PENRITH CITY COUNCIL

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MUSIC-*link* Report

Project Details		Company Details	
Project:	Dent Street	**Company:**	MAJCON
Report Export Date:	5/12/2016	**Contact:**	-
Catchment Name:	m1	**Address:**	-
Catchment Area:	0.101ha	**Phone:**	-
Impervious Area*:	68.37%	**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:	6.2.0		
MUSIC-link data Version:	6.20		
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	33.4%	Sedimentation Basin Node	1	Urban Source Node	3
TSS	39.3%	Rain Water Tank Node	1		
TP	58.1%	Generic Node	1		
TN	63.2%	GPT Node	1		
GP	77.3%				

Comments

100% of proposed area above the Ground Floor level, including the roof area have been modeled to be treated via Filtration Tank above the ramp.

Landscaping area on the Ground Floor level could not be treated via the proposed Filtration Tank. As a result, generated stormwater runoff from this area bypasses the treatment train.

Relocating the Filtration tank to the Ground Floor level in order to capture the entire site runoff cannot be achieved as tehre is no existing below ground drainage network in the vicinity of the site.

Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
GPT	2 x EnviroPod 200 (SFEP USE 2011B)	Hi-flow bypass rate (cum/sec)	None	99	0.04
Receiving	Receiving Node	% Load Reduction	None	None	33.4
Receiving	Receiving Node	TN % Load Reduction	45	None	63.2
Sedimentation	SF Chamber 10m²	High Flow Bypass Out (ML/yr)	None	None	0
Urban	Paved / Common Area - 195m² (0% Imp.)	Area Impervious (ha)	None	None	0
Urban	Paved / Common Area - 195m² (0% Imp.)	Area Pervious (ha)	None	None	0.02
Urban	Paved / Common Area - 195m² (0% Imp.)	Total Area (ha)	None	None	0.02
Urban	Paved / Common Area - 240m² (50% Imp.)	Area Impervious (ha)	None	None	0.012
Urban	Paved / Common Area - 240m² (50% Imp.)	Area Pervious (ha)	None	None	0.011
Urban	Paved / Common Area - 240m² (50% Imp.)	Total Area (ha)	None	None	0.024
Urban	Roof - 570m² (100% Imp.)	Area Impervious (ha)	None	None	0.057
Urban	Roof - 570m² (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Roof - 570m² (100% Imp.)	Total Area (ha)	None	None	0.057

Only certain parameters are reported when they pass validation

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Failing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Rain	10 KL RWT	% Reuse Demand Met	80	None	65.87
Rain	10 KL RWT	Threshold Hydraulic Loading for C** (m/yr)	0	0	3500
Rain	10 KL RWT	Total Nitrogen - C** (mg/L)	0	0	1.4
Rain	10 KL RWT	Total Phosphorus - C** (mg/L)	0	0	0.13
Rain	10 KL RWT	Total Suspended Solids - C** (mg/L)	0	0	12
Receiving	Receiving Node	GP % Load Reduction	90	None	77.3
Receiving	Receiving Node	TP % Load Reduction	60	None	58.1
Receiving	Receiving Node	TSS % Load Reduction	85	None	39.3
Sedimentation	SF Chamber 10m	Notional Detention Time (hrs)	8	12	0.169

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