MUSIC-*link* Report

Project Details

Project:	NL211843
Report Export Date:	7/10/2021
Catchment Name:	NL211843_Music Model iNFILTRATED FLOWS_07.10.21
Catchment Area:	0.406ha
Impervious Area*:	73.26%
Rainfall Station:	WILLIAMTOWN RAAF - Station 061078 - Zone A
Modelling Time-step:	6 Minutes
Modelling Period:	1/01/1998 - 31/12/2007 11:54:00 PM
Mean Annual Rainfall:	1013mm
Evapotranspiration:	1394mm
MUSIC Version:	6.3.0
MUSIC-link data Version:	6.34
Study Area:	Anna Bay and Nelson Bay
Scenario:	Default Catchment - Clay soils

Company Details

Company:	Norhtrop Consulting Engineers
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* takes into account area from all source nodes that link to the chosen reporting node, excluding Import Data Nodes

Treatment Train Effectiveness

Node: Post-Development Node	Reduction
Flow	34%
TSS	92.1%
TP	71.8%
TN	69.5%
GP	100%

Treatment Nodes

Node Type	Number
Rain Water Tank Node	1
Swale Node	4
Bio Retention Node	1
Infiltration System Node	1
GPT Node	1

Source Nodes

Node Type	Number
Urban Source Node	8

Comments

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Passing Parameters

Node Type	Node Name	Parameter	Min	Max	Actual
Bio	Bioretention Basin (59 sq.m)	Hi-flow bypass rate (cum/sec)	None	None	100
Bio	Bioretention Basin (59 sq.m)	PET Scaling Factor	2.1	2.1	2.1
GPT	SPEL Stormsacks (1)	Hi-flow bypass rate (cum/sec)	None	99	0.011
Infiltration	Infiltration System	Area (sqm)	None	None	105
Infiltration	Infiltration System	Filter area (sqm)	None	None	105
Infiltration	Infiltration System	Hi-flow bypass rate (cum/sec)	None	None	100
Post	Post-Development Node	% Load Reduction	None	None	34
Post	Post-Development Node	GP % Load Reduction	90	None	100
Post	Post-Development Node	TN % Load Reduction	45	None	69.5
Post	Post-Development Node	TP % Load Reduction	60	None	71.8
Post	Post-Development Node	TSS % Load Reduction	90	None	92.1
Rain	Rainwater Tank (15KL)	% Reuse Demand Met	None	None	84.33
Swale	Swale 1	Bed slope	0.01	0.05	0.01
Swale	Swale 2	Bed slope	0.01	0.05	0.01
Swale	Swale 3	Bed slope	0.01	0.05	0.0177
Swale	Swale 4	Bed slope	0.01	0.05	0.0265
Urban	Area to Southern Propietary Filter	Area Impervious (ha)	None	None	0.048
Urban	Area to Southern Propietary Filter	Area Pervious (ha)	None	None	0.032
Urban	Area to Southern Propietary Filter	Total Area (ha)	None	None	0.081
Urban	GARDEN AREA SWALE TO SWALE 3	Area Impervious (ha)	None	None	0.004
Urban	GARDEN AREA SWALE TO SWALE 3	Area Pervious (ha)	None	None	0.003
Urban	GARDEN AREA SWALE TO SWALE 3	Total Area (ha)	None	None	0.008
Urban	GARDEN AREA SWALE TO SWALE 4	Area Impervious (ha)	None	None	0
Urban	GARDEN AREA SWALE TO SWALE 4	Area Pervious (ha)	None	None	0.003
Urban	GARDEN AREA SWALE TO SWALE 4	Total Area (ha)	None	None	0.003
Urban	North Grassed Area to Basin	Area Impervious (ha)	None	None	0
Urban	North Grassed Area to Basin	Area Pervious (ha)	None	None	0.034
Urban	North Grassed Area to Basin	Total Area (ha)	None	None	0.034
Urban	North Grassed Area to Swale 2	Area Impervious (ha)	None	None	0.001
Urban	North Grassed Area to Swale 2	Area Pervious (ha)	None	None	0.031
Urban	North Grassed Area to Swale 2	Total Area (ha)	None	None	0.033
Urban	Other Areas to North Basin	Area Impervious (ha)	None	None	0.01
Urban	Other Areas to North Basin	Area Pervious (ha)	None	None	0
Urban	Other Areas to North Basin	Total Area (ha)	None	None	0.01
Urban	Roof Area	Area Impervious (ha)	None	None	0.233
Urban	Roof Area	Area Pervious (ha)	None	None	0
Urban	Roof Area	Total Area (ha)	None	None	0.233
Urban	SOUTHERN AREA BYPASSING	Area Impervious (ha)	None	None	0
Urban	SOUTHERN AREA BYPASSING	Area Pervious (ha)	None	None	0.004
Urban	SOUTHERN AREA BYPASSING	Total Area (ha)	None	None	0.004

Only certain parameters are reported when they pass validation

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