

MUSIC-link Report

Project Details		Company Details	
Project:	2014-075 The Coffee Club Redevelopment Tench Ave Jamisontown	Company:	Williams Consulting Engineers Australia Pty Ltd
Report Export Date:	12/03/2015	Contact:	Ralph Williams
Catchment Name:	2014-075 COFFEE CLUB MUSICLINK 10TH MARCH 2015	Address:	78 St Johns Road Blaxland NSW 2774
Catchment Area:	1.322ha	Phone:	0425307531
Impervious Area*:	89.13%	Email:	ralph@wcea.com.au
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:	5.5		
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	20.1%	Wetland Node	1	Urban Source Node	4
TSS	85%	GPT Node	3		
TP	70.9%				
TN	51%				
GP	100%				

Comments

The failing parameters are not relevant being associated with impervious roof areas.

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
GPT	5 x Enviropod (OCT 12 STAND ALONE USE ONLY)	Hi-flow bypass rate (cum/sec)	None	99	0.1
GPT	5x Enviropod (OCT 12 STAND ALONE USE ONLY)	Hi-flow bypass rate (cum/sec)	None	99	0.1
Receiving	Receiving Node	% Load Reduction	None	None	20.1
Receiving	Receiving Node	GP % Load Reduction	90	None	100
Receiving	Receiving Node	TN % Load Reduction	45	None	51
Receiving	Receiving Node	TP % Load Reduction	60	None	70.9
Receiving	Receiving Node	TSS % Load Reduction	85	None	85
Urban	Driveways_ pavements and garden swales	Area Impervious (ha)	None	None	0.434
Urban	Driveways_ pavements and garden swales	Area Pervious (ha)	None	None	0.066
Urban	Driveways_ pavements and garden swales	Total Area (ha)	None	None	0.501
Urban	Front lawns and gardens and parking area	Area Impervious (ha)	None	None	0.169
Urban	Front lawns and gardens and parking area	Area Pervious (ha)	None	None	0.077
Urban	Front lawns and gardens and parking area	Total Area (ha)	None	None	0.247
Urban	Rear pavements and garden swales	Area Impervious (ha)	None	None	0.287
Urban	Rear pavements and garden swales	Area Pervious (ha)	None	None	0
Urban	Rear pavements and garden swales	Total Area (ha)	None	None	0.287
Urban	Roofs	Area Impervious (ha)	None	None	0.287
Urban	Roofs	Area Pervious (ha)	None	None	0
Urban	Roofs	Total Area (ha)	None	None	0.287

Only certain parameters are reported when they pass validation

Failing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Urban	Roofs	Baseflow Total Nitrogen Mean (log mg/L)	0.11	0.11	0.3
Urban	Roofs	Baseflow Total Nitrogen Standard Deviation (log mg/L)	0.12	0.12	0.19
Urban	Roofs	Baseflow Total Phosphorus Mean (log mg/L)	-0.85	-0.85	-0.89
Urban	Roofs	Baseflow Total Phosphorus Standard Deviation (log mg/L)	0.19	0.19	0.25
Urban	Roofs	Baseflow Total Suspended Solids Mean (log mg/L)	1.2	1.2	1.13
Urban	Roofs	Baseflow Total Suspended Solids Standard Deviation (log mg/L)	0.17	0.17	0.32

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