

MUSIC-link Report

| Project Details | | Company Details | |
|---------------------------------|------------------------------------|-----------------|--|
| Project: | | Company: | |
| Report Export Date: | 02/09/2021 | Contact: | |
| Catchment Name: | RE 1 link | Address: | |
| Catchment Area: | 0.818ha | Phone: | |
| Impervious Area*: | 91.76% | Email: | |
| Rainfall Station: | 67113 PENRITH | | |
| Modelling Time-step: | 6 Minutes | | |
| Modelling Period: | 1/01/1999 - 31/12/2008 11:54:00 PM | | |
| Mean Annual Rainfall: | 691mm | | |
| Evapotranspiration: | 1158mm | | |
| MUSIC Version: | 6.3.0 | | |
| MUSIC-link data Version: | 6.34 | | |
| Study Area: | Penrith | | |
| Scenario: | Penrith Development | | |

* takes into account area from all source nodes that link to the chosen reporting node, excluding Import Data Nodes

| Treatment Train Effectiveness | | Treatment Nodes | | Source Nodes | |
|-------------------------------|-----------|--------------------------|--------|--------------------------|--------|
| Node: Receiving Node | Reduction | Node Type | Number | Node Type | Number |
| Flow | -0.0451% | Sedimentation Basin Node | 1 | User Defined Source Node | 4 |
| TSS | 90.2% | GPT Node | 2 | | |
| TP | 67.9% | Generic Node | 1 | | |
| TN | 47.3% | | | | |
| GP | 100% | | | | |

Comments

RE1

Passing Parameters

| Node Type | Node Name | Parameter | Min | Max | Actual |
|---------------|-------------------------|-------------------------------|------|------|--------|
| GPT | 1x OceanGuard | Hi-flow bypass rate (cum/sec) | None | 99 | 0.02 |
| GPT | 6x OceanGuard | Hi-flow bypass rate (cum/sec) | None | 99 | 0.12 |
| Receiving | Receiving Node | % Load Reduction | None | None | -0.04 |
| Receiving | Receiving Node | GP % Load Reduction | 90 | None | 100 |
| Receiving | Receiving Node | TN % Load Reduction | 45 | None | 47.3 |
| Receiving | Receiving Node | TP % Load Reduction | 60 | None | 67.9 |
| Receiving | Receiving Node | TSS % Load Reduction | 85 | None | 90.2 |
| Sedimentation | SF Chamber AREA20 S.Q.M | High Flow Bypass Out (ML/yr) | None | None | 0 |

Only certain parameters are reported when they pass validation

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council
MUSIC-*link* now in MUSIC by eWater – leading software for modelling stormwater solutions

Failing Parameters

| Node Type | Node Name | Parameter | Min | Max | Actual |
|---------------|-------------------------|-----------------------------------|------|------|--------|
| Sedimentation | SF Chamber AREA20 S.Q.M | Notional Detention Time (hrs) | 8 | 12 | 1.16 |
| Sedimentation | SF Chamber AREA20 S.Q.M | Total Nitrogen - k (m/yr) | 500 | 500 | 1 |
| Sedimentation | SF Chamber AREA20 S.Q.M | Total Phosphorus - k (m/yr) | 6000 | 6000 | 1 |
| Sedimentation | SF Chamber AREA20 S.Q.M | Total Suspended Solids - k (m/yr) | 8000 | 8000 | 1 |

Only certain parameters are reported when they pass validation

NOTE: A successful self-validation check of your model does not constitute an approved model by Penrith City Council
MUSIC-*link* now in MUSIC by eWater – leading software for modelling stormwater solutions