# **Using MUSIC-***link* for Onkaparinga City Council

In order to improve the development assessment process with regards to Water Sensitive Urban Design, Council is working with eWater to simplify the process of developing Stormwater Treatment Strategies.

The use of **MUSIC-link** can simplify the development and assessment of MUSIC models.

As such, Council encourages proponents to utilise the **MUSIC**-link function when preparing MUSIC models for proposed developments within the Onkaparinga City Council.

When Onkaparinga City Council is assessing a development proposal, we must check that it complies with our Water Sensitive Urban Design policies. While eWater's **MUSIC** software makes it possible to achieve compliance with the targets and parameters, the assessment and refinement process has traditionally been iterative and time-consuming.

The main benefit of **MUSIC-***link* is that developers and consultants can design their stormwater management infrastructure and then immediately validate it (within the software) to ensure that parameters fall within the limits of Onkaparinga City Council's requirements. On receiving a submitted design and related validation report, our Development Assessment team can immediately check for compliance with our standards. If the design is compliance, it can be passed onto engineers for detailed evaluation.

**MUSIC-***link* streamlines the process of achieving a match between the Onkaparinga City Council's specific guidelines and urban developers' water sensitive designs. This shortcut bypasses the traditionally iterative process, where assessing authorities returned models to developers to be amended and re-submitted until they are suitable for engineering evaluation. MUSIC-*link* allows Onkaparinga City Council to:

- Apply a simple, robust and quicker process of WSUD assessment, helped by the compliance report that MUSIC-link provides with designs;
- Communicate clearly and directly with developers and designers, providing locally specific WSUD requirements and modelling parameters;
- Provide increased levels of redundancy for model assessment; and
- Build capacity and support policy redundancy to support longevity.

### Using MUSIC-link

**MUSIC-***link* forms part of the standard **MUSIC** v6 interface, and can be accessed using the **MUSIC-***link* tab (shown below) in the main interface.

#### MUSIC-link tab



Validate MUSIC-link Model

Working with **MUSIC-***link* is a two-step process:

- 1. Create and run your MUSIC model; and
- 2. Validate you model against the set of pre-defined parameters for a particular assessing authority.

## Creating a MUSIC model

When creating a **MUSIC** model for inclusion in the validation process, you can choose one of two methods: either create a standard model, or directly create a **MUSIC**-*link* model, as described below.

#### Create a standard model

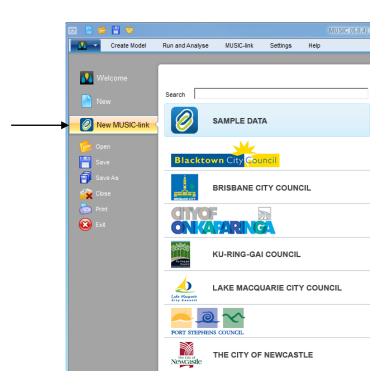
- Choose a standard meteorological template that is available with **MUSIC**;
- Build and run your MUSIC model;
- In the MUSIC-link tab, click Configure and choose Yes to convert the existing model to a
   MUSIC-link model;
- Choose Onkaparinga City Council and the associated meteorological template from the **MUSIC-***link* Configuration window that opens (as per below diagrams); and
- Then, initiate the validation process. Refer to Validating the **MUSIC-link** model for details.

## Directly create a MUSIC-link model

- Choose **New MUSIC-link** from the main **MUSIC** tab;
- Choose the Onkaparinga City Council option from the drop down list and the associated meteorological template (as shown below);
- Build your model; and
- Then, initiate the validation process. Refer to Validating the MUSIC-link model for details.

**Note:** When using MUSIC-link, nodes with import flows do not contribute to the total areas or the impervious percentage calculations

Access to **MUSIC-***link* with the names of assessing authorities from main **MUSIC** tab (only a partial list is shown in this figure)



# Self-Validating the MUSIC-link model (Prior to lodgement with Onkaparinga City Council)

Ensure that your **MUSIC** model has been created with Onkaparinga City Council inputs prior to validating it. Once you have created your model:

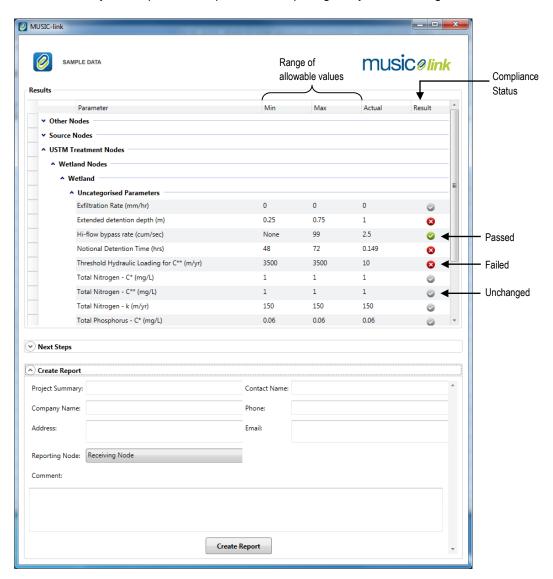
- 1. Choose the MUSIC-link tab and click Run MUSIC-link; and
- 2. Once the model has been run, the **MUSIC-***link* window appears showing the validation report (see below).

# Validation report

A report is generated on completion of a validation run (as shown below). The top half of the report provides details of the validation result. It shows the compliance status of each parameter, which indicates whether the result in within the allowable range. An unchanged result indicates that this value has not been modified by the user (default value used during model run), and hence, it has no effect on overall compliance.

You can now do the following with the report:

- Click Create Report to expand a form, where you can enter details of the project &
  associated notes as well as contact details for those who are submitting the model & report. A
  report will only be generated (and can be saved in a PDF format) if all the parameters are
  compliant, or you have provided an explanation to justify why parameters are non-compliant
  (using the Comment field)
- Click **Next Steps** to expand the report for Onkaparinga City Council lodgement Instructions.



# Lodgement of your MUSIC model and MUSIC-link Report to Onkaparinga City Council

If the MUSIC model meets the reportable parameter requirements for Onkaparinga City Council's setup configuration and targets, proceed as follows:

- 1. Create/Generate a Onkaparinga City Council **MUSIC-***link* PDF report for submission with your model;
- 2. Submit your self-validated **MUSIC** model along with the Onkaparinga City Council **MUSIC-** *link* PDF report to Onkaparinga City Council as part of your Development Application.

If the parameters and/or targets are outside the required ranges and you believe the use of these parameters or the output results can be justified, please follow the steps below:

- Generate a Onkaparinga City Council MUSIC-link PDF report for submission with your model. NOTE: Any parameter breaches must be justified for the model to be considered by Onkaparinga City Council;
- 2. Provide reasons for model assumptions that are outside of default parameter ranges in the **Comments** section; and/or
- 3. Submit your self-validated **MUSIC** model along with the Onkaparinga City Council **MUSIC-** *link* PDF report to Onkaparinga City Council as part of your Development Application.

All material submitted must be in accordance with Onkaparinga City Council's DA submission

#### **Further Assistance:**

If you require further assistance with utilising MUSIC-link Onkaparinga City Council, please contact eWater support on 1300 92 837 support@ewater.org.au or Onkaparinga City Council on 08 8384 0168 Judnir@onkaparinga.sa.gov.au, during office hours.