

Survey Scanner to Monitor Movement District 10

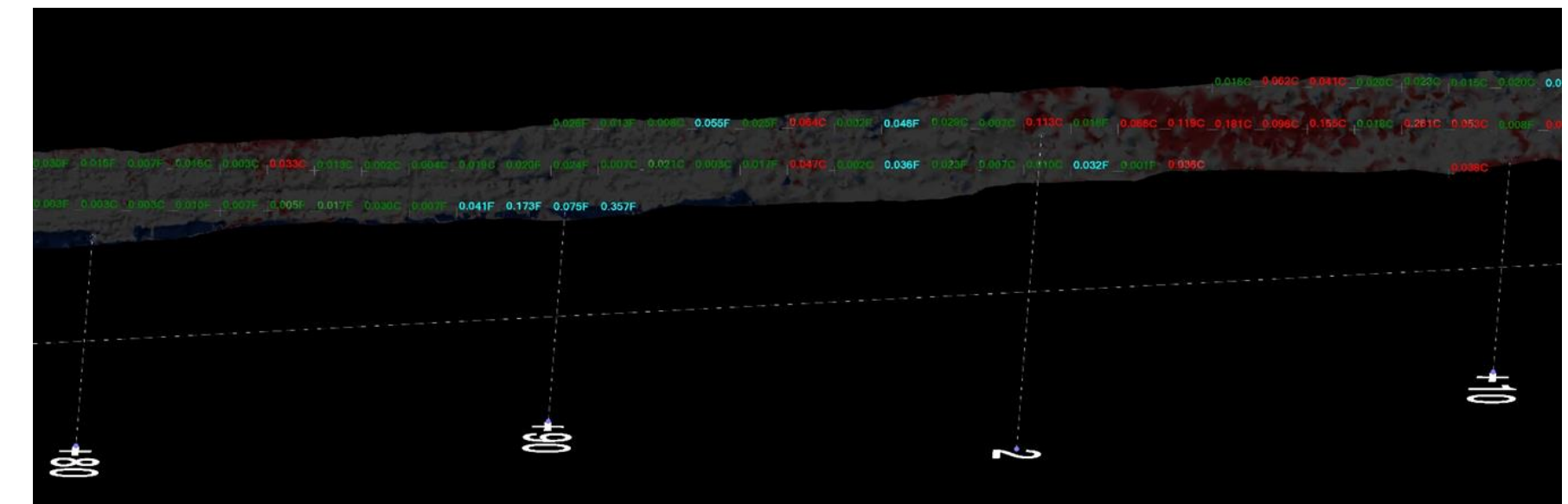
Problem/Challenge Addressed

The accuracy of these point clouds cannot be achieved by conventional measurements. When we would monitor movement previously, it would be very time consuming and focused on the area in question. When using the scanner, we get survey points on every aspect of the structure.

Method/Process/Product to Resolve Challenge

The survey crew has been utilizing the Trimble SX 10 scanner/robotic total station to monitor movement in two structures. The first scan establishes a baseline, then follow up scans are completed and compared to monitor movement.

Using Trimble Business Center (TBC) to process the point clouds, we are able to produce cut/fill maps to show any movement happening down to 0.010'.



Example of a cut/fill map showing movement down to .010'.

Results/Key Takeaways

Benefits include:

- Increased employee safety
- More accurate readings
- Number of points
- Quick scan/survey completion
- TBC software allows us to overlay/compare the scans

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