

MUSIC-*link* Report

Project Details		Company Details	
Project:	86 Brisbane St, Oxley Park	Company:	
Report Export Date:	7/07/2015	Contact:	Gerard Balkin
Catchment Name:	2015-015 86 Brisbane St Oxley Park	Address:	8 Murri St Katoomba NSW 2780
Catchment Area:	0.144ha	Phone:	0404 667 508
Impervious Area*:	48.55%	Email:	gerard.balkin@gmail.com
Rainfall Station:	67113 PENRITH		
Modelling Time-step:	6 Mminutes		
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:	5.4		
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	25%	Rain Water Tank Node	1	Urban Source Node	2
TSS	4.17%	GPT Node	1	User Defined Source Node	2
TP	10.9%				
TN	25%				
GP	43.5%				

Comments

Stormwater quality targets are not met due to lack of fall to the outlet, on-site detention requirements and the inability to use infiltration to the subsoil due to low permeability and a high water table with high salinity.

Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
GPT	1 x Enviropod (OCT 12 STAND ALONE USE ONLY)	Hi-flow bypass rate (cum/sec)	None	99	0.02
Receiving	Receiving Node	% Load Reduction	None	None	25
Urban	Urban Bypass	Area Impervious (ha)	None	None	0.003
Urban	Urban Bypass	Area Pervious (ha)	None	None	0.071
Urban	Urban Bypass	Total Area (ha)	None	None	0.075
Urban	Urban Filtered	Area Impervious (ha)	None	None	0.000
Urban	Urban Filtered	Area Pervious (ha)	None	None	0.002
Urban	Urban Filtered	Total Area (ha)	None	None	0.003

Only certain parameters are reported when they pass validation

Failing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Rain	2000 I Rainwater Tank x5	Threshold Hydraulic Loading for C** (m/yr)	0	0	3500
Rain	2000 I Rainwater Tank x5	Total Nitrogen - C** (mg/L)	0	0	1.4
Rain	2000 I Rainwater Tank x5	Total Phosphorus - C** (mg/L)	0	0	0.13
Rain	2000 I Rainwater Tank x5	Total Suspended Solids - C** (mg/L)	0	0	12
Receiving	Receiving Node	GP % Load Reduction	90	None	43.5
Receiving	Receiving Node	TN % Load Reduction	45	None	25
Receiving	Receiving Node	TP % Load Reduction	60	None	10.9
Receiving	Receiving Node	TSS % Load Reduction	85	None	4.17

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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