

## Q&A from 'Deep Dive: Is Causeway Flow the right fit for you?'



**Question: I have used Flow to model a retention pond whereby I have used depth/area/infiltration area as a node for storage and I had results for the node volume. How does that compare with a flow-through pond where by we have storage volume indicated by the link volume?**

Answer: The volume of a Flow-through pond is displayed in the Link Volume column on the Results page while the traditional design using Depth/Area/Inf Area is shown as a node volume. This is because Flow-through Pond structure supports multiple inlets and an outlet in its true geographical location and the exact shape and dimension of the structure including the Manning's n for roughness associated with the vegetation or surface, which makes it function as any regular link structure.

**Question: What are the main advantages of Causeway Flow over MicroDrainage?**

Answer: Causeway Flow is a lot more flexible in allowing any design to be accomplished. It is possible to specify a design as either following design 'best practice' or 'breaking' guidelines. This means users can design any network imaginable, making it completely flexible with no barrier and without having to adhere to old systems (and sometimes obsolete software architecture). The main benefit for this is ability to model complex (non-dendritic) networks that contain nodes with multiple outgoing connections, bifurcations, parallel runs, or looped systems. This also means users can mix and match designed and existing network segments and simulate as routine without requiring extra or external tools.

There's also the ability to design Flow-through Pond structure supports multiple inlets and an outlet in its true geographical location and to draw the exact shape and dimension of Flow through Pond structure. Making Flow the only software that supports the exact shape and dimension of Storage/infiltration in its true geographical locations using our Flow Through Pond technology.

Flow utilises a robust, accurate and stable engine called SWMM 5 which uses dynamic wave routing method (EPA SWMM 5, which is public domain software made by the United States Environmental Protection Agency (EPA). SWMM 5 is designed with a flexible set of hydraulic modelling capabilities to deal with various flow regimes such as surcharging, channel storage, backwater, reverse flow, pressurised flow, and surface ponding.

It is possible to define separate online controls for each outgoing link. It is also possible to create a full 3D BIM model that includes thicknesses, bedding and surround materials, trench backfill, etc. Users can also create a complete model of quantities and costs and reliable clash detection. The software also updates automatically to reflect changes. Therefore, it is possible to deploy full BIM compatibility.

**Question: What are the main advantages of Causeway Flow over InfoDrainage?**

Answer: The main advantage over InfoDrainage is that Causeway Flow has added flexibility as the architecture allows users to design any SuDS structure without the need to have a template or fixed structure types. The Flow-through Pond structure design capability is more advanced in Causeway Flow as well as the ability to create a full 3D BIM model.

**Question: You mentioned the design of a french drain in Causeway Flow. What is the best way to design this? I have seen it designed integrated with a car park. Is this correct?**

Answer: You can define French drains by creating a link type in Causeway Flow with open- and closed- user definable shapes supported. You can download the file here: [Link & MH Libraries\\_rev4.pfd](#)

**Question: Is the link types shown in the demo accessible to users? How can I obtain a copy?**

Answer: You can download the library files here: [Libraries.pfd](#) and [Link & MH Libraries\\_rev4.pfd](#)

**Question: Is there on-going support and training provided for the software by Causeway?**

Answer: We offer a range of different training styles to suit any size company; from set courses, to bespoke sessions tailored to your individual business practices, and shared classroom-style delivery, at an affordable price. You can [view our training courses here](#).

We also provide on-going support for our customers via a dedicated Account Manager, our 24/7 support portal, over the phone and email.

**Question: Does the 3D BIM package come with an extra on my drainage package?**

Answer: The 3D BIM capability is part of our Enterprise bundle. For more information, [request a callback](#).

**Question: How easy is it to model a complex flow control i.e. to achieve maximum out flow rates for the 1:1, 1:30 and 1:100**

Answer: Complex/compound control can be designed very intuitively in Flow as you can design multiple controls on the same node at multiple levels. It is also possible to use a calculator built specifically to support Complex/compound control which allows the calculation of overall discharge at differing depths.

**Question: I have often asked for .mdx files so I can analyse using MicroDrainage. Can .mdx files be imported and if so, how successful is the conversion?**

Answer: Yes, any legacy data is fully supported as you can import any MDX, SWS, EWS and FWS files and export MDX, EWS and FWS files.

**Question: Can you simulate flows in foul network? Not just size new pipes e.g. model flow in existing pipe new network connects to**

Answer: Yes you can simulate foul networks by setting your own simulation run time.

**Question: How does the licencing work? Do we need a dongle?**

Answer: Causeway operates on a subscription cloud-based licencing model (that's right - no dongles!) that can save you from big upfront costs. Additionally, licences are shareable with multiple users, machines and locations. For more information, [request a callback](#).

**Question: How many people can access the software at once?**

Answer: A single licence allows multiple users. However, only one user can access either Flow or SmartTools concurrently.

**Question: How much is a licence?/Is it possible to have a trial version for free?**

Answer: We're delighted that you're interested in Causeway Flow as your drainage design solution. Let us call you back to discuss your needs at a time that's convenient for you - email [marketing@causeway.com](mailto:marketing@causeway.com) or [fill in this form](#).