

MUSIC-link Report

Project Details		Company Details	
<b>Project:</b>	ACE200763 - 118-120 Station Street, Penrith	<b>Company:</b>	ACE CIVIL STORMWATER SERVICES PTY LTD
<b>Report Export Date:</b>	9/9/2021	<b>Contact:</b>	
<b>Catchment Name:</b>	16090 - 118-120 Station St	<b>Address:</b>	SHOP 2-141 CONCORD RD, NORTH STRATHFIELD, NSW2137
<b>Catchment Area:</b>	0.092ha	<b>Phone:</b>	(02) 9763 1500
<b>Impervious Area*:</b>	62.09%	<b>Email:</b>	info@aceeng.com.au
<b>Rainfall Station:</b>	67113 PENRITH		
<b>Modelling Time-step:</b>	6 Minutes		
<b>Modelling Period:</b>	1/01/1999 - 31/12/2008 11:54:00 PM		
<b>Mean Annual Rainfall:</b>	691mm		
<b>Evapotranspiration:</b>	1158mm		
<b>MUSIC Version:</b>	6.3.0		
<b>MUSIC-link data Version:</b>	6.33		
<b>Study Area:</b>	Penrith		
<b>Scenario:</b>	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	25.6%	Sedimentation Basin Node	1	Urban Source Node	6
TSS	87.1%	Rain Water Tank Node	1		
TP	82.5%	Generic Node	1		
TN	65%	GPT Node	1		
GP	96.9%				

Comments
Input data provided as per manufacturer's specifications

Passing Parameters					
Node Type	Node Name	Parameter	Min	Max	Actual
GPT	1 x OceanGuard	Hi-flow bypass rate (cum/sec)	None	99	0.02
Rain	1 x 19.54kL RWT	% Reuse Demand Met	80	None	80.72
Receiving	Receiving Node	% Load Reduction	None	None	25.6
Receiving	Receiving Node	GP % Load Reduction	90	None	96.9
Receiving	Receiving Node	TN % Load Reduction	45	None	65
Receiving	Receiving Node	TP % Load Reduction	60	None	82.5
Receiving	Receiving Node	TSS % Load Reduction	85	None	87.1
Sedimentation	SF Chamber 3.5m	High Flow Bypass Out (ML/yr)	None	None	0
Urban	Bypass - 28m (37.57% Imp.)	Area Impervious (ha)	None	None	0.001
Urban	Bypass - 28m (37.57% Imp.)	Area Pervious (ha)	None	None	0.001
Urban	Bypass - 28m (37.57% Imp.)	Total Area (ha)	None	None	0.003
Urban	Driveway - 31.89m (100% Imp.)	Area Impervious (ha)	None	None	0.003
Urban	Driveway - 31.89m (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Driveway - 31.89m (100% Imp.)	Total Area (ha)	None	None	0.003
Urban	Impervious - 93.48m (100% Imp.)	Area Impervious (ha)	None	None	0.01
Urban	Impervious - 93.48m (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Impervious - 93.48m (100% Imp.)	Total Area (ha)	None	None	0.01
Urban	Pervious - 327.57m (100% Perv.)	Area Impervious (ha)	None	None	0
Urban	Pervious - 327.57m (100% Perv.)	Area Pervious (ha)	None	None	0.033
Urban	Pervious - 327.57m (100% Perv.)	Total Area (ha)	None	None	0.033
Urban	Roof - 230.97m (100% Imp.)	Area Impervious (ha)	None	None	0.023
Urban	Roof - 230.97m (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Roof - 230.97m (100% Imp.)	Total Area (ha)	None	None	0.023
Urban	Trafficable Roof - 200.09m (100% Imp.)	Area Impervious (ha)	None	None	0.02
Urban	Trafficable Roof - 200.09m (100% Imp.)	Area Pervious (ha)	None	None	0
Urban	Trafficable Roof - 200.09m (100% Imp.)	Total Area (ha)	None	None	0.02

Only certain parameters are reported when they pass validation

**Failing Parameters**

Node Type	Node Name	Parameter	Min	Max	Actual
Sedimentation	SF Chamber 3.5m	Notional Detention Time (hrs)	8	12	0.187
Sedimentation	SF Chamber 3.5m	Total Nitrogen - k (m/yr)	500	500	1
Sedimentation	SF Chamber 3.5m	Total Phosphorus - k (m/yr)	6000	6000	1
Sedimentation	SF Chamber 3.5m	Total Suspended Solids - k (m/yr)	8000	8000	1

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