

MUSIC-link Report

Project Details		Company Details	
Project:	E286341 - No.21-25 Woordriff Street, Penrith	Company:	Donovan Associates
Report Export Date:	29/09/2016	Contact:	Scott Sharma
Catchment Name:	2016.09.29- 21-25 Woodriff Street	Address:	15 Parkes Street, Parramatta
Catchment Area:	0.273ha	Phone:	02 9806 3000
Impervious Area*:	81.3186813186813%	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:	6.1.0		
MUSIC-link data Version:	6.0		
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	5.46%	Sedimentation Basin Node	1	Urban Source Node	8
TSS	86.4%	Rain Water Tank Node	1		
TP	62%	GPT Node	2		
TN	47.9%	Generic Node	1		
GP	100%				

Comments

Errors due to Unidentified Paramaters - Cannot change in MUSIC model - no effect to results

Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	Hi-flow bypass rate (cum/sec)	None	99	0.02
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	Hi-flow bypass rate (cum/sec)	None	99	0.02
Receiving	Receiving Node	% Load Reduction	None	None	5.46
Receiving	Receiving Node	GP % Load Reduction	90	None	100
Receiving	Receiving Node	TN % Load Reduction	45	None	47.9
Receiving	Receiving Node	TP % Load Reduction	60	None	62
Receiving	Receiving Node	TSS % Load Reduction	85	None	86.4
Urban	Balcony- 900m ² (100% Imp.)	Area Impervious (ha)	None	None	0.09
Urban	Balcony- 900m ² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Balcony- 900m ² (100% Imp.)	Total Area (ha)	None	None	0.09
Urban	Landscape ground - 210m ² (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Landscape ground - 210m ² (100% Perv.)	Area Pervious (ha)	None	None	0.021
Urban	Landscape ground - 210m ² (100% Perv.)	Total Area (ha)	None	None	0.021
Urban	Landscape podium - 300m ² (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Landscape podium - 300m ² (100% Perv.)	Area Pervious (ha)	None	None	0.03
Urban	Landscape podium - 300m ² (100% Perv.)	Total Area (ha)	None	None	0.03
Urban	Paved ground floor bypass SF- 25m ² (100% Imp.)	Area Impervious (ha)	None	None	0.003
Urban	Paved ground floor bypass SF- 25m ² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Paved ground floor bypass SF- 25m ² (100% Imp.)	Total Area (ha)	None	None	0.003
Urban	paved ground floor to SF- 180m ² (100% Imp.)	Area Impervious (ha)	None	None	0.018
Urban	paved ground floor to SF- 180m ² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	paved ground floor to SF- 180m ² (100% Imp.)	Total Area (ha)	None	None	0.018
Urban	Road to bypass - 150m ² (100% Imp.)	Area Impervious (ha)	None	None	0.015
Urban	Road to bypass - 150m ² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Road to bypass - 150m ² (100% Imp.)	Total Area (ha)	None	None	0.015
Urban	Road to SF- 55m ² (100% Imp.)	Area Impervious (ha)	None	None	0.006
Urban	Road to SF- 55m ² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Road to SF- 55m ² (100% Imp.)	Total Area (ha)	None	None	0.006
Urban	Roof - 903m ² (100% Imp.)	Area Impervious (ha)	None	None	0.09
Urban	Roof - 903m ² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Roof - 903m ² (100% Imp.)	Total Area (ha)	None	None	0.09

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
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	TN % Load Reduction	0	0	20.155
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	TN % Load Reduction	0	0	20.99
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	TP % Load Reduction	0	0	28.8589
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	TP % Load Reduction	0	0	29.9951
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	TSS % Load Reduction	0	0	72.80
GPT	1 x EnviroPod 200 (SFEP USE 2011B)	TSS % Load Reduction	0	0	81.26
Sedimentation	SF Chamber (4m ³)	Notional Detention Time (hrs)	8	12	0.0848

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