

MUSIC v6: offering more capable and tailored stormwater planning for urban areas



MUSIC is software that helps developers and planners devise water sensitive urban designs (WSUD) and integrated water-cycle management capability (IWCM) to manage urban stormwater. Thousands of professionals working on stormwater management across Australia use MUSIC. In some states MUSIC is mandatory for designing new urban developments.

Innovative functional and visual changes in MUSIC version 6 give you improved modelling performance and a more robust user interface, as well as substantial timesaving possibilities.

MUSIC lets you conceptually choose appropriate sizes for stormwater infrastructure options — swales, tanks, rain gardens, wetlands, etc. — until the design meets or exceeds appropriate standards for stormwater volume and pollutants.

MUSIC can model a wide range of treatment devices to identify the best way to capture and reuse stormwater runoff and remove its contaminants — and reduce runoff frequency. With MUSIC you can evaluate these treatment devices to achieve WSUD and IWCM goals.

You can apply MUSIC at a range of catchment scales. By using it to compare alternative designs you can confidently decide on those that give the best outcomes — in cost as well as hydrology and receiving-water quality.

And with the new feature MUSIC-*link* your MUSIC v6 design will be tailored to (participating) Local Government Authorities' requirements.

KEY FEATURES:

- MUSIC-*link*, for streamlined planning and assessment of water sensitive urban designs.
- Integration of calculations previously done outside the software.
- Improved usability.

Want to know more?

Go to our website at www.ewater.org.au/music
T: 1300 5 WATER (1300 592 837) or +61 2 6201 5057 (outside Australia)
E: support@ewater.org.au

MUSIC:
**Model for Urban Stormwater
Improvement Conceptualisation**

With MUSIC you can:

- simulate stormwater flows and detention from lot-scale to suburb-scale
- estimate the potential for stormwater harvesting and reuse, and the effects on downstream flows and water quality
- model pollutants including suspended solids, total phosphorus and total nitrogen, and estimate the impacts of various treatment options
- model water balance
- compare the water-quantity, quality and cost vs benefit objectives achieved by alternative treatment-train scenarios
- plan entire stormwater systems.

New features in MUSIC v6

MUSIC-*link* is the major new feature in MUSIC v6. In areas where councils' requirements are built into MUSIC v6, MUSIC-*link* offers significant time-saving and convenience in designing and assessing plans of stormwater treatment systems.

music *e*link

New capabilities in MUSIC v6 let you:

- import external time-series flow data on source nodes, and then use MUSIC to predict water quality;
- specify an initial volume for all storage nodes; in earlier versions of MUSIC you had to assume the storage was full at the beginning of a run — now MUSIC v6 provides greater flexibility;
- include a maximum drawdown limit for all storage nodes with stormwater harvesting options — to preserve wetland plants, for instance;
- estimate the surface area for a sedimentation basin and the inlet volume for wetland nodes, allowing you to design these stormwater features using WSUD guidelines within MUSIC;
- add multiple rainwater tanks (with the same properties) in a model, improving usability;
- include flow-based capture efficiency for the gross pollutant trap and generic nodes, allowing for improved handling of pollutants; and
- apply additional properties in the vegetated swale node, including swale capacity; this means it is easier to see the results of changing parameters, so modellers can better understand the characteristics of swales without reference to external software or calculations.



Want to know more?

Find out more at www.ewater.org.au/music

May 2016 © eWater Ltd

Sales, support & training

T: 1300 5 WATER (toll free in Aus) or +61 2 6201 5057

E: support@ewater.org.au