PENRITH CITY COUNCIL

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MUSIC-*link* Report

Project Details		Company Details	
Project:	1 STATION LANE, PENRITH	**Company:**	LOKA CONSULTING ENGINEERS
Report Export Date:	08/08/2018	**Contact:**	LESLEY YE
Catchment Name:	1 Station Lane Penrith	**Address:**	14A/8 AVE OF THE AMERICAS, NEWINGTON, NSW, 2127
Catchment Area:	0.065ha	**Phone:**	02 8065 9689
Impervious Area*:	66.15%	**Email:**	CIVIL3@LCENG.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:	6.3.0		
MUSIC-link data Version:	6.31		
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 Node85/60/45	**Reduction**	**Node Type**	**Number**	**Node Type**	**Number**
Flow	31.7%	Bio Retention Node	1	Urban Source Node	5
TSS	85.4%	GPT Node	2		
TP	67.8%				
TN	74.6%				
GP	99.4%				

Comments

Bio-retention/Raingarden with 55m2 minimum surface area and filter media (500mm depth) to be provided.

2 no. Stormwater360 Enviropods are applied.

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Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Bio	52m2 Raingarden	Hi-flow bypass rate (cum/sec)	None	99	0.009
Bio	52m2 Raingarden	PET Scaling Factor	2.1	2.1	2.1
GPT	1XEnviropod 200 (BCC 2015)	Hi-flow bypass rate (cum/sec)	None	99	0.02
GPT	Copy of 1XEnviropod 200 (BCC 2015)	Hi-flow bypass rate (cum/sec)	None	99	0.02
Receiving	Receiving Node85/60/45	% Load Reduction	None	None	31.7
Receiving	Receiving Node85/60/45	GP % Load Reduction	90	None	99.4
Receiving	Receiving Node85/60/45	TN % Load Reduction	45	None	74.6
Receiving	Receiving Node85/60/45	TP % Load Reduction	60	None	67.8
Receiving	Receiving Node85/60/45	TSS % Load Reduction	85	None	85.4
Urban	Landscape - 157.1m² (100% per.)	Area Impervious (ha)	None	None	0
Urban	Landscape - 157.1m² (100% per.)	Area Pervious (ha)	None	None	0.016
Urban	Landscape - 157.1m² (100% per.)	Total Area (ha)	None	None	0.016
Urban	Paved - 21.1m² (100% Imp.)	Area Impervious (ha)	None	None	0.002
Urban	Paved - 21.1m² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Paved - 21.1m² (100% Imp.)	Total Area (ha)	None	None	0.002
Urban	Paved - 23.9m² (100% Imp.)	Area Impervious (ha)	None	None	0.002
Urban	Paved - 23.9m² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Paved - 23.9m² (100% Imp.)	Total Area (ha)	None	None	0.002
Urban	POS Landscape - 62.9m² (100% per.)	Area Impervious (ha)	None	None	0
Urban	POS Landscape - 62.9m² (100% per.)	Area Pervious (ha)	None	None	0.006
Urban	POS Landscape - 62.9m² (100% per.)	Total Area (ha)	None	None	0.006
Urban	Roof - 385m² (100% Imp.)	Area Impervious (ha)	None	None	0.039
Urban	Roof - 385m² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Roof - 385m² (100% Imp.)	Total Area (ha)	None	None	0.039

Only certain parameters are reported when they pass validation