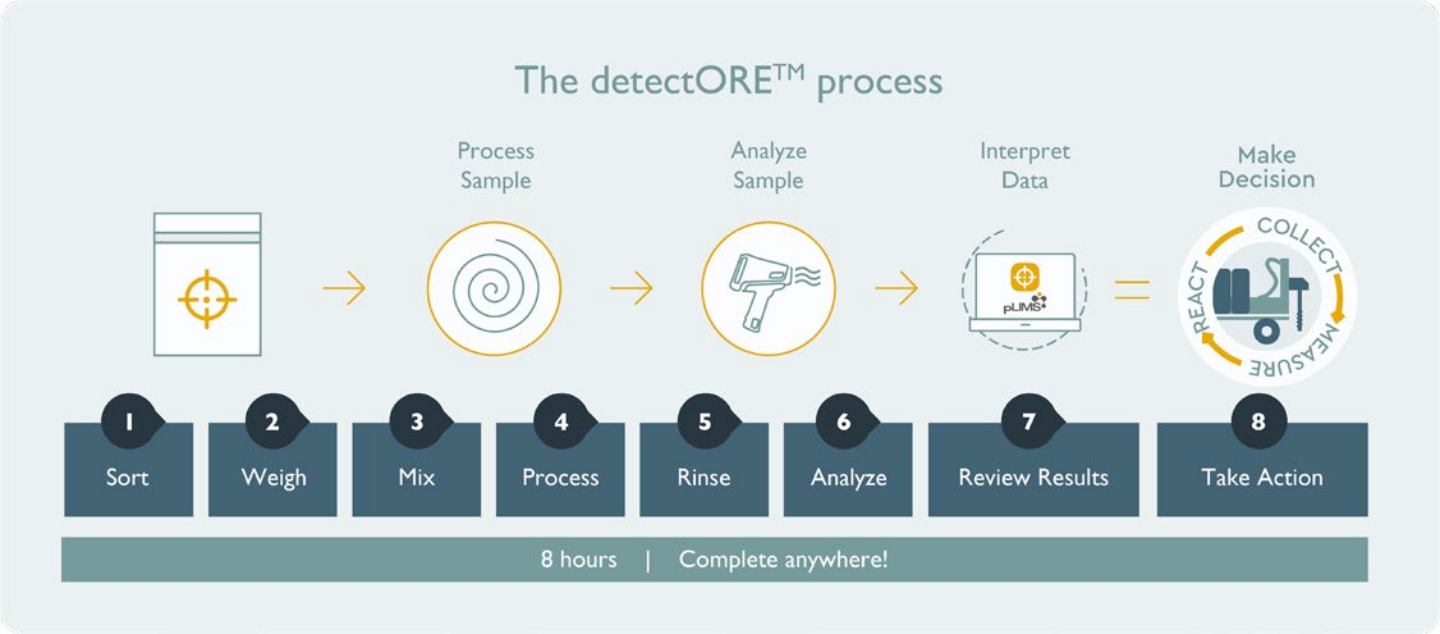
Fast, Low-Level Gold Assays Anywhere

Vanta™ pXRF Analyzer and Portable PPB's detectORE™ Technology



Detect Gold at Less than 20 Parts-per-Billion

The groundbreaking detectORE system combines portable XRF (pXRF) with Portable PPB's proprietary technology to obtain low-level gold (< 20 ppb) data in fewer than eight hours.

How It Works

The detectORE process is fast and simple and takes around eight hours. Geological samples are combined with water and leaching chemicals then mixed for a set period. Gold is adsorbed onto a collector, which is then analyzed using an Olympus Vanta™ pXRF analyzer that is connected to Portable PPB's pLIMS software. The results feed into Portable PPB's proprietary calculations that inform the gold results. Once the results are ready, they are sent to the customer.

detectORE Technology and Vanta pXRF

Portable PPB chose the Vanta analyzer to use as part of their research and development (R&D) process when refining the detectORE system. Our previous-generation DELTA™ pXRF analyzer was used during detectORE technology's proof of concept development.

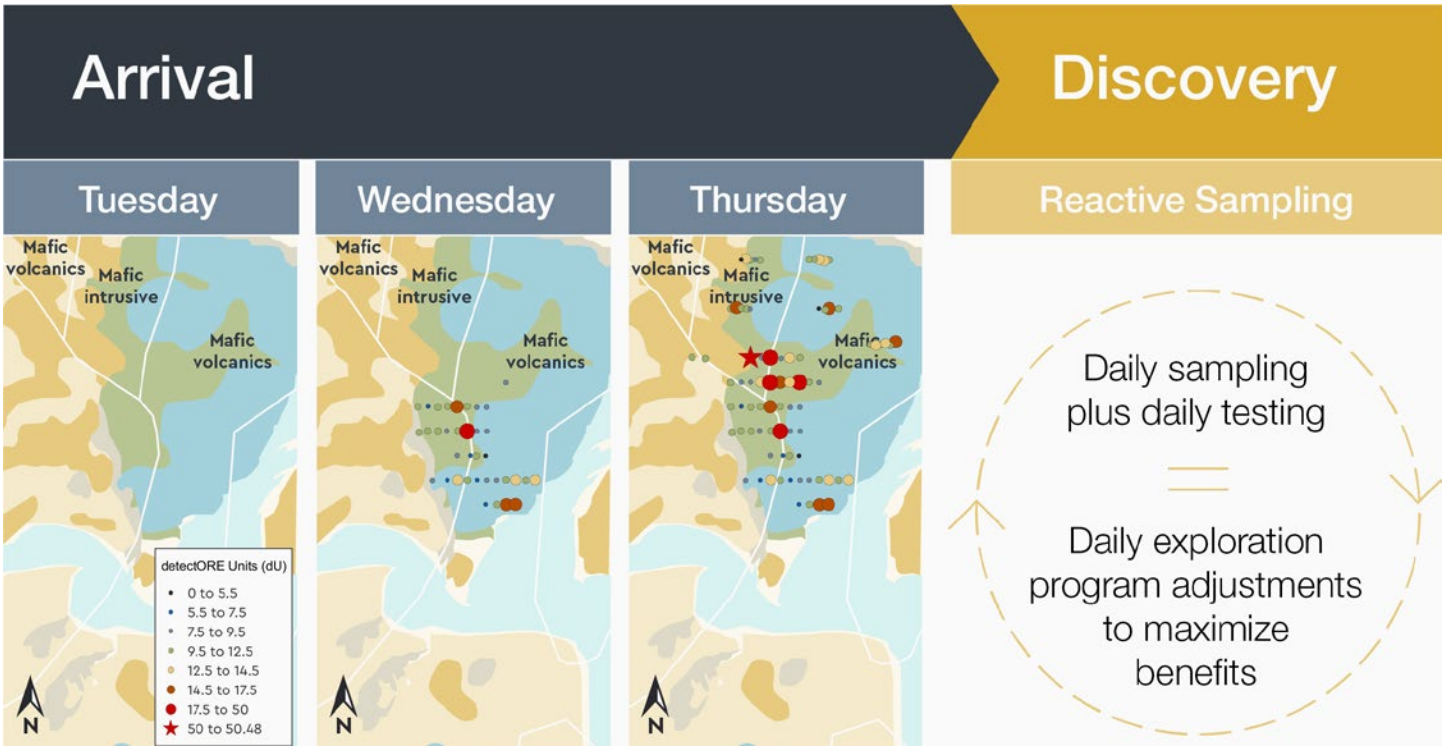
PORTABLE PPB

detectORE™
explore smarter, discover faster

Vanta™ analyzers support detectORE™ technology R&D:

- Customized detectORE calibrations for the detectORE process
- First pXRF to provide customized calibrations for the detectORE process
- Repeatability proven by Portable PPB using four Vanta analyzers over three years
- Proven reliability and analytical stability at extreme temperatures

Figure 1: Analysis of a detectORE™ collector device in a Vanta Work Station using PPPB pLIMS software.



Certified to ISO 9001, ISO 14001, and OHSAS 18001.

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