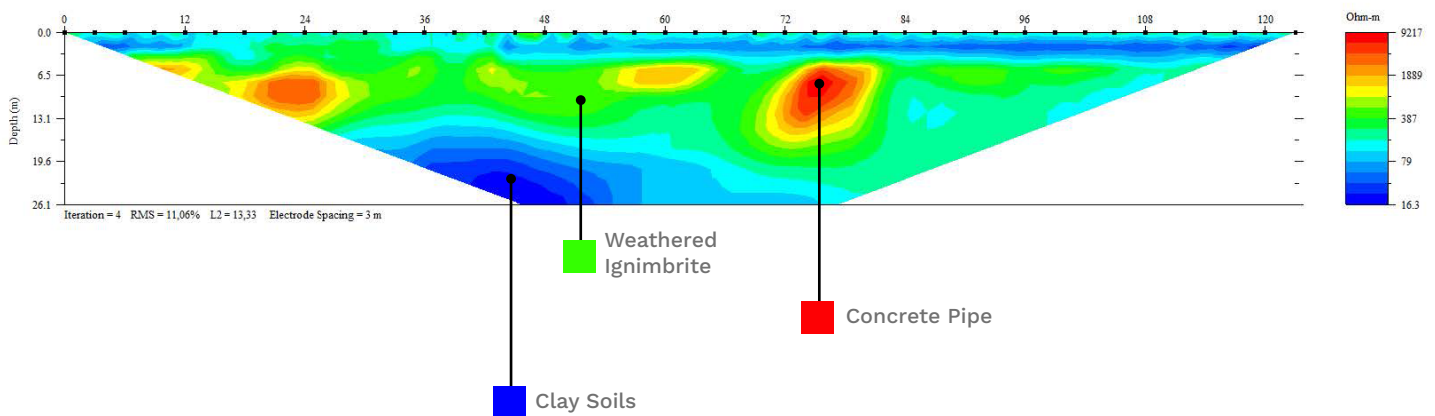
## RESULTS:

Crossplot of Measured vs Predicted Apparent Res. Data



The most outstanding result was the location of the old concrete aqueduct that supplies water to the Santa Ana community in San José, Costa Rica.

2D Inverted Resistivity Section



### CONTACT US TO LEARN MORE:

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