



MUSIC-*link* Report

Project Details		Company Details	
Project:	44-50 Tench Ave Jamisontown - Original Model	Company:	Mchael Bou Rada Consulting Engineers
Report Export Date:	5/12/2019	Contact:	Michael Bou Rada
	13651 - 44-50 Tench Ave Jamisontown	Address:	PO Box 8288, Blacktown NSW, 2148
Catchment Name:	(Preliminary Design) - Original Model	Phone:	0459117674
Catchment Area:	0.579ha	Email:	michael@mbrconsulting.com.au
Impervious Area*:	117.8%		
Rainfall Station:	67113 PENRITH		
Modelling Time- step:	6 Mnutes		
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:	6.32		
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	
How	21.1%	Sedimentation Basin Node	1	Urban Source Node	3	
TSS	92.8%	Swale Node	1			
TP	79.9%	Rain Water Tank Node	1			
TN	58.6%	GPT Node	1			
GP	100%	Generic Node	1			

Comments

- We have assumed 0.4kL/m² annually for irrigation.
- GPT reflects Ocean Protect's OceanGuard and has the correct values.
- The 'SF Chamber' detention node (sedimentation basin) has been modified to represent a tank to hold volume for use with the Ocean Protect filter. k values has been set to 1 to prevent the tank from "treating" the flow as it would within a grassed above ground OSD.
- The 'Generic Node' represents Ocean Protect's Stormfilter Cartridge and has the correct values.





		Passing Parameters						
Node Type	Node Name	Parameter	Min	Max	Actual			
GPT	1 x OceanGuard 200	Hi-flow bypass rate (cum/sec)	None	99	0.02			
Receiving	Receiving Node	% Load Reduction	None	None	21.1			
Receiving	Receiving Node	GP % Load Reduction	90	None	100			
Receiving	Receiving Node	TN % Load Reduction	45	None	58.6			
Receiving	Receiving Node	TP % Load Reduction	60	None	79.9			
Receiving	Receiving Node	TSS % Load Reduction	85	None	92.8			
Sedimentation	SF Chamber	High Flow Bypass Out (ML/yr)	None	None	0			
Urban	Ground - 4026m� (59% Perv.)	Area Impervious (ha)	None	None	0.165			
Urban	Ground - 4026m� (59% Perv.)	Area Pervious (ha)	None	None	0.23777			
Urban	Ground - 4026m� (59% Perv.)	Total Area (ha)	None	None	0.403			
Urban	Road - 257m� (100% Imp.)	Area Impervious (ha)	None	None	0.026			
Urban	Road - 257m� (100% Imp.)	Area Pervious (ha)	None	None	0			
Urban	Road - 257m� (100% Imp.)	Total Area (ha)	None	None	0.026			
Urban	Roof - 1505m� (100% Imp.)	Area Impervious (ha)	None	None	0.15			
Urban	Roof - 1505m� (100% Imp.)	Area Pervious (ha)	None	None	0			
Urban	Roof - 1505m� (100% lmp.)	Total Area (ha)	None	None	0.15			
only certain parameters	are reported when they pass validation							





Failing Parameters						
Node Type	Node Name	Parameter	Min	Max	Actual	
Rain	Rainwater Tank - 41.35kL	% Reuse Demand Met	80	None	50.42	
Sedimentation	SF Chamber	Notional Detention Time (hrs)	8	12	0.112	
Sedimentation	SF Chamber	Total Nitrogen - k (m/yr)	500	500	1	
Sedimentation	SF Chamber	Total Phosphorus - k (m/yr)	6000	6000	1	
Sedimentation	SF Chamber	Total Suspended Solids - k (m/yr)	8000	8000	1	
Swale	Swale	Bed slope	0.01	0.05	0.005	
Only certain parameters	s are reported when they pass validation					