



WATER DISTRIBUTION SYSTEMS PROJECT WORKFLOW CHECKLIST

Our communities depend on reliable water network systems. You depend on reliable software to design them.

It's a good idea to run periodic check-ups on your water software solutions to see where you can make improvements. Ensuring your software can successfully help you plan, analyze, prepare, and design water systems can make a big difference in the quality of project outcomes. A healthy software program allows you to meet adequate levels of pressure and flow in your designs to build efficient, reliable, resilient, and economical water infrastructure systems.

Infrastructure must be built to last. Keeping it optimized, effective, and efficient from the start will help you and your clients save money in the long run. That means ensuring all possible future impacts and stresses are considered before construction. After it is built, constant evaluation is necessary to locate where maintenance or operational adjustments are needed.

Use the checklist below to compare your current software with a Virtuosity subscription of OpenFlows™ WaterGEMS®. Learn where you are saving time, improving designs, optimizing, and creating exceptional reports, and where you are coming up short. Identifying improvements in your system will help you save money, build an impeccable reputation with your clients, and win more business.

The benefits of an optimized water distribution modeling solution:

	OpenFlows™ WaterGEMS®	Current Software
Connect and leverage virtually any digital data format (geospatial data, CAD drawings, databases, and spreadsheets)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Collaborate with other professionals by accessing a single, shared project data source	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Have platform flexibility (standalone, MicroStation, AutoCAD, ArcMap, and ArcGIS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Compare alternatives and scenarios for your project	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Create and build your hydraulic model	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Extended Period Simulations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run Static Simulations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Master plan system expansions with more confidence by comparing and analyzing multiple scenarios	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Size system pipes with optimized algorithms	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analyze the system storage for your water supply system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analyze the pressure and flows of your system to meet regular operation and emergency situations	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Compare and analyze multiple pumping configurations (single pump, pumping stations, and variable speed pumps)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Determine the available fire flow across the entire system	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Run water quality simulations (Water Age, Multi-Species, Trace Analysis, and Constituent Analysis)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Find and define district-metered areas (DMAs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>



	OpenFlows™ WaterGEMS®	Current Software
Identify and analyze pressure zones	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Optimize pumps operations and scheduling to maximize efficiency and lower costs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Create Pipe Rehabilitation and Renewal Plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Optimize model calibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Identify leakages using optimized hydraulic model analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Define Conditions, Actions, and Control Sets to optimize the system operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Publish results using maps, graphs, tables, animations, and other data, then output to nearly any format	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Connect a hydraulic model to SCADA signals to easily compare simulated and measured results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Access to customizable training and support from water experts at no additional costs	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If any of the items above were left unchecked with your current software, you should consider Bentley's OpenFlows WaterGEMS. All of this functionality, plus the inclusion of training and support with your Virtuosity subscription, means you and your team will reap the benefits of a more optimized workflow in no time.



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