

DRAINS results prepared from Version 2018.09

PIT / NODE DETAILS

Version 8

Name	Max HGL	Max Pond HGL	Max Surface Flow Arriving (cu.m/s)	Max Pond Volume (cu.m)	Min Freeboard (m)	Overflow (cu.m/s)	Constraint
OUT	64.89			0			

SUB-CATCHMENT DETAILS

Name	Max Flow Q (cu.m/s)	Paved Max Q (cu.m/s)	Grassed Max Q (cu.m/s)	Paved Tc (min)	Grassed Tc (min)	Supp. Tc (min)	Due to Storm
PRE DEV	0.019	0.01	0.012		1	5	1 AR&R 1 year, 2 hours s
POST DEV	0.028	0.025	0.003		1	5	1 AR&R 1 year, 30 minut

Outflow Volumes for Total Catchment (0.14 impervious + 0.17 pervious = 0.31 total ha)

Storm	Total Rainfall cu.m	Total Runoff cu.m (Runoff %)	Impervious Runoff cu.m (Runoff %)	Pervious Runoff cu.m (Runoff %)
AR&R 1 year	25.86	10.23 (39.5)	10.23 (87.9)	0.00 (0.0%)
AR&R 1 year	39.7	16.52 (41.6)	16.45 (92.1)	0.06 (0.3%)
AR&R 1 year	70.76	32.59 (46.1)	30.43 (95.6)	2.16 (5.6%)
AR&R 1 year	96.34	46.74 (48.5)	41.94 (96.7)	4.79 (9.0%)
AR&R 1 year	128.66	63.28 (49.2)	56.48 (97.6)	6.80 (9.6%)
AR&R 1 year	151.57	70.14 (46.3)	66.79 (97.9)	3.35 (4.0%)
AR&R 1 year	201.46	95.58 (47.4)	89.24 (98.4)	6.34 (5.7%)

PIPE DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)	Due to Storm
PIPE	0.021	1.4	65.289	64.889	AR&R 1 year, 30 minutes storm, average 45.1

CHANNEL DETAILS

Name	Max Q (cu.m/s)	Max V (m/s)	Due to Storm
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DETENTION BASIN DETAILS

Name	Max WL	Max Vol	Max Q Total	Max Q Low Level	Max Q High Level
OSD	65.42	8.5	0.021	0.021	0

CONTINUITY CHECK for AR&R 1 year, 2 hours storm, average 20.5 mm/h, Zone 1

Node	Inflow (cu.m)	Outflow (cu.m)	Storage Change (cu.m)	Difference %
N1	20.33	20.33	0	0
OSD	42.96	40.15	2.81	0
OUT	40.15	40.15	0	0

Run Log for DRAINS.drn run at 16:04:55 on 30/1/2019

torm, average 20.5 mm/h, Zone 1
es storm, average 45.1 mm/h, Zone 1

mm/h, Zone 1