AquiferTest Pro

Pumping & Slug Test Analysis, Interpretation, and Visualization Software

AquiferTest Pro is an easy-to-use software package for analyzing, interpreting, and visualizing pumping and slug test data. AquiferTest Pro offers all the tools needed to accurately interpret data from all types of aquifers in all types of test conditions.



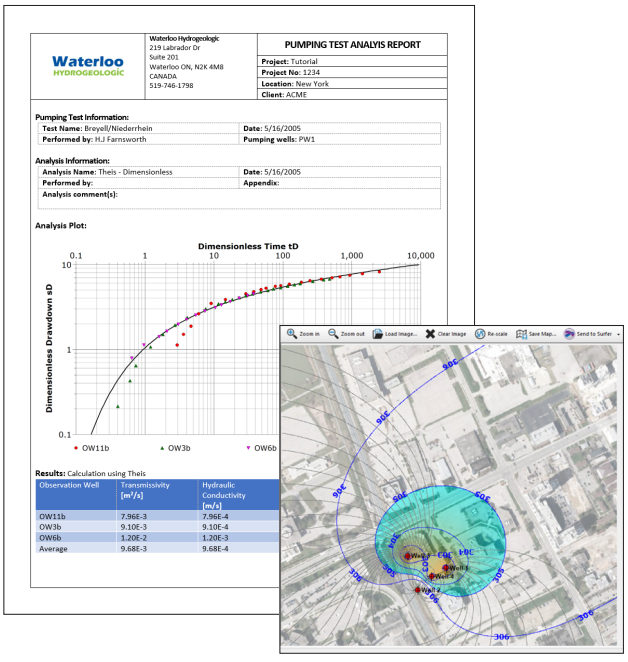
Why Choose AquiferTest Pro?

Benefits:

- Achieve an accurate analysis of aquifer conditions in less time.
- Gain a better understanding of aquifer conditions.
- An all-in-one application means you do not need to invest in additional tools for pumping/slug test data analysis.

Applications:

- Analyze pumping test, slug test, or Lugeon test data to estimate hydraulic conductivity, transmissivity, storativity, specific yield and other hydraulic aquifer/aquitard parameters based on applicable analytic solutions.
- Assess and compare pumping test data using a wide number of solution methods for an improved understanding of the aquifer.
- Predict drawdown at planned well locations.
- Contour pumping and observation drawdown and well interference from one or more pumping wells.
- Prepare professional pumping test and slug test analysis reports.



Advanced Features:

- **Data Import**: Import from Excel, ASCII, text, and data loggers.
- **Data Correction**: Trend correction, data reduction.
- **Automated Curve Matching**: Manual or automated curve matching for both drawdown and derivative data.
- **Derivative Analysis/Diagnostic Plots**: Gain more insights into the test data via on-the-fly comparison of observed data and diagnostic graphs for an easy assessment of the aquifer and well conditions.
- **Mapping & Contouring**: Prepare maps including predicted drawdown, and well interference in a few mouse clicks.
- **Automated Reporting**: All your analyses are automatically summarized in a professional print-ready report.

A Complete Set of Analytical Solutions

- **Confined**: Theis, Cooper-Jacob.
- **Unconfined**: Neuman, Boulton.
- **Leaky**: Hantush-Jacob, Hantush with Aquitard Storage.
- **Fractured Flow**: Warren-Root, Moench.
- **Wellbore**: Papadopulos-Cooper, Agarwal.
- **Recovery**: Agarwal Recovery, Theis Recovery.
- **Production Well Analysis**: Specific Capacity Tests.
- **Step-Drawdown Tests**: Hantush-Bierschenk.
- **Horizontal Wells**: Clonts & Ramey.
- **Slug Tests**: Hvorslev, Bouwer-Rice, Cooper-Bredehoeft-Papadopulos, Butler High-K, Binkhorst-Robbins, Dagan, Ramey-Agarwal-Martin, Mench & Hsieh.

Evaluate Multiple Pumping Test & Aquifer Conditions

- **Aquifer Types**: Confined, unconfined, leaky or fractured.
- **Extent**: Infinite, recharge boundary, or barrier boundary.
- **Isotropy**: Isotropic or anisotropic.
- **Discharge**: Variable or constant rate pumping.
- **Well penetration**: Full or partial aquifer penetration.
- **Data Type**: Drawdown or recovery.
- **Packer Tests**: Lugeon tests.

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