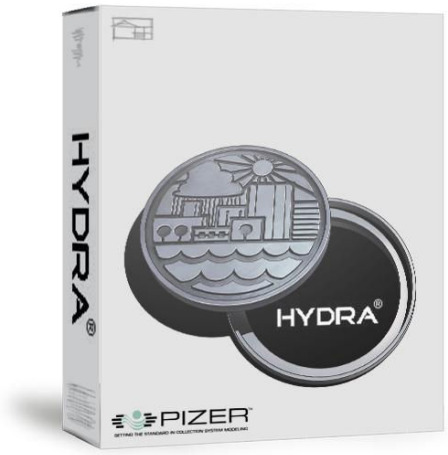
HYDRA® Version 7

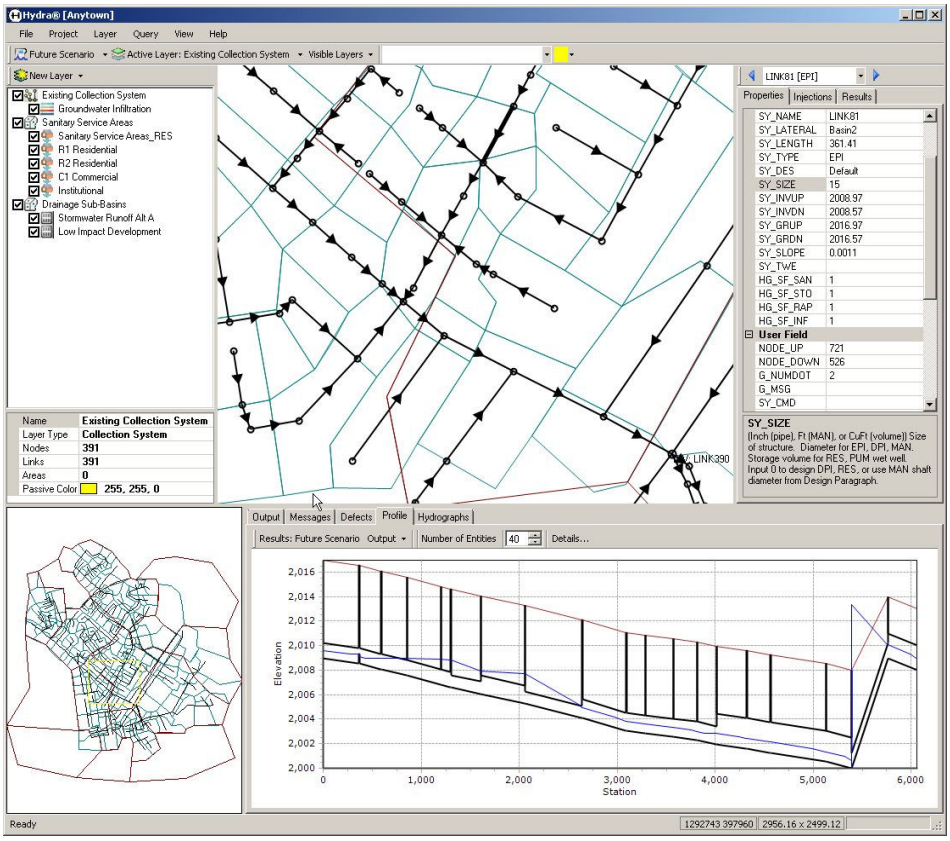
Next-Generation Software for Storm and Sanitary Sewer Modeling

Building on a proud tradition of nearly 40 years, version 7 of Hydra® software by Pizer Inc continues to set the standard in collection system modeling software. An easy-to-use interface combined with powerful analysis features makes Hydra ideal for the occasional user as well as the specialist. Hundreds of municipalities, large and small, have successfully used Hydra's innovative *Design-Solution Approach* for their sewer improvement projects. There is simply no other hydraulic modeling package as flexible, powerful, and easy to use as Hydra.



An interface designed for productivity

Hydra uses the latest interface design elements, including flexible sizing to allow you to optimize your work space by arranging your program windows and graphical settings to fit your project data and your viewing preferences. Data input fields and dialog boxes are self-explanatory and have convenient links to relevant Help topics. Whether you are working on a collection system of dozens of pipes or thousands, you'll find it easy to navigate your collection system, input data, and review information.



Works well with GIS & CAD

Easily create new Hydra modeling layers from your GIS or CAD, and keep your Hydra model synchronized as your GIS or CAD data is updated. A graphical interface allows you to map fields between your external database and Hydra and add your own fields to the Hydra database. Quickly export your Hydra data out to GIS or CAD for your final report of modeled scenarios.

Scenario-Oriented

From the start of your project, you can create and save multiple named analysis scenario alternatives, with different data layers, flow injections, hydraulic settings, rain events, etc. The Project Elements window shows the properties of each graphical layer and each flow injection used in the current analysis scenario. As input data is updated, just click the Analyze button to re-run hydraulic analysis. Easily add or remove specific flows to the current scenario, such as for a development impact study.

PIZER™ SETTING THE STANDARD IN COLLECTION SYSTEM MODELING

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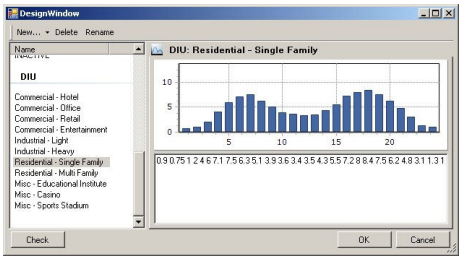
Hydra Sewer Modeling Software Version 7 New Features

Flexible graphical layers and flow contribution data

You decide which data layers to use, what to call them, and how to organize your flow injections. In addition to the collection system layer, you can have any number of polygon layers to represent sub-area boundaries, or point layers to represent sub-area centroids, specific parcels, or other point flows. Any layer in the model, including the collection system layer, can have flows of any type – sanitary, infiltration, stormwater, and inflow – in any combination. Each pipe, point, or area polygon may have any number sanitary injection sets to represent different types of land uses (office, retail, hotel, residential single-family, multi-family, schools, etc.) and use population, volume, units, area, or flow rate data.



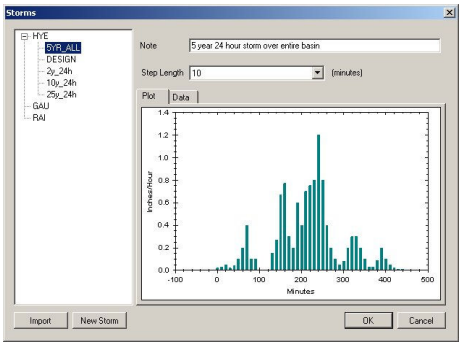
Use any number of sanitary diurnal curves in your project

Drawing capability within Hydra

As an alternative and supplement to using a separate CAD or GIS program, you can use the drawing editor within Hydra to create new graphical layers, draw lines for pipes for the collection system, delineate areas with polygons, or add nodes or point flows. On existing layers, you can add, delete, or move graphical entities.

Profile and hydrograph windows

Size the Profile and Hydrograph window to show the needed level of detail for screen display and printing, or move the window to your second monitor. Zoom and pan within the window to see more detail. Select the number of links to display in the pipe profile window. The pipe inverts and ground elevations display in the Profile window as soon as you input the data.



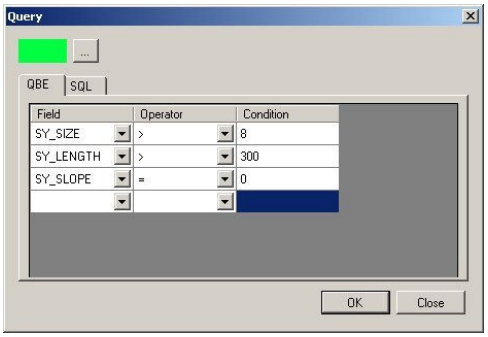
Add stormwater inflow to any layer in your project

Full data checking and dynamic error reporting

Before running hydraulic analysis, Hydra checks your data to make sure it is complete and within expected ranges. Significant data processing functions are reported. Simply double click on errors, warnings, and messages from the data check to find the data record needing correction.

Extensive query features

Hydra has extensive features for querying and updating your database. From "Quick Queries" to powerful SQL queries, you'll be able to find the information you need from your model and quickly create impressive displays, such as highlighting all overloaded 12-inch pipes in red. The Query menu gives you easy access to pre-made queries of every type.



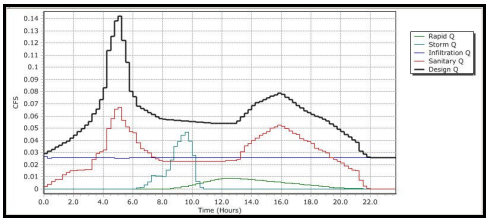
Query-builder helps you create color-coded selection sets

Powerful hydraulic analysis

Hydra uses a unique *Design-Solution Approach* to hydraulic analysis, which has proven to be a practical alternative to the so-called "fully dynamic" analysis of other modeling software. In fact, Hydra's approach is superior in many ways:

- Calculates head losses accurately for backwater analysis
- Efficient hydraulic analysis. Fast enough for full-system analysis
- Complete results data for every entity in the system
- Uses multiple hydrographs for easier model calibration
- Superior design capability
- Gives you solutions for overflow problems

For more information on the advantages of Hydra, please read our white paper "The Hydra Difference: Understanding Hydra's Design-Solution Approach"



Four types of hydrographs: Sanitary, Storm, Groundwater, Rapid Infiltration

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