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Project Number: 1474

David Schaeffer Engineering Ltd
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Attention: **Marc Pichette, P.Eng**

Subject: **Barrhaven Conservancy West – Preliminary Water Balance**

Introduction

Barrhaven Conservancy West Development is located in Barrhaven, Ontario, north of the Jock River, east of Highway 416 and west of Borrisokane Road. The proposed development is approximately **48.42 ha** that will primarily comprise of single and townhouse residential lots, stacked condos and a park. The following memo outlines how the proposed development will match/exceed the existing water budget through the use of LIDs.

Water Balance Overview

A pre- and post-development water balance has been completed for the site based on continuous hydrologic model simulations. As such a SWMHYMO model was developed that reflects the hydrologic conditions of these lands under pre-development, post-development without LIDs and post-development with LIDs conditions. These models were run using 36 years of hourly rainfall data from the Ottawa International Airport from 1967 to 2003 (excluding 2001 - missing rainfall data), and the average annual runoff volumes from the subject site were computed and compared. **Table A1 in Attachment A** outlines the continuous modelling parameters for both pre and post-development conditions. The following section outlines the modelling approach for each scenario and the results of this analysis.

Pre-Development

Based on the Soil Survey Complex mapping from the Ontario Ministry of Agriculture, Food, and Rural Affairs (OMAFRA) the site primarily consists of Carsonby - Silt (Type C) and Brandon -Silty Clay- (Type D) Soils. This was confirmed by Paterson Groups through onsite field investigations and boreholes which also reported Silt and Silty Clays through the majority of the site.

Based on the Southern Ontario Land Resource Information System (SOLRIS) the site consists primarily of tilled lands and hedgerows. Based on the underlying Land Use Type and Soil Classification at each location within a subcatchment, a Curve Number (CN) was calculated, based on applicable values outlined in **Tables A2 and A3** in the SWMHYMO Manual. Each Curve Number was then weighted based on the total area within the subcatchment to determine the weighted CN for that subcatchment. The CN value calculated was then converted to CN*, as CN* values have been shown to correlate well with measured flows and perform well in continuous SWMHYMO modelling (as discussed in the July 1989 INTERHYMO / OTTHYMO 89 Manual), when compared to conventional CN. Full details of the derivation of CN under existing conditions have been outlined in **Table A2 and Figures A1 & A2 in Attachment A**.

The time to peak (T_p) for these areas has been calculated based on existing topography. Flow paths have been discretized based on the topographic data using GIS tools and the longest major flow path within the subcatchment identified; refer to **Figure A3 in Attachment A** for the flow paths discretized for these lands. The upstream and downstream topographic elevations and flow lengths were identified for this subcatchment and used in the calculations. For these lands, the Federal Aviation Administration (FFA) method was determined to be the most appropriate method to calculate the T_p . Full details of these calculations have been provided in **Table A3 in Attachment A**, along with other time-to-peak values using alternative T_p calculation methods. This site under pre-development conditions has been represented in SWMHYMO using a CONTINUOUS NASHYD command, with all continuous parameters outlined in **Table A1 of Attachment A**. Note that the pre-development areas have been represented as 3 individual areas (Split by the Foster and Okeefe drains) with the results of the 3 areas added together to provide the full site pre-development water budget.

Post-Development – Without LIDs

Under post-development conditions, the site will have 6 individual storm sewer outlets, as such the development lands have been broken into these 6 discrete areas (with a total drainage area of **48.42 ha**, matching existing conditions). Based on the development conceptual plan, the **48.42 ha** site will have a total imperviousness of **70%**, see **Figure A4 in Attachment A** for an overview of the proposed development plan. These developed lands have been represented using CONTINUOUS STANDHYD commands in SWMHYMO. This scenario has been provided to quantify the average annual reduction in infiltration volume throughout the site due to the increase in impervious area.

To best represent infiltration over a long simulation period, and to provide a consistent comparison between pre- and post-development conditions, the SCS procedure was used to simulate infiltration over the subject site for both pre-and post-development conditions. Under post-development conditions, soils in the development areas will be defined by the characteristics of topsoil, which has a CN of **79** ($CN^* = 71$) for urban lawns in fair condition.

Post-Development – With LIDs

As mentioned above the proposed development will have LIDs implemented throughout the site to offset any deficit in annual infiltration volume produced by the increase in the impervious area due to the development. For this analysis, it is assumed that the development will have infiltration LIDs implemented at the road catch basins. Runoff captured by the road catch basins will be directed to an infiltration trench, where it can infiltrate before discharging to the storm sewer system (see *Figure 5* in the DSEL *Figures & Drawings* package for more details about the proposed LID configuration). A conceptual design of these LID systems has been completed but will be refined at detailed design when detailed grading is available, to yield optimal benefit from this LID approach. **Table 1** below outlines the parameters of these conceptual LIDs based on the current development plan. Based on this analysis the site on average will need **3.75 CBs** per impervious hectare of development. Each of the LID clusters has been represented in the model as single lumped ROUTE RESERVOIR commands, with the outflow of each command reflective of the soil infiltration rate and the volume reflective of the storage volume within each LID.

Soil Infiltration & Draw Down Time

Based on the Paterson Group's geotechnical Investigation, the site consists of soil that typically has infiltration rates in the range of **9 mm/hr - 25 mm/hr**. As such it has been assumed that this site will have an infiltration rate of 9mm/hr with a safety factor of 2.5 (3.6 mm/hr). Based on a trench height of 0.4 m (with a void ratio of 0.4) these trenches will have a draw downtime of approximately **45 hours**. Note that in this analysis it is assumed that only the bottom of the trench can infiltrate, which is a conservative assumption.

Table 1: Proposed LID Summary

Parameters	Total	W1	W2	W3	W4	W5	W6
Area (ha)	48.42	5.76	8.51	10.03	10.11	6.20	7.81
RC	0.72	0.66	0.62	0.73	0.69	0.67	0.77
Total Imp. (%)	70%	66%	60%	76%	70%	67%	81%
Imp Area (ha)	34.08	3.78	5.11	7.59	7.08	4.16	6.36
# of CBMH's	128	14	19	28	27	16	24
Pipe Dia (mm)	-	250	250	250	250	250	250
Perf. Pipe Length (m)	3840	420	570	840	810	480	720
Pipe Vol. (m ³)	188	21	28	41	40	24	35
Trench Width (m)	-	1.25	1.25	1.25	1.25	1.25	1.25
Trench Height (m)	-	0.4	0.4	0.4	0.4	0.4	0.4
Trench Length (m)	-	30	30	30	30	30	30
Void Ratio	-	0.4	0.4	0.4	0.4	0.4	0.4
Trench Vol. (m ³)	693	76	103	152	146	87	130
Total Vol. (m ³)	881	96	131	193	186	110	165
Area of Trench (m ²)	4800	525	713	1050	1013	600	900
Soil Infiltration Rate (mm/hr)	-	9	9	9	9	9	9
Safety Factor	-	2.5	2.5	2.5	2.5	2.5	2.5
Reduced Rate (mm/hr)	-	3.6	3.6	3.6	3.6	3.6	3.6
Infiltration rate (m ³ /hr)	-	0.0005	0.0007	0.0011	0.0010	0.0006	0.0009

Water Budget Scenario Summary

The models were run for 36 years using hourly rainfall data from the Ottawa Airport, and the annual evaporation, infiltration and runoff volumes were calculated for each scenario. **Tables 2-4** summarize the annual average water balance under existing conditions and post-development conditions for the proposed development lands with and without LID measures in place, as m³/year, mm/year and % of total annual rainfall.

Table 2: Pre-Development Water Balance

Drainage Area (ha)		48.42	Imperviousness:	7%
Annual Average Volume	Precipitation	Evapotranspiration	Runoff	Infiltration
m ³	288,466	188,545	35,419	64,503
mm	596	389	73	133
%	100%	65.4%	12.3%	22.4%

Table 3: Post Development Water Balance – Without LIDs

Drainage Area (ha)		48.42	Imperviousness:	70%
Annual Average Volume	Precipitation	Evapotranspiration	Runoff	Infiltration
m ³	288,466	107,821	148,079	32,566
mm	596	223	306	67
%	100.0%	37.4%	51.3%	11.3%

Table 4: Post Development Water Balance – With LIDs

Drainage Area (ha)		48.42	Imperviousness:	70%
Annual Average Volume	Precipitation	Evapotranspiration	Runoff	Infiltration
m ³	288,466	107,821	111,716	68,929
mm	596	223	231	142
%	100%	37.4%	38.7%	23.9%

Based on this analysis of pre-development conditions, this site will evaporate **65.4%**, runoff **12.3%** and infiltrate **22.4%** of all annual rainfall. Under post-development conditions without LIDs, this site will evaporate **37.4%**, runoff **51.3%** and infiltrate **11.3%** of all annual rainfall, resulting in a deficit of **66 mm/year** infiltrated from pre-development conditions. Under post-development conditions with LIDs, this site will evaporate **37.4%**, runoff **38.7%** and infiltrate **23.9%** of all annual rainfall, resulting in an exceedance of 9 mm/year infiltrated from pre-development conditions. Full annual breakdowns of the three conditions have been provided in **Attachment B, Tables B1-B3**. An average annual summary of the infiltration volume for each of the proposed LID measures is outlined in **Table B4**, which shows that the LIDs alone provide a total average annual infiltration volume of **75 mm/year**.

Conclusion

A preliminary water balance analysis of the existing site was completed to determine pre-development infiltration rates, based on continuous hydrologic model simulations. A post-development analysis for the site, where no LIDs were implemented, showed that the volume of annual rainfall infiltrated would decrease by **66 mm/yr.** (-49% from existing). Implementing LIDs in the way of infiltration trenches connected to the catchbasins at a rate of **3.75 CB** per impervious hectare would exceed the annual infiltration rate by **9 mm/year** (+1.5% from existing). Based on the above it has been shown that the Barrhaven Conservancy West Developments will be able to meet pre-development infiltration rates within **±5%** under post-development conditions through the use of LIDs.

Yours truly,
J.F Sabourin and Associates Inc.



Jonathon Burnett, P.Eng
Water Resources Engineer

cc: J.F Sabourin, M.Eng, P.Eng
Director of Water Resources Projects



Tables

- Table 1: Proposed LID Summary
- Table 2: Pre-Development Water Balance
- Table 3: Post Development Water Balance – Without LIDs
- Table 4: Post Development Water Balance – With LIDs

Attachments

- Attachment A: SWMHYMO Models & Parameters
- Attachment B: Water Budget Results

Modelling Files (Provided Electronically)

SWMHYMO	BCD_WEST-PRE_v03.dat
	BCD_WEST-POST_v03.dat



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Attachment A

SWMHYMO Models & Parameters



Legend

Soil Name (SCS Value)
BRANDON (D)
CARSONBY (C)
■ Development Area

SCALE: 1:4500
0 100 200 m



Conservancy West

Figure A1: Soil Types

PROJECT	1474(03)
DRAWN	JB
DATE	March 2024



Legend

Land Use

- Hedge Rows
- Tilled
- Development Area

SCALE: 1:4500

0 100 200 m

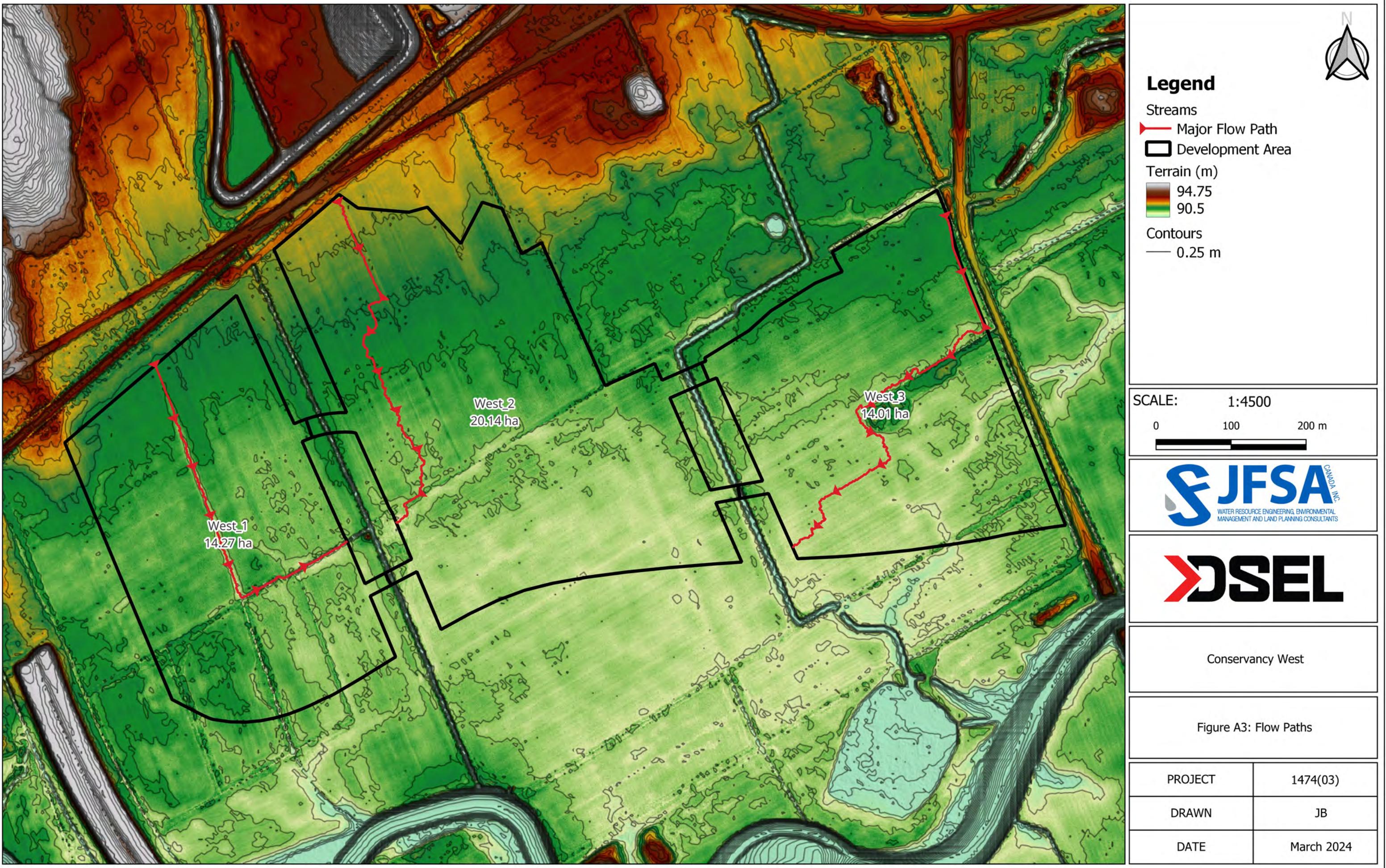
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Figure A2: Land Use

PROJECT	1474(03)
DRAWN	JB
DATE	March 2024





Legend

- Junctions
- Site Plan
- Minor System
- Lumped Areas:
 - <Name>
 - <Area>
 - <Runoff Coefficient>

SCALE: 1:4500

0 100 200 m

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Figure A4: Proposed Development

PROJECT	1474(03)
DRAWN	JB
DATE	March 2024

Table A1: Continuous Simulation Parameters

Parameter(s) & Value(s)	Description
APII=[50], APIK=[0.90]/day	Used to compute the Antecedent Precipitation Index during the continuous simulation. Without model calibration, these are the default values.
IaImp = [1.57](mm), IaPer=[4.67](mm)	Default Initial Abstraction (IA) values per the City of Ottawa Design Guidelines
IaREC=[6](hrs);	The time that it takes for the Initial Abstraction over pervious areas to recover during a dry period in undeveloped areas.
SMIN=[-1], SMAX=[-1](mm)	The negative values indicate that the storage volume in the SCS procedure will vary between the "S" determined for AMC I and AMC III conditions of the entered CN value in undeveloped and urban areas.
SK=[0.03]/(mm);	A calibration coefficient that can typically vary from 0.01 to 0.3 for undeveloped and urban areas. The higher the value, the more runoff generated. To set the baseline for existing conditions, it was decided to take a value in the low range.
InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm), VhydCond=[1](mm/hr);	Parameters that are used to simulate both the groundwater storage and discharge to surface watercourses from undeveloped areas. Without adequate field measurements, these parameters were selected based on previous continuous modelling experience.
IaRECPer=[6](hrs);	The time that it takes for the Initial Abstraction over pervious areas to recover during a dry period in urban areas.
IaRECCimp=[1.5](hrs);	The time that it takes for the Initial Abstraction over impervious areas to recover during a dry period in urban areas.
InterEventTime=[12](hrs)	The continuous dry time is required to reset the parameters in the SCS procedure to their initial values.

Table A2: Calculation of SCS Curve Number (CN) and Modified Curve Number (CN*)

West_1 (14.27 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
8.979	Tilled	CARSONBY	C	Fair	79	62.9%	49.7
4.166	Tilled	BRANDON	D	Fair	84	29.2%	24.5
1.123	Hedge Rows	CARSONBY	C	Fair	70	7.9%	5.5
						CN	79.7
						CN*	72

West_2 (20.138 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
4.879	Tilled	CARSONBY	C	Fair	79	24.2%	19.1
15.117	Tilled	BRANDON	D	Fair	84	75.1%	63.1
0.109	Hedge Rows	CARSONBY	C	Fair	70	0.5%	0.4
0.034	Hedge Rows	BRANDON	D	Fair	77	0.2%	0.1
						CN	82.7
						CN*	76

#REF!							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
14.007	Tilled	CARSONBY	C	Fair	79	100.0%	79.0
						CN	79.0
						CN*	71

Table A3: Time to Peak Calculations

Parameter	Units	West_1	West_2	West_3
Area	ha	14.268	20.139	14.007
CN*	-	72	76	71
Ptotal to calc C from CN, use 2 yr 24 hr SCS stom	P(mm)	48.5	48.5	48.5
	Ia(mm)	4.67	4.67	4.67
	RV(mm)	13.5	15.6	13.0
C	-	0.28	0.32	0.27
Ptotal to calc C from CN, use 2 yr 3 hr CHI stom	P(mm)	31.9	31.9	31.9
	Ia(mm)	4.67	4.67	4.67
	RV(mm)	5.9	7.0	5.6
C	-	0.18	0.22	0.18
Length of Channel	m	541	619	764
	ft	1776	2029	2507
Elevation of Head Water	m	91.52	92.07	91.50
	ft	300	302	300
Elevation of Outlet	m	90.31	91.00	91.00
	ft	296	299	299
Average Slope	m/m	0.22%	0.17%	0.07%
	ft/ft	0.22%	0.17%	0.07%
Kirpich				
Time of Concentration	mins	26	32	54
Time to Peak	min	17	21	36
Time to Peak	Hours	0.29	0.35	0.60
FAA (SCS)				
Time of Concentration	mins	103	113	186
Time to Peak	mins	69	75	124
Time to Peak	Hours	1.14	1.26	2.07
FAA (CHI)				
Time of Concentration	mins	114	128	207
Time to Peak	mins	76	86	138
Time to Peak	Hours	1.27	1.43	2.29
Barnsby Williams				
Time of Concentration	mins	32	37	58
Time to Peak	mins	21	25	39
Time to Peak	Hours	0.36	0.42	0.65
SCS				
Time of Concentration	mins	134	151	337
Time to Peak	mins	90	100	225
Time to Peak	Hours	1.49	1.67	3.75
Selected Method				
FAA (SCS)				
Time to Peak	min	69	75	124
Time to Peak	Hours	1.14	1.26	2.07

Note:

All methods calculated as per Appendix A of the SWMHYMO manual

Time to Peak calculated as 2/3 Time of concentration

```

1 20      Metric units / ID Numbers OFF
2 ***** ****
3 *# SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
4 ***** ****
5 *# Project Name: Barrhaven Conservancy Development
6 *# Project Number: 1474
7 *# Date       : 2021/Oct/18
8 *# Modeller   : J.Burnett, P.Eng.
9 *# Updated    : 2022/Dec/07 [JB]
10 *# Updated   : 2022/Dec/13 [LP]
11 *# Updated   : 2024/Mar/14 [JB]
12 *# Company   : J.F. Sabourin and Associates
13 *# License # : 2582634
14 ***** ****
15 START           TZERO=[1967.0101], METOUT=[2], NSTORM=[0], NRUN=[67]
16 *%             [ ""] <--storm filename, one per line for NSTORM time
17 *%
18 *# Ottawa International Airport (1967 - 2003)
19 READ AES DATA   AES_FILENAME=[ "YOW_1967_2007.123"],
20                   IELEM=[123], START_DATE=[0], END_DATE=[-364]
21 *%
22 COMPUTE API     APII=[50], APIK=[0.90]/day
23 *%
24 ***** ****
25 *#               Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE
DEVELOPMENT CONDITIONS
26 ****
27 *%
28 CONTINUOUS NASHYD NHYD=[ "West_1"], DT=[5](min), AREA=[14.27](ha)
29 DWF=[0](cms), CN/C=[72], IA=[4.67](mm), N=[3], TP=[1.14](hrs),
30 Continuous simulation parameters:
31 IaRECper=[6](hrs), SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
32 InterEventTime=[12](hrs)
33 Baseflow simulation parameters:
34 BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
35 VHydCond=[1.0](mm/hr), END=-1
36 *%
37 CONTINUOUS NASHYD NHYD=[ "West_2"], DT=[5](min), AREA=[20.14](ha)
38 DWF=[0](cms), CN/C=[76], IA=[4.67](mm), N=[3], TP=[1.26](hrs),
39 Continuous simulation parameters:
40 IaRECper=[6](hrs), SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
41 InterEventTime=[12](hrs)
42 Baseflow simulation parameters:
43 BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
44 VHydCond=[1.0](mm/hr), END=-1
45 *%
46 CONTINUOUS NASHYD NHYD=[ "West_3"], DT=[5](min), AREA=[14.01](ha)
47 DWF=[0](cms), CN/C=[71], IA=[4.67](mm), N=[3], TP=[2.07](hrs),
48 Continuous simulation parameters:
49 IaRECper=[6](hrs), SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
50 InterEventTime=[12](hrs)
51 Baseflow simulation parameters:
52 BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
53 VHydCond=[1.0](mm/hr), END=-1
54 *%
55 ADD HYD        NHYDsum=[ "West-Total"], NHYDs to add=[ "West_1", "West_2", "West_3"]
56 *%

```

```

54 *#####
55 *# Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE
56 DEVELOPMENT CONDITIONS
57 *# Set infiltration to 0 (CN = 99.99) for water balance analysis
58 *#####
59 CONTINUOUS NASHYD   NHYD=[ "INF-West_1" ], DT=[5](min), AREA=[14.27](ha)
60 DWF=[0](cms), CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[1.14](hrs),
61 Continuous simulation parameters:
62   IaRECper=[6](hrs), SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.00]/(mm),
63   InterEventTime=[12](hrs)
64 Baseflow simulation parameters:
65   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
66   VHydCond=[1.0](mm/hr), END=-1
67 *%-----
68 CONTINUOUS NASHYD   NHYD=[ "INF-West_2" ], DT=[5](min), AREA=[20.14](ha)
69 DWF=[0](cms), CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[1.26](hrs),
70 Continuous simulation parameters:
71   IaRECper=[6](hrs), SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.00]/(mm),
72   InterEventTime=[12](hrs)
73 Baseflow simulation parameters:
74   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
75 *%-----
76 CONTINUOUS NASHYD   NHYD=[ "INF-West_3" ], DT=[5](min), AREA=[14.01](ha)
77 DWF=[0](cms), CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[2.07](hrs),
78 Continuous simulation parameters:
79   IaRECper=[6](hrs), SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.00]/(mm),
80   InterEventTime=[12](hrs)
81 Baseflow simulation parameters:
82   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
83 *%-----
84 ADD HYD           NHYDsum=[ "INF-West-Total" ], NHYDs to
85 add=[ "INF-West_1", "INF-West_2", "INF-West_3" ]
86 *%-----
87 *##### CONTINUOUS RAINFALL DATA #####
88 *%-----
89 *%-----
90 START             TZERO=[1968.0101], METOUT=[2], NSTORM=[0], NRUN=[68]
91 *%-----
92 START             TZERO=[1969.0101], METOUT=[2], NSTORM=[0], NRUN=[69]
93 *%-----
94 START             TZERO=[1970.0101], METOUT=[2], NSTORM=[0], NRUN=[70]
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98 START             TZERO=[1972.0101], METOUT=[2], NSTORM=[0], NRUN=[72]
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101 *%-----
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112 START TZERO=[1979.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 79 ]
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120 START TZERO=[1983.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 83 ]
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122 START TZERO=[1984.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 84 ]
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135 *%
136 START TZERO=[1991.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 91 ]
137 *%
138 START TZERO=[1992.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 92 ]
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140 START TZERO=[1993.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 93 ]
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143 *%
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145 *%
146 START TZERO=[1996.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 96 ]
147 *%
```

```
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151 *%
152 START TZERO=[1999.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 99 ]
153 *%
154 START TZERO=[2000.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 100 ]
155 *%
156 *% MISSING FROM AES RAINFALL DATA
157 *%START TZERO=[2001.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 101 ]
158 *%
159 START TZERO=[2002.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 102 ]
160 *%
161 START TZERO=[2003.0101], METOUT=[ 2 ], NSTORM=[ 0 ], NRUN=[ 103 ]
162 *%
163 FINISH
```

```

00001+ =====
00002+ =====
00003+ SSSSS W W M M H H Y Y M M OOO 222 000 11 555 =====
00004+ SSSSS W W MM MM H H Y Y MM M O O 2 0 0 11 5 Ver 5.000
00005+ SSSSS W W M M HHHHH Y M M O O 2 0 0 11 5 Ver 5.000
00006+ SSSSS W W M M H H Y Y M M O O 222 0 0 11 555 FEB 2015
00007+ SSSSS W W M M H H Y Y M M O O 2 0 0 11 5 =====
00008+ SSSSS W W M M H H Y Y M M O O 2 0 0 11 555 =====
00009+ StormWater Management Hydrologic Model 222 000 11 555 =====
00010+
00011+ =====
00012+ =====
00013+ * SWHMHO Ver 5.000
00014+ * A single event and continuous hydrologic simulation model
00015+ * based on the principles of HDMO and its successors
00016+ * OTTHMHO-83 and CTHMHO-99
00017+ * Distributed by: J.F. Sabourin and Associates Inc.
00018+ * Ottawa, Ontario: (613) 836-3884
00019+ * E-mail: swhmho@fza.ca
00020+ * E-Mail: swhmho@fza.ca
00021+ * E-Mail: swhmho@fza.ca
00022+ * E-Mail: swhmho@fza.ca
00023+ =====
00024+ ===== Licensed user: JFSAINC. SERIAL#:#249237
00025+ =====
00026+ =====
00027+ =====
00028+ =====
00029+ ***** PROGRAM ARRAY DIMENSIONS *****
00030+ ***** Maximum value for flow numbers : 11
00031+ ***** Max. number of rainfall events : 105408
00032+ ***** Max. number of flow points : 105408
00033+ =====
00034+ ===== S U M M A R Y O U T P U T
00035+ =====
00036+ * RUN DATE: 2024-03-14 TIME: 20:05:04 RUN COUNTER: 008081
00037+ * [INRUM = 0067]
00038+ * Input file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.sum
00039+ * Output file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.out
00040+ * Summary file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.sum
00041+ * User comments:
00042+ * 
00043+ * 
00044+ * 
00045+ * 2:
00046+ * 3:
00047+ * 
00048+ * 
00049+ * 
00050+ * 
00051+ # SWHMHO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00052+ =====
00053+ * Project Name: Barrhaven Conservancy Development
00054+ * Project Number: 1474
00055+ * Date : 2021/Oct/18
00056+ * Modeler : J.Burnett, P.Eng.
00057+ * Updated : 2022/Dec/13 [LB]
00058+ * Updated : 2024/Mar/14 [LB]
00059+ * Company : J.F. Sabourin and Associates
00060+ * License # : 2582634
00061+ * 
00062+ * ** END OF RUN : 66
00063+ * 
00064+ * 
00065+ * 
00066+ * 
00067+ * 
00068+ * 
00069+ * 
00070+ * RUNN:COMMAND#
00071+ * R0671:00001
00072+ =====
00073+ * START
00074+ * [TZERO = 0.00 hrs on 19670101]
00075+ * [INRUM = 0067] [1=imperial, 2=metric output]
00076+ * [INSTRM = 0]
00077+ * [INRUM = 0067]
00078+ * 
00079+ # SWHMHO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00080+ =====
00081+ * Project Name: Barrhaven Conservancy Development
00082+ * Project Number: 1474
00083+ * Date : 2021/Oct/18
00084+ * Modeler : J.Burnett, P.Eng.
00085+ * Updated : 2022/Dec/13 [LB]
00086+ * Updated : 2024/Mar/14 [LB]
00087+ * Company : J.F. Sabourin and Associates
00088+ * License # : 2582634
00089+ * 
00090+ * 
00091+ * 
00092+ * R0671:00002
00093+ * READ AES DATA
00094+ * Filname = YOW_1967_2007.123
00095+ * [Start_date: 1967.0101; End_date: 1967.1231]
00096+ * [DT= 60; MinLength: 3984; hrs: NetHrs= 25; DryHrs= 372; PTOT= 386.90]
00097+ * Maximum average rainfall intensities over
00098+ * 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00099+ * 24.60 17.65 13.20 7.25 3.83 2.36 1.73 1.32 .90 mm/hr
00100+ * 24.60 17.65 13.20 7.25 3.83 2.36 1.73 1.32 .90 mm
00101+ * 19670211 19670211 19670211 19670212 19670222 19670222 19670223 19670223 date
00102+ * Number of rainfall events per following interevent time
00103+ * 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00104+ * 157 109 92 58 49 43 32
00105+ * Number of events with at least the following durations
00106+ * 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00107+ * 79 62 29
00108+ * R0671:00003
00109+ * COMPUTE API
00110+ * [APIInit= 30.00; APIKdy= .9000; APIKdt= .9956]
00111+ * [APIMax= 76.77; APIAvg= 24.81; APIStdv= 3.06]
00112+ * 
00113+ * 
00114+ * ===== Barrhaven Conservancy West Developments (WITH INfiltration) - PRE DEVELOPMENT CONDITIONS
00115+ * R0671:00004-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00116+ * CONTINUOUS_NASHYD 5.0.01:West_1 14.27 .144 1967.0921_18:30 63.09 .163 .000
00117+ * [iAECHC 6.00: SMIN= 39.75: SMAX=264.99: SKW .030]
00118+ * 
00119+ * R0671:00005-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00120+ * CONTINUOUS_NASHYD 5.0.01:West_2 20.14 .221 1967.0921_19:05 70.91 .183 .000
00121+ * [iAECHC 6.00: SMIN= 39.75: SMAX=264.99: SKW .030]
00122+ * [InterEventTime: 12.00]
00123+ * [iAECHC 6.00: SMIN= 39.75: SMAX=216.39: SKW .030]
00124+ * [InterEventTime: 12.00]
00125+ * R0671:00006-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00126+ * CONTINUOUS_NASHYD 5.0.01:West_3 48.42 .451 1967.0921_19:11 65.91 .n/a .000
00127+ * [iAECHC 6.00: SMIN= 39.75: SMAX=264.99: SKW .030]
00128+ * [InterEventTime: 12.00]
00129+ * [iAECHC 6.00: SMIN= 39.75: SMAX=264.99: SKW .030]
00130+ * R0671:00007-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00131+ * ADD HYD 5.0.02:West_1 .144 1967.0921_18:50 63.09 n/a .000
00132+ * + .000 1967.0921_18:50 63.09 n/a .000
00133+ * + 5.0.02:West_2 14.01 .102 1967.0921_20:15 61.60 n/a .000
00134+ * SUM 5.0.01:West_Total 48.42 .451 1967.0921_19:11 65.91 n/a .000
00135+ * 
00136+ * ===== Barrhaven Conservancy West Developments (WITHOUT INfiltration) - PRE DEVELOPMENT CONDITIONS
00137+ * 
00138+ * 
00139+ * 
00140+ * R0671:00008-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00141+ * CONTINUOUS_NASHYD 5.0.01:West_1 14.27 .389 1967.0921_18:20 157.58 .407 .000
00142+ * [iAECHC 6.00: SMIN= 1.39: SMAX= 9.24: SKW .000]
00143+ * 
00144+ * R0671:00009-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00145+ * CONTINUOUS_NASHYD 5.0.01:West_2 20.14 .517 1967.0921_18:30 157.58 .407 .000
00146+ * [iAECHC 6.00: SMIN= 1.39: SMAX= 9.24: SKW .000]
00147+ * [InterEventTime: 12.00]
00148+ * [iAECHC 6.00: SMIN= 1.39: SMAX= 9.24: SKW .000]
00149+ * [InterEventTime: 12.00]
00150+ * R0671:00010-----Dtn-ID:NYHYD-----ARSAh-QPEAKcms-TpeakDate_hh:mm----RVm-R.C.--DWFcms
00151+ * CONTINUOUS_NASHYD 5.0.01:West_3 48.42 .122 1967.0921_18:35 157.58 n/a .000
00152+ * 
00153+ * 
00154+ * 
00155+ * R0671:00011
00156+ * CONTINUOUS_NASHYD 5.0.01:West_1 14.01 .266 1967.0921_19:30 157.58 .407 .000
00157+ * [iAECHC 6.00: SMIN= 1.39: SMAX= 9.24: SKW .000]
00158+ * [InterEventTime: 12.00]
00159+ * [iAECHC 6.00: SMIN= 1.39: SMAX= 9.24: SKW .000]
00160+ * 
00161+ * ===== CONTINUOUS RAINFALL DATA
00162+ * 
00163+ * ** END OF RUN : 67
00164+ * 
00165+ * 
00166+ * 
00167+ * 
00168+ * 
00169+ * 
00170+ * 
00171+ * RUNN:COMMAND#
00172+ * R0671:00001
00173+ * START
00174+ * [TZERO = 0.00 hrs on 19680101]
00175+ * [METOUT= 2 (1=imperial, 2=metric output)]
00176+ * [INRUM = 0068]
00177+ * [INRUM = 0068]
00178+ * 
00179+ # SWHMHO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00180+ =====

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00361> # CONTINUOUS RAINFALL DATA
00362> ****END OF RUN : 69
00363>
00364> **** END OF RUN : 69
00365> ****
00366> ****
00367> ****
00368> ****
00369> ****
00370> ****
00371> RUN#:COMMAND#
00372> R0701:CO0001
00373> ****
00374> [*TZERO = .00 hrs on 19700101]
00375> [*METOUT = 2 (Imperial, 2=metric output)]
00376> [*INSTRM= 0]
00377> [*NRUN= 0071 ]
00378> ****
00379> # SWHMHYO Ver:5.02/Jan 2001 <BT&TA> / INPUT DATA FILE
00380> ****
00381> # Project Name: Barrhaven Conservancy Development
00382> # Project Number: 1474
00383> # Date : 2021/Oct/18
00384> # Modeler : J.Burnett, P.Eng.
00385> # Updated : 2022/Dec/13 [JB]
00386> # Updated : 2022/Dec/13 [JB]
00387> # Updated : 2024/Mar/14 [JB]
00388> # Company : J.F. Sabourin and Associates
00389> # License # : 2582634
00390> ****
00391> # Ottawa International Airport (1967 - 2003)
00392> R0701:CO0002
00393> * READ AHS DATA
00394> [*Filename = YOM_1967_2007.123
00395> [*Start_date= 1970.0101_End_date= 1970.1231]
00396> (*DT= 60:min; Length= 8760,hrs; Wethrs= 373; DryHrs= 8387; PTOT= 558.30)
00397> Maximum average rainfall intensities over
00398> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00399> 35.30 .30 12.20 6.10 3.63 1.81 1.21 1.46 .99 mm/hr
00400> 35.30 .36 .60 36.40 43.50 43.50 45.30 69.30 71.20
00401> 13970101 19700101 19700101 19700101 19700101 19700101 19700101 19700101 19700101 date
00402> Number of rainfall events per following interevent time
00403> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00404> 148 129 110 100 94 85 74 61 54 n/a .00
00405> Number of events with at least the following durations
00406> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00407> 147 79 46 30 9 0 0 0 0 0
00408> R0701:CO0003
00409> # COMPUTE API
00410> [*APIfinc= 50.00; APIkdt= .9000; APIkdn= .9956]
00411> (*APImax= 76.00; APIavg= 15.84; APImin= .07)
00412> ****
00413> # Barrhaven Conservancy Development (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00414> ****
00415> R0701:CO0004
00416> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00417> CONTINUOUS_NASHYD 5.0 01:INF-West_1 14.27 .193 1970.0926_22:00 52.85 .095 .000
00418> [*TZERO = 6.00; SMIN= 39.75; SMAX=264.99; SKW= .030]
00419> R0701:CO0005
00420> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00421> CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .282 1970.0926_22:05 60.26 .108 .000
00422> [*CN= 76.01; NC= 3.00; Tp= 1.26]
00423> [*INSTRM= 0]
00424> [*TZERO = 12.00]
00425> [*InterEventTime= 12.00]
00426> R0701:CO0006
00427> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00428> CONTINUOUS_NASHYD 5.0 01:West_3 14.01 .108 1970.0926_23:15 51.48 .092 .000
00429> [*CN= 71.01; NC= 3.00; Tp= 2.07]
00430> [*INSTRM= 0]
00431> [*TZERO = 12.00]
00432> [*InterEventTime= 12.00]
00433> R0701:CO0007
00434> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00435> ADD HYD 5.0 02:West_1 14.27 .436 1970.0926_21:50 52.85 n/a .000
00436> [*TZERO = 6.00; SMIN= 39.75; SMAX=264.99; SKW= .030]
00437> [*INSTRM= 0]
00438> [*TZERO = 12.00]
00439> [*InterEventTime= 12.00]
00440> R0701:CO0008
00441> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00442> CONTINUOUS_NASHYD 5.0 01:INF-West_1 14.27 .436 1970.0926_21:50 1970.67 320 .000
00443> [*TZERO = 6.00; SMIN= 39.75; SMAX= 9.24; SKW= .000]
00444> R0701:CO0009
00445> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00446> CONTINUOUS_NASHYD 5.0 01:INF-West_2 20.14 .563 1970.0926_21:55 1970.67 320 .000
00447> [*CN=100.0; NC= 3.00; Tp= 1.26]
00448> [*INSTRM= 0]
00449> [*TZERO = 12.00]
00450> [*InterEventTime= 12.00]
00451> R0701:CO0010
00452> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00453> CONTINUOUS_NASHYD 5.0 01:West_3 14.01 .247 1970.0926_22:45 1970.67 320 .000
00454> [*CN=100.0; NC= 3.00; Tp= 2.07]
00455> [*INSTRM= 0]
00456> [*TZERO = 12.00]
00457> [*InterEventTime= 12.00]
00458> R0701:CO0011
00459> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00460> CONTINUOUS_NASHYD 5.0 01:INF-West_1 14.01 .436 1970.0926_22:45 1970.67 320 .000
00461> [*TZERO = 6.00; SMIN= 39.75; SMAX= 9.24; SKW= .000]
00462> **** END OF RUN : 70
00463>
00464> **** END OF RUN : 70
00465>
00466>
00467>
00468>
00469>
00470>
00471> RUN#:COMMAND#
00472> R0701:CO0001
00473> ****
00474> [*TZERO = .00 hrs on 197010101]
00475> [*METOUT = 2 (Imperial, 2=metric output)]
00476> [*INSTRM= 0]
00477> [*NRUN= 0071 ]
00478> ****
00479> # SWHMHYO Ver:5.02/Jan 2001 <BT&TA> / INPUT DATA FILE
00480> ****
00481> # Project Name: Barrhaven Conservancy Development
00482> # Project Number: 1474
00483> # Date : 2021/Oct/18
00484> # Modeler : J.Burnett, P.Eng.
00485> # Updated : 2022/Dec/07 [JB]
00486> # Updated : 2022/Dec/13 [JB]
00487> # Updated : 2024/Mar/14 [JB]
00488> # Company : J.F. Sabourin and Associates
00489> # License # : 2582634
00490> ****
00491> # Ottawa International Airport (1967 - 2003)
00492> R0701:CO0002
00493> * READ AHS DATA
00494> [*Filename = YOM_1967_2007.123
00495> [*Start_date= 1971.0101_End_date= 1971.1231]
00496> (*DT= 60:min; Length= 8760,hrs; Wethrs= 412; DryHrs= 8348; PTOT= 522.10)
00497> Maximum average rainfall intensities over
00498> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00499> 24.60 16.60 11.67 6.13 3.09 1.56 1.06 1.79 .54 mm/hr
00500> 24.60 .32 .30 36.80 37.10 37.40 38.00 38.00 38.90
00501> 19710101 19710101 19710101 19710101 19710101 19710101 19710101 19710101 19710101 date
00502> Number of rainfall events per following interevent time
00503> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00504> 156 121 81 61 52 42 33
00505> Number of events with at least the following durations
00506> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00507> 156 81 59 21 2 0 0 0 0
00508> R0701:CO0003
00509> # COMPUTE API
00510> [*APIfinc= 50.00; APIkdt= .9000; APIkdn= .9956]
00511> (*APImax= 76.00; APIavg= 15.84; APImin= .07)
00512> ****
00513> # Barrhaven Conservancy West Development (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00514> ****
00515> R0701:CO0004
00516> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00517> CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .140 1971.0810_16:30 39.74 .076 .000
00518> [*TZERO = 6.00; SMIN= 39.75; SMAX=264.99; SKW= .030]
00519> [*TZERO = 12.00]
00520> R0701:CO0006
00521> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00522> CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .212 1971.0810_16:35 45.48 n/a .000
00523> [*CN= 76.01; NC= 3.00; Tp= 1.26]
00524> [*INSTRM= 0]
00525> [*TZERO = 12.00]
00526> R0701:CO0007
00527> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00528> CONTINUOUS_NASHYD 5.0 01:West_3 14.01 .085 1971.0810_17:20 38.68 .074 .000
00529> [*CN= 71.01; NC= 3.00; Tp= 2.07]
00530> [*INSTRM= 0]
00531> [*TZERO = 12.00]
00532> R0701:CO0008
00533> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms
00534> ADD HYD 5.0 02:West_1 14.27 .140 1971.0810_16:30 39.74 n/a .000
00535> [*TZERO = 6.00; SMIN= 39.75; SMAX=264.99; SKW= .030]
00536> [*INSTRM= 0]
00537> [*TZERO = 12.00]
00538> # Set infiltration to 0 (CN = 99.99) for water balance analysis
00539> R0701:CO0009
00540> * DIn1-ID:NYHYD---ARAh-a-QPEAKms-TpeakDate_h:mm---RVm-R.C.--DWFcms

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00721: [CN=76.01:West_2 20.14 .336 1973.0808_21:00 101.49 .136 .000
00722:]#CONTINUOUS NASHYD 5.0 01:West_2 20.14 .336 1973.0808_21:00 101.49 .136 .000
00723: [DTin-ID:NHYD-]#InterEventTime: 12.00h
00724: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00725: R0731c:000006-----
00726: [CN=71.01:West_3 14.01 .132 1973.0808_21:45 87.18 .117 .000
00727: [CN=71.01:West_3 3.00: Tpe: 2.07]
00728: [iAECM 6.00: SMIN: 41.38: SMAX:275.84: SKa .030]
00729: [InterEventTime: 12.00h]
00730: R0731c:000007-----
00731: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00732: ADD HYD + 5.0 02:West_1 14.27 .228 1973.0808_20:51 89.43 n/a .000
00733: + 5.0 02:West_2 20.14 .336 1973.0808_21:00 101.49 n/a .000
00734: + 5.0 02:West_3 14.01 .132 1973.0808_21:45 87.18 .117 .000
00735: SIM# 5.0 01:West_Total 48.42 .674 1973.0808_21:00 93.79 n/a .000
00736: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) PRE DEVELOPMENT CONDITIONS
00737: # Set Infiltration to 0 (CN = 99.99) for water balance analysis
00738: # R0731c:000008-----
00739: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00740: CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .497 1973.0808_20:35 275.63 .370 .000
00741: [CN=100.01: No 3.00: Tpe: 1.26]
00742: [iAECM 6.00: SMIN: 1.39: SMAX: 9.24: SKa .000]
00743: [InterEventTime: 12.00h]
00744: R0731c:000010-----
00745: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00746: CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .650 1973.0808_20:45 275.63 .370 .000
00747: [CN=100.01: No 3.00: Tpe: 1.26]
00748: [iAECM 6.00: SMIN: 1.39: SMAX: 9.24: SKa .000]
00749: [InterEventTime: 12.00h]
00750: R0731c:000010-----
00751: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00752: CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .300 1973.0808_21:30 275.63 .370 .000
00753: [CN=100.01: No 3.00: Tpe: 2.07]
00754: [iAECM 6.00: SMIN: 1.39: SMAX: 9.24: SKa .000]
00755: [InterEventTime: 12.00h]
00756: R0731c:00011-----
00757: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00758: ADD HYD + 5.0 02:INF-West_1 14.27 .497 1973.0808_20:35 275.63 n/a .000
00759: + 5.0 02:INF-West_2 20.14 .650 1973.0808_20:45 275.63 n/a .000
00760: SIM# 5.0 01:INF-West_3 48.42 1.401 1973.0808_20:45 275.63 n/a .000
00761: # CONTINUOUS RAINFALL DATA
00762: *** END OF RUN : 73
00763: #
00764: #
00765: #
00766: #
00767: #
00768: #
00769: #
00770: #
00771: RUN:#COMMAND#
00772: R0741c:000001-----
00773: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00774: [METOUT= 2 (Imperial, 2=metric output)]
00775: [INRNU= 0074]
00776: #
00777: #
00778: # SWHMHO Ver5.02/Jan 2001 BETA# / INPUT DATA FILE
00779: #
00780: #
00781: # Project Name: Barrhaven Conservancy Development
00782: # Project Number: 1474
00783: # Modeler : J. Burnett, P.Eng.
00784: # Updated : 2022/Dec/07 [JB]
00785: # Updated : 2024/Mar/14 [JB]
00786: # Updated : 2024/Mar/14 [JB]
00787: # Company : J.F. Sabourin and Associates
00788: # License #: 2582634
00789: #
00790: #
00791: # Ottawa International Airport (1967 - 2003)
00792: #
00793: READ AER DATA
00794: [Filename = YOW_1967_2007.123] 1
00795: [Start_date= 19740719 19740719 19740713 19740500 19740306 19740307 date
00796: [DT= 60:min; Length= 8760:hrs; WetHrs= 320; DryHrs= 8440; PTOT= 386.20]
00797: Maximum average rainfall intensities over
00798: 1 hr 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00799: 20.40 13.40 10.47 8.18 6.98 5.98 5.18 4.54 mm/hr
00800: 20.60 30.80 31.18 35.70 39.00 39.00 39.00 39.00 mm
00801: 19740718 19740719 19740719 19740713 19740500 19740306 19740307 date
00802: # Rainfall and runoff volumes over following durations
00803: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00804: 1.29 2.15 3.94 6.3 6.3 5.0 38 33 23
00805: Number of events with at least the following durations
00806: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00807: 1.28 66 32 10 3 0 0 0 0 0
00808: R0741c:000002-----
00809: COMPUTE API
00810: [APIInit= 50.00: APIkdt= .9000: APIkds= .9956]
00811: [APIInit= 50.00: APIkdt= .9000: APIkds= .9956]
00812: #
00813: # Barrhaven Conservancy West Developments (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
00814: #
00815: R0741c:000004-----
00816: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00817: CONTINUOUS NASHYD 5.0 01:West_1 14.27 .085 1974.0719_1:40 24.04 .062 .000
00818: [CN=100.01: No 3.00: Tpe: 1.24]
00819: [iAECM 6.00: SMIN: 39.75: SMAX:264.99: SKa .030]
00820: [InterEventTime: 12.00h]
00821: R0741c:000005-----
00822: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00823: CONTINUOUS NASHYD 5.0 01:West_2 20.14 .130 1974.0719_1:45 27.63 .072 .000
00824: [CN=76.01:No 3.00: Tpe: 1.26]
00825: [iAECM 6.00: SMIN: 41.38: SMAX:275.84: SKa .030]
00826: [InterEventTime: 12.00h]
00827: R0741c:000005-----
00828: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00829: ADD HYD + 5.0 02:West_1 14.27 .085 1974.0719_1:40 24.04 n/a .000
00830: + 5.0 02:West_2 20.14 .130 1974.0719_1:45 27.61 n/a .000
00831: SIM# 5.0 01:West_Total 48.42 .257 1974.0719_1:45 25.33 n/a .000
00832: # Barrhaven Conservancy West Developments (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
00833: # Set Infiltration to 0 (CN = 99.99) for water balance analysis
00834: # R0741c:000006-----
00835: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00836: CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .310 1974.0719_1:20 95.45 .247 .000
00837: [CN=100.01: No 3.00: Tpe: 1.24]
00838: [iAECM 6.00: SMIN: 1.39: SMAX: 9.24: SKa .000]
00839: [InterEventTime: 12.00h]
00840: R0741c:000011-----
00841: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00842: CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .189 1974.0719_2:10 95.45 .247 .000
00843: [CN=76.01:No 3.00: Tpe: 1.26]
00844: [iAECM 6.00: SMIN: 1.39: SMAX: 9.24: SKa .000]
00845: [InterEventTime: 12.00h]
00846: R0741c:000011-----
00847: [DTin-ID:NHYD-]#ARSAha-QPEAKms-TpeakDate_hh:mm---RVmm-R.C.--DWFcms
00848: ADD HYD + 5.0 02:INF-West_1 14.27 .310 1974.0719_1:20 95.45 n/a .000
00849: + 5.0 02:INF-West_2 20.14 .408 1974.0719_1:30 95.45 n/a .000
00850: SIM# 5.0 01:INF-West_3 48.42 .880 1974.0719_1:30 95.45 n/a .000
00851: #
00852: #
00853: #
00854: #
00855: #
00856: #
00857: #
00858: #
00859: #
00860: #
00861: #
00862: #
00863: #
00864: #
00865: #
00866: #
00867: #
00868: #
00869: #
00870: #
00871: RUN:#COMMAND#
00872: R0751c:000001-----
00873: START:
00874: [TZERO = .00 hrs on 19770101]
00875: [METOUT= 2 (Imperial, 2=metric output)]
00876: [INRNU= 0074]
00877: #
00878: # SWHMHO Ver5.02/Jan 2001 BETA# / INPUT DATA FILE
00879: #
00880: #
00881: # Project Name: Barrhaven Conservancy Development
00882: # Project Number: 1474
00883: # Modeler : J. Burnett, P.Eng.
00884: # Updated : 2022/Dec/07 [JB]
00885: # Updated : 2024/Mar/14 [JB]
00886: # Updated : 2024/Mar/14 [JB]
00887: # Company : J.F. Sabourin and Associates
00888: # License #: 2582634
00889: #
00890: #
00891: # Ottawa International Airport (1967 - 2003)
00892: #
00893: READ AER DATA
00894: [Filename = YOW_1967_2007.123] 1
00895: [Start_date= 1975.0108 1975.0108 1975.1231]
00896: [DT= 60:min; Length= 8760:hrs; WetHrs= 344; DryHrs= 8416; PTOT= 535.50]
00897: Maximum average rainfall intensities over
00898: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00899: 34.80 18.40 12.58 6.62 3.33 2.11 1.62 1.42 1.22 mm/hr
00900: 34.80 36.88 37.60 37.90 40.00 41.50 41.80 44.40 mm

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01081# Project Name: Barrhaven Conservancy Development
01082# Project Number: 1474
01083# Date : 2024/Oct/18
01084# Modeler : J.Burnett, P.Eng.
01085# Updated : 2022/Dec/07 [JB]
01086# Updated : 2022/Dec/13 [JB]
01087# Updated : 2024/Mar/14 [JB]
01088# Company : J.F.Sabourin and Associates
01089# License # : 2882634
01090# ****
01091# Ottawa International Airport (1967 - 2003)
R0077:COM0001-----#
01093# READ AER DATA
01094# [Filename = YOW_1967_2007.123] 1
01095# [Start_date= 1977.0101; End_date= 1977.1231]
01096# [Dtmn= ID-NHYD; Length= 801 hrs; WetHrs= 512; DryHrs= 7504; PTOT= 677.80]
01097# Maximum average rainfall intensities over
01098# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01099# 20.30 20.40 19.40 39.40 1.46 1.40 1.06 .73 .73
01100# 21.30 30.40 30.40 39.30 39.60 39.80 50.40 51.00 52.40 .000
01101# 19770717 19770717 19770717 19770714 19770714 19770714 19770718 date
01102# 19770717 19770717 19770717 19770717 19770717 19770717 19770718
01103# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01104# 172 142 126 89 78 63 53 42 30
01105# Number of events with at least the following durations
01106# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01107# 171 88 60 22 5 1 0 0 0 0
01108# R0077:COM0001-----#
01109# COMPUTE API
01110# [APIname= 50.00; APIfavg=.9000; APIkds=.9956]
01111# [APImax=.65.36; APIfavg=.19.25; APIkds=.25]
01112# ****
01113# Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01114# Dtmn-ID-NHYD-----ARAAh-QPEAKcms-TpeakDate_hh:mm::--Rvnn-R.C.--DWFcms
01115# R0077:COM0004-----[Dtmn-ID-NHYD]
01116# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .145 1977.0901_23:50 70.59 .104 .000
01117# [CN=72.0: N= 3.00; Tp= 1.41]
01118# [iAECN= 6.00; SMAX=264.99; SKW= .030]
01119# [InterEventTime= 12.00]
01120# R0077:COM0005-----[Dtmn-ID-NHYD]
01121# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .217 1977.0901_23:55 80.37 n/a .000
01122# [CN=76.0: N= 3.00; Tp= 1.26]
01123# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01124# SIM= 5.0 01:West_Total 48.42 .496 1977.0901_23:55 74.13 n/a .000
01125# R0077:COM0006-----[Dtmn-ID-NHYD]
01126# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .085 1977.0902_04:40 68.77 .101 .000
01127# [CN=100.0: N= 3.00; Tp= 1.41]
01128# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01129# [InterEventTime= 12.00]
01130# R0077:COM0007-----[Dtmn-ID-NHYD]
01131# ADD HVD 5.0 02:West_1 14.27 .145 1977.0901_23:50 70.59 n/a .000
01132# + 5.0 02:West_2 20.14 .217 1977.0901_23:55 80.37 n/a .000
01133# [CN=72.0: N= 3.00; Tp= 1.41]
01134# SIM= 5.0 02:West_Total 48.42 .496 1977.0901_23:55 74.13 n/a .000
01135# R0077:COM0008-----[Dtmn-ID-NHYD]
01136# CONTINUOUS_NASHYD 5.0 01:West_1 13.99 .085 1977.0902_04:40 68.77 .101 .000
01137# [CN=100.0: N= 3.00; Tp= 1.41]
01138# Set infiltration to 0 (CN = 99.99) for water balance analysis
01139# ****
01140# R0077:COM0008-----[Dtmn-ID-NHYD]
01141# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .364 1977.0901_23:55 229.46 .339 .000
01142# [CN=100.0: N= 3.00; Tp= 1.41]
01143# [iAECN= 6.00; SMAX=264.99; SKW= .030]
01144# [InterEventTime= 12.00]
01145# R0077:COM0009-----[Dtmn-ID-NHYD]
01146# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .481 1977.0901_23:55 229.46 n/a .000
01147# [CN=76.0: N= 3.00; Tp= 1.26]
01148# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01149# SIM= 5.0 01:West_Total 48.42 .634 1977.0901_23:55 229.46 n/a .000
01150# R0077:COM0010-----[Dtmn-ID-NHYD]
01151# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .234 1977.0902_04:20 229.46 .339 .000
01152# [CN=100.0: N= 3.00; Tp= 1.41]
01153# [iAECN= 6.00; SMAX=216.39; SKW= .000]
01154# [InterEventTime= 12.00]
01155# R0077:COM0011-----[Dtmn-ID-NHYD]
01156# ADD HVD 5.0 02:West_1 14.27 .364 1977.0901_23:50 229.46 n/a .000
01157# + 5.0 02:West_2 20.14 .481 1977.0901_23:55 229.46 n/a .000
01158# [CN=72.0: N= 3.00; Tp= 1.41]
01159# SIM= 5.0 02:West_Total 48.42 .634 1977.0901_23:55 229.46 n/a .000
01160# R0077:COM0011-----#
01161# CONTINUOUS_NASHYD
01162# END OF RUN 77
01163# ****
01164# R0077:COM0011-----#
01165# R0077:COM0012-----#
01166# END OF RUN 77
01167# ****
01168# R0077:COM0012-----#
01169# ****
01170# R0077:COM0012-----#
01171# R0077:COM0012-----#
01172# R0077:COM0001-----#
01173# START
01174# [INTERPER = .00 hrs on 19780101]
01175# [METOUT= 1] (1=imperial, 2=metric output)
01176# [INSTRNM= 0 ]
01177# [INTERP= 1]
01178# ****
01179# SWHMHO Ver.5.02/Jan 2001 *BETA*/ INPUT DATA FILE
01180# ****
01181# Project Name: Barrhaven Conservancy Development
01182# Project Number: 1474
01183# Date : 2024/Oct/18
01184# Modeler : J.Burnett, P.Eng.
01185# Updated : 2022/Dec/07 [JB]
01186# Updated : 2022/Dec/13 [JB]
01187# Updated : 2024/Mar/14 [JB]
01188# Company : J.F. Sabourin and Associates
01189# License # : 2882634
01190# ****
01191# Ottawa International Airport (1967 - 2003)
R0078:COM0002-----#
01193# READ AER DATA
01194# [Filename = YOW_1967_2007.123] 1
01195# [Start_date= 1978.0101; End_date= 1978.1231]
01196# [Dtmn= ID-NHYD; Length= 801 hrs; WetHrs= 7613; DryHrs= 641.40]
01197# Maximum average rainfall intensities over
01198# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01199# 36.00 36.30 36.30 36.50 .39.40 40.60 41.60 41.60 .000
01200# 36.00 36.30 36.30 36.50 .39.40 40.60 41.60 41.60 .000
01201# 19780611 19780618 19780618 19780611 19780611 19780612 19780621 date
01202# 19780611 19780618 19780618 19780611 19780611 19780612 19780621
01203# Number of rainfall events per following interval time
01204# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01205# 154 128 118 97 71 58 51 46 33
01206# Number of events with at least the following durations
01207# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01208# 154 75 44 18 5 0 0 0 0
01209# R0078:COM0001-----#
01210# COMPUTE API
01211# [APIname= 50.00; APIfavg=.9000; APIkds=.9956]
01212# [APImax=.65.36; APIfavg=.19.25; APIkds=.25]
01213# ****
01214# Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01215# Dtmn-ID-NHYD-----ARAAh-QPEAKcms-TpeakDate_hh:mm::--Rvnn-R.C.--DWFcms
01216# R0078:COM0004-----[Dtmn-ID-NHYD]
01217# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .180 1978.0618_17:55 53.70 .984 .000
01218# [CN=72.0: N= 3.00; Tp= 1.41]
01219# [iAECN= 6.00; SMAX=264.99; SKW= .030]
01220# R0078:COM0005-----[Dtmn-ID-NHYD]
01221# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .264 1978.0618_18:05 61.75 .096 .000
01222# [CN=76.0: N= 3.00; Tp= 1.26]
01223# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01224# R0078:COM0006-----[Dtmn-ID-NHYD]
01225# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .098 1978.0618_18:50 52.22 .081 .000
01226# [CN=100.0: N= 3.00; Tp= 1.41]
01227# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01228# SIM= 5.0 01:West_Total 48.42 .324 1978.0618_18:50 52.22 .081 .000
01229# [InterEventTime= 12.00]
01230# R0078:COM0007-----[Dtmn-ID-NHYD]
01231# ADD HVD 5.0 02:West_1 14.27 .441 1978.0618_17:45 214.51 .334 .000
01232# + 5.0 02:West_2 20.14 .568 1978.0618_17:55 214.53 n/a .000
01233# [CN=72.0: N= 3.00; Tp= 1.41]
01234# SIM= 5.0 02:West_Total 48.42 .432 1978.0618_17:45 214.51 .334 .000
01235# R0078:COM0008-----[Dtmn-ID-NHYD]
01236# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .180 1978.0618_17:45 214.51 .334 .000
01237# [CN=72.0: N= 3.00; Tp= 1.41]
01238# Set infiltration to 0 (CN = 99.99) for water balance analysis
01239# ****
01240# R0078:COM0008-----[Dtmn-ID-NHYD]
01241# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .264 1978.0618_18:40 214.53 .334 .000
01242# [CN=76.0: N= 3.00; Tp= 1.26]
01243# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01244# [InterEventTime= 12.00]
01245# R0078:COM0009-----[Dtmn-ID-NHYD]
01246# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .098 1978.0618_18:40 214.53 .334 .000
01247# [CN=100.0: N= 3.00; Tp= 1.41]
01248# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01249# [InterEventTime= 12.00]
01250# R0078:COM0010-----[Dtmn-ID-NHYD]
01251# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .247 1978.0618_18:40 214.53 .334 .000
01252# [CN=100.0: N= 3.00; Tp= 1.41]
01253# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01254# [InterEventTime= 12.00]
01255# R0078:COM0011-----[Dtmn-ID-NHYD]
01256# ADD HVD 5.0 02:West_1 14.27 .441 1978.0618_17:45 214.51 .334 .000
01257# + 5.0 02:West_2 20.14 .568 1978.0618_17:55 214.53 n/a .000
01258# [CN=72.0: N= 3.00; Tp= 1.41]
01259# SIM= 5.0 02:West_Total 48.42 .432 1978.0618_17:45 214.53 n/a .000
01260# [InterEventTime= 12.00]
01261# R0078:COM0012-----[Dtmn-ID-NHYD]
01262# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .441 1978.0618_17:45 214.51 .334 .000
01263# [CN=76.0: N= 3.00; Tp= 1.26]
01264# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01265# [InterEventTime= 12.00]
01266# R0078:COM0013-----[Dtmn-ID-NHYD]
01267# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .568 1978.0618_18:40 214.53 .334 .000
01268# [CN=76.0: N= 3.00; Tp= 1.41]
01269# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01270# [InterEventTime= 12.00]
01271# R0078:COM0014-----[Dtmn-ID-NHYD]
01272# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .441 1978.0618_17:45 214.51 .334 .000
01273# [CN=76.0: N= 3.00; Tp= 1.26]
01274# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01275# [InterEventTime= 12.00]
01276# R0078:COM0015-----[Dtmn-ID-NHYD]
01277# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .568 1978.0618_18:40 214.53 .334 .000
01278# [CN=76.0: N= 3.00; Tp= 1.41]
01279# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01280# [InterEventTime= 12.00]
01281# R0078:COM0016-----[Dtmn-ID-NHYD]
01282# Project Name: Barrhaven Conservancy Development
01283# Project Number: 1474
01284# Date : 2024/Oct/18
01285# Modeler : J.Burnett, P.Eng.
01286# Updated : 2022/Dec/07 [JB]
01287# Updated : 2022/Dec/13 [JB]
01288# Updated : 2024/Mar/14 [JB]
01289# Company : J.F. Sabourin and Associates
01290# License # : 2882634
01291# ****
01292# Ottawa International Airport (1967 - 2003)
R0080:COM0002-----#
01293# READ AER DATA
01294# [Filename = YOW_1967_2007.123] 1
01295# [Start_date= 1979.0101; End_date= 1979.1231]
01296# [Dtmn= 60:min; Length= 8760 hrs; WetHrs= 546; DryHrs= 8214; PTOT= 866.50]
01297# Maximum average rainfall intensities over
01298# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01299# 34.90 22.00 14.67 7.33 5.14 2.63 1.75 1.31 .88 .000
01300# 34.90 44.00 44.00 44.00 61.70 63.00 63.00 63.00 .000
01301# 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 .000
01302# Number of rainfall events per following interevent time
01303# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01304# 124 88 60 22 5 1 0 0 0
01305# Number of events with at least the following durations
01306# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01307# 127 107 81 34 10 2 0 0 0
01308# R0080:COM0003-----#
01309# COMPUTE API
01310# [APIname= 50.00; APIfavg=.9000; APIkds=.9956]
01311# [APImax=.65.36; APIfavg=.19.25; APIkds=.25]
01312# ****
01313# Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01314# Dtmn-ID-NHYD-----ARAAh-QPEAKcms-TpeakDate_hh:mm::--Rvnn-R.C.--DWFcms
01315# R0080:COM0004-----[Dtmn-ID-NHYD]
01316# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .252 1979.0616_14:55 141.56 .163 .000
01317# [CN=72.0: N= 3.00; Tp= 1.41]
01318# [iAECN= 6.00; SMAX=39.75; SKW= .030]
01319# [InterEventTime= 12.00]
01320# R0080:COM0005-----[Dtmn-ID-NHYD]
01321# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .367 1979.0616_15:00 159.06 .184 .000
01322# [CN=76.0: N= 3.00; Tp= 1.26]
01323# [iAECN= 6.00; SMAX=264.99; SKW= .030]
01324# [InterEventTime= 12.00]
01325# R0080:COM0006-----[Dtmn-ID-NHYD]
01326# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .367 1979.0616_15:00 159.06 .184 .000
01327# [CN=100.0: N= 3.00; Tp= 1.41]
01328# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01329# [InterEventTime= 12.00]
01330# R0080:COM0007-----[Dtmn-ID-NHYD]
01331# ADD HVD 5.0 02:West_1 14.27 .252 1979.0616_14:55 141.56 .163 .000
01332# + 5.0 02:West_2 20.14 .367 1979.0616_15:00 159.06 .184 .000
01333# [CN=72.0: N= 3.00; Tp= 1.41]
01334# SIM= 5.0 02:West_Total 48.42 .634 1979.0616_15:00 159.06 .184 .000
01335# R0080:COM0008-----[Dtmn-ID-NHYD]
01336# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .252 1979.0616_14:55 141.56 .163 .000
01337# [CN=72.0: N= 3.00; Tp= 1.41]
01338# Set infiltration to 0 (CN = 99.99) for water balance analysis
01339# ****
01340# R0080:COM0008-----[Dtmn-ID-NHYD]
01341# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .367 1979.0616_15:00 159.06 .184 .000
01342# [CN=76.0: N= 3.00; Tp= 1.26]
01343# [iAECN= 6.00; SMAX=264.99; SKW= .030]
01344# [InterEventTime= 12.00]
01345# R0080:COM0009-----[Dtmn-ID-NHYD]
01346# CONTINUOUS_NASHYD 5.0 01:West_1 14.01 .367 1979.0616_15:00 159.06 .184 .000
01347# [CN=100.0: N= 3.00; Tp= 1.41]
01348# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01349# [InterEventTime= 12.00]
01350# R0080:COM0010-----[Dtmn-ID-NHYD]
01351# ADD HVD 5.0 02:West_1 14.27 .367 1979.0616_15:00 159.06 .184 .000
01352# [CN=72.0: N= 3.00; Tp= 1.41]
01353# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01354# [InterEventTime= 12.00]
01355# R0080:COM0011-----[Dtmn-ID-NHYD]
01356# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .367 1979.0616_15:00 159.06 .184 .000
01357# [CN=76.0: N= 3.00; Tp= 1.26]
01358# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01359# [InterEventTime= 12.00]
01360# R0080:COM0012-----[Dtmn-ID-NHYD]
01361# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .367 1979.0616_15:00 159.06 .184 .000
01362# [CN=76.0: N= 3.00; Tp= 1.41]
01363# Set infiltration to 0 (CN = 99.99) for water balance analysis
01364# ****
01365# R0080:COM0012-----[Dtmn-ID-NHYD]
01366# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .367 1979.0616_15:00 159.06 .184 .000
01367# [CN=76.0: N= 3.00; Tp= 1.41]
01368# [iAECN= 6.00; SMAX=275.84; SKW= .030]
01369# [InterEventTime= 12.00]
01370# R0080:COM0013-----[Dtmn-ID-NHYD]
01371# RUNN:COMMAND#
01372# R0080:COM0001-----#
01373# START
01374# [INTERPER = .00 hrs on 19800101]
01375# [METOUT= 1] (1=imperial, 2=metric output)
01376# [INSTRNM= 0 ]
01377# [INTERP= 1]
01378# ****
01379# SWHMHO Ver.5.02/Jan 2001 *BETA*/ INPUT DATA FILE
01380# ****
01381# Project Name: Barrhaven Conservancy Development
01382# Project Number: 1474
01383# Date : 2024/Oct/18
01384# Modeler : J.Burnett, P.Eng.
01385# Updated : 2022/Dec/07 [JB]
01386# Updated : 2022/Dec/13 [JB]
01387# Updated : 2024/Mar/14 [JB]
01388# Company : J.F. Sabourin and Associates
01389# License # : 2882634
01390# ****
01391# Ottawa International Airport (1967 - 2003)
R0080:COM0002-----#
01392# READ AER DATA
01393# [Filename = YOW_1967_2007.123] 1
01394# [Start_date= 1980.0101; End_date= 1980.1230]
01395# [Dtmn= 60:min; Length= 8760 hrs; WetHrs= 427; DryHrs= 8333; PTOT= 622.00]
01396# Maximum average rainfall intensities over
01397# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01398# 15.00 18.40 19.50 28.30 42.80 47.20 48.60 48.60 62.00 .000
01399# 15.00 18.40 19.50 28.30 42.80 47.20 48.60 48.60 62.00 .000
01400# 15.00 18.40 19.50 28.30 42.80 47.20 48.60 48.60 62.00 .000
01401# Number of rainfall events per following interevent time
01402# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01403# 151 128 118 97 71 58 51 46 33
01404# Number of events with at least the following durations
01405# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01406# 151 128 118 97 71 58 51 46 33
01407# 151 128 118 97 71 58 51 46 33
01408# R0080:COM0003-----#
01409# COMPUTE API
01410# [APIname= 50.00; APIfavg=.9000; APIkds=.9956]
01411# [APImax=.65.36; APIfavg=.19.25; APIkds=.25]
01412# ****
01413# Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01414# Dtmn-ID-NHYD-----ARAAh-QPEAKcms-TpeakDate_hh:mm::--Rvnn-R.C.--DWFcms
01415# R0080:COM0004-----[Dtmn-ID-NHYD]
01416# CONTINUOUS_NASHYD 5.0 01:West_1 14.27 .080 1980.1026_03:00 58.50 .094 .000
01417# [CN=72.0: N= 3.00; Tp= 1.41]
01418# [iAECN= 6.00; SMAX=39.75; SKW= .030]
01419# [InterEventTime= 12.00]
01420# R0080:COM0005-----[Dtmn-ID-NHYD]
01421# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .122 1980.1026_03:00 66.79 .107 .000
01422# [CN=76.0: N= 3.00; Tp= 1.26]
01423# [iAECN= 6.00; SMAX=264.99; SKW= .030]
01424# [InterEventTime= 12.00]
01425# R0080:COM0006-----[Dtmn-ID-NHYD]
01426# CONTINUOUS_NASHYD 5.0 01:West_3 20.14 .122 1980.1026_03:00 66.79 .107 .000
01427# [CN=76.0: N= 3.00; Tp= 1.41]
01428# [iAECN= 6.00; SMAX=216.39; SKW= .030]
01429# [InterEventTime= 12.00]
01430# R0080:COM0007-----[Dtmn-ID-NHYD]
01431# ADD HVD 5.0 02:West_1 14.27 .080 1980.1026_03:00 58.50 .094 .000
01432# + 5.0 02:West_2 20.14 .122 1980.1026_03:00 66.79 .107 .000
0
```

01442: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.27 .167 1980.0901_21:10 202.99 .326 .000
 01443: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 9.24: SKW .000]
 01444: [CONTINUOUS_NASHYD_ 12.00] .
 01445: R0081:CD0009-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakData_hh:mm:---RVMn-R.C.---DWFcms
 01446: CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .221 1980.0901_21:15 202.99 .326 .000
 01447: [CN=100.01: N: 3.00; Tp: 1.24]
 01448: [iAEBC_ 6.00: SMINh_ 1.39: SMAXh_ 9.24: SKW .000]
 01449: [InterEventTime: 12.00]
 01450: R0081:CD0011-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakData_hh:mm:---RVMn-R.C.---DWFcms
 01451: CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .133 1980.0321_16:10 202.99 .326 .000
 01452: [CN=100.01: N: 3.00; Tp: 1.24]
 01453: [iAEBC_ 6.00: SMINh_ 1.39: SMAXh_ 9.24: SKW .000]
 01454: [InterEventTime: 12.00]
 01455: R0081:CD0011-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakData_hh:mm:---RVMn-R.C.---DWFcms
 01456: ADD RWD + 5.0 02:INF-West_1 20.14 .221 1980.0901_21:10 202.99 n/a .000
 01457: + 5.0 02:INF-West_3 14.01 .133 1980.0321_16:10 202.99 n/a .000
 01458: SUM+ 5.0 02:INF-West_2 14.01 .133 1980.0321_16:10 202.99 n/a .000
 01459: *****
 01460: #####
 01461: # CONTINUOUS_RAINFALL DATA
 01462: #####
 01463: ** END OF RUN : 80
 01464:
 01465: R0081:COMMAND#
 01466: R0081:CD0001-----
 01467: [TZERO = .00 hrs on 19801001]
 01468: [METOUT= 2 (Imperial, 2=metric output)]
 01469: [INSTRM= 0]
 01470: [INRNU= 0082]
 01471: # SWHMHO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
 01472: *****
 01473: Project Name: Barrhaven Conservancy Development
 01474: # Project Number: 1474
 01475: # File Name: R0081CD0001.sum
 01476: # Date : 2021/Oct/18
 01477: # Modeler : J.Burnett, P.Eng.
 01478: # Updated : 2022/Dec/13 [JB]
 01479: # Company : J.F. Sabourin and Associates
 01480: # License #: 2582634
 01481: #
 01482: # Ottawa International Airport (1967 - 2003)
 01483: #
 01484: # READ ARA Data
 01485: # [Filename = YOM_1967_2007.123]
 01486: # [Start_date= 1981.0101; End_date= 1981.1231]
 01487: # (Dt= 60:min; Length= 8760,hrs; Nethrs= 436; DryHrs= 8119; PTOT= 936.40)
 01488: # Model average rainfall intensities over
 01489: # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 01490: # mm/hr
 01491: # 35.30 .70 78.60 104.00 118.30 115.50 115.50 115.50 116.70 .mm
 01492: # 19810805 19810805 19810805 19810805 19810805 19810805 19810805 19810805 19810805 date
 01493: # Number of rainfall events per following interevent time
 01494: # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 01495: # 226 171 138 109 83 68 59 47 30
 01496: # Number of events with at least the following durations
 01497: # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 01498: # 225 128 79 28 7 0 0 0 0
 01499: #
 01500: R0081:CD0003-----
 01501: [APIntr= 50.00; APIkdy=.9000; APIkdt=.9956]
 01502: [APIntrmax=123.49; APIfavg=.2569; APImin=.26]
 01503: #
 01504: # READ ARA Data
 01505: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01506: #
 01507: # READ ARA Data
 01508: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01509: #
 01510: # Set infiltration to 0 (CN = 99.99) for water balance analysis
 01511: #
 01512: R0081:CD0008-----
 01513: # READ ARA Data
 01514: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01515: #
 01516: R0081:CD0004-----
 01517: [CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .785 1981.0801_3:05 179.44 .152 .000
 01518: [CN= 72.01: N: 3.00; Tp: 1.41]
 01519: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01520: [InterEventTime: 12.00]
 01521: R0081:CD0005-----
 01522: [CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 1.116 1981.0801_3:05 196.98 .210 .000
 01523: [CN= 74.01: N: 3.00; Tp: 1.41]
 01524: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01525: [InterEventTime: 12.00]
 01526: R0081:CD0006-----
 01527: [CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .557 1981.0805_4:25 176.32 .188 .000
 01528: [CN= 71.01: N: 3.00; Tp: 2.07]
 01529: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01530: [InterEventTime: 12.00]
 01531: R0081:CD0007-----
 01532: [DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakData_hh:mm:---RVMn-R.C.---DWFcms
 01533: ADD RWD + 5.0 02:INF-West_1 14.28 .785 1981.0801_3:05 179.44 .152 .000
 01534: + 5.0 02:INF-West_2 20.14 1.116 1981.0801_3:05 196.98 n/a .000
 01535: + 5.0 02:INF-West_3 14.01 .557 1981.0805_4:25 176.32 n/a .000
 01536: SUM+ 5.0 02:INF-West_2 14.28 .785 1981.0801_3:05 179.44 .152 .000
 01537: *****
 01538: # CONTINUOUS_RAINFALL DATA
 01539: #####
 01540: # READ ARA Data
 01541: # Barrhaven Conservancy Development
 01542: # Project Number: 1474
 01543: # File Name: R0081CD0001.sum
 01544: # Date : 2021/Oct/18
 01545: # Modeler : J.Burnett, P.Eng.
 01546: # Updated : 2022/Dec/13 [JB]
 01547: # Updated : 2024/Mar/14 [JB]
 01548: # Company : J.F. Sabourin and Associates
 01549: # License #: 2582634
 01550: #
 01551: # Ottawa International Airport (1967 - 2003)
 01552: #
 01553: # READ ARA Data
 01554: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01555: #
 01556: R0081:CD0009-----
 01557: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.27 1.007 1981.0801_2:30 380.73 .407 .000
 01558: [CN=100.01: N: 3.00; Tp: 1.41]
 01559: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01560: [InterEventTime: 12.00]
 01561: R0081:CD0011-----
 01562: [DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakData_hh:mm:---RVMn-R.C.---DWFcms
 01563: ADD RWD + 5.0 02:INF-West_1 14.28 .785 1981.0801_2:30 380.73 .407 .000
 01564: + 5.0 02:INF-West_2 20.14 1.352 1981.0805_2:40 380.71 n/a .000
 01565: + 5.0 02:INF-West_3 14.01 .710 1981.0805_3:45 380.70 n/a .000
 01566: SUM+ 5.0 02:INF-West_2 14.28 .785 1981.0801_2:30 380.70 n/a .000
 01567: *****
 01568: # CONTINUOUS_RAINFALL DATA
 01569: #####
 01570: # READ ARA Data
 01571: # Barrhaven Conservancy Development
 01572: # Project Number: 1474
 01573: # File Name: R0081CD0001.sum
 01574: # Date : 2021/Oct/18
 01575: # Modeler : J.Burnett, P.Eng.
 01576: # Updated : 2022/Dec/13 [JB]
 01577: # Updated : 2024/Mar/14 [JB]
 01578: # Company : J.F. Sabourin and Associates
 01579: # License #: 2582634
 01580: #
 01581: # Ottawa International Airport (1967 - 2003)
 01582: #
 01583: # READ ARA Data
 01584: # Barrhaven Conservancy Development
 01585: # Project Number: 1474
 01586: # File Name: R0081CD0001.sum
 01587: # Date : 2021/Oct/18
 01588: # Modeler : J.Burnett, P.Eng.
 01589: # Updated : 2022/Dec/13 [JB]
 01590: # Updated : 2024/Mar/14 [JB]
 01591: # Company : J.F. Sabourin and Associates
 01592: # License #: 2582634
 01593: #
 01594: # READ ARA Data
 01595: # Barrhaven Conservancy Development
 01596: # Project Name: R0081CD0001.sum
 01597: # Date : 2021/Oct/18
 01598: # Modeler : J.Burnett, P.Eng.
 01599: # Updated : 2022/Dec/13 [JB]
 01600: # Updated : 2024/Mar/14 [JB]
 01601: # Company : J.F. Sabourin and Associates
 01602: # License #: 2582634
 01603: #
 01604: # READ ARA Data
 01605: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01606: #
 01607: R0081:CD0003-----
 01608: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.27 .785 1981.0801_2:15 47.17 .079 .000
 01609: [CN= 72.01: N: 3.00; Tp: 1.41]
 01610: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01611: [InterEventTime: 12.00]
 01612: R0081:CD0005-----
 01613: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .221 1980.0901_2:15 202.99 .326 .000
 01614: [CN= 72.01: N: 3.00; Tp: 1.41]
 01615: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01616: [InterEventTime: 12.00]
 01617: R0081:CD0006-----
 01618: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .717 1980.0805_3:45 47.17 .079 .000
 01619: [CN= 71.01: N: 3.00; Tp: 1.41]
 01620: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01621: [InterEventTime: 12.00]
 01622: R0081:CD0007-----
 01623: [DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakData_hh:mm:---RVMn-R.C.---DWFcms
 01624: ADD RWD + 5.0 02:INF-West_1 14.27 .785 1980.0901_2:15 47.17 n/a .000
 01625: + 5.0 02:INF-West_2 20.14 .221 1980.0901_2:15 202.99 n/a .000
 01626: + 5.0 02:INF-West_3 14.01 .717 1980.0805_3:45 47.17 n/a .000
 01627: SUM+ 5.0 02:INF-West_2 14.27 .785 1980.0901_2:15 47.17 n/a .000
 01628: *****
 01629: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01630: #
 01631: ADD RWD + 5.0 02:INF-West_1 14.27 .785 1980.0901_2:15 47.17 n/a .000
 01632: + 5.0 02:INF-West_2 20.14 .221 1980.0901_2:15 202.99 n/a .000
 01633: + 5.0 02:INF-West_3 14.01 .717 1980.0805_3:45 47.17 n/a .000
 01634: SUM+ 5.0 02:INF-West_2 14.27 .785 1980.0901_2:15 47.17 n/a .000
 01635: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01636: #
 01637: ADD RWD + 5.0 01:INF-West_1 14.27 .785 1980.0901_2:15 47.17 n/a .000
 01638: + 5.0 01:INF-West_2 20.14 .221 1980.0901_2:15 202.99 n/a .000
 01639: + 5.0 01:INF-West_3 14.01 .717 1980.0805_3:45 47.17 n/a .000
 01640: SUM+ 5.0 01:INF-West_2 14.27 .785 1980.0901_2:15 47.17 n/a .000
 01641: R0081:CD0008-----
 01642: [CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .159 1982.0825_12:25 54.10 .091 .000
 01643: [CN= 76.01: N: 3.00; Tp: 1.26]
 01644: [InterEventTime: 12.00]
 01645: R0081:CD0006-----
 01646: [CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .159 1982.0825_13:35 45.89 .077 .000
 01647: [CN= 71.01: N: 3.00; Tp: 1.26]
 01648: [InterEventTime: 12.00]
 01649: R0081:CD0010-----
 01650: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .158 1982.0825_11:40 182.36 .306 .000
 01651: [CN= 100.01: N: 3.00; Tp: 1.27]
 01652: [InterEventTime: 12.00]
 01653: R0081:CD0011-----
 01654: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .159 1982.0825_11:40 182.36 .306 .000
 01655: [CN= 100.01: N: 3.00; Tp: 1.27]
 01656: ADD RWD + 5.0 02:INF-West_1 14.27 .159 1982.0825_11:40 182.36 n/a .000
 01657: + 5.0 02:INF-West_2 20.14 .158 1982.0825_11:40 182.36 n/a .000
 01658: + 5.0 02:INF-West_3 14.01 .159 1982.0825_11:40 182.36 n/a .000
 01659: SUM+ 5.0 02:INF-West_2 14.27 .159 1982.0825_11:40 182.36 n/a .000
 01660: *****
 01661: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01662: #
 01663: ADD RWD + 5.0 01:INF-West_1 14.27 .159 1982.0825_11:40 182.36 n/a .000
 01664: + 5.0 01:INF-West_2 20.14 .158 1982.0825_11:40 182.36 n/a .000
 01665: + 5.0 01:INF-West_3 14.01 .159 1982.0825_11:40 182.36 n/a .000
 01666: *****
 01667: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01668: #
 01669: ADD RWD + 5.0 02:INF-West_1 14.27 .159 1982.0825_11:40 182.36 n/a .000
 01670: + 5.0 02:INF-West_2 20.14 .158 1982.0825_11:40 182.36 n/a .000
 01671: + 5.0 02:INF-West_3 14.01 .159 1982.0825_11:40 182.36 n/a .000
 01672: SUM+ 5.0 02:INF-West_2 14.27 .159 1982.0825_11:40 182.36 n/a .000
 01673: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01674: #
 01675: ADD RWD + 5.0 01:INF-West_1 14.27 .159 1982.0825_11:40 182.36 n/a .000
 01676: + 5.0 01:INF-West_2 20.14 .158 1982.0825_11:40 182.36 n/a .000
 01677: + 5.0 01:INF-West_3 14.01 .159 1982.0825_11:40 182.36 n/a .000
 01678: *****
 01679: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01680: #
 01681: # CONTINUOUS_RAINFALL DATA
 01682: #####
 01683: # READ ARA Data
 01684: # Barrhaven Conservancy Development
 01685: # Project Number: 1474
 01686: # File Name: R0081CD0001.sum
 01687: # Date : 2021/Oct/18
 01688: # Modeler : J.Burnett, P.Eng.
 01689: # Updated : 2022/Dec/13 [JB]
 01690: # Updated : 2024/Mar/14 [JB]
 01691: # Company : J.F. Sabourin and Associates
 01692: # License #: 2582634
 01693: #
 01694: # READ ARA Data
 01695: # Barrhaven Conservancy Development
 01696: # Project Name: R0081CD0001.sum
 01697: # Date : 2021/Oct/18
 01698: # Modeler : J.Burnett, P.Eng.
 01699: # Updated : 2022/Dec/13 [JB]
 01700: # Updated : 2024/Mar/14 [JB]
 01701: # Company : J.F. Sabourin and Associates
 01702: # License #: 2582634
 01703: #
 01704: # READ ARA Data
 01705: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 01706: #
 01707: R0081:CD0004-----
 01708: [CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .132 1983.1005_16:30 51.78 .088 .000
 01709: [CN= 72.01: N: 3.00; Tp: 1.41]
 01710: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01711: [InterEventTime: 12.00]
 01712: R0081:CD0005-----
 01713: [CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .202 1983.1005_16:30 56.70 .040 .6320 66.00 .000
 01714: [CN= 74.01: N: 3.00; Tp: 1.41]
 01715: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01716: [InterEventTime: 12.00]
 01717: R0081:CD0006-----
 01718: [CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .132 1983.1005_16:30 51.78 .088 .000
 01719: [CN= 71.01: N: 3.00; Tp: 1.41]
 01720: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01721: [InterEventTime: 12.00]
 01722: R0081:CD0007-----
 01723: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.27 .132 1983.1005_16:30 51.78 .088 .000
 01724: [CN= 72.01: N: 3.00; Tp: 1.41]
 01725: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01726: [InterEventTime: 12.00]
 01727: R0081:CD0008-----
 01728: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .202 1983.1005_16:30 56.70 .040 .6320 66.00 .000
 01729: [CN= 74.01: N: 3.00; Tp: 1.41]
 01730: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01731: [InterEventTime: 12.00]
 01732: R0081:CD0009-----
 01733: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .132 1983.1005_16:30 51.78 n/a .000
 01734: [CN= 71.01: N: 3.00; Tp: 1.41]
 01735: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01736: [InterEventTime: 12.00]
 01737: R0081:CD0010-----
 01738: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.27 .252 1983.1005_16:00 172.99 .294 .000
 01739: [CN= 72.01: N: 3.00; Tp: 1.41]
 01740: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01741: [InterEventTime: 12.00]
 01742: R0081:CD0011-----
 01743: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .339 1983.1005_16:00 172.99 .294 .000
 01744: [CN= 74.01: N: 3.00; Tp: 1.41]
 01745: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01746: [InterEventTime: 12.00]
 01747: R0081:CD0004-----
 01748: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .252 1983.1005_16:00 172.99 .294 .000
 01749: [CN= 71.01: N: 3.00; Tp: 1.41]
 01750: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01751: [InterEventTime: 12.00]
 01752: R0081:CD0005-----
 01753: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.01 .252 1983.1005_16:00 172.99 n/a .000
 01754: [CN= 72.01: N: 3.00; Tp: 1.41]
 01755: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01756: [InterEventTime: 12.00]
 01757: R0081:CD0006-----
 01758: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .339 1983.1005_16:00 172.99 n/a .000
 01759: [CN= 74.01: N: 3.00; Tp: 1.41]
 01760: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01761: [InterEventTime: 12.00]
 01762: R0081:CD0007-----
 01763: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .252 1983.1005_16:00 172.99 .294 .000
 01764: [CN= 71.01: N: 3.00; Tp: 1.41]
 01765: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01766: [InterEventTime: 12.00]
 01767: R0081:CD0008-----
 01768: [CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 14.01 .252 1983.1005_16:00 172.99 n/a .000
 01769: [CN= 72.01: N: 3.00; Tp: 1.41]
 01770: [iAEBC_ 6.00: SMINh_ 39.75: SMAXh_ 244.99: SKW .030]
 01771: [

01801: 19840812 19840812 198408012 198408006 198408012 19840813 19840813 19840813 date
01802: Number of rainfall events per following interevent time
01803: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01804: 98 80 75 63 55 48 40 34 26
01805: Number of events with at least the following durations
01806: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01807: 97 58 49 41 3 0 0 0 0
01808: R00841C00003-----
01809: # APInitm 50.00: APIkdy_ = .9000: APIkdt_ = .9956
01810: (#APImax 66.83: APIavg_ = 13.22 APImin_ = .00)
01811: #-----
01812: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01813: #-----
01814: #-----
01815: R00841C0004-----
01816: [CONTINUOUS_NASHYD_ 8.0 01West_1 14.27 .125 1984.0812_7:05 49.90 .109 .000
01817: [CN=72.01; N= 3,000; Tp= 1:14]
01818: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_264.99; SK= 030]
01819: [InterEventTime_ 12.00]
01820: R00841C0005-----
01821: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01822: [CONTINUOUS_NASHYD_ 5.0 01West_3 20.14 .162 1984.0813_7:15 56.90 .124 .000
01823: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_264.99; SK= 030]
01824: [InterEventTime_ 12.00]
01825: R00841C0006-----
01826: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01827: [CONTINUOUS_NASHYD_ 5.0 01West_3 14.01 .073 1984.0813_8:35 49.62 .106 .000
01828: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_215.84; SK= 030]
01829: [InterEventTime_ 12.00]
01830: R00841C0007-----
01831: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01832: ADD HYD + 5.0 02West_2 20.14 .162 1984.0813_7:15 56.90 .124 .000
01833: ADD HYD + 5.0 02West_3 14.01 .073 1984.0813_8:35 49.62 .106 .000
01834: SUM 5.0 01West_Total 48.42 .628 1984.0806_21:25 167.70 /n/a .000
01835: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01836: #-----
01837: #-----
01838: R00841C0008-----
01839: Set Infiltration to 0 (CN = 99.99) for water balance analysis
01840: R00841C0009-----
01841: [CONTINUOUS_NASHYD_ 8.0 01West_1 14.27 .125 1984.0812_7:05 49.90 .109 .000
01842: [CN=72.01; N= 3,000; Tp= 1:14]
01843: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
01844: [InterEventTime_ 12.00]
01845: R00841C0010-----
01846: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01847: [CONTINUOUS_NASHYD_ 5.0 01West_2 20.14 .287 1984.0812_7:50 167.70 .365 .000
01848: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
01849: [InterEventTime_ 12.00]
01850: R00841C0011-----
01851: [CONTINUOUS_NASHYD_ 5.0 01West_3 14.01 .142 1984.0807_0:00 167.70 .365 .000
01852: [CN=100.0; N= 3,000; Tp= 2:07]
01853: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
01854: [InterEventTime_ 12.00]
01855: R00841C0012-----
01856: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01857: ADD HYD + 5.0 02INF-West_2 20.14 .287 1984.0812_7:50 167.70 .365 .000
01858: ADD HYD + 5.0 02INF-West_3 14.01 .142 1984.0807_0:00 167.70 /n/a .000
01859: SUM 5.0 01INF-West_7 48.42 .628 1984.0806_21:25 167.70 /n/a .000
01860: ##### CONTINUOUS RAINFALL DATA #####
01861: # CONTINUOUS RAINFALL DATA
01862: ##### END OF RUN : 84
01863: #####
01864: #####
01865: #####
01866: #####
01867: #####
01868: #####
01869: #####
01870: # RUN#-COMMAND#
01871: R00851C0001-----
01872: START
01873: [{TZERO = 0.00 hrs on 1980100101}
01874: [{METOUT= 2 (Imperial, 2=metric output)}
01875: [{INSTRM= 0 }]
01876: [{NRUN= 0085 }]
01877: [{-----}]
01878: # SWHMHO Ver.5.02/Jan 2001 **(BETA)** / INPUT DATA FILE
01879: #####
01880: #-----
01881: # Project Name: Barrhaven Conservancy Development
01882: # ModelNumber: 1474
01883: # Date: 2021/Oct/18
01884: # Modeler: J.Burnett, P.Eng.
01885: # Updated: 2022/Dec/13 [JB]
01886: # Updated: 2022/Dec/13 [JB]
01887: # Updated: 2024/Mar/14 [JB]
01888: # Company: J.F. Sabourin and Associates
01889: # License #: 2582634
01890: #-----
01891: # Ottawa International Airport (1987 - 2003)
01892: R00851C0002-----
01893: #-----
01894: READ AES DATA
01895: [Filename = YOW_1987_2007.123
01896: [Start_date= 1985.0101; End_date= 1985.1231]
01897: [DT= 60 min; Length= 8760 hrs; Nethrs= 354; DryHrs= 8406; PTOT= 559.90]
01898: Max daily average rainfall intensities over:
01899: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01900: 19.00 13.60 11.73 6.60 3.30 1.65 .89 .60 mm/hr
01901: 19850716 19850717 19850718 19850719 19850720 19850721 19850722 date
01902: Number of rainfall events per following interevent time
01903: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01904: 108 88 54 44 6 49 43 32
01905: Number of events with at least the following durations
01906: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01907: 107 70 43
01908: R00851C0003-----
01909: COMPUTER API
01910: (#APInitm 50.00: APIkdy_ = .9000: APIkdt_ = .9956)
01911: (#APImax 57.29: APIavg_ = 15.86: APImin_ = .20)
01912: #-----
01913: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01914: #-----
01915: R00851C0004-----
01916: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01917: [CONTINUOUS_NASHYD_ 8.0 01West_1 14.27 .125 1985.0618_0:35 52.48 .094 .000
01918: [CN=72.01; N= 3,000; Tp= 1:14]
01919: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_264.99; SK= 030]
01920: R00851C0005-----
01921: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01922: [CONTINUOUS_NASHYD_ 5.0 01West_2 20.14 .192 1985.0618_0:40 60.37 .108 .000
01923: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_264.99; SK= 030]
01924: [InterEventTime_ 12.00]
01925: R00851C0006-----
01926: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01927: [CONTINUOUS_NASHYD_ 5.0 01West_3 14.01 .224 1985.0618_0:10 212.50 .380 .000
01928: [CN=72.01; N= 3,000; Tp= 2:07]
01929: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
01930: [InterEventTime_ 12.00]
01931: R00851C0007-----
01932: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01933: ADD HYD + 5.0 02West_1 14.27 .125 1985.0618_0:35 52.48 /n/a .000
01934: ADD HYD + 5.0 02West_2 20.14 .192 1985.0618_0:40 60.37 .108 .000
01935: SUM 5.0 01West_Total 48.42 .389 1985.0618_0:45 55.34 /n/a .000
01936: # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01937: #-----
01938: R00851C0008-----
01939: [CONTINUOUS_NASHYD_ 8.0 01West_1 14.27 .125 1985.0618_0:35 52.48 .094 .000
01940: [CN=72.01; N= 3,000; Tp= 1:14]
01941: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
01942: [InterEventTime_ 12.00]
01943: R00851C0009-----
01944: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01945: [CONTINUOUS_NASHYD_ 5.0 01West_2 20.14 .441 1985.0618_0:15 212.50 .380 .000
01946: [CN=100.0; N= 3,000; Tp= 2:07]
01947: [iAEBC_ 6.01; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
01948: [InterEventTime_ 12.00]
01949: R00851C0010-----
01950: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01951: ADD HYD + 5.0 02INF-West_1 14.27 .125 1985.0618_0:10 212.50 /n/a .000
01952: ADD HYD + 5.0 02INF-West_2 20.14 .192 1985.0618_0:15 212.50 /n/a .000
01953: SUM 5.0 01INF-West_7 48.42 .964 1985.0618_0:20 212.50 /n/a .000
01954: ##### CONTINUOUS RAINFALL DATA #####
01955: # CONTINUOUS RAINFALL DATA
01956: ** END OF RUN : 85
01957: #####
01958: #####
01959: #####
01960: #####
01961: # RUN#-COMMAND#
01962: R00851C0001-----
01963: START
01964: [{TZERO = 0.00 hrs on 1986010101}
01965: [{METOUT= 2 (Imperial, 2=metric output)}
01966: [{INSTRM= 0 }]
01967: [{NRUN= 0086 }]
01968: [{-----}]
01969: # SWHMHO Ver.5.02/Jan 2001 **(BETA)** / INPUT DATA FILE
01970: #####
01971: #-----
01972: R00851C0002-----
01973: READ AES DATA
01974: [Filename = YOW_1987_2007.123
01975: [Start_date= 1987.0101; End_date= 1987.1231]
01976: [DT= 60 min; Length= 8760 hrs; Nethrs= 354; DryHrs= 6852; PTOT= 640.10]
01977: Max daily average rainfall intensities over:
01978: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01979: 20.00 27.80 28.00 42.10 42.30 58.40 59.00 66.40 67.00 mm/hr
01980: 19870724 19870724 19870724 19870724 19870724 19870725 19870725 19870726 date
01981: Number of rainfall events per following interevent time
01982: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01983: 180 147 128 97 74 55 49 41 28
01984: Number of events with at least the following durations
01985: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01986: 107 70 43
01987: R00851C0003-----
01988: COMPUTER API
01989: (#APInitm 50.00: APIkdy_ = .9000: APIkdt_ = .9956)
01990: (#APImax 57.29: APIavg_ = 15.86: APImin_ = .20)
01991: #-----
01992: # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01993: #-----
01994: R00851C0004-----
01995: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
01996: [CONTINUOUS_NASHYD_ 8.0 01West_1 14.27 .258 1986.0911_23:40 146.75 .173 .000
01997: [CN=72.01; N= 3,000; Tp= 1:14]
01998: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_264.99; SK= 030]
01999: [InterEventTime_ 12.00]
02000: R00851C0005-----
02001: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02002: [CONTINUOUS_NASHYD_ 5.0 01West_3 20.14 .192 1986.0911_23:45 163.15 .192 .000
02003: [CN=100.0; N= 3,000; Tp= 2:07]
02004: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_216.39; SK= 030]
02005: [InterEventTime_ 12.00]
02006: R00851C0006-----
02007: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02008: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.01 .190 1986.0912_0:10 143.62 .169 .000
02009: [CN=100.0; N= 3,000; Tp= 1:14]
02010: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_264.99; SK= 030]
02011: [InterEventTime_ 12.00]
02012: R00851C0007-----
02013: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02014: [CONTINUOUS_NASHYD_ 5.0 01West_3 20.14 .146 1986.0912_0:15 146.75 .173 .000
02015: [CN=100.0; N= 3,000; Tp= 1:14]
02016: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_264.99; SK= 030]
02017: [InterEventTime_ 12.00]
02018: R00851C0008-----
02019: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02020: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .258 1986.0912_23:40 146.75 .173 .000
02021: [CN=72.01; N= 3,000; Tp= 1:14]
02022: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_264.99; SK= 030]
02023: [InterEventTime_ 12.00]
02024: R00851C0009-----
02025: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02026: [CONTINUOUS_NASHYD_ 5.0 01West_3 20.14 .146 1986.0912_23:45 163.15 .192 .000
02027: [CN=100.0; N= 3,000; Tp= 2:07]
02028: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_216.39; SK= 030]
02029: [InterEventTime_ 12.00]
02030: R00851C0010-----
02031: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02032: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.01 .190 1986.0913_0:10 143.62 .169 .000
02033: [CN=100.0; N= 3,000; Tp= 1:14]
02034: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_264.99; SK= 030]
02035: [InterEventTime_ 12.00]
02036: R00851C0011-----
02037: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02038: [CONTINUOUS_NASHYD_ 5.0 01West_3 20.14 .146 1986.0913_0:15 146.75 .173 .000
02039: [CN=99.99; N= 99.99] for water balance analysis
02040: R00851C0009-----
02041: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02042: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0729_19:40 340.34 .401 .000
02043: [CN=100.0; N= 3,000; Tp= 1:14]
02044: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02045: [InterEventTime_ 12.00]
02046: R00851C0010-----
02047: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02048: [CONTINUOUS_NASHYD_ 5.0 01West_3 20.14 .146 1986.0729_19:50 340.34 .401 .000
02049: [CN=100.0; N= 3,000; Tp= 2:07]
02050: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02051: [InterEventTime_ 12.00]
02052: R00851C0011-----
02053: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02054: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.01 .190 1986.0730_19:40 340.34 .401 .000
02055: [CN=100.0; N= 3,000; Tp= 1:14]
02056: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02057: [InterEventTime_ 12.00]
02058: R00851C0012-----
02059: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02060: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0730_19:50 340.34 .401 .000
02061: [CN=99.99; N= 99.99] for water balance analysis
02062: R00851C0001-----
02063: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02064: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.01 .190 1986.0731_19:40 340.34 .401 .000
02065: [CN=100.0; N= 3,000; Tp= 1:14]
02066: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02067: [InterEventTime_ 12.00]
02068: R00851C0002-----
02069: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02070: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0731_19:50 340.34 .401 .000
02071: [CN=100.0; N= 3,000; Tp= 2:07]
02072: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02073: [InterEventTime_ 12.00]
02074: R00851C0003-----
02075: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02076: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.01 .190 1986.0732_19:40 340.34 .401 .000
02077: [CN=100.0; N= 3,000; Tp= 1:14]
02078: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02079: [InterEventTime_ 12.00]
02080: R00851C0004-----
02081: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02082: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:50 340.34 .401 .000
02083: [CN=100.0; N= 3,000; Tp= 2:07]
02084: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02085: [InterEventTime_ 12.00]
02086: R00851C0005-----
02087: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02088: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02089: [CN=100.0; N= 3,000; Tp= 2:07]
02090: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02091: [InterEventTime_ 12.00]
02092: R00851C0006-----
02093: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02094: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02095: [CN=100.0; N= 3,000; Tp= 2:07]
02096: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02097: [InterEventTime_ 12.00]
02098: R00851C0007-----
02099: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02100: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02101: [CN=100.0; N= 3,000; Tp= 2:07]
02102: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02103: [InterEventTime_ 12.00]
02104: R00851C0008-----
02105: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02106: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02107: [CN=100.0; N= 3,000; Tp= 2:07]
02108: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02109: [InterEventTime_ 12.00]
02110: R00851C0009-----
02111: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02112: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02113: [CN=100.0; N= 3,000; Tp= 2:07]
02114: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02115: [InterEventTime_ 12.00]
02116: R00851C0010-----
02117: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02118: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02119: [CN=100.0; N= 3,000; Tp= 2:07]
02120: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02121: [InterEventTime_ 12.00]
02122: R00851C0005-----
02123: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02124: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02125: [CN=100.0; N= 3,000; Tp= 2:07]
02126: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK= 000]
02127: [InterEventTime_ 12.00]
02128: R00851C0006-----
02129: [Dtnin-ID=NHYD_ ARRAha-QPEAKcms-Tpeakdate_hh:mm:--RVMn-R.C.--DWFcms
02130: [CONTINUOUS_NASHYD_ 5.0 01West_1 14.27 .422 1986.0732_19:55 340.34 .401 .000
02131: [CN=100.0; N= 3,000; Tp= 2:07]
02132: [iAEBC_ 6.00; SMIN_ 39.75; SMAX_ 9.24; SK

```

02161> # CONTINUOUS RAINFALL DATA
02162> ****END OF RUN : 87
02163> ****
02164> ****
02165> ****
02166> ****
02167> ****
02168> ****
02169> ****
02170> ****
02171> RUN#:COMMAND#
02172> RO088:CD0001-
02173> START
02174> [{TZERO = .00 hrs on 19880101}
02175> [{METOUT= 2. (Imperial, 2=metric output)]
02176> [{INSTR0= 0.]
02177> [{NRUN= 0893}]
02178> ****
02179> # SWMMH YMO Ver:02/Jan 2001 <BT&TA> / INPUT DATA FILE
02180> ****
02181> # Project Name: Barrhaven Conservancy Development
02182> # Project Number: 1474
02183> # Date : 2021/Oct/18
02184> # Modeler : J.Burnett, P.Eng.
02185> # Updated : 2022/Dec/13 [JB]
02186> # Updated : 2022/Mar/14 [JB]
02187> # Updated : 2024/Mar/14 [JB]
02188> # Company : J.F. Sabourin and Associates
02189> # License # : 2582634
02190> ****
02191> # Ottawa International Airport (1967 - 2003)
02192> RO088:CD0002-
02193> * READ AHS DATA
02194> [{Filename = YOM_1967_2007.123}
02195> [{Start_date= 1988.0101_End_date= 1988.1230}]
02196> [{DT= 60:min; Length= 8760; hrs= MetHrs= 487; DryHrs= 8273; PTOT= 643.80}]
02197> Maximum average rainfall intensities over
02198> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02199> 25.50 12.77 7.37 3.78 1.91 0.77 0.39 0.94 mm/hr
02200> 25.50 36.40 46.38 44.27 45.40 45.80 45.80 67.40
02201> 18880625_130226 19880625_130225 19880625_130225 19880625_130225 date
02202> Number of rainfall events per following interevent times
02203> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02204> 15 45 130 210 310 490 490 420
02205> Number of events with at least the following durations
02206> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02207> 104 102 75 75 5 0 0 0 0 0
02208> RO088:CD0003-
02209> COMPUTE API
02210> [{APIfmax= 50.00; APIkdt= .9000; APIkdh= .9956}
02211> ({APImax= 66.04; APIAvg= 18.06; APImin= .03}]
02212> ****
02213> # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02214> ****
02215> RO088:CD0004-
02216> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02217> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.27 .228 1988.625_13:40 66.49 .103 .000
02218> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02219> [{InterEventTime= 12.00}]
02220> RO088:CD0005-
02221> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02222> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .337 1988.625_13:45 75.66 .118 .000
02223> [{CN= 76.01; N= 3.00; Tp= 1.26}]
02224> [{InterEventTime= 12.00}]
02225> RO088:CD0006-
02226> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02227> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .135 1988.625_14:30 64.79 .101 .000
02228> [{CN= 71.01; N= 3.00; Tp= 2.07}]
02229> [{IAEBC= 6.00; SMIN= 11.38; SMAX= 275.84; SKw= .030]
02230> [{InterEventTime= 12.00}]
02231> RO088:CD0007-
02232> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02233> ADD HYD 5.0 02:West_1 .228 1988.625_13:40 66.49 n/a .000
02234> + 5.0 02:West_2 20.14 .337 1988.625_13:45 75.66 n/a .000
02235> SUM= 5.0 01:West>Total 48.42 .681 1988.625_13:40 69.81 n/a .000
02236> [{CN= 72.01; N= 3.00; Tp= 1.26}]
02237> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02238> [{InterEventTime= 12.00}]
02239> RO088:CD0008-
02240> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02241> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .297 1988.625_14:15 208.89 .324 .000
02242> [{CN=100.01; N= 3.00; Tp= 2.07}]
02243> [{IAEBC= 6.00; SMIN= 9.39; SMAX= 9.24; SKw= .000]
02244> [{InterEventTime= 12.00}]
02245> RO088:CD0009-
02246> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02247> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .619 1988.625_13:30 208.89 .324 .000
02248> [{CN=100.01; N= 3.00; Tp= 1.26}]
02249> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02250> [{InterEventTime= 12.00}]
02251> RO088:CD0010-
02252> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02253> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .135 1988.625_13:35 208.89 .324 .000
02254> [{CN=100.01; N= 3.00; Tp= 2.07}]
02255> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02256> [{InterEventTime= 12.00}]
02257> RO088:CD0011-
02258> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02259> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.27 .467 1988.625_13:25 208.89 .324 .000
02260> [{CN=100.01; N= 3.00; Tp= 1.26}]
02261> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02262> [{InterEventTime= 12.00}]
02263> RO088:CD0012-
02264> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02265> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .619 1988.625_13:30 208.89 .324 .000
02266> [{CN=100.01; N= 3.00; Tp= 1.26}]
02267> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02268> [{InterEventTime= 12.00}]
02269> RO088:CD0013-
02270> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02271> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .135 1988.625_14:15 208.89 .324 .000
02272> [{CN=100.01; N= 3.00; Tp= 2.07}]
02273> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02274> [{InterEventTime= 12.00}]
02275> RO088:CD0014-
02276> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02277> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .135 1988.625_14:15 208.89 .324 .000
02278> [{CN=100.01; N= 3.00; Tp= 1.26}]
02279> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02280> [{InterEventTime= 12.00}]
02281> RO088:CD0015-
02282> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02283> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .619 1988.625_14:15 208.89 .324 .000
02284> [{CN=100.01; N= 3.00; Tp= 1.26}]
02285> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02286> [{InterEventTime= 12.00}]
02287> RO088:CD0016-
02288> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02289> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .135 1988.625_14:30 208.89 .324 .000
02290> [{CN=100.01; N= 3.00; Tp= 2.07}]
02291> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 275.84; SKw= .030]
02292> [{InterEventTime= 12.00}]
02293> RO088:CD0017-
02294> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02295> ADD HYD 5.0 02:West_1 .228 1988.625_13:40 66.49 n/a .000
02296> + 5.0 02:West_2 20.14 .337 1988.625_13:45 75.66 n/a .000
02297> SUM= 5.0 01:West>Total 48.42 .681 1988.625_13:40 69.81 n/a .000
02298> [{CN= 72.01; N= 3.00; Tp= 1.26}]
02299> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 264.99; SKw= .030]
02300> [{InterEventTime= 12.00}]
02301> RO088:CD0018-
02302> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02303> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .297 1988.625_14:15 208.89 .324 .000
02304> [{CN=100.01; N= 3.00; Tp= 2.07}]
02305> [{IAEBC= 6.00; SMIN= 9.39; SMAX= 9.24; SKw= .000]
02306> [{InterEventTime= 12.00}]
02307> RO088:CD0019-
02308> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02309> COMPUTE API
02310> [{APIfmax= 50.00; APIkdt= .9000; APIkdh= .9956}
02311> ({APImax= 66.04; APIAvg= 18.06; APImin= .03}]
02312> ****
02313> # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02314> ****
02315> RO088:CD0020-
02316> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02317> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.27 .096 1988.0727_16:05 41.43 .079 .000
02318> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02319> [{InterEventTime= 12.00}]
02320> RO088:CD0021-
02321> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02322> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .147 1988.0727_16:15 47.59 .093 .000
02323> [{CN= 76.01; N= 3.00; Tp= 1.26}]
02324> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02325> [{InterEventTime= 12.00}]
02326> RO088:CD0022-
02327> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02328> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .060 1988.0727_17:15 40.31 .077 .000
02329> [{CN= 71.01; N= 3.00; Tp= 2.07}]
02330> [{IAEBC= 6.00; SMIN= 11.38; SMAX= 275.84; SKw= .030]
02331> [{InterEventTime= 12.00}]
02332> RO088:CD0023-
02333> # CONTINUOUS RAINFALL DATA
02334> ****END OF RUN : 88
02335> ****
02336> ****
02337> ****
02338> ****
02339> ****
02340> ****
02341> # CONTINUOUS RAINFALL DATA
02342> [{IN=100.01; N= 3.00; Tp= 1.14}]
02343> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02344> [{InterEventTime= 12.00}]
02345> RO089:CD0001-
02346> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02347> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .147 1988.0727_16:05 41.43 .079 .000
02348> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02349> [{InterEventTime= 12.00}]
02350> RO089:CD0010-
02351> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02352> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .199 1988.0727_16:50 159.72 .305 .000
02353> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02354> [{InterEventTime= 12.00}]
02355> RO089:CD0011-
02356> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02357> ADD HYD + 5.0 02:INF-West_2 20.14 .248 1988.0727_15:55 159.72 n/a .000
02358> + 5.0 02:INF-West_3 14.01 .199 1988.0727_16:50 159.72 n/a .000
02359> SUM= 5.0 01:West>Total 48.42 .292 1988.0727_16:20 43.66 n/a .000
02360> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02361> # CONTINUOUS RAINFALL DATA
02362> ****END OF RUN : 89
02363> **** END OF RUN : 89
02364> ****
02365> ****
02366> ****
02367> ****
02368> ****
02369> ****
02370> ****
02371> RUN#:COMMAND#
02372> RO091:CD0001-
02373> START
02374> [{TZERO = .00 hrs on 1990101}]
02375> [{METOUT= 0. (Imperial, 2=metric output)]
02376> [{INSTR0= 0.}]
02377> [{NRUN= 051}]
02378> ****
02379> # SWMHYMO Ver:05/02/Jan 2001 <BT&TA> / INPUT DATA FILE
02380> ****
02381> # Project Name: Barrhaven Conservancy Development
02382> # Project Number: 1474
02383> # Date : 2021/Oct/18
02384> # Modeler : J.Burnett, P.Eng.
02385> # Updated : 2022/Dec/13 [JB]
02386> # Updated : 2022/Mar/14 [JB]
02387> # Updated : 2024/Mar/14 [JB]
02388> # Company : J.F. Sabourin and Associates
02389> # License # : 2582634
02390> ****
02391> # Ottawa International Airport (1967 - 2003)
02392> RO091:CD0002-
02393> * READ AHS DATA
02394> [{Filename = YOM_1967_2007.123}
02395> [{Start_date= 1991.0101_End_date= 1991.1231}]
02396> [{DT= 60:min; Length= 8440; hrs= MetHrs= 486; DryHrs= 7554; PTOT= 556.00}]
02397> Maximum average rainfall intensities over
02398> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02399> 22.70 12.60 9.83 5.75 3.03 1.69 1.14 0.86 0.59 mm/hr
02400> 22.70 25.20 26.80 34.50 36.30 40.60 40.90 41.30 42.50
02401> 19890227_12:00 19890227_12:00 19890227_12:00 19890227_12:00 19890227_12:00 date
02402> Number of rainfall events per following interevent times
02403> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02404> 151 270 380 450 500 550 580 600 620
02405> Number of events with at least the following durations
02406> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02407> 104 102 75 75 5 0 0 0 0
02408> RO091:CD0003-
02409> COMPUTE API
02410> [{APIfmax= 50.00; APIkdt= .9000; APIkdh= .9956}
02411> ({APImax= 72.80; APIAvg= 18.48; APImin= .26}]
02412> ****
02413> # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02414> ****
02415> RO091:CD0004-
02416> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02417> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .274 1990.0720_14:10 96.52 .133 .000
02418> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02419> [{InterEventTime= 12.00}]
02420> RO091:CD0005-
02421> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02422> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .274 1990.0720_14:10 82.91 .114 .000
02423> [{CN= 71.01; N= 3.00; Tp= 2.07}]
02424> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 275.84; SKw= .030]
02425> [{InterEventTime= 12.00}]
02426> RO091:CD0006-
02427> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02428> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .126 1990.0720_14:10 82.81 .114 .000
02429> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 9.24; SKw= .000]
02430> [{InterEventTime= 12.00}]
02431> RO091:CD0007-
02432> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02433> ADD HYD 5.0 02:West_1 20.14 .274 1990.0720_14:10 96.56 n/a .000
02434> + 5.0 02:West_2 20.14 .274 1990.0720_14:10 96.52 n/a .000
02435> SUM= 5.0 01:West>Total 48.42 .292 1990.0720_14:20 43.66 n/a .000
02436> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02437> [{InterEventTime= 12.00}]
02438> RO091:CD0008-
02439> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02440> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .274 1990.0720_14:10 96.56 .345 .000
02441> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02442> [{InterEventTime= 12.00}]
02443> RO091:CD0009-
02444> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02445> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .274 1990.0720_14:10 96.52 .133 .000
02446> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02447> [{InterEventTime= 12.00}]
02448> RO091:CD0010-
02449> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02450> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .126 1990.0720_14:10 82.91 .114 .000
02451> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 9.24; SKw= .000]
02452> [{InterEventTime= 12.00}]
02453> RO091:CD0011-
02454> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02455> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .274 1990.0720_14:10 96.56 .345 .000
02456> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02457> [{InterEventTime= 12.00}]
02458> RO091:CD0012-
02459> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02460> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .274 1990.0720_14:10 96.56 n/a .000
02461> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 2.94; SKw= .000]
02462> [{InterEventTime= 12.00}]
02463> RO091:CD0013-
02464> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02465> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .274 1990.0720_14:10 96.56 .345 .000
02466> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02467> [{InterEventTime= 12.00}]
02468> RO091:CD0014-
02469> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02470> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .274 1990.0720_14:10 96.56 .345 .000
02471> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02472> [{InterEventTime= 12.00}]
02473> RO091:CD0015-
02474> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02475> ADD HYD 5.0 02:West_1 20.14 .274 1990.0720_14:10 96.56 n/a .000
02476> + 5.0 02:West_2 20.14 .274 1990.0720_14:10 96.52 n/a .000
02477> SUM= 5.0 01:West>Total 48.42 .292 1990.0720_14:20 43.66 n/a .000
02478> [{IAEBC= 6.00; SMIN= 13.89; SMAX= 2.94; SKw= .000]
02479> [{InterEventTime= 12.00}]
02480> RO091:CD0016-
02481> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02482> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .274 1990.0720_14:10 96.56 .345 .000
02483> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02484> [{InterEventTime= 12.00}]
02485> RO091:CD0017-
02486> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02487> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .274 1990.0720_14:10 96.56 .345 .000
02488> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 9.24; SKw= .000]
02489> [{InterEventTime= 12.00}]
02490> RO091:CD0018-
02491> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02492> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .274 1990.0720_14:10 96.56 .345 .000
02493> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02494> [{InterEventTime= 12.00}]
02495> RO091:CD0019-
02496> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02497> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .274 1990.0720_14:10 96.56 .345 .000
02498> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02499> [{InterEventTime= 12.00}]
02500> RO091:CD0021-
02501> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02502> CONTINUOUS_NASHRD 5.0 01:INF-West_3 14.01 .274 1990.0720_14:10 96.56 .345 .000
02503> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 9.24; SKw= .000]
02504> [{InterEventTime= 12.00}]
02505> RO091:CD0022-
02506> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02507> CONTINUOUS_NASHRD 5.0 01:INF-West_1 14.01 .274 1990.0720_14:10 96.56 .345 .000
02508> [{IAEBC= 6.00; SMIN= 39.75; SMAX= 264.99; SKw= .030]
02509> [{InterEventTime= 12.00}]
02510> RO091:CD0023-
02511> {Dtn=ID-NHYD---AREAh-QPEAKms-TpeakDate_h:mm---RVm=R.C.--DWFcms
02512> CONTINUOUS_NASHRD 5.0 01:INF-West_2 20.14 .274 1990.0720_14:10 9
```

02521+ [CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .125 1991.0410_ 4:05 52.68 .095 .000
 02522+ [CN= 76.0: Ns 3:00; Tp: 1.26] .125 1991.0410_ 4:05 52.68 .095 .000
 02523+ [InterEventTime: 12.00h] .125 1991.0410_ 4:05 52.68 .095 .000
 02524+ R0931c00006-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02525+ [CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .049 1991.0410_ 4:05 44.92 .081 .000
 02526+ [CN= 71.0: Ns 3:00; Tp: 2.07] .14.01 .049 1991.0410_ 4:05 44.92 .081 .000
 02527+ [iAECm 6.00: SMIN 41.38: SMAX 275.84: SKw .030]
 02528+ [InterEventTime: 12.00h] .14.01 .049 1991.0410_ 4:05 44.92 .081 .000
 02529+ R0931c00007-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02530+ ADD HVD 5.0 02:West_1 14.27 .085 1991.0410_ 4:05 46.13 n/a .000
 02531+ + 5.0 02:West_2 20.14 .125 1991.0410_ 4:05 52.68 .095 .000
 02532+ + 5.0 02:West_3 14.01 .049 1991.0410_ 4:05 44.92 .081 .000
 02533+ SIMM+ 5.0 01:West_Total 48.42 .252 1991.0410_ 4:05 48.50 n/a .000
 02534+ [CN= 71.0: Ns 3:00; Tp: 2.07] .14.01 .049 1991.0410_ 4:05 48.50 n/a .000
 02535+ # Barrhaven Conservancy West Development (WITHOUT INFILTRATION) PRE DEVELOPMENT CONDITIONS
 02536+ # Barrhaven Conservancy West Development (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
 02537+ # Set Infiltration to 0 (CN = 99.99) for water balance analysis
 02538+ [InterEventTime: 12.00h] .14.01 .049 1991.0410_ 4:05 48.50 n/a .000
 02539+ R0931c00008-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02540+ CONTINUOUS_NASHYD_ 5.0 01:INF-West_1 20.14 .228 1991.0409_ 1:40 159.83 .287 .000
 02541+ [CN=100.0: Ns 3:00; Tp: 1.26] .228 1991.0409_ 1:40 159.83 .287 .000
 02542+ [InterEventTime: 12.00h] .228 1991.0409_ 1:40 159.83 .287 .000
 02543+ [iAECm 6.00: SMIN 1.39: SMAX 9.24: SKw .000]
 02544+ [InterEventTime: 12.00h] .228 1991.0409_ 1:40 159.83 .287 .000
 02545+ R0931c00009-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02546+ CONTINUOUS_NASHYD_ 5.0 01:INF-West_2 20.14 .228 1991.0409_ 1:40 159.83 .287 .000
 02547+ [CN=100.0: Ns 3:00; Tp: 1.26] .228 1991.0409_ 1:40 159.83 .287 .000
 02548+ [InterEventTime: 12.00h] .228 1991.0409_ 1:40 159.83 .287 .000
 02549+ R0931c00010-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02550+ CONTINUOUS_NASHYD_ 5.0 01:INF-West_3 14.01 .105 1991.0409_ 1:45 159.83 .287 .000
 02551+ [CN=100.0: Ns 3:00; Tp: 2.07] .14.01 .105 1991.0409_ 1:45 159.83 .287 .000
 02552+ [iAECm 6.00: SMIN 1.39: SMAX 9.24: SKw .000]
 02553+ [InterEventTime: 12.00h] .14.01 .105 1991.0409_ 1:45 159.83 .287 .000
 02554+ R0931c00011-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02555+ ADD HVD 5.0 02:INF-West_1 14.27 .175 1991.0409_ 1:40 159.83 n/a .000
 02556+ + 5.0 02:INF-West_2 20.14 .228 1991.0409_ 1:40 159.83 n/a .000
 02557+ + 5.0 02:INF-West_3 14.01 .105 1991.0409_ 1:45 159.83 n/a .000
 02558+ SIMM+ 5.0 01:INF-West_1 48.42 .490 1991.0409_ 1:50 159.83 n/a .000
 02559+ [CN=100.0: Ns 3:00; Tp: 2.07] .490 1991.0409_ 1:50 159.83 n/a .000
 02560+ # CONTINUOUS RAINFALL DATA
 02561+ # END OF RUN : 91
 02562+ *** END OF RUN : 91
 02563+ #
 02564+ R0931c00012-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02565+ ADD HVD 5.0 02:INF-West_1 14.27 .175 1991.0409_ 1:40 159.83 n/a .000
 02566+ + 5.0 02:INF-West_2 20.14 .228 1991.0409_ 1:40 159.83 n/a .000
 02567+ + 5.0 02:INF-West_3 14.01 .105 1991.0409_ 1:45 159.83 n/a .000
 02568+ SIMM+ 5.0 01:INF-West_1 48.42 .490 1991.0409_ 1:50 159.83 n/a .000
 02569+ [CN=100.0: Ns 3:00; Tp: 2.07] .490 1991.0409_ 1:50 159.83 n/a .000
 02570+ #
 02571+ RUN#:COMMAND#
 02572+ R0921c00001-----
 02573+ # TZERO = .00 hrs on 19920101)
 02574+ [METOUT: 2 (Imperial, 2=metric output)]
 02575+ [INSTRNM: 0]
 02576+ [INRNU: 0]
 02577+ #
 02578+ # SWHMHO Ver1.5/02/2003 <BETA> / INPUT DATA FILE
 02579+ #
 02580+ # Project Name: Barrhaven Conservancy Development
 02581+ # Project Number: 1474
 02582+ # Modeler : J. Burnett, P.Eng.
 02583+ # Updated : 2022/Dec/07 [JB]
 02584+ # Created : 2022/Dec/07 [JB]
 02585+ # Updated : 2024/Mar/14 [JB]
 02586+ # Company : J.F. Sabourin and Associates
 02587+ # License #: 2582634
 02588+ #
 02589+ # Ottawa International Airport (1967 - 2003)
 02590+ #
 02591+ READ AES DATA
 02592+ # [Filename = YOW_1967_2007.123]
 02593+ [Start_date= 1967.01.01, End_date= 1993.12.31]
 02594+ [Length= 8760.hrs: Wethrs= 551: DryHrs= 8209: PTOT= 732.80]
 02595+ Maximum average rainfall intensities over
 02596+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02597+ 31.00 18.00 14.00 11.00 8.00 6.00 5.00 4.00 3.00 mm/hr
 02598+ 31.00 18.00 14.00 11.00 8.00 6.00 5.00 4.00 3.00 mm hr
 02599+ 31.00 18.00 14.00 11.00 8.00 6.00 5.00 4.00 3.00 mm hr
 02600+ 31.00 18.00 14.00 11.00 8.00 6.00 5.00 4.00 3.00 mm hr
 02601+ 31.00 18.00 14.00 11.00 8.00 6.00 5.00 4.00 3.00 mm hr
 02602+ 31.00 18.00 14.00 11.00 8.00 6.00 5.00 4.00 3.00 mm hr
 02603+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02604+ 1.90 1.15 1.00 0.84 0.69 0.55 0.47 0.38
 02605+ Number of events with at least the following durations
 02606+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02607+ 1.89 1.09 .70 22 5 1 0 0 0 0
 02608+ R0921c0001-----
 02609+ COMPUTE API
 02610+ [APIInit: 30.00; APIAdv: 8000; APIKdt: .9956]
 02611+ [APIInit: 30.00; APIAdv: 8000; APIKdt: .9956]
 02612+ #
 02613+ # Barrhaven Conservancy West Developments (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
 02614+ R0921c00004-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02615+ CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .293 1992.0717_19:20 94.75 .129 .000
 02616+ [CN=100.0: Ns 3:00; Tp: 1.26] .293 1992.0717_19:20 94.75 .129 .000
 02617+ [iAECm 6.00: SMIN 39.75: SMAX 246.99: SKw .030]
 02618+ [InterEventTime: 12.00h] .293 1992.0717_19:20 94.75 .129 .000
 02619+ R0921c00005-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02620+ CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .432 1992.0717_19:25 106.49 .146 .000
 02621+ [CN=76.0: Ns 3:00; Tp: 1.26] .432 1992.0717_19:25 106.49 .146 .000
 02622+ [InterEventTime: 12.00h] .432 1992.0717_19:25 106.49 .146 .000
 02623+ R0921c00006-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02624+ CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .191 1992.0717_20:15 92.50 .126 .000
 02625+ [CN=100.0: Ns 3:00; Tp: 1.26] .191 1992.0717_20:15 92.50 .126 .000
 02626+ [InterEventTime: 12.00h] .191 1992.0717_20:15 92.50 .126 .000
 02627+ R0921c00007-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02628+ ADD HVD 5.0 02:West_1 14.27 .293 1992.0717_19:20 94.75 n/a .000
 02629+ + 5.0 02:West_2 20.14 .432 1992.0717_19:25 106.49 n/a .000
 02630+ + 5.0 02:West_3 14.01 .191 1992.0717_20:15 92.50 n/a .000
 02631+ SIMM+ 5.0 01:West_Total 48.42 .890 1992.0717_19:30 99.07 n/a .000
 02632+ [CN=100.0: Ns 3:00; Tp: 1.26] .890 1992.0717_19:30 99.07 n/a .000
 02633+ # Set Infiltration to 0 (CN = 99.99) for water balance analysis
 02634+ [InterEventTime: 12.00h] .890 1992.0717_19:30 99.07 n/a .000
 02635+ R0921c00008-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02636+ CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .293 1992.0717_19:20 94.75 .129 .000
 02637+ [CN=100.0: Ns 3:00; Tp: 1.26] .293 1992.0717_19:20 94.75 .129 .000
 02638+ [InterEventTime: 12.00h] .293 1992.0717_19:20 94.75 .129 .000
 02639+ R0921c00009-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02640+ CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .432 1992.0717_19:25 106.49 .146 .000
 02641+ [CN=76.0: Ns 3:00; Tp: 1.26] .432 1992.0717_19:25 106.49 .146 .000
 02642+ [InterEventTime: 12.00h] .432 1992.0717_19:25 106.49 .146 .000
 02643+ R0921c00010-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02644+ CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .191 1992.0717_20:15 92.50 .126 .000
 02645+ [CN=100.0: Ns 3:00; Tp: 1.26] .191 1992.0717_20:15 92.50 .126 .000
 02646+ [InterEventTime: 12.00h] .191 1992.0717_20:15 92.50 .126 .000
 02647+ R0921c00011-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02648+ ADD HVD 5.0 02:West_1 14.27 .293 1992.0717_19:20 94.75 n/a .000
 02649+ + 5.0 02:West_2 20.14 .432 1992.0717_19:25 106.49 n/a .000
 02650+ + 5.0 02:West_3 14.01 .191 1992.0717_20:15 92.50 n/a .000
 02651+ SIMM+ 5.0 01:West_Total 48.42 .890 1992.0717_19:30 99.07 n/a .000
 02652+ [CN=100.0: Ns 3:00; Tp: 1.26] .890 1992.0717_19:30 99.07 n/a .000
 02653+ # Set Infiltration to 0 (CN = 99.99) for water balance analysis
 02654+ [InterEventTime: 12.00h] .890 1992.0717_19:30 99.07 n/a .000
 02655+ R0921c00012-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02656+ CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .293 1992.0717_19:20 94.75 .129 .000
 02657+ [CN=100.0: Ns 3:00; Tp: 1.26] .293 1992.0717_19:20 94.75 .129 .000
 02658+ [InterEventTime: 12.00h] .293 1992.0717_19:20 94.75 .129 .000
 02659+ R0921c00013-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02660+ ADD HVD 5.0 02:West_1 14.27 .293 1992.0717_19:20 94.75 n/a .000
 02661+ + 5.0 02:West_2 20.14 .432 1992.0717_19:25 106.49 n/a .000
 02662+ + 5.0 02:West_3 14.01 .191 1992.0717_20:15 92.50 n/a .000
 02663+ SIMM+ 5.0 01:West_Total 48.42 .890 1992.0717_19:30 99.07 n/a .000
 02664+ [CN=100.0: Ns 3:00; Tp: 1.26] .890 1992.0717_19:30 99.07 n/a .000
 02665+ # CONTINUOUS RAINFALL DATA
 02666+ ** END OF RUN : 92
 02667+ *** END OF RUN : 92
 02668+ R0931c0001-----
 02669+ READ AES DATA
 02700+ # [Filename = YOW_1967_2007.123]
 02701+ [Start_date= 1967.01.01, End_date= 1993.12.31]
 02702+ [Length= 8760.hrs: Wethrs= 551: DryHrs= 8209: PTOT= 732.80]
 02703+ Number of rainfall events per following interevent time
 02704+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02705+ 1.91 1.54 1.37 1.11 91 73 57 48 34 mm
 02706+ Number of events with at least the following durations
 02707+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02708+ 1.91 1.10 0.86 0.66 0.52 0.37 0.26 0.16 0 mm
 02709+ R0931c00003-----
 02710+ [APInit: 50.00; APIAdv: .9900; APIKdt: .9956]
 02711+ [APInit: 66.56; APIAdv: 20.01; APIMin: .11]
 02712+ # Barrhaven Conservancy West Developments (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
 02713+ # Barrhaven Conservancy West Developments (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
 02714+ # Barrhaven Conservancy West Developments (WITH INFILTRATION) PRE DEVELOPMENT CONDITIONS
 02715+ R0931c00004-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02716+ CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .293 1992.0717_19:20 94.75 .129 .000
 02717+ [CN= 72.0: Ns 3:00; Tp: 1.14]
 02718+ [iAECm 6.00: SMIN 1.39: SMAX 264.99: SKw .030]
 02719+ [InterEventTime: 12.00h] .293 1992.0717_19:20 94.75 .129 .000
 02720+ R0931c00005-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02721+ CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .158 1992.0718_7:40 71.45 .099 .000
 02722+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02723+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02724+ [InterEventTime: 12.00h] .158 1992.0718_7:40 71.45 .099 .000
 02725+ R0931c00006-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02726+ CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .082 1992.0718_8:35 60.95 .0/a .000
 02727+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02728+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02729+ [InterEventTime: 12.00h] .082 1992.0718_8:35 60.95 .0/a .000
 02730+ R0931c00007-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02731+ CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .224 1992.0718_7:25 211.67 .293 .000
 02732+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02733+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02734+ [InterEventTime: 12.00h] .224 1992.0718_7:25 211.67 .293 .000
 02735+ R0931c00008-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02736+ CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .224 1992.0718_7:25 211.67 .293 .000
 02737+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02738+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02739+ [InterEventTime: 12.00h] .224 1992.0718_7:25 211.67 .293 .000
 02740+ R0931c00009-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02741+ CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .138 1992.0718_7:55 211.67 .293 .000
 02742+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02743+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02744+ [InterEventTime: 12.00h] .138 1992.0718_7:55 211.67 .293 .000
 02745+ R0931c00010-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02746+ CONTINUOUS_NASHYD_ 5.0 01:West_1 14.27 .162 1992.0718_7:55 211.67 .293 .000
 02747+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02748+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02749+ [InterEventTime: 12.00h] .162 1992.0718_7:55 211.67 .293 .000
 02750+ R0931c00011-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02751+ CONTINUOUS_NASHYD_ 5.0 01:West_2 20.14 .162 1992.0718_7:55 211.67 .293 .000
 02752+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02753+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02754+ [InterEventTime: 12.00h] .162 1992.0718_7:55 211.67 .293 .000
 02755+ R0931c00012-----Dtnin-ID:NHYD-----ARSAha-QPEAKms-TpeakData_hh:mm:--Rvmm-R.C.--DWFcms
 02756+ CONTINUOUS_NASHYD_ 5.0 01:West_3 14.01 .162 1992.0718_7:55 211.67 .293 .000
 02757+ [CN=100.0: Ns 3:00; Tp: 1.14]
 02758+ [iAECm 6.00: SMIN 32.46: SMAX 216.39: SKw .030]
 02759+ [InterEventTime: 12.00h] .162 1992.0718_7:55 211.67 .293 .000
 02760+ R0931c00013-----
 02761+ # CONTINUOUS RAINFALL DATA
 02762+ ** END OF RUN : 94
 02763+ R0931c00014-----
 02764+ # TZERO = .00 hrs on 19930101
 02765+ [METOUT: 2 (Imperial, 2=metric output)]
 02766+ [INSTRNM: 0]
 02767+ #
 02768+ # Updated : 2022/Dec/13 [JB]
 02769+ # Created : 2022/Dec/13 [JB]
 02770+ # Updated : 2024/Mar/14 [JB]
 02771+ # Company : J.F. Sabourin and Associates
 02772+ # License #: 2582634
 02773+ #
 02774+ # Ottawa International Airport (1967 - 2003)
 02775+ #
 02776+ # Project Name: Barrhaven Conservancy Development
 02777+ # Project Number: 1474
 02778+ # Modeler : J. Burnett, P.Eng.
 02779+ # Updated : 2022/Dec/07 [JB]
 02780+ # Created : 2022/Dec/07 [JB]
 02781+ # Updated : 2024/Mar/14 [JB]
 02782+ # Company : J.F. Sabourin and Associates
 02783+ # License #: 2582634
 02784+ #
 02785+ # Ottawa International Airport (1967 - 2003)
 02786+ #
 02787+ # SWHMHO Ver1.5/02/2003 <BETA> / INPUT DATA FILE
 02788+ #
 02789+ # Project Name: Barrhaven Conservancy Development
 02790+ # Project Number: 1474
 02791+ # Modeler : J. Burnett, P.Eng.
 02792+ # Updated : 2022/Dec/07 [JB]
 02793+ # Created : 2022/Dec/07 [JB]
 02794+ # Updated : 2024/Mar/14 [JB]
 02795+ # Company : J.F. Sabourin and Associates
 02796+ # License #: 2582634
 02797+ #
 02798+ # Ottawa International Airport (1967 - 2003)
 02799+ #
 02800+ # READ AES DATA
 02801+ # [Filename = YOW_1967_2007.123]
 02802+ [Start_date= 1967.01.01, End_date= 1993.12.31]
 02803+ [Length= 8760.hrs: Wethrs= 551: DryHrs= 8209: PTOT= 721.30]
 02804+ Maximum average rainfall intensities over
 02805+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02806+ 1.60 1.40 1.20 1.00 0.80 0.60 0.40 0.20 0.00 mm/hr
 02807+ 1.60 1.40

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02881# Project Name: Barrhaven Conservancy Development
02882# Project Number: 1474
02883# Date : 2021/Oct/18
02884# Modeler : J.Burnett, P.Eng.
02885# Updated : 2022/Dec/07 [JBJ]
02886# Updated : 2022/Dec/13 [PFB]
02887# Company : J.F. Sabourin and Associates
02888# License : 1_2582634
02889# *****

02891# Ottawa International Airport (1967 - 2003)
02892# RO095:CD00002-
02893# READ AER DATA
02894# =====
02895# [filename = YOM_1967_2007_123]
02896# [Start_date= 1995.0101; End_date= 1995.1231]
02897# (DT= 60: min; Length= 8504; hrst: Wethrs: 332; DryHrs: 7708; PTOT: 538.501
02898# Maximum average rainfall intensities over:
02899# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02899# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm/hr
02899# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm hr
02900# 16.90 13.25 11.33 8.98 6.35 3.48 2.95 2.21 1.48 mm hr
02901# 1995060 19950603 19951006 19951006 19951006 19951006 19951006 19951006 19951006 date
02902# Number of rainfall events per following interevent time
02903# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02903# .91 73 65 55 47 41 34 31 25
02905# Number of events with at least the following durations
02906# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02907# .90 54 38 35 16 3 0 0 0 0
02908# RO095:CD00003-
02909# READ AER DATA
02910# =====
02911# [APIdate= 50.00; APIkdw=.9000; APIkdt=.9956]
02911# (APImax=.9957; APFlag=.16.58; APMin=.00)
02912# *****

02913# Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02914# =====
02915# RO095:CD0004- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02916# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .311 1995.0603 9130 159.14 .296
02917# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
02918# [InterEventTime: 12.00]
02919# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
02920# RO095:CD0005- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02921# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .442 1995.0603 9:35 172.16 .320 .000
02922# [CN= 76.00: N= 3.00: Tp= 1.26]
02923# [iAEC= 6.00: SMIN: 39.75: SMAW:216.39: SK=.030]
02924# [InterEventTime: 12.00]
02925# RO095:CD0006- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02926# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .236 1995.1006 8:35 156.58 .391 .000
02927# [CN= 71.00: N= 3.00: Tp= 2.07]
02928# [iAEC= 6.00: SMIN: 41.38: SMAW:275.84: SK=.030]
02929# [InterEventTime: 12.00]
02930# RO095:CD0007- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02931# ADD HYD 5.0 02:West_1 14.27 .311 1995.0603 9:30 159.14 .n/a .000
02932# + 5.0 02:West_2 20.14 .442 1995.0603 9:30 159.14 .n/a .000
02933# + 5.0 02:West_3 14.01 .236 1995.1006 8:35 156.58 .n/a .000
02934# SUM: 5.0 01:West_Total 48.42 .959 1995.0603 9:40 163.82 .n/a .000
02935# [CN= 76.00: N= 3.00: Tp= 1.26]
02936# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
02937# *****

02938# Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02939# =====
02940# Set infiltration to 0 (CN = 99.99) for water balance analysis
02941# =====
02942# RO095:CD0008- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02943# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .418 1995.1006 6:05 283.64 .527 .000
02944# [CN= 76.00: N= 3.00: Tp= 1.26]
02945# [iAEC= 6.00: SMIN: 1.39: SMAW: 9.24: SK=.000]
02946# [InterEventTime: 12.00]
02947# RO095:CD0009- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02948# CONTINUOUS_NASHYD 5.0 01:INWest_2 20.14 .576 1995.1006 6:15 283.64 .n/a .000
02949# [CN= 100.00: N= 3.00: Tp= 1.26]
02950# [iAEC= 6.00: SMIN: 1.39: SMAW: 9.24: SK=.000]
02951# [InterEventTime: 12.00]
02952# RO095:CD0010- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02953# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .350 1995.1006 7:30 283.64 .527 .000
02954# [CN= 76.00: N= 3.00: Tp= 1.26]
02955# [iAEC= 6.00: SMIN: 1.39: SMAW: 9.24: SK=.000]
02956# [InterEventTime: 12.00]
02957# RO095:CD0011- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
02958# ADD HYD 5.0 02:INWest_1 14.27 .418 1995.1006 6:05 283.64 .n/a .000
02959# + 5.0 02:INWest_2 20.14 .576 1995.1006 6:15 283.64 .n/a .000
02960# + 5.0 02:INWest_3 14.01 .350 1995.1006 7:30 283.64 .n/a .000
02961# SUM: 5.0 01:INWest_Total 48.42 .130 1995.1006 6:30 283.64 .n/a .000
02962# *****
02963# *****

02964# END OF RUN: 95
02965# *****

02966# RO096:COMMAND#
02967# START
02968# [STERO = .00 hrs on 19980101]
02969# [METOUT= 2 (Imperial, 2=metric output)]
02970# [INSTRUME: 0]
02971# [INTERVNTIME: 0]
02972# *****

02973# SWHMRY Ver:1.02/Jan/2001 BETTA/ / INPUT DATA FILE
02974# =====
02975# Project Name: Barrhaven Conservancy Development
02976# Project Number: 1474
02977# Date : 2021/Oct/18
02978# Modeler : J.Burnett, P.Eng.
02979# Updated : 2022/Dec/07 [JBJ]
02980# Updated : 2022/Dec/13 [PFB]
02981# Company : J.F. Sabourin and Associates
02982# License : 1_2582634
02983# *****

02985# Ottawa International Airport (1967 - 2003)
02986# RO096:CD00002-
02987# READ AER DATA
02988# =====
02989# [filename = YOM_1967_2007_123]
02990# [Start_date= 1996.0101; End_date= 1996.1230]
02991# (DT= 60: min; Length= 6552; hrst: Wethrs: 387; DryHrs: 6165; PTOT: 512.20)
02992# Maximum average rainfall intensities over:
02993# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02993# 18.50 13.55 9.03 2.42 2.93 1.84 1.32 1.02 0.67 mm/hr
02993# 18.50 13.55 9.03 2.42 2.93 1.84 1.32 1.02 0.67 mm hr
02993# 18.50 13.55 9.03 2.42 2.93 1.84 1.32 1.02 0.67 mm hr
03001# 19960731 19960731 19960731 19960731 19960731 19960731 19960731 19960731 19960731 date
03002# Number of rainfall events per following interevent time
03003# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03003# 132 104 93 71 59 43 36 31 24
03005# Number of events with at least the following durations
03006# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03007# 131 72 50 39 29 2 1 0 0 0
03008# RO096:CD0003-
03009# READ AER DATA
03100# =====
03101# [APIdate= 50.00; APIkdw=.9000; APIkdt=.9956]
03101# (APImax=.63.22; APFlag=.19.39; APMin=.71)
03102# *****

03103# Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03104# =====
03105# RO096:CD0004- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03106# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .107 1996.0731 16:30 46.54 .091 .000
03107# [CN= 76.00: N= 3.00: Tp= 2.07]
03108# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03109# [InterEventTime: 12.00]
03110# RO096:CD0005- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03111# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .162 1996.0731 16:40 53.26 .104 .000
03112# [CN= 76.00: N= 3.00: Tp= 2.07]
03113# [iAEC= 6.00: SMIN: 39.75: SMAW:216.39: SK=.030]
03114# [InterEventTime: 12.00]
03115# RO096:CD0006- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03116# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .178 1996.0731 17:10 157.48 .307 .000
03117# [CN= 100.00: N= 3.00: Tp= 2.07]
03118# [iAEC= 6.00: SMIN: 39.75: SMAW:275.84: SK=.030]
03119# [InterEventTime: 12.00]
03120# RO096:CD0007- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03121# ADD HYD 5.0 02:INWest_1 14.27 .107 1996.0731 16:20 157.48 .307 .000
03122# + 5.0 02:INWest_2 20.14 .162 1996.0731 16:30 157.48 .n/a .000
03123# + 5.0 02:INWest_3 14.01 .178 1996.0731 17:10 157.48 .n/a .000
03124# SUM: 5.0 01:INWest_Total 48.42 .324 1996.0731 16:40 48.97 .n/a .000
03125# [CN= 76.00: N= 3.00: Tp= 2.07]
03126# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03127# [InterEventTime: 12.00]
03128# RO096:CD0008- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03129# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .064 1996.0731 17:20 45.29 .n/a .000
03130# [CN= 76.00: N= 3.00: Tp= 2.07]
03131# [iAEC= 6.00: SMIN: 39.75: SMAW:275.84: SK=.030]
03132# [InterEventTime: 12.00]
03133# RO096:CD0009- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03134# ADD HYD 5.0 02:INWest_1 14.27 .064 1996.0731 17:20 45.29 .n/a .000
03135# + 5.0 02:INWest_2 20.14 .128 1996.0731 17:30 45.29 .n/a .000
03136# + 5.0 02:INWest_3 14.01 .178 1996.0731 18:10 45.29 .n/a .000
03137# SUM: 5.0 01:INWest_Total 48.42 .392 1996.0731 17:40 45.29 .n/a .000
03138# [CN= 100.00: N= 3.00: Tp= 2.07]
03139# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03140# [InterEventTime: 12.00]
03141# RO096:CD0010- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03142# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .178 1996.0731 17:20 45.29 .n/a .000
03143# [CN= 76.00: N= 3.00: Tp= 2.07]
03144# [iAEC= 6.00: SMIN: 39.75: SMAW:275.84: SK=.030]
03145# [InterEventTime: 12.00]
03146# RO096:CD0011- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03147# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .178 1996.0731 17:20 45.29 .n/a .000
03148# [CN= 76.00: N= 3.00: Tp= 2.07]
03149# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03150# [InterEventTime: 12.00]
03151# RO096:CD0012- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03152# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.01 .145 1997.0221 21:50 128.55 .297 .000
03153# [CN= 100.00: N= 3.00: Tp= 2.07]
03154# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03155# [InterEventTime: 12.00]
03156# RO096:CD0013- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03157# ADD HYD 5.0 02:INWest_1 14.27 .177 1997.0221 21:15 128.55 .n/a .000
03158# + 5.0 02:INWest_2 20.14 .245 1997.0221 21:20 128.55 .n/a .000
03159# + 5.0 02:INWest_3 14.01 .145 1997.0221 21:50 128.55 .n/a .000
03160# SUM: 5.0 01:INWest_1 48.42 .199 1997.0221 21:40 29.55 .n/a .000
03161# *****

03162# CONTINUOUS RAINFALL DATA
03163# *** END OF RUN: 97
03164# *****

03165# RO097:COMMAND#
03166# START
03167# [STERO = .00 hrs on 19980101]
03168# [METOUT= 2 (Imperial, 2=metric output)]
03169# [INSTRUME: 0]
03170# [INTERVNTIME: 0]
03171# *****

03172# RO097:CD0001-
03173# READ AER DATA
03174# =====
03175# [STERO = .00 hrs on 19980101]
03176# [METOUT= 2 (Imperial, 2=metric output)]
03177# [INSTRUME: 0]
03178# [INTERVNTIME: 0]
03179# *****

03180# SWHMRY Ver:1.02/Jan/2001 BETTA/ / INPUT DATA FILE
03181# Project Name: Barrhaven Conservancy Development
03182# Project Number: 1474
03183# Date : 2021/Oct/18
03184# Modeler : J.Burnett, P.Eng.
03185# Updated : 2022/Dec/07 [JBJ]
03186# Updated : 2022/Dec/13 [PFB]
03187# Company : J.F. Sabourin and Associates
03188# License : 1_2582634
03189# *****

03191# Ottawa International Airport (1967 - 2003)
03192# RO098:CD00002-
03193# READ AER DATA
03194# =====
03195# [filename = YOM_1967_2007_123]
03196# [Start_date= 1998.01.01; End_date= 1998.12.31]
03197# (DT= 60: min; Length= 6552; hrst: Wethrs: 291; DryHrs: 4797; PTOT: 440.30)
03198# Maximum average rainfall intensities over:
03199# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03199# 15.80 17.80 22.80 24.00 30.50 43.60 45.80 45.80 54.60 mm/hr
03200# 15.80 17.80 22.80 24.00 30.50 43.60 45.80 45.80 54.60 mm hr
03201# 19980716 19980716 19980716 19980716 19980716 19980716 19980716 19980716 19980716 date
03202# Number of rainfall events per following interevent time
03203# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03203# 126 104 93 71 59 43 36 31 24
03205# Number of events with at least the following durations
03206# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03206# 121 72 50 39 29 2 1 0 0 0
03207# RO098:CD0003-
03208# READ AER DATA
03209# =====
03210# [APIdate= 50.00; APIkdw=.9000; APIkdt=.9956]
03211# (APImax=.57.22; APFlag=.21.28; APMin=.16.91)
03212# *****

03213# Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03214# =====
03215# RO098:CD0004- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03216# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .128 1998.0731 16:20 157.48 .307 .000
03217# [CN= 76.00: N= 3.00: Tp= 2.07]
03218# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03219# [InterEventTime: 12.00]
03220# RO098:CD0005- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03221# CONTINUOUS_NASHYD 5.0 01:West_2 20.14 .103 1998.0731 16:25 157.48 .095 .000
03222# [CN= 76.00: N= 3.00: Tp= 2.07]
03223# [iAEC= 6.00: SMIN: 39.75: SMAW:216.39: SK=.030]
03224# [InterEventTime: 12.00]
03225# RO098:CD0006- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03226# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .070 1998.0731 17:05 32.44 .n/a .000
03227# [CN= 76.00: N= 3.00: Tp= 2.07]
03228# [iAEC= 6.00: SMIN: 39.75: SMAW:275.84: SK=.030]
03229# [InterEventTime: 12.00]
03230# RO098:CD0007- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03231# ADD HYD 5.0 02:INWest_1 14.27 .070 1998.0731 17:10 32.44 .n/a .000
03232# + 5.0 02:INWest_2 20.14 .103 1998.0731 17:15 37.63 .n/a .000
03233# + 5.0 02:INWest_3 14.01 .040 1998.0731 17:40 31.73 .n/a .000
03234# SUM: 5.0 01:INWest_Total 48.42 .145 1998.0731 17:55 44.74 .n/a .000
03235# [CN= 100.00: N= 3.00: Tp= 2.07]
03236# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03237# [InterEventTime: 12.00]
03238# RO098:CD0008- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03239# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .070 1998.0731 18:05 32.44 .n/a .000
03240# [CN= 76.00: N= 3.00: Tp= 2.07]
03241# [iAEC= 6.00: SMIN: 39.75: SMAW:275.84: SK=.030]
03242# [InterEventTime: 12.00]
03243# RO098:CD0009- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03244# ADD HYD 5.0 02:INWest_1 14.27 .070 1998.0731 18:20 32.44 .n/a .000
03245# + 5.0 02:INWest_2 20.14 .103 1998.0731 18:25 37.63 .n/a .000
03246# + 5.0 02:INWest_3 14.01 .040 1998.0731 18:50 31.73 .n/a .000
03247# SUM: 5.0 01:INWest_Total 48.42 .145 1998.0731 19:05 44.74 .n/a .000
03248# [CN= 100.00: N= 3.00: Tp= 2.07]
03249# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03250# [InterEventTime: 12.00]
03251# RO098:CD0010- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03252# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .070 1998.0731 19:10 32.44 .n/a .000
03253# [CN= 76.00: N= 3.00: Tp= 2.07]
03254# [iAEC= 6.00: SMIN: 39.75: SMAW:275.84: SK=.030]
03255# [InterEventTime: 12.00]
03256# RO098:CD0011- DIn-ID:NHYD---AREAh-QPEAKms-TpeakData_hhmm---RVm=R.C.--DWFcms
03257# CONTINUOUS_NASHYD 5.0 01:INWest_1 14.27 .070 1998.0731 19:15 32.44 .n/a .000
03258# [CN= 76.00: N= 3.00: Tp= 2.07]
03259# [iAEC= 6.00: SMIN: 39.75: SMAW:264.99: SK=.030]
03260# [InterEventTime: 12.00]
03261# *****
```

032412 CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .176 1998.0627_1:50 127.31 .289 .000
 032413 [CN=100.0: N: 3.00: Tp: 1.14] .176 1998.0627_1:50 127.31 .289 .000
 032414 [InterEventTime: 12.00]
 032415 RO098:CD0009-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032416 CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .242 1998.0927_3:20 127.31 .289 .000
 032417 [CN=100.0: N: 3.00: Tp: 1.24]
 032418 [iAEBC 6.00: SMIN: 1.39: SMAX: 9.24: SKW: .000]
 032419 [InterEventTime: 12.00]
 032420 RO098:CD0010-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032421 CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .135 1998.0927_3:50 127.31 .289 .000
 032422 [CN=100.0: N: 3.00: Tp: 1.14] .135 1998.0927_3:50 127.31 .289 .000
 032423 [iAEBC 6.00: SMIN: 1.39: SMAX: 9.24: SKW: .000]
 032424 [InterEventTime: 12.00]
 032425 RO098:CD0011-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032426 ADD RWD + 5.0 02:INF-West_1 20.14 .242 1998.0927_3:20 127.31 n/a .000
 032427 + 5.0 02:INF-West_3 14.01 .135 1998.0927_3:50 127.31 n/a .000
 032428 SUM: 10.0 01:INF-West_1 20.14 .242 1998.0927_3:20 127.31 n/a .000
 032429 *****
 032430 *****
 032431 # CONTINUOUS RAINFALL DATA
 032432 *****
 032433 ** END OF RUN : 98
 032434 *****
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 032479 # SWHMHO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
 032480 *****
 032481 Project Name: Barrhaven Conservancy Development
 032482 Project #: 1474
 032483 *****
 032484 #
 032485 #
 032486 #
 032487 #
 032488 # Company : J.F. Sabourin and Associates
 032489 # License #: 2582634
 032490 *****
 032491 # Ottawa International Airport (1967 - 2003)
 032492 RO099:CD0002-----
 032493 [Filename = YOM_1967_2007.123]
 032494 [Start_date: 1999.0101: End_date: 1999.1231]
 032495 [OTr: 60:min: Length: 5160hrs: NetHrs: 401: DryHrs: 4759: PTOT: 424.40]
 032496 [MetOut: 2 (Imperial, 2=metric output)]
 032497 [INSTRM: 0]
 032498 [INRNU: 0]
 032499 [INRNU: 0]
 032500 [INRNU: 0]
 032501 [INRNU: 0]
 032502 Number of rainfall events per following interevent time
 032503 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 032504 102 .80 70 63 56 39 31 28 18
 032505 Number of events with at least the following durations
 032506 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 032507 101 .57 31 10 0 0 0 0 0
 032508 RO099:CD0003-----
 032509 [APIntr= 50.00: APIkdy=.9000: APIkdt=.9956]
 032510 [APIntr= 69.51: APIkdy=.23.97: APIntr=.933]
 032511 [InterEventTime: 12.00]
 032512 #
 032513 # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
 032514 #
 032515 RO098:CD0004-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032516 CONTINUOUS NASHYD 5.0 01:West_1 14.27 .092 1999.0906_91:15 33.30 .979 .000
 032517 [CN= 72.0: N: 3.00: Tp: 1.14] .092 1999.0906_91:15 33.30 .979 .000
 032518 [iAEBC 6.00: SMIN: 1.39: SMAX: 246.99: SKW: .000]
 032519 [InterEventTime: 12.00]
 032520 RO099:CD0005-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032521 CONTINUOUS NASHYD 5.0 01:West_2 20.14 .146 1999.0906_91:20 38.58 .091 .000
 032522 [CN= 74.0: N: 3.00: Tp: 1.14] .146 1999.0906_91:20 38.58 .091 .000
 032523 [iAEBC 6.00: SMIN: 1.39: SMAX: 216.39: SKW: .000]
 032524 [InterEventTime: 12.00]
 032525 RO099:CD0006-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032526 CONTINUOUS NASHYD 5.0 01:West_3 14.01 .069 1999.0906_91:20 32.57 .077 .000
 032527 [CN= 71.0: N: 3.00: Tp: 2.07] .069 1999.0906_91:20 32.57 .077 .000
 032528 [iAEBC 6.00: SMIN: 1.39: SMAX: 275.84: SKW: .000]
 032529 [InterEventTime: 12.00]
 032530 RO099:CD0007-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032531 ADD RWD + 5.0 01:West_1 14.28 .092 1999.0906_91:20 33.38 .000
 032532 + 5.0 02:West_2 20.14 .369 1999.0906_91:20 38.58 n/a .000
 032533 + 5.0 02:West_3 14.01 .069 1999.0906_91:20 32.57 n/a .000
 032534 SUM: 10.0 01:West_1 14.28 .092 1999.0906_91:20 33.38 .000
 032535 *****
 032536 #
 032537 #
 032538 # Set infiltration to 0 (CN = 99.99) for water balance analysis
 032539 #
 032540 RO099:CD0008-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032541 CONTINUOUS NASHYD 5.0 01:INF-West_1 14.27 .277 1999.0906_91:20 131.43 .310 .000
 032542 [CN= 71.0: N: 3.00: Tp: 1.14] .277 1999.0906_91:20 131.43 .310 .000
 032543 [iAEBC 6.00: SMIN: 1.39: SMAX: 9.24: SKW: .000]
 032544 [InterEventTime: 12.00]
 032545 RO099:CD0009-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032546 CONTINUOUS NASHYD 5.0 01:INF-West_2 20.14 .377 1999.0906_91:20 131.43 .310 .000
 032547 [CN= 72.0: N: 3.00: Tp: 1.14] .377 1999.0906_91:20 131.43 .310 .000
 032548 [iAEBC 6.00: SMIN: 1.39: SMAX: 9.24: SKW: .000]
 032549 [InterEventTime: 12.00]
 032550 RO099:CD0010-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032551 CONTINUOUS NASHYD 5.0 01:INF-West_3 14.01 .209 1999.0906_91:20 131.43 .310 .000
 032552 [CN=100.0: N: 3.00: Tp: 2.07] .209 1999.0906_91:20 131.43 n/a .000
 032553 [iAEBC 6.00: SMIN: 1.39: SMAX: 246.99: SKW: .000]
 032554 [InterEventTime: 12.00]
 032555 RO099:CD0011-----DRAIN-ID:NHYD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RVMn-R.C.---DWFcms
 032556 ADD RWD + 5.0 01:INF-West_1 14.27 .207 1999.0906_91:20 131.43 n/a .000
 032557 + 5.0 02:INF-West_2 20.14 .377 1999.0906_91:20 131.43 n/a .000
 032558 + 5.0 02:INF-West_3 14.01 .209 1999.0906_91:20 131.43 n/a .000
 032559 SUM: 10.0 01:INF-West_1 14.27 .207 1999.0906_91:20 131.43 n/a .000
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03602> 20030711 20030711 20030711 20030711 2003071021 2003071015 20030525 20030526 20030527 date
03603> 1 2 3 4 5 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03604> 145 127 109 86 64 45 38 25 15
03605> Number of events with at least the following durations
03606> 1 2 3 4 5 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03607> 144 80 43 13 5 1 0 0 0 0 0
03608> R0103:00003-----
03609> # APInit= 50.00; APFkdy=.9000; APIKch=.9956
03610> (#APInit= 50.00; APFkdy=.9000; APIKch=.9956)
03611> (#APInit= 72.10; APFlagv= 28.54; APIInit= 4.70)
03612> #*****
03613> # Barrhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03614> #*****
03615> R0103:00004-----ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03616> CONTINUOUS NASHYD 5.0 01West_1 14.27 .149 2003.0711_17:45 76.07 .137 .000
03617> [CN= 72.01 N= 3.00 Tp= 1.14]
03618> [iAECH= 6.00; SHINH= 39.75; SMAX=264.99; SKw=.030]
03619> [iAECH= 6.00; SHINH= 39.75; SMAX=264.99; SKw=.030]
03620> R0103:00005-----Dmin-ID:NHYD---ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03621> CONTINUOUS NASHYD 5.0 01West_2 20.14 .221 2003.0711_17:50 86.07 .155 .000
03622> [CN= 74.01 N= 3.00 Tp= 1.00]
03623> [iAECH= 6.00; SHINH= 39.75; SMAX=264.99; SKw=.030]
03624> [iAECH= 6.00; SHINH= 39.75; SMAX=264.99; SKw=.030]
03625> R0103:00006-----ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03626> CONTINUOUS NASHYD 5.0 01West_3 14.01 .091 2003.0711_17:50 74.30 .134 .000
03627> [CN= 71.01 N= 3.00 Tp= 2.07]
03628> [iAECH= 6.00; SHINH= 39.75; SMAX=275.84; SKw=.030]
03629> [iAECH= 6.00; SHINH= 39.75; SMAX=275.84; SKw=.030]
03630> R0103:00007-----Dmin-ID:NHYD---ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03631> CONTINUOUS NASHYD 5.0 01West_1 14.27 .149 2003.0711_17:45 76.17 n/a .000
03632> + 5.0 02West_2 20.14 .221 2003.0711_17:50 86.07 n/a .000
03633> + 5.0 02West_3 14.01 .091 2003.0711_17:50 74.30 n/a .000
03634> ADD HYD 5.0 01West_1 14.27 .149 2003.0711_17:45 76.17 n/a .000
03635> #*****
03636> # Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03637> #*****
03638> # Set Infiltration to 0 (CN = 99.99) for water balance analysis
03639> #*****
03640> R0103:00008-----Dmin-ID:NHYD---ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03641> CONTINUOUS NASHYD 5.0 01INF-West_1 14.27 .307 2003.0711_17:35 204.68 .369 .000
03642> [CN=100.01 N= 3.00 Tp= 1.14]
03643> [iAECH= 6.00; SHINH= 39.75; SMAX= 9.24; SKw=.000]
03644> [iAECH= 6.00; SHINH= 39.75; SMAX= 9.24; SKw=.000]
03645> R0103:00009-----Dmin-ID:NHYD---ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03646> CONTINUOUS NASHYD 5.0 01INF-West_2 20.14 .403 2003.0711_17:40 204.68 .369 .000
03647> [CN=100.01 N= 3.00 Tp= 1.00]
03648> [iAECH= 6.00; SHINH= 39.75; SMAX= 9.24; SKw=.000]
03649> [iAECH= 6.00; SHINH= 39.75; SMAX= 9.24; SKw=.000]
03650> R0103:00010-----Dmin-ID:NHYD---ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03651> CONTINUOUS NASHYD 5.0 01INF-West_3 14.01 .191 2003.0711_18:20 204.68 .369 .000
03652> [CN=100.01 N= 3.00 Tp= 2.07]
03653> [iAECH= 6.00; SHINH= 39.75; SMAX= 9.24; SKw=.000]
03654> [iAECH= 6.00; SHINH= 39.75; SMAX= 9.24; SKw=.000]
03655> R0103:00011-----Dmin-ID:NHYD---ARAhA-QPEAKcms-Tpeakdate_hh:mm:-->RVMm=R.C.--DWFcms
03656> CONTINUOUS RAINFALL DATA
03657> ADD HYD 5.0 01INF-West_1 14.27 .149 2003.0711_17:40 204.68 n/a .000
03658> + 5.0 02INF-West_2 20.14 .403 2003.0711_17:40 204.68 n/a .000
03659> + 5.0 02INF-West_3 14.01 .191 2003.0711_18:20 204.68 n/a .000
03660> + 5.0 01INF-West_7 48.42 .876 2003.0711_17:40 204.68 n/a .000
03661> # CONTINUOUS RAINFALL DATA
03662> #####FINISH#####
03663> R0103:00002-----FINISH
03664> -----
03665> -----
03666> -----
03667> # WARNINGS / ERRORS / NOTES
03668> R0067:00002 READ AEE DATA
03669> *** WARNING: Requested start date is less than start date in file.
03670> *** WARNING: Missing rainfall increments were set to 0.
03671> *** WARNING: Missing rainfall increments were set to 0.
03672> *** WARNING: Missing rainfall increments were set to 0.
03673> *** WARNING: Missing rainfall increments were set to 0.
03674> *** WARNING: Missing rainfall increments were set to 0.
03675> *** WARNING: Missing rainfall increments were set to 0.
03676> *** WARNING: Missing rainfall increments were set to 0.
03677> *** WARNING: Missing rainfall increments were set to 0.
03678> *** WARNING: Missing rainfall increments were set to 0.
03679> *** WARNING: Missing rainfall increments were set to 0.
03680> *** WARNING: Missing rainfall increments were set to 0.
03681> *** WARNING: Missing rainfall increments were set to 0.
03682> *** WARNING: Missing rainfall increments were set to 0.
03683> *** WARNING: Missing rainfall increments were set to 0.
03684> *** WARNING: Missing rainfall increments were set to 0.
03685> *** WARNING: Missing rainfall increments were set to 0.
03686> *** WARNING: Missing rainfall increments were set to 0.
03687> *** WARNING: Missing rainfall increments were set to 0.
03688> *** WARNING: Missing rainfall increments were set to 0.
03689> *** WARNING: Missing rainfall increments were set to 0.
03690> *** WARNING: Missing rainfall increments were set to 0.
03691> *** WARNING: Missing rainfall increments were set to 0.
03692> *** WARNING: Requested start date is less than start date in file.
03693> *** WARNING: Missing rainfall increments were set to 0.
03694> *** WARNING: Missing rainfall increments were set to 0.
03695> *** WARNING: Missing rainfall increments were set to 0.
03696> *** WARNING: Requested start date is less than start date in file.
03697> *** WARNING: Missing rainfall increments were set to 0.
03698> *** WARNING: Requested start date is less than start date in file.
03699> *** WARNING: Missing rainfall increments were set to 0.
03700> *** WARNING: Missing rainfall increments were set to 0.
03701> *** WARNING: Missing rainfall increments were set to 0.
03702> *** WARNING: Missing rainfall increments were set to 0.
03703> *** WARNING: Requested start date is less than start date in file.
03704> *** WARNING: Missing rainfall increments were set to 0.
03705> *** WARNING: Missing rainfall increments were set to 0.
03706> *** WARNING: Requested start date is less than start date in file.
03707> *** WARNING: Missing rainfall increments were set to 0.
03708> *** WARNING: Requested start date is less than start date in file.
03709> *** WARNING: Missing rainfall increments were set to 0.
03710> *** WARNING: Missing rainfall increments were set to 0.
03711> *** WARNING: Missing rainfall increments were set to 0.
03712> *** WARNING: Requested start date is less than start date in file.
03713> *** WARNING: Missing rainfall increments were set to 0.
03714> *** WARNING: Requested start date is less than start date in file.
03715> *** WARNING: Missing rainfall increments were set to 0.
03716> Simulation ended on 2024-03-14 at 20:05:19
03717> -----
03718> -----

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1      20      Metric units / ID Numbers OFF
2      ****
3      *# SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
4      ****
5      *# Project Name: Barrhaven Conservancy Development
6      *# Project Number: 1474
7      *# Date       : 2021/Oct/18
8      *# Modeller    : J.Burnett, P.Eng.
9      *# Updated     : 2024/Mar/14 [LP]
10     *# Company     : J.F. Sabourin and Associates
11     *# License #   : 2582634
12     ****
13     START          TZERO=[1967.0101], METOUT=[2], NSTORM=[0], NRUN=[67]
14     *%             ["] <--storm filename, one per line for NSTORM time
15     *%-----|-----|
16     *# Ottawa International Airport (1967 - 2003)
17     READ AES DATA   AES_FILENAME=[YOW_1967_2007.123],
18                  IELEM=[123], START_DATE=[0], END_DATE=[-364]
19     *%-----|-----|
20     COMPUTE API     APII=[50], APIK=[0.90]/day
21     *%-----|-----|
22     ****
23     *# Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) -
24     POST DEVELOPMENT CONDITIONS
25     *%-----|-----|
26     CONTINUOUS STANDHYD NHYD=[W1"], DT=[5] (min), AREA=[5.76] (ha),
27                  XIMP=[0.55], TIMP=[0.66], DWF=[0] (cms),
28                  LOSS=[2]: SCS curve number CN=[71],
29                  Previous areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
30                  MNP=[0.250], SCP=[0] (min),
31                  Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[196] (m),
32                  MNI=[0.013], SCI=[0] (min),
33                  Continuous simulation parameters:
34                  IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
35                  SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03] / (mm),
36                  InterEventTime=[12] (hrs), END=-1
37     *%-----|-----|
38     *# LID for Outlet W1 (14 catchbasins, 30 m long trench each)
39     *# Assumed 420 m long trench 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
40     *# diameter perforated pipe
41     *# Total Volume provided by LID - 96 m3
42     *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
43     ROUTE RESERVOIR  NHYDout=[W1-LID"], NHYDin=[W1"], RDT=[5] (min),
44                  TABLE of ( OUTFLOW-STORAGE ) values
45                  (cms) - (ha-m)
46                  [ 0.0000 , 0.0000 ]
47                  [ 0.0004 , 0.0001 ]
48                  [ 0.0005 , 0.0096 ]
49                  [ -1 , -1 ]
50                  NHYDovf=[W1-LID-Out"],
51     *%-----|-----|
52     CONTINUOUS STANDHYD NHYD=[W2"], DT=[5] (min), AREA=[8.51] (ha)
53                  XIMP=[0.50], TIMP=[0.60], DWF=[0] (cms),
54                  LOSS=[2]: SCS curve number CN=[71],
55                  Previous areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
56                  MNP=[0.250], SCP=[0] (min),
57                  Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[238] (m),

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53 MNI=[0.013], SCI=[0] (min),
54 Continuous simulation parameters:
55 IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
56 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
57 InterEventTime=[12] (hrs), END=-1
58 *%-----|-----|
59 *# LID for Outlet W2 (19 catchbasins, 30 m long trench each)
60 *# Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
61 diameter perforated pipe
62 *# Total Volume provided by LID - 131 m3
63 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
64 ROUTE RESERVOIR NHYDout=["W2-LID"], NHYDin=["W2"], RDT=[5] (min),
65 TABLE of ( OUTFLOW-STORAGE ) values
66 (cms) - (ha-m)
67 [ 0.0000 , 0.0000 ]
68 [ 0.0006 , 0.0001 ]
69 [ 0.0007 , 0.0131 ]
70 [ -1 , -1 ]
71 NHYDovf=["W2-LID-Out"],
72 *%-----|-----|
73 CONTINUOUS STANDHYD NHYD=["W3"], DT=[5] (min), AREA=[10.03] (ha)
74 XIMP=[0.66], TIMP=[0.76], DWF=[0] (cms),
75 LOSS=[2]: SCS curve number CN=[71],
76 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
77 MNP=[0.250], SCP=[0] (min),
78 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[259] (m),
79 MNI=[0.013], SCI=[0] (min),
80 Continuous simulation parameters:
81 IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
82 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
83 InterEventTime=[12] (hrs), END=-1
84 *%-----|-----|
85 *# LID for Outlet W3 (28 catchbasins, 30 m long trench each)
86 *# Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
87 diameter perforated pipe
88 *# Total Volume provided by LID - 193 m3
89 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
90 ROUTE RESERVOIR NHYDout=["W3-LID"], NHYDin=["W3"], RDT=[5] (min),
91 TABLE of ( OUTFLOW-STORAGE ) values
92 (cms) - (ha-m)
93 [ 0.0000 , 0.0000 ]
94 [ 0.0010 , 0.0001 ]
95 [ 0.0011 , 0.0193 ]
96 [ -1 , -1 ]
97 NHYDovf=["W3-LID-Out"],
98 *%-----|-----|
99 CONTINUOUS STANDHYD NHYD=["W4"], DT=[5] (min), AREA=[10.11] (ha)
100 XIMP=[0.60], TIMP=[0.70], DWF=[0] (cms),
101 LOSS=[2]: SCS curve number CN=[71],
102 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
103 MNP=[0.250], SCP=[0] (min),
104 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[260] (m),
105 MNI=[0.013], SCI=[0] (min),
106 Continuous simulation parameters:
107 IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
108 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
109 InterEventTime=[12] (hrs), END=-1
110 *%-----|-----|
111 *# LID for Outlet W4 (27 catchbasins, 30 m long trench each)
112 *# Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
113 diameter perforated pipe
114 *# Total Volume provided by LID - 186 m3
115 *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
116 ROUTE RESERVOIR NHYDout=["W4-LID"], NHYDin=["W4"], RDT=[5] (min),

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106          TABLE of ( OUTFLOW-STORAGE ) values
107              (cms) - (ha-m)
108                  [ 0.0000 , 0.0000 ]
109                  [ 0.0009 , 0.0001 ]
110                  [ 0.0010 , 0.0186 ]
111                  [ -1 , -1 ]
112          NHYDovf= ["W4-LID-Out"],
113      *%-----|-----|
114 CONTINUOUS STANDHYD NHYD= ["W5"], DT=[5] (min), AREA=[6.20] (ha)
115             XIMP=[0.57], TIMP=[0.67], DWF=[0] (cms),
116             LOSS=[2]: SCS curve number CN=[71],
117             Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
118             MNP=[0.250], SCP=[0] (min),
119             Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[203] (m),
120             MNI=[0.013], SCI=[0] (min),
121             Continuous simulation parameters:
122             IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
123             SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
124             InterEventTime=[12] (hrs), END=-1
125      *%-----|-----|
126      *# LID for Outlet W5 (16 catchbasins, 30 m long trench each)
127      *# Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
128      *# diameter perforated pipe
129      *# Total Volume provided by LID - 110 m3
130      *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
131 ROUTE RESERVOIR      NHYDout= ["W5-LID"], NHYDin= ["W5"], RDT=[5] (min),
132             TABLE of ( OUTFLOW-STORAGE ) values
133                 (cms) - (ha-m)
134                     [ 0.0000 , 0.0000 ]
135                     [ 0.0005 , 0.0001 ]
136                     [ 0.0006 , 0.0110 ]
137                     [ -1 , -1 ]
138             NHYDovf= ["W5-LID-Out"],
139      *%-----|-----|
140 CONTINUOUS STANDHYD NHYD= ["W6"], DT=[5] (min), AREA=[7.81] (ha)
141             XIMP=[0.71], TIMP=[0.81], DWF=[0] (cms),
142             LOSS=[2]: SCS curve number CN=[71],
143             Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
144             MNP=[0.250], SCP=[0] (min),
145             Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[228] (m),
146             MNI=[0.013], SCI=[0] (min),
147             Continuous simulation parameters:
148             IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
149             SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.03]/(mm),
150             InterEventTime=[12] (hrs), END=-1
151      *%-----|-----|
152      *# LID for Outlet W6 (24 catchbasins, 30 m long trench each)
153      *# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm
154      *# diameter perforated pipe
155      *# Total Volume provided by LID - 165 m3
156      *# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
157 ROUTE RESERVOIR      NHYDout= ["W6-LID"], NHYDin= ["W6"], RDT=[5] (min),
158             TABLE of ( OUTFLOW-STORAGE ) values
159                 (cms) - (ha-m)
160                     [ 0.0000 , 0.0000 ]
161                     [ 0.0008 , 0.0001 ]
162                     [ 0.0009 , 0.0165 ]
163                     [ -1 , -1 ]
164             NHYDovf= ["W6-LID-Out"],
165      *%-----|-----|
166      *Development Without LIDs
167 ADD HYD          NHYDsum= ["BCD-PH3"], NHYDs to add= ["W1", "W2", "W3", "W4", "W5", "W6"]
168      *%-----|-----|

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161 *Development With LIDs
162 ADD HYD          NHYDsum= ["BCD-PH3-LID"], NHYDs to
163 add= ["W1-LID-Out", "W2-LID-Out", "W3-LID-Out", "W4-LID-Out", "W5-LID-Out", "W6-LID-Out"]
164 *%-----|-----|
165 *#***** Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) -
166 POST DEVELOPMENT CONDITIONS
167 *#***** Set infiltration to 0 (CN = 99.99) for water balance analysis
168 *#***** -----
169 *%-----|-----|
170 CONTINUOUS STANDHYD NHYD= ["INF-W1"], DT=[5] (min), AREA=[5.76] (ha)
171           XIMP=[0.55], TIMP=[0.66], DWF=[0] (cms),
172           LOSS=[2]: SCS curve number CN=[99.99],
173           Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
174           MNP=[0.250], SCP=[0] (min),
175           Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[196] (m),
176           MNI=[0.013], SCI=[0] (min),
177           Continuous simulation parameters:
178           IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
179           SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
180           InterEventTime=[12] (hrs), END=-1
181 *%-----|-----|
182 CONTINUOUS STANDHYD NHYD= ["INF-W2"], DT=[5] (min), AREA=[8.51] (ha)
183           XIMP=[0.50], TIMP=[0.60], DWF=[0] (cms),
184           LOSS=[2]: SCS curve number CN=[99.99],
185           Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
186           MNP=[0.250], SCP=[0] (min),
187           Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[238] (m),
188           MNI=[0.013], SCI=[0] (min),
189           Continuous simulation parameters:
190           IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
191           SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
192           InterEventTime=[12] (hrs), END=-1
193 *%-----|-----|
194 CONTINUOUS STANDHYD NHYD= ["INF-W3"], DT=[5] (min), AREA=[10.03] (ha)
195           XIMP=[0.66], TIMP=[0.76], DWF=[0] (cms),
196           LOSS=[2]: SCS curve number CN=[99.99],
197           Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
198           MNP=[0.250], SCP=[0] (min),
199           Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[259] (m),
200           MNI=[0.013], SCI=[0] (min),
201           Continuous simulation parameters:
202           IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
203           SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
204           InterEventTime=[12] (hrs), END=-1
205 *%-----|-----|
206 CONTINUOUS STANDHYD NHYD= ["INF-W5"], DT=[5] (min), AREA=[6.20] (ha)

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207           XIMP=[0.57], TIMP=[0.67], DWF=[0] (cms),
208           LOSS=[2]: SCS curve number CN=[99.99],
209           Previous areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
210           MNP=[0.250], SCP=[0] (min),
211           Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[203] (m),
212           MNI=[0.013], SCI=[0] (min),
213           Continuous simulation parameters:
214           IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
215           SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
216           InterEventTime=[12] (hrs), END=-1
217
218 *%-----|-----|
219 CONTINUOUS STANDHYD NHYD=["INF-W6"], DT=[5] (min), AREA=[7.81] (ha)
220           XIMP=[0.71], TIMP=[0.81], DWF=[0] (cms),
221           LOSS=[2]: SCS curve number CN=[99.99],
222           Previous areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
223           MNP=[0.250], SCP=[0] (min),
224           Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[228] (m),
225           MNI=[0.013], SCI=[0] (min),
226           Continuous simulation parameters:
227           IaRECper=[6] (hrs), IaRECImp=[1.5] (hrs),
228           SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
229           InterEventTime=[12] (hrs), END=-1
230
231 *%-----|-----|
232 *Development Without Infiltration for water budget
233 ADD HYD           NHYDsum=["INF-BCD-PH3"], NHYDs to add=["INF-W1", "INF-W2", "INF-W3",
234           "INF-W4", "INF-W5", "INF-W6"]
235 *%-----|-----|
236 *##########
237 *# CONTINUOUS RAINFALL DATA
238 *#####
239 *%-----|-----|
240 START           TZERO=[1968.0101], METOUT=[2], NSTORM=[0], NRUN=[68]
241 *%-----|-----|
242 START           TZERO=[1969.0101], METOUT=[2], NSTORM=[0], NRUN=[69]
243 *%-----|-----|
244 START           TZERO=[1970.0101], METOUT=[2], NSTORM=[0], NRUN=[70]
245 *%-----|-----|
246 START           TZERO=[1971.0101], METOUT=[2], NSTORM=[0], NRUN=[71]
247 *%-----|-----|
248 START           TZERO=[1972.0101], METOUT=[2], NSTORM=[0], NRUN=[72]
249 *%-----|-----|
250 START           TZERO=[1973.0101], METOUT=[2], NSTORM=[0], NRUN=[73]
251 *%-----|-----|
252 START           TZERO=[1974.0101], METOUT=[2], NSTORM=[0], NRUN=[74]
253 *%-----|-----|
254 START           TZERO=[1975.0101], METOUT=[2], NSTORM=[0], NRUN=[75]
255 *%-----|-----|
256 START           TZERO=[1976.0101], METOUT=[2], NSTORM=[0], NRUN=[76]
257 *%-----|-----|
258 START           TZERO=[1977.0101], METOUT=[2], NSTORM=[0], NRUN=[77]
259 *%-----|-----|
260 START           TZERO=[1978.0101], METOUT=[2], NSTORM=[0], NRUN=[78]
261 *%-----|-----|

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254 START TZERO=[1979.0101], METOUT=[2], NSTORM=[0], NRUN=[ 79]
255 *%
256 START TZERO=[1980.0101], METOUT=[2], NSTORM=[0], NRUN=[ 80]
257 *%
258 START TZERO=[1981.0101], METOUT=[2], NSTORM=[0], NRUN=[ 81]
259 *%
260 START TZERO=[1982.0101], METOUT=[2], NSTORM=[0], NRUN=[ 82]
261 *%
262 START TZERO=[1983.0101], METOUT=[2], NSTORM=[0], NRUN=[ 83]
263 *%
264 START TZERO=[1984.0101], METOUT=[2], NSTORM=[0], NRUN=[ 84]
265 *%
266 START TZERO=[1985.0101], METOUT=[2], NSTORM=[0], NRUN=[ 85]
267 *%
268 START TZERO=[1986.0101], METOUT=[2], NSTORM=[0], NRUN=[ 86]
269 *%
270 START TZERO=[1987.0101], METOUT=[2], NSTORM=[0], NRUN=[ 87]
271 *%
272 START TZERO=[1988.0101], METOUT=[2], NSTORM=[0], NRUN=[ 88]
273 *%
274 START TZERO=[1989.0101], METOUT=[2], NSTORM=[0], NRUN=[ 89]
275 *%
276 START TZERO=[1990.0101], METOUT=[2], NSTORM=[0], NRUN=[ 90]
277 *%
278 START TZERO=[1991.0101], METOUT=[2], NSTORM=[0], NRUN=[ 91]
279 *%
280 START TZERO=[1992.0101], METOUT=[2], NSTORM=[0], NRUN=[ 92]
281 *%
282 START TZERO=[1993.0101], METOUT=[2], NSTORM=[0], NRUN=[ 93]
283 *%
284 START TZERO=[1994.0101], METOUT=[2], NSTORM=[0], NRUN=[ 94]
285 *%
286 START TZERO=[1995.0101], METOUT=[2], NSTORM=[0], NRUN=[ 95]
287 *%
288 START TZERO=[1996.0101], METOUT=[2], NSTORM=[0], NRUN=[ 96]
289 *%
290 START TZERO=[1997.0101], METOUT=[2], NSTORM=[0], NRUN=[ 97]
291 *%
292 START TZERO=[1998.0101], METOUT=[2], NSTORM=[0], NRUN=[ 98]
293 *%
294 START TZERO=[1999.0101], METOUT=[2], NSTORM=[0], NRUN=[ 99]
295 *%
296 START TZERO=[2000.0101], METOUT=[2], NSTORM=[0], NRUN=[100]
297 *%
298 *% MISSING FROM AES RAINFALL DATA
299 *%START TZERO=[2001.0101], METOUT=[2], NSTORM=[0], NRUN=[101]
```

```
300 *%-----|-----  
301 START      TZERO=[2002.0101], METOUT=[2], NSTORM=[0], NRUN=[102]  
302 *%-----|-----  
303 START      TZERO=[2003.0101], METOUT=[2], NSTORM=[0], NRUN=[103]  
304 *%-----|-----  
305 FINISH
```


00361# CONTINUOUS STANDHY 5.0 01:W2 8.51 .496 1968.0817_ 5:00 263.54 .445 .000
00362# [XIMP=..50:TIME=..60] 00363# [ROUTE RESERVOIR > 5.0 01:W2] 00364# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00365# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 238.:MMI=..013:SCI= .0]
00366# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00367# LID for Outlet W4 (9 catchbasins, 30 m long trench each)
00368# Total Volume provided by LID = 131 m³ by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00369# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00370# READ AER DATA 00371# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00372# READ AER DATA 00373# ROUTE RESERVOIR -> 5.0 01:W2 00374# out <= 5.0 01:W2-LID Out 2.17 .001 1968.0202_ 3:15 263.54 n/a .000
00375# overflow <= 5.0 01:W2-LID Out 1.34 .476 1968.0202_ 3:15 263.54 n/a .000
00376# [MastCoLeds..1310E-01 m3, TotTurVol= 1,618E+01 m3, N-Owfr= 114, ToTurOrf= 149, hrs= .000]
00377# R068:00008-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00378# CONTINUOUS STANDHY 5.0 01:W3 10.03 .704 1968.0817_ 5:00 326.57 .551 .000
00379# [ROUTE RESERVOIR > 5.0 01:W3] 00380# [LOSS= 2 :CN= 71.0] 00381# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00382# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 239.:MMI=..013:SCI= .0]
00383# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00384# LID for Outlet W4 (9 catchbasins, 30 m long trench each)
00385# Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00386# Total Volume provided by LID = 193 m³ by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00387# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00388# READ AER DATA 00389# ROUTE RESERVOIR -> 5.0 01:W3 00390# out <= 5.0 01:W3-LID Out 2.01 .001 1968.0202_ 3:15 326.57 n/a .000
00391# overflow <= 5.0 01:W3-LID Out 1.34 .476 1968.0202_ 3:15 326.57 n/a .000
00392# [MastCoLeds..1310E-01 m3, TotTurVol= 2,411E+01 m3, N-Owfr= 110, ToTurOrf= 167, hrs= .000]
00393# R068:00009-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00394# CONTINUOUS STANDHY 5.0 01:W4 15.11 .663 1968.0817_ 5:00 302.84 .511 .000
00395# [ROUTE RESERVOIR > 5.0 01:W4] 00396# [XIMP=..50:TIME=..70] 00397# [LOSS= 2 :CN= 71.0] 00398# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00399# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 260.:MMI=..013:SCI= .0]
00400# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00401# LID for Outlet W4 (9 catchbasins, 30 m long trench each)
00402# LID for Outlet W4 (9 catchbasins, 30 m long trench each)
00403# Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00404# Total Volume provided by LID = 193 m³ by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00405# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00406# R068:00010-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00407# ROUTE RESERVOIR -> 5.0 01:W4 00408# out <= 5.0 01:W4-LID 2.69 .001 1968.0202_ 3:15 302.85 n/a .000
00409# overflow <= 5.0 01:W4-LID Out 1.42 .646 1968.0817_ 5:00 302.85 n/a .000
00410# [MastCoLeds..1310E-01 m3, TotTurVol= 2,242E+01 m3, N-Owfr= 110, ToTurOrf= 167, hrs= .000]
00411# R068:00012-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00412# CONTINUOUS STANDHY 5.0 01:W5 6.20 .395 1968.0817_ 5:00 291.03 .491 .000
00413# [ROUTE RESERVOIR > 5.0 01:W5] 00414# [LOSS= 2 :CN= 71.0] 00415# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00416# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 203.:MMI=..013:SCI= .0]
00417# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00418# LID for Outlet W5 (16 catchbasins, 30 m long trench each)
00419# Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00420# Total Volume provided by LID = 110 m³
00421# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00422# R068:00013-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00423# ROUTE RESERVOIR -> 5.0 01:W5 00424# out <= 5.0 01:W5-LID 1.69 .001 1968.0202_ 3:20 291.03 n/a .000
00425# overflow <= 5.0 01:W5-LID Out 1.51 .646 1968.0817_ 5:00 291.03 n/a .000
00426# [MastCoLeds..1310E-01 m3, TotTurVol= 1,324E+01 m3, N-Owfr= 100, ToTurOrf= 165, hrs= .000]
00427# R068:00014-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00428# CONTINUOUS STANDHY 5.0 01:W6 7.81 .580 1968.0817_ 5:00 346.56 .585 .000
00429# [ROUTE RESERVOIR > 5.0 01:W6] 00430# [XIMP=..50:TIME=..81] 00431# [LOSS= 2 :CN= 71.0] 00432# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00433# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 228.:MMI=..013:SCI= .0]
00434# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00435# LID for Outlet W6 (24 catchbasins, 30 m long trench each)
00436# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00437# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00438# R068:00015-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00439# ROUTE RESERVOIR -> 5.0 01:W6 00440# out <= 5.0 01:W6-LID 6.20 .398 1968.0817_ 5:00 291.03 n/a .000
00441# overflow <= 5.0 01:W6-LID Out 4.79 .646 1968.0817_ 5:00 291.03 n/a .000
00442# [MastCoLeds..1310E-01 m3, TotTurVol= 1,979E+01 m3, N-Owfr= 103, ToTurOrf= 165, hrs= .000]
00443# R068:00016-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00444# CONTINUOUS STANDHY 5.0 01:W7 5.76 .361 1968.0817_ 5:00 304.18 n/a .000
00445# [ROUTE RESERVOIR > 5.0 01:W7] 00446# [LOSS= 2 :CN= 71.0] 00447# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00448# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 229.:MMI=..013:SCI= .0]
00449# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00450# LID for Outlet W7 (16 catchbasins, 30 m long trench each)
00451# Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00452# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00453# R068:00017-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00454# CONTINUOUS STANDHY 5.0 01:W8 5.76 .361 1968.0817_ 5:00 304.18 n/a .000
00455# [ROUTE RESERVOIR > 5.0 01:W8] 00456# [LOSS= 2 :CN= 71.0] 00457# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00458# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 230.:MMI=..013:SCI= .0]
00459# [SMMN= 41.38 :SMAX=275.84: SK= .030]
00460# LID for Outlet W8 (16 catchbasins, 30 m long trench each)
00461# Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00462# Barhavre Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
00463# Set Infiltration to 0 (CN = 99.99) for water balance analysis
00464# R068:00018-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00465# CONTINUOUS STANDHY 5.0 01:W9 8.51 .496 1968.0817_ 5:00 362.10 .611 .000
00466# [ROUTE RESERVOIR > 5.0 01:W9] 00467# [LOSS= 2 :CN= 100.0] 00468# [XIMP=..50:TIME=..60] 00469# [ROUTE RESERVOIR > 5.0 01:W9] 00470# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00471# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 196.:MMI=..013:SCI= .0]
00472# [SMMN= 1.50 :SMAX=275.84: SK= .030]
00473# LID for Outlet W9 (24 catchbasins, 30 m long trench each)
00474# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00475# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00476# R068:00019-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00477# CONTINUOUS STANDHY 5.0 01:W10 8.51 .707 1968.0817_ 5:00 347.68 .587 .000
00478# [ROUTE RESERVOIR > 5.0 01:W10] 00479# [LOSS= 2 :CN= 100.0] 00480# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00481# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 238.:MMI=..013:SCI= .0]
00482# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00483# LID for Outlet W10 (24 catchbasins, 30 m long trench each)
00484# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00485# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00486# R068:00020-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00487# CONTINUOUS STANDHY 5.0 01:W11 8.51 .707 1968.0817_ 5:00 347.68 .587 .000
00488# [ROUTE RESERVOIR > 5.0 01:W11] 00489# [LOSS= 2 :CN= 100.0] 00490# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00491# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 240.:MMI=..013:SCI= .0]
00492# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00493# LID for Outlet W11 (24 catchbasins, 30 m long trench each)
00494# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00495# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00496# R068:00021-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00497# CONTINUOUS STANDHY 5.0 01:W12 8.51 .707 1968.0817_ 5:00 347.68 .587 .000
00498# [ROUTE RESERVOIR > 5.0 01:W12] 00499# [LOSS= 2 :CN= 100.0] 00500# [XIMP=..50:TIME=..60] 00501# [ROUTE RESERVOIR > 5.0 01:W12] 00502# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00503# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 240.:MMI=..013:SCI= .0]
00504# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00505# LID for Outlet W12 (24 catchbasins, 30 m long trench each)
00506# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00507# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00508# R068:00022-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00509# CONTINUOUS STANDHY 5.0 01:W13 7.81 .693 1968.0817_ 5:00 399.98 .675 .000
00510# [ROUTE RESERVOIR > 5.0 01:W13] 00511# [LOSS= 2 :CN= 100.0] 00512# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00513# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 240.:MMI=..013:SCI= .0]
00514# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00515# LID for Outlet W13 (24 catchbasins, 30 m long trench each)
00516# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00517# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00518# R068:00023-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00519# CONTINUOUS STANDHY 5.0 01:W14 7.81 .693 1968.0817_ 5:00 372.28 .628 .000
00520# [ROUTE RESERVOIR > 5.0 01:W14] 00521# [LOSS= 2 :CN= 100.0] 00522# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00523# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 240.:MMI=..013:SCI= .0]
00524# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00525# LID for Outlet W14 (24 catchbasins, 30 m long trench each)
00526# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00527# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
00528# R068:00024-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00529# CONTINUOUS STANDHY 5.0 01:W15 7.81 .693 1968.0817_ 5:00 364.85 .645 .000
00530# [ROUTE RESERVOIR > 5.0 01:W15] 00531# [LOSS= 2 :CN= 100.0] 00532# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00533# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 240.:MMI=..013:SCI= .0]
00534# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00535# ADD HYD 00536# [ROUTE RESERVOIR > 5.0 01:W15] 00537# [LOSS= 2 :CN= 100.0] 00538# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=..250:SCP= .0]
00539# [Impervious area: Ialimp= 1.57:SLPI= ..50:LGII= 240.:MMI=..013:SCI= .0]
00540# [SMMN= 1.39 :SMAX=275.84: SK= .030]
00541# SNMHYMO Ver:5.02 Jan 2001 <BETA> / INPUT DATA FILE
00542# *****
00543# Project Name: Barhavre Conservancy Development
00544# Project Number: 1474
00545# Date: 2/02/2018
00546# Author: J. F. Sabourin and Associates
00547# Updated: 2/04/Mar/14 [LP]
00548# Company: J.F. Sabourin and Associates
00549# Address: 1250 Lakeshore Road, Suite 200, Barrie, ON
00550# *****
00551# Ottawa International Airport (1967 - 2003)
00552# *****
00553# READ AER DATA 00554# [Filename = YOW_1967_2007.123] 00555# *****
00556# [Start Date: 1967-01-01 End Date: 2007-12-31]
00557# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00558# Maximum average rainfall intensities over
00559# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00560# 21.10 32.50 32.50 46.70 47.20 50.30 52.10 54.00 mm
00561# 19690818 19690818 19690818 19690818 19690818 19690818 19690818 date
00562# Number of events with at least the following durations
00563# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00564# 157 119 107 92 76 49 43 32
00565# Number of events with at least the following durations
00566# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00567# 156 84 58 21 5 0 0 0 0
00568# *****
00569# COMPUTE API 00570# [APIInid: 50.00: APIKd: .9800: APIKd: .9956]
00571# [APIInid: 50.00: APIKd: .9800: APIKd: .9956]
00572# *****
00573# Barhavre Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
00574# *****
00575# R069:00004-----Dtnin-ID:NYDY---ARAhA-QPEAKms-TpeakDate_hh:mm----RVMn=R.C.--DWFcms
00576# CONTINUOUS STANDHY 5.0 01:W1 5.76 .225 1969.0818_22:00 259.68 .455 .000
00577# *****
00578# READ AER DATA 00579# [Filename = YOW_1967_2007.123] 00580# *****
00581# [Start Date: 1967-01-01 End Date: 2007-12-31]
00582# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00583# *****
00584# READ AER DATA 00585# [Filename = YOW_1967_2007.123] 00586# *****
00587# [Start Date: 1967-01-01 End Date: 2007-12-31]
00588# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00589# *****
00590# READ AER DATA 00591# [Filename = YOW_1967_2007.123] 00592# *****
00593# [Start Date: 1967-01-01 End Date: 2007-12-31]
00594# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00595# *****
00596# READ AER DATA 00597# [Filename = YOW_1967_2007.123] 00598# *****
00599# [Start Date: 1967-01-01 End Date: 2007-12-31]
00600# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00601# *****
00602# READ AER DATA 00603# [Filename = YOW_1967_2007.123] 00604# *****
00605# [Start Date: 1967-01-01 End Date: 2007-12-31]
00606# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00607# *****
00608# READ AER DATA 00609# [Filename = YOW_1967_2007.123] 00610# *****
00611# [Start Date: 1967-01-01 End Date: 2007-12-31]
00612# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00613# *****
00614# READ AER DATA 00615# [Filename = YOW_1967_2007.123] 00616# *****
00617# [Start Date: 1967-01-01 End Date: 2007-12-31]
00618# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00619# *****
00620# READ AER DATA 00621# [Filename = YOW_1967_2007.123] 00622# *****
00623# [Start Date: 1967-01-01 End Date: 2007-12-31]
00624# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00625# *****
00626# READ AER DATA 00627# [Filename = YOW_1967_2007.123] 00628# *****
00629# [Start Date: 1967-01-01 End Date: 2007-12-31]
00630# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00631# *****
00632# READ AER DATA 00633# [Filename = YOW_1967_2007.123] 00634# *****
00635# [Start Date: 1967-01-01 End Date: 2007-12-31]
00636# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00637# *****
00638# READ AER DATA 00639# [Filename = YOW_1967_2007.123] 00640# *****
00641# [Start Date: 1967-01-01 End Date: 2007-12-31]
00642# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00643# *****
00644# READ AER DATA 00645# [Filename = YOW_1967_2007.123] 00646# *****
00647# [Start Date: 1967-01-01 End Date: 2007-12-31]
00648# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00649# *****
00650# READ AER DATA 00651# [Filename = YOW_1967_2007.123] 00652# *****
00653# [Start Date: 1967-01-01 End Date: 2007-12-31]
00654# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00655# *****
00656# READ AER DATA 00657# [Filename = YOW_1967_2007.123] 00658# *****
00659# [Start Date: 1967-01-01 End Date: 2007-12-31]
00660# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00661# *****
00662# READ AER DATA 00663# [Filename = YOW_1967_2007.123] 00664# *****
00665# [Start Date: 1967-01-01 End Date: 2007-12-31]
00666# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00667# *****
00668# READ AER DATA 00669# [Filename = YOW_1967_2007.123] 00670# *****
00671# [Start Date: 1967-01-01 End Date: 2007-12-31]
00672# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00673# *****
00674# READ AER DATA 00675# [Filename = YOW_1967_2007.123] 00676# *****
00677# [Start Date: 1967-01-01 End Date: 2007-12-31]
00678# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00679# *****
00680# READ AER DATA 00681# [Filename = YOW_1967_2007.123] 00682# *****
00683# [Start Date: 1967-01-01 End Date: 2007-12-31]
00684# [Lat: 43.7166, Long: 77.4711] NetHrs: 470; DryHrs: 8290; PTOT: 570.30
00685# *****
00686# READ AER DATA 00687# [Filename = YOW_1967_2007.123] 00688# *****
0068

00721: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----ARAhA-QPEAKms-TpeakDate_hh:mm:---RVmm-R.C.---DWFcms
00722: R069:CD0021-----Dmin-ID:NYDY- 5.0 01:INF-84 10.11 .599 1969.0818_22:00 343.93 .603 .000
00723: CONTINUOUS STANDHY 5.0 01:INF-84 .000
00724: [XIMP= .55;TIME= .70] -----ARAhA-QPEAKms-TpeakDate_hh:mm:---RVmm-R.C.---DWFcms
00725: [LOSS= 2 ; C/N=100.0] -----
00726: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00727: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 260.;MMI=.013;SCI= .0] -----
00728: [iAEComp= 1.50; iARECpre= 6.00] -----
00729: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00730: R069:CD0022-----Dmin-ID:NYDY- 5.0 01:INF-84 1.39 .599 1969.0818_22:00 .000
00731: CONTINUOUS STANDHY 5.0 01:INF-84 6.20 .343 1969.0818_22:00 337.04 .591 .000
00732: [XIMP= .57;TIME= .81] -----
00733: [LOSS= 2 ; C/N=100.0] -----
00734: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00735: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 203.;MMI=.013;SCI= .0] -----
00736: [iAEComp= 1.50; iARECpre= 6.00] -----
00737: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00738: R069:CD0023-----Dmin-ID:NYDY- 5.0 01:INF-84 1.81 .443 1969.0818_22:00 365.49 .646 .000
00739: [XIMP= .57;TIME= .81] -----
00740: [LOSS= 2 ; C/N=100.0] -----
00741: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00742: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 228.;MMI=.013;SCI= .0] -----
00743: [iAEComp= 1.50; iARECpre= 6.00] -----
00744: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00745: R069:CD0024-----Dmin-ID:NYDY- 5.0 01:INF-84 48.42 2.685 1969.0818_22:00 344.91 n/a .000
00746: ***** CONTINUOUS RAINFALL DATA *****
00747: ADD HYD 5.0 02:INF-84 5.76 .318 1969.0818_22:00 334.54 n/a .000
00748: + 5.0 02:INF-84 4.01 .245 1969.0818_22:00 334.54 n/a .000
00749: + 5.0 02:INF-84 10.03 .561 1969.0818_22:00 357.79 n/a .000
00750: + 5.0 02:INF-84 10.11 .559 1969.0818_22:00 343.93 n/a .000
00751: + 5.0 02:INF-84 6.20 .343 1969.0818_22:00 365.49 n/a .000
00752: + 5.0 02:INF-84 7.81 .443 1969.0818_22:00 369.49 n/a .000
00753: SUM= 5.0 01:INF-BCD-PH 48.42 2.685 1969.0818_22:00 344.91 n/a .000
00754: ***** END OF RUN : 69 *****
00755: ***** END OF RUN : 69 *****
00756: ***** CONTINUOUS RAINFALL DATA *****
00757: ***** END OF RUN : 69 *****
00758: ***** END OF RUN : 69 *****
00759: ***** CONTINUOUS RAINFALL DATA *****
00760: ***** END OF RUN : 69 *****
00761: ***** END OF RUN : 69 *****
00762: ***** END OF RUN : 69 *****
00763: ***** END OF RUN : 69 *****
00764: ***** END OF RUN : 69 *****
00765: RUN:COMMAND#
00766: R070:CD0001-----
00767: [TZERO = 0.00 hrs on 19700101]
00768: [METCOUT = 2 (Imperial, 2metric output)]
00769: [INSTR= 0]-----
00770: [INSTR = 0]-----
00771: ***** END OF RUN : 69 *****
00772: ***** END OF RUN : 69 *****
00773: ***** END OF RUN : 69 *****
00774: ***** END OF RUN : 69 *****
00775: # Project Name: Barrhaven Conservancy Development
00776: # Project Number: 1234567890
00777: # Date: 2021/01/18
00778: # Modeler : J. Burnett, P.Eng.
00779: # Updated : 1/2024/Mar/14 [LP]
00780: # Company : J.F. Sabourin and Associates
00781: # License : 2582634
00782: #-----
00783: #-----
00784: #-----
00785: #-----
00786: #-----
00787: #-----
00788: * READ AEE DATA
00789: *-----
00790: *-----
00791: *-----
00792: *-----
00793: *-----
00794: *-----
00795: *-----
00796: *-----
00797: *-----
00798: *-----
00799: *-----
00800: *-----
00801: *-----
00802: *-----
00803: *-----
00804: *-----
00805: *-----
00806: *-----
00807: R070:CD0004-----Dmin-ID:NYDY- 5.0 01:INF-84 1.39 .599 1970.01231 1969.0818_22:00 343.93 .600 .000
00808: ***** CONTINUOUS RAINFALL DATA *****
00809: ***** END OF RUN : 69 *****
00810: ***** CONTINUOUS RAINFALL DATA *****
00811: ***** END OF RUN : 69 *****
00812: ***** CONTINUOUS RAINFALL DATA *****
00813: ***** END OF RUN : 69 *****
00814: ***** CONTINUOUS RAINFALL DATA *****
00815: ***** END OF RUN : 69 *****
00816: ***** CONTINUOUS RAINFALL DATA *****
00817: ***** END OF RUN : 69 *****
00818: ***** CONTINUOUS RAINFALL DATA *****
00819: ***** END OF RUN : 69 *****
00820: ***** CONTINUOUS RAINFALL DATA *****
00821: ***** END OF RUN : 69 *****
00822: ***** CONTINUOUS RAINFALL DATA *****
00823: ***** END OF RUN : 69 *****
00824: ***** CONTINUOUS RAINFALL DATA *****
00825: ***** END OF RUN : 69 *****
00826: ***** CONTINUOUS RAINFALL DATA *****
00827: ***** END OF RUN : 69 *****
00828: ***** CONTINUOUS RAINFALL DATA *****
00829: ***** END OF RUN : 69 *****
00830: ***** CONTINUOUS RAINFALL DATA *****
00831: ***** END OF RUN : 69 *****
00832: * LID for Outlet W4 (14 catchbasins, 30 m long trench each)
00833: *-----
00834: *-----
00835: *-----
00836: *-----
00837: *-----
00838: *-----
00839: *-----
00840: *-----
00841: *-----
00842: *-----
00843: *-----
00844: *-----
00845: *-----
00846: *-----
00847: *-----
00848: *-----
00849: *-----
00850: *-----
00851: *-----
00852: *-----
00853: *-----
00854: *-----
00855: *-----
00856: *-----
00857: *-----
00858: *-----
00859: *-----
00860: *-----
00861: *-----
00862: *-----
00863: *-----
00864: *-----
00865: *-----
00866: *-----
00867: R070:CD0004-----Dmin-ID:NYDY- 5.0 01:INF-84 1.39 .599 1970.01231 1969.0818_22:00 343.93 .600 .000
00868: ***** CONTINUOUS RAINFALL DATA *****
00869: ***** END OF RUN : 69 *****
00870: ***** CONTINUOUS RAINFALL DATA *****
00871: ***** END OF RUN : 69 *****
00872: ***** CONTINUOUS RAINFALL DATA *****
00873: ***** END OF RUN : 69 *****
00874: ***** CONTINUOUS RAINFALL DATA *****
00875: ***** END OF RUN : 69 *****
00876: ***** CONTINUOUS RAINFALL DATA *****
00877: ***** END OF RUN : 69 *****
00878: ***** CONTINUOUS RAINFALL DATA *****
00879: ***** END OF RUN : 69 *****
00880: ***** CONTINUOUS RAINFALL DATA *****
00881: ***** END OF RUN : 69 *****
00882: ***** CONTINUOUS RAINFALL DATA *****
00883: ***** END OF RUN : 69 *****
00884: ***** CONTINUOUS RAINFALL DATA *****
00885: ***** END OF RUN : 69 *****
00886: ***** CONTINUOUS RAINFALL DATA *****
00887: ***** END OF RUN : 69 *****
00888: ***** CONTINUOUS RAINFALL DATA *****
00889: ***** END OF RUN : 69 *****
00890: ***** CONTINUOUS RAINFALL DATA *****
00891: ***** END OF RUN : 69 *****
00892: ***** CONTINUOUS RAINFALL DATA *****
00893: ***** END OF RUN : 69 *****
00894: ***** CONTINUOUS RAINFALL DATA *****
00895: ***** END OF RUN : 69 *****
00896: ***** CONTINUOUS RAINFALL DATA *****
00897: ***** END OF RUN : 69 *****
00898: ***** CONTINUOUS RAINFALL DATA *****
00899: ***** END OF RUN : 69 *****
00900: *-----
00901: # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
00902: # Total Volume provided by LID = 16 m³
00903: #-----
00904: #-----
00905: ROUTE RESERVOIR > 5.0 02:INF-84 7.81 .642 1970.0926_21:00 254.24 n/a .000
00906: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 254.24 n/a .000
00907: overflow <= 5.0 03:INF-LID-Out 5.73 .627 1970.0926_21:00 312.37 n/a .000
00908: (MwStOuds=.160E-01 m₃, TotVolW=.1178E+01 m₃, N_Ovrf= .96, TotDwrf= 134.hrs)
00909: CONTINUOUS STANDHY 5.0 01:INF-84 6.20 435 1970.0926_21:00 260.57 .466 .000
00910: ADD HYD 5.0 02:INF-84 6.20 .435 1970.0926_21:00 260.57 n/a .000
00911: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00912: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00913: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00914: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00915: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00916: SUM= 5.0 01:INF-BCD-PH 7.81 .435 1970.0926_21:00 260.57 n/a .000
00917: R070:CD0007-----Dmin-ID:NYDY- 5.0 01:INF-84 1.39 .599 1970.0926_21:00 344.91 .645 .000
00918: ADD HYD 5.0 02:INF-84 7.81 .435 1970.0926_21:00 260.57 n/a .000
00919: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00920: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00921: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00922: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00923: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 260.57 n/a .000
00924: SUM= 5.0 01:INF-BCD-PH 7.81 .435 1970.0926_21:00 260.57 n/a .000
00925: R070:CD0007-----Dmin-ID:NYDY- 5.0 01:INF-84 1.39 .599 1970.0926_21:00 344.91 .645 .000
00926: #-----
00927: Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
00928: #-----
00929: #-----
00930: R070:CD0010-----Dmin-ID:NYDY- 5.0 01:INF-84 5.76 .526 1970.0926_21:00 325.35 .587 .000
00931: CONTINUOUS STANDHY 5.0 01:INF-84 5.76 .526 1970.0926_21:00 325.35 .587 .000
00932: [XIMP= .55;TIME= .66] -----
00933: [LOSS= 2 ; C/N=100.0] -----
00934: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00935: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 259.;MMI=.013;SCI= .0] -----
00936: [iAEComp= 1.50; iARECpre= 6.00] -----
00937: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00938: R070:CD0010-----Dmin-ID:NYDY- 5.0 01:INF-84 5.76 .526 1970.0926_21:00 325.35 .587 .000
00939: CONTINUOUS STANDHY 5.0 01:INF-84 8.51 .751 1970.0926_21:00 311.41 .557 .000
00940: [XIMP= .50;TIME= .60] -----
00941: [LOSS= 2 ; C/N=100.0] -----
00942: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00943: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0] -----
00944: [iAEComp= 1.50; iARECpre= 6.00] -----
00945: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00946: R070:CD0010-----Dmin-ID:NYDY- 5.0 01:INF-84 8.51 .751 1970.0926_21:00 349.41 .625 .000
00947: CONTINUOUS STANDHY 5.0 01:INF-84 8.51 .751 1970.0926_21:00 349.41 .625 .000
00948: [XIMP= .66;TIME= .76] -----
00949: [LOSS= 2 ; C/N=100.0] -----
00950: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00951: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 259.;MMI=.013;SCI= .0] -----
00952: [iAEComp= 1.50; iARECpre= 6.00] -----
00953: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00954: R070:CD0010-----Dmin-ID:NYDY- 5.0 01:INF-84 8.51 .751 1970.0926_21:00 335.05 .599 .000
00955: CONTINUOUS STANDHY 5.0 01:INF-84 8.51 .751 1970.0926_21:00 335.05 .599 .000
00956: [XIMP= .66;TIME= .66] -----
00957: [LOSS= 2 ; C/N=100.0] -----
00958: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00959: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 203.;MMI=.013;SCI= .0] -----
00960: [iAEComp= 1.50; iARECpre= 6.00] -----
00961: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00962: R070:CD0012-----Dmin-ID:NYDY- 5.0 01:INF-84 6.20 .567 1970.0926_21:00 327.92 .587 .000
00963: CONTINUOUS STANDHY 5.0 01:INF-84 6.20 .567 1970.0926_21:00 327.92 .587 .000
00964: [XIMP= .66;TIME= .66] -----
00965: [LOSS= 2 ; C/N=100.0] -----
00966: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00967: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 203.;MMI=.013;SCI= .0] -----
00968: [iAEComp= 1.50; iARECpre= 6.00] -----
00969: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00970: R070:CD0012-----Dmin-ID:NYDY- 5.0 01:INF-84 7.81 .736 1970.0926_21:00 361.56 .647 .000
00971: CONTINUOUS STANDHY 5.0 01:INF-84 7.81 .736 1970.0926_21:00 361.56 .647 .000
00972: [XIMP= .55;TIME= .66] -----
00973: [LOSS= 2 ; C/N=100.0] -----
00974: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
00975: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 228.;MMI=.013;SCI= .0] -----
00976: [iAEComp= 1.50; iARECpre= 6.00] -----
00977: [SMIN= 1.39; SMAX= 9.24; SK=.000] -----
00978: R070:CD0012-----Dmin-ID:NYDY- 5.0 01:INF-84 7.81 .736 1970.0926_21:00 325.35 .587 .000
00979: ADD HYD 5.0 02:INF-84 7.81 .736 1970.0926_21:00 325.35 .587 .000
00980: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 325.35 .587 .000
00981: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 325.35 .587 .000
00982: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 325.35 .587 .000
00983: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 325.35 .587 .000
00984: + 5.0 02:INF-84 1.01 .201 1970.0926_21:00 325.35 .587 .000
00985: SUM= 5.0 01:INF-BCD-PH 7.81 .736 1970.0926_21:00 325.35 .587 .000
00986: R070:CD0012-----Dmin-ID:NYDY- 5.0 01:INF-84 7.81 .736 1970.0926_21:00 325.35 .587 .000
00987: ***** CONTINUOUS RAINFALL DATA *****
00988: ***** END OF RUN : 70 *****
00989: ***** CONTINUOUS RAINFALL DATA *****
00990: ***** END OF RUN : 70 *****
00991: ***** CONTINUOUS RAINFALL DATA *****
00992: ***** END OF RUN : 70 *****
00993: ***** CONTINUOUS RAINFALL DATA *****
00994: ***** END OF RUN : 70 *****
00995: ***** CONTINUOUS RAINFALL DATA *****
00996: ***** END OF RUN : 70 *****
00997: RUN:COMMAND#
00998: R071:CD0001-----
00999: START
01000: [TZERO = 0.00 hrs on 19701001]
01001: [METCOUT = 2 (Imperial, 2metric output)]
01002: [INSTR= 0]-----
01003: [INSTR = 0]-----
01004: [INSTR= 0]-----
01005: # SWMMY Vers.02/20/2001 /BTDTA / INPUT DATA FILE
01006: #-----
01007: #-----
01008: #-----
01009: #-----
01010: #-----
01011: #-----
01012: #-----
01013: #-----
01014: #-----
01015: #-----
01016: #-----
01017: #-----
01018: READ AEE DATA
01019: [Filename = R067_2001_123]-----
01020: [Date = 2001/01/18]
01021: [User = J. Burnett, P.Eng.]-----
01022: [Updated : 2024/Mar/14 [LP]]-----
01023: [Company : J.F. Sabourin and Associates]-----
01024: [Project : Barrhaven Conservancy Development]-----
01025: [Program : 1474]-----
01026: [Version : 1.0]-----
01027: [XIMP= .50;TIME= .66] -----
01028: [LOSS= 2 ; C/N=71.0] -----
01029: [Previous area: Iapres: 4.67;SLPP=2.00:LGF= 40.;MNP=250;SCP= .0] -----
01030: [Impervious area: IAPL= 4.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0] -----
01031: [iAEComp= 1.50; iARECpre= 6.00] -----
01032: [SMIN= 41.38; SMAX=275.84; SK=.030] -----
01033: [LID for Outlet W4 (14 catchbasins, 30 m long trench each)] -----
01034: #-----
01035: #-----
01036: #-----
01037: #-----
01038: #-----
01039: #-----
01040: #-----
01041: #-----
01042: #-----
01043: #-----
01044: #-----
01045: #-----
01046: #-----
01047: #-----
01048: #-----
01049: #-----
01050: #-----
01051: #-----
01052: #-----
01053: #-----
01054: #-----
01055: #-----
01056: #-----
01057: #-----
01058: #-----
01059: #-----
01060: #-----
01061: #-----
01062: #-----
01063: #-----
01064: #-----
01065: #-----
01066: #-----
01067: #-----
01068: #-----
01069: #-----
01070: #-----
01071: #-----
01072: #-----
01073: #-----
01074: #-----
01075: #-----
01076: #-----
01077: #-----
01078: #-----
01079: #-----
01080: #-----
01081: #-----
01082: #-----
01083: #-----
01084: #-----
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01091: #-----
01092: #-----
01093: #-----
01094: #-----
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01097: #-----
01098: #-----
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01163: #-----
01164: #-----
01165: #-----
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01201: #-----
01202: #-----
01203: #-----
01204: #-----
01205: #-----
01206: #-----
01207: #-----
01208: #-----
01209: #-----
01210: #-----
01211: #-----
01212: #-----
01213: #-----
01214: #-----
01215: #-----
01216: #-----
01217: #-----
01218: #-----
01219: #-----
01220: #-----
01221: #-----
01222: #

01441: [SMIN= 1.39; SMAX= 9.24; SK= .000] 01621: # DRAIN-ID:NYHDY-AreaHs-QPEAKcms-TpeakDate_hh:mm---RVMn-R.C.--DNFcms
01442: R0072:00024-----ARAhS-QPEAKcms-TpeakDate_hh:mm---RVMn-R.C.--DNFcms
01443: ADD HYD-----
01444: + 5.0 02 INF-NW 8.71 .360 1972.0712_4:00 501.38 n/a .000
01445: + 5.0 02 INF-NW 8.51 .800 1972.0712_4:00 482.12 n/a .000
01446: + 5.0 02 INF-NW 10.03 .980 1972.0712_4:00 533.03 n/a .000
01447: + 5.0 02 INF-NW 6.20 .197 1972.0712_4:00 504.71 n/a .000
01448: + 5.0 02 INF-NW 7.81 .780 1972.0712_4:00 545.01 n/a .000
01449: 300.00 1972.0712_4:00 484.42 .480 515.46 n/a .000
01450: ##### CONTINUOUS RAINFALL DATA
01451: # CONTINUOUS RAINFALL DATA
01452: # END OF RUN : 72
01453: #
01454: #
01455: #
01456: #
01457: #
01458: #
01459: #
01460: #
01461: RUN:COMMAND#
01462: R0072:00024-----
01463: START-----
01464: [TZERO = 1.00 hrs on 19730101]
01465: [METCOUT = 2 : (Imperial, 2=metric output)]
01466: [INSTRM = 0]
01467: [INSTRG = 0073]
01468: #
01469: # SWHMHO Ver1.02/03 Jan 2001 *BETA* / INPUT DATA FILE
01470: #
01471: # Project Number: 1474
01472: # Project: Barhaven Conservancy Development
01473: # Date : 2021/Oct/18
01474: # Modeler : J.F. Sabourin, P.Eng.
01475: # Updated : 2024/Mar/14 (LP)
01476: # Company : J.F. Sabourin and Associates
01477: # License #: 2826343
01478: #
01479: # Ottawa International Airport (1967 - 2003)
01480: R0073:0002-----
01481: #
01482: [filename = YOM_1967_2007.123] 1
01483: [Start_date= 1973-01-01, End_date= 1973-12-31]
01484: [APIMin= 1.39; APIMax= 9.24; SK= .000]
01485: Maximum average rainfall intensities over
01486: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01487: 20.00 12.00 7.00 4.00 2.00 1.00 0.50 0.25 0.12 mm/hr
01488: 30.00 17.00 10.00 6.00 3.00 1.50 0.75 0.40 0.20
01489: 37.00 24.00 14.00 8.00 4.00 2.00 1.00 0.50 0.25
01490: 46.00 34.00 20.00 12.00 6.00 3.00 1.50 0.75 0.40
01491: 55.00 41.00 24.00 12.00 6.00 3.00 1.50 0.75 0.40
01492: 64.00 48.00 30.00 16.00 8.00 4.00 2.00 1.00 0.50
01493: 73.00 54.00 33.00 18.00 9.00 4.50 2.25 1.12 0.56
01494: Number of events with at least the following durations:
01495: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01496: 200 164 143 108 79 61 54 43 37
01497: 200 Number of events with at least the following durations:
01498: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01499: 200 102 66 42 4 0 0 0 0 0
01500: R0073:0002-----
01501: COMPUTE API-----
01502: [APIMin= 55.11MMPH=.66] 01503: [APIMax= 78.26; APAvg= 20.36; APStd= .00]
01504: #
01505: #
01506: #
01507: # Previous area: IApers 4.67:SLPP=2.00:LGP= 40.:MNP=.250:SCP= .01
01508: # [Impervious area: IAlimp= 1.57:SLIP= .50:LGI= 196.:MMI=.013:SCI= .01]
01509: # [IaECimp= 1.501:IARepCper= 6.00]
01510: # [SMIN= 41.38; SMAX= 275.84; SK= .000]
01511: # LID for Outlet W1 (14 catchbasins, 30 m long trench each)
01512: #
01513: # Total Volume provided by LID = 96 m³, porosity of 0.40 with 250 mm diameter perforated pipe
01514: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
01515: #
01516: # ROUTE RESERVOIR > 5.0 02 INF-NW 8.76 .317 1973.0808_20:00 356.07 .478 .000
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02162> [METOUT= 2 (Imperial, 2=metric output)]
 02163> [INSTNO= 0]
 02164> [IDNO= 1]
 02164> # SWHMHO Ver1.02/Jan 2001 **BETA+** / INPUT DATA FILE
 02165> # Project Name: Barrhaven Conservancy Development
 02166> # Project Number: 1474
 02167> # Modeler : J.Burnett, P.Eng.
 02167> # Updated : 2024/Mar/14 [IP]
 02168> # Company : J.F. Sabourin and Associates
 02169> # License #: 20240314-BCD_WEST-POST_v03.sum
 02170> # Other Information: National Airport (1967 - 2003)
 02170> RD076:CO0002-->
 02171> REAS DATA
 02172> [Filename = YOM_1967_2007_123]
 02173> [Start_date = 1976.0101_End_date = 1976.1230]
 02174> [DT= 60:min; Length= 8054.hrs; WetHrs= 390; DryHrs= 7674; PTOF= 493.20]
 02175> Maximum average rainfall intensities over:
 02176> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02177> 44 113 230 330 380 46 46 40 28
 02178> Number of events with at least the following durations:
 02179> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02180> 43 80 47 15 2 0 0 0 0
 02181> Maximum average rainfall intensities over:
 02182> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02183> 14.00 8.90 4.43 4.65 2.35 1.39 .97 .99 .80 mm/hr
 02184> 14.00 17.80 18.30 27.00 28.20 33.30 38.10 47.60 57.50 mm
 02185> 139760520 139760520 139760520 139760520 139760520 139760520 139760520 139760520 139760520 date
 02186> Number of rainfall events per following interval time:
 02187> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02188> 44 113 230 330 380 46 46 40 28
 02189> Number of events with at least the following durations:
 02190> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 02191> 43 80 47 15 2 0 0 0 0
 02192> RD076:CO0003-->
 02193> COMPUTE API
 02194> [APIname= 50.00; APIdate= 9396]
 02195> [APIfav= 55.66; APIfavg= 15.35; APImax= .02]
 02196> # Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
 02197> RD076:CO0004-->
 02198> REAS DATA
 02199> [Filename = YOM_1967_2007_123]
 02200> CONTINUOUS STANDBY 5.0 01W1 5.76 .125 1976.0828_19:00 209.98 .426 .000
 02201> [XIMP= 55.15; TIME= 60]
 02202> [LOSS= 2 ; CN=100.0]
 02203> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02204> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 238.:MMI=013:SCI= .0]
 02205> [iaECimp= 1.50: IaRECPer= 6.00]
 02206> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02207> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02208> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02209> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02210> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02211> RD076:CO0005--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02212> ROUTE RESERVOIR --> 5.0 02W1 5.76 .125 1976.0828_19:00 209.98 n/a .000
 02213> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02214> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 238.:MMI=013:SCI= .0]
 02215> [iaECimp= 1.50: IaRECPer= 6.00]
 02216> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02217> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02218> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02219> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02220> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02221> RD076:CO0006--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02222> ROUTE RESERVOIR --> 5.0 01W2 5.76 .125 1976.0828_19:00 209.98 n/a .000
 02223> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02224> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 239.:MMI=013:SCI= .0]
 02225> [iaECimp= 1.50: IaRECPer= 6.00]
 02226> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02227> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02228> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02229> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02230> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02231> RD076:CO0007--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02232> ROUTE RESERVOIR --> 5.0 01W3 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02233> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02234> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02235> [iaECimp= 1.50: IaRECPer= 6.00]
 02236> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02237> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02238> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02239> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02240> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02241> RD076:CO0008--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02242> ROUTE RESERVOIR --> 5.0 01W4 5.76 .125 1976.0828_19:00 243.72 .494 .000
 02243> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02244> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02245> [iaECimp= 1.50: IaRECPer= 6.00]
 02246> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02247> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02248> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02249> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02250> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02251> RD076:CO0009--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02252> ROUTE RESERVOIR --> 5.0 01W5 5.76 .125 1976.0828_19:00 243.72 .494 .000
 02253> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02254> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02255> [iaECimp= 1.50: IaRECPer= 6.00]
 02256> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02257> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02258> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02259> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02260> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02261> RD076:CO0010--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02262> ROUTE RESERVOIR --> 5.0 01W6 5.76 .125 1976.0828_19:00 243.72 .494 .000
 02263> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02264> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02265> [iaECimp= 1.50: IaRECPer= 6.00]
 02266> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02267> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02268> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02269> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02270> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02271> RD076:CO0011--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02272> ROUTE RESERVOIR --> 5.0 01W7 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02273> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02274> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02275> [iaECimp= 1.50: IaRECPer= 6.00]
 02276> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02277> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02278> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02279> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02280> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02281> RD076:CO0012--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02282> ROUTE RESERVOIR --> 5.0 01W8 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02283> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02284> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02285> [iaECimp= 1.50: IaRECPer= 6.00]
 02286> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02287> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02288> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02289> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02290> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02291> RD076:CO0013--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02292> ROUTE RESERVOIR --> 5.0 01W9 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02293> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02294> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02295> [iaECimp= 1.50: IaRECPer= 6.00]
 02296> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02297> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02298> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02299> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02300> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02301> RD076:CO0014--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02302> ROUTE RESERVOIR --> 5.0 01W10 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02303> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02304> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02305> [iaECimp= 1.50: IaRECPer= 6.00]
 02306> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02307> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02308> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02309> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02310> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02311> RD076:CO0015--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02312> ROUTE RESERVOIR --> 5.0 01W11 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02313> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02314> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02315> [iaECimp= 1.50: IaRECPer= 6.00]
 02316> [SMIN= 41.38; SMAX=275.84; SK= .000]
 02317> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02318> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02319> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02320> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02321> RD076:CO0016--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02322> ROUTE RESERVOIR --> 5.0 01W12 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02323> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02324> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02325> [iaECimp= 1.50: IaRECPer= 6.00]
 02326> [SMIN= 41.38; SMAX= 9.24; SK= .000]
 02327> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02328> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02329> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02330> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02331> RD076:CO0017--> DIn-ID:NYHY---ARAAh-QPEAKms-TpeakData_hh:mm---RVM-R.C.--DWFcms
 02332> ROUTE RESERVOIR --> 5.0 01W13 5.76 .125 1976.0828_19:00 243.72 n/a .000
 02333> [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02334> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02335> [iaECimp= 1.50: IaRECPer= 6.00]
 02336> [SMIN= 41.38; SMAX= 9.24; SK= .000]
 02337> # Lid for outlet W4 (27 catchbasins, 30 m long trench each)
 02338> # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 02339> # Total Volume provided by Lid = 99 m³ with a safety factor of 2.5
 02340> # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 02341> [Loss= 2 ; CN=100.0]
 02342> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02343> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 259.:MMI=013:SCI= .0]
 02344> [iaECimp= 1.50: IaRECPer= 6.00]
 02345> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02346> # CONTINUOUS STANDBY 5.0 01:INW-74
 02347> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02348> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02349> [iaECimp= 1.50: IaRECPer= 6.00]
 02350> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02351> # CONTINUOUS STANDBY 5.0 01:INW-74
 02352> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02353> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02354> [iaECimp= 1.50: IaRECPer= 6.00]
 02355> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02356> # CONTINUOUS STANDBY 5.0 01:INW-74
 02357> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02358> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02359> [iaECimp= 1.50: IaRECPer= 6.00]
 02360> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02361> # CONTINUOUS STANDBY 5.0 01:INW-74
 02362> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02363> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02364> [iaECimp= 1.50: IaRECPer= 6.00]
 02365> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02366> # CONTINUOUS STANDBY 5.0 01:INW-74
 02367> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02368> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02369> [iaECimp= 1.50: IaRECPer= 6.00]
 02370> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02371> # CONTINUOUS STANDBY 5.0 01:INW-74
 02372> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02373> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02374> [iaECimp= 1.50: IaRECPer= 6.00]
 02375> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02376> # CONTINUOUS STANDBY 5.0 01:INW-74
 02377> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02378> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02379> [iaECimp= 1.50: IaRECPer= 6.00]
 02380> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02381> # CONTINUOUS STANDBY 5.0 01:INW-74
 02382> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02383> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02384> [iaECimp= 1.50: IaRECPer= 6.00]
 02385> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02386> # CONTINUOUS STANDBY 5.0 01:INW-74
 02387> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02388> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02389> [iaECimp= 1.50: IaRECPer= 6.00]
 02390> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02391> # CONTINUOUS STANDBY 5.0 01:INW-74
 02392> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02393> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02394> [iaECimp= 1.50: IaRECPer= 6.00]
 02395> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02396> # CONTINUOUS STANDBY 5.0 01:INW-74
 02397> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02398> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02399> [iaECimp= 1.50: IaRECPer= 6.00]
 02400> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02401> # CONTINUOUS STANDBY 5.0 01:INW-74
 02402> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02403> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02404> [iaECimp= 1.50: IaRECPer= 6.00]
 02405> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02406> # CONTINUOUS STANDBY 5.0 01:INW-74
 02407> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02408> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02409> [iaECimp= 1.50: IaRECPer= 6.00]
 02410> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02411> # CONTINUOUS STANDBY 5.0 01:INW-74
 02412> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02413> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02414> [iaECimp= 1.50: IaRECPer= 6.00]
 02415> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02416> # CONTINUOUS STANDBY 5.0 01:INW-74
 02417> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02418> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02419> [iaECimp= 1.50: IaRECPer= 6.00]
 02420> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02421> # CONTINUOUS STANDBY 5.0 01:INW-74
 02422> [Previous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 02423> [Impervious area: IaImp= 1.57:SLP1=.50:LGI= 260.:MMI=013:SCI= .0]
 02424> [iaECimp= 1.50: IaRECPer= 6.00]
 02425> [SMIN= 1.39; SMAX= 9.24; SK= .000]
 02426> # CONTINUOUS STANDBY 5.0 01:INW-74
 0

02521; [Impervious area: IaRcp= 1.50; IaRcp= 228; MNi= 013; SCI= .0] 02522; [IaRcp= 1.50; IaRcp= 60;] 02523; [SMN= 41.38; SMN= 84; SK= .000] 02524; # LID for Outlet W6 (24 catchbasins, 30 m long trench each) 02525; # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02526; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02527; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02528; R0771:00001-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02529; # Route Reservoir > 5.0 01NW-LID-In 0.0 02530; # outlet <= 5.0 01NW-LID-Out 5.76 .349 1977.0717_16:00 394.18 n/a .000 02531; # overflow <= 5.0 03NW-LID-Out 4.32 .385 1978.0618_17:00 394.17 n/a .000 02532; (#Metrcodes_114800-D-03; TotVolV=1.77e+01 m³, N_Ovr= 100, TotDwrfc= 164,hrs) 02533; R0771:00016-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02534; ADD HVD 5.0 02NW 5.76 .228 1977.0901_23:00 321.78 n/a .000 02535; + 5.0 02NW-LID-In 5.76 .298 1977.0901_23:00 291.80 n/a .000 02536; + 5.0 02NW-LID-Out 6.37 .291 1977.0901_23:00 320.97 n/a .000 02537; + 5.0 02NW 10.11 .393 1977.0901_23:00 343.43 n/a .000 02538; + 5.0 02NW-LID-In 6.20 .235 1977.0901_23:00 329.71 n/a .000 02539; + 5.0 02NW-LID-Out 4.58 .230 1977.0901_23:00 329.71 n/a .000 02540; + 5.0 02NW 5.76 .349 1977.0717_16:00 394.17 n/a .000 02541; SMW= 5.0 01-BCD-PH 48.42 1.903 1977.0901_23:00 344.97 n/a .000 02542; R0771:00017-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02543; ADD HVD 5.0 02NW 5.76 .228 1977.0901_23:00 321.78 n/a .000 02544; + 5.0 02NW-LID-In 5.76 .298 1977.0901_23:00 291.80 n/a .000 02545; + 5.0 02NW-LID-Out 6.37 .291 1977.0901_23:00 320.97 n/a .000 02546; + 5.0 02NW 10.11 .393 1977.0901_23:00 343.43 n/a .000 02547; + 5.0 02NW-LID-In 6.20 .235 1977.0901_23:00 329.71 n/a .000 02548; + 5.0 02NW-LID-Out 4.58 .230 1977.0901_23:00 329.71 n/a .000 02549; + 5.0 02NW 5.76 .349 1977.0717_16:00 394.17 n/a .000 02550; # Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS 02551; # Set infiltration to 0 (CN = 99.99) for water balance analysis 02552; # R0771:00018-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02553; # ***** 02554; R0771:00019-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02555; CONTINUOUS STANDHYD 5.0 01-INF-W1 5.76 .292 1977.0717_16:00 410.97 .696 .000 02556; # (XIMP=.55;TIMP=.66) 02557; # [LGS= 2 ;CNW=100] 02558; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02559; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 196.;MNf= 013;SCI= .0] 02560; # [IaRcp= 1.50; IaRcp= 6.00] 02561; # [SMN= 41.38; SMN= 84; SK= .000] 02562; R0771:00019-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02563; CONTINUOUS STANDHYD 8.51 .418 1977.0901_23:00 393.74 .581 .000 02564; # (XIMP=.55;TIMP=.66) 02565; # [LGS= 2 ;CNW=100] 02566; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02567; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 238.;MNf= 013;SCI= .0] 02568; # [IaRcp= 1.50; IaRcp= 6.00] 02569; # [SMN= 1.39; SMN= 9.24; SK= .000] 02570; R0771:00019-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02571; CONTINUOUS STANDHYD 5.0 01-INF-W3 10.03 .529 1977.0717_16:00 440.83 .650 .000 02572; # (XIMP=.66;TIMP=.76) 02573; # [LGS= 2 ;CNW=100] 02574; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02575; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 259.;MNf= 013;SCI= .0] 02576; # [IaRcp= 1.50; IaRcp= 6.00] 02577; # [SMN= 1.39; SMN= 9.24; SK= .000] 02578; R0771:00021-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02579; CONTINUOUS STANDHYD 5.0 01-INF-W4 10.11 .509 1977.0717_16:00 423.03 .624 .000 02580; # (XIMP=.66;TIMP=.76) 02581; # [LGS= 2 ;CNW=100] 02582; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02583; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 260.;MNf= 013;SCI= .0] 02584; # [IaRcp= 1.50; IaRcp= 6.00] 02585; # [SMN= 1.39; SMN= 9.24; SK= .000] 02586; R0771:00023-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02587; CONTINUOUS STANDHYD 5.0 01-INF-W4 6.20 .316 1977.0717_16:00 414.20 .611 .000 02588; # (XIMP=.66;TIMP=.76) 02589; # [LGS= 2 ;CNW=100] 02590; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02591; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 203.;MNf= 013;SCI= .0] 02592; # [IaRcp= 1.50; IaRcp= 6.00] 02593; # [SMN= 1.39; SMN= 9.24; SK= .000] 02594; R0771:00023-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02595; CONTINUOUS STANDHYD 5.0 01-INF-W6 7.81 .424 1977.0717_16:00 455.00 455.90 .673 .000 02596; # (XIMP=.66;TIMP=.81) 02597; # [LGS= 2 ;CNW=100] 02598; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02599; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 228.;MNf= 013;SCI= .0] 02600; # [IaRcp= 1.50; IaRcp= 6.00] 02601; # [SMN= 1.39; SMN= 9.24; SK= .000] 02602; R0771:00024-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02603; ADD HVD 5.0 02NW 5.76 .292 1977.0717_16:00 410.97 .696 .000 02604; + 5.0 02NW-LID-In 5.76 .418 1977.0901_23:00 393.74 n/a .000 02605; + 5.0 02NW-LID-Out 6.37 .303 .418 1977.0901_23:00 393.74 n/a .000 02606; + 5.0 02NW 10.11 .509 1977.0717_16:00 423.03 n/a .000 02607; + 5.0 02NW-LID-In 6.20 .316 1977.0717_16:00 414.20 n/a .000 02608; + 5.0 02NW-LID-Out 4.58 .316 1977.0717_16:00 414.20 n/a .000 02609; SMW= 5.0 01-INF-BCD-PH 48.42 2.485 1977.0717_16:00 424.30 n/a .000 02610; ##### 02611; CONTINUOUS PADING DATA 02612; *** END OF RUN : 77 02613; 02614; 02615; # R0771:00024-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02616; ADD HVD 5.0 02NW 5.76 .292 1977.0717_16:00 410.97 .696 .000 02617; + 5.0 02NW-LID-In 5.76 .418 1977.0901_23:00 393.74 n/a .000 02618; + 5.0 02NW-LID-Out 6.37 .303 .418 1977.0901_23:00 393.74 n/a .000 02619; + 5.0 02NW 10.11 .509 1977.0717_16:00 423.03 n/a .000 02620; + 5.0 02NW-LID-In 6.20 .316 1977.0717_16:00 414.20 n/a .000 02621; + 5.0 02NW-LID-Out 4.58 .316 1977.0717_16:00 414.20 n/a .000 02622; R0771:00024-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02623; ADD HVD 5.0 02NW 5.76 .292 1978.0102_17:00 410.97 .696 .000 02624; # (METCOUT = 2 ;(Imperial, 2=metric output) 02625; # [INSTR0 = 0] 02626; # [INSTR1 = 0] 02627; # [INSTR2 = 0] 02628; # R0771:00024-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02629; # Project Name: Barrhaven Conservancy Development 02630; # Project Number: 14 02631; # ModelClim = J. Burnett, P. Eng. 02632; # Company = J.F. Sabourin and Associates 02633; # License # = 2582634 02634; # R0771:00024-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02635; # Ottawa International Airport (1967 - 2003) 02636; R0771:00022-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02637; # READ AHS DATA # 02638; # [Filename = YOW_1967_2007.123] 1 02639; # [Start_date= 1978.0102; End_date= 1978.1231] 02640; # [DT= 60. min; Length= 8040; hrs; NetHrs= 409; DryHrs= 7631; PTOT= 641.40] 02641; # Maximum average rainfall intensities over 10 minutes 02642; # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs 02643; # 1.54 1.20 1.00 0.80 0.60 0.40 0.30 0.20 0.10 0.05 02644; # Number of rainfall events per following interevent time 02645; # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs 02646; # 3.60 18.15 12.10 6.05 3.04 1.64 1.13 .97 .58 mm/hr 02647; # 36.00 36.30 36.30 36.30 36.30 39.40 40.40 41.60 41.60 02648; # 36.30 36.30 36.30 36.30 36.30 39.40 40.40 41.60 41.60 02649; # 36.30 36.30 36.30 36.30 36.30 39.40 40.40 41.60 41.60 02650; # Number of events with at least the following durations 02651; # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs 02652; # 1.54 1.20 1.00 0.80 0.60 0.40 0.30 0.20 0.10 0.05 02653; # Number of events with at least the following durations 02654; # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs 02655; # 1.54 75 44 18 5 0 0 0 0 0 0 0 0 02656; R0771:00003-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02657; COMPUTE API 02658; # [APImax= 41.38; APAvg= 25.84; APMin= .25] 02659; # [APImax= 65.36; APAvg= 19.25; APMin= .25] 02660; ##### 02661; Barrhaven Conservancy Development Phase 3 (WRR Connection) - POST DEVELOPMENT CONDITIONS 02662; *** END OF RUN : 77 02663; R0771:00004-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02664; CONTINUOUS STANDHYD 5.0 01W: 5.76 .348 1978.0618_17:00 302.94 .472 .000 02665; # (XIMP=.55;TIMP=.66) 02666; # [LGS= 2 ;CNW=100] 02667; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02668; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 196.;MNf= 013;SCI= .0] 02669; # [IaRcp= 1.50; IaRcp= 6.00] 02670; # [SMN= 41.38; SMN= 75.84; SK= .000] 02671; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02672; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02673; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02674; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02675; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02676; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02677; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02678; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02679; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02680; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02681; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02682; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02683; # Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS 02684; # Set infiltration to 0 (CN = 99.99) for water balance analysis 02685; # R0771:00001-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02686; # ***** 02687; R0771:00018-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02688; CONTINUOUS STANDHYD 5.0 01W: 7.81 .538 1978.0618_17:00 393.23 .613 .000 02689; # (XIMP=.55;TIMP=.66) 02690; # [LGS= 2 ;CNW=100] 02691; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02692; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 203.;MNf= 013;SCI= .0] 02693; # [IaRcp= 1.50; IaRcp= 6.00] 02694; # [SMN= 1.39; SMN= 9.24; SK= .000] 02695; R0771:00020-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02696; CONTINUOUS STANDHYD 5.0 01W: 8.51 .568 1978.0618_17:00 396.35 .618 .000 02697; # (XIMP=.55;TIMP=.66) 02698; # [LGS= 2 ;CNW=100] 02699; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02700; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 238.;MNf= 013;SCI= .0] 02701; # [IaRcp= 1.50; IaRcp= 6.00] 02702; # [SMN= 1.39; SMN= 9.24; SK= .000] 02703; R0771:00020-----ARAhA-QPEAKms-Tpeakdate_hh:mm:--RvNm-R.C.--DWFcms 02704; CONTINUOUS STANDHYD 5.0 01W: 8.51 .548 1978.0618_17:00 279.23 .435 .000 02705; # (XIMP=.55;TIMP=.66) 02706; # [LGS= 2 ;CNW=100] 02707; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02708; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 238.;MNf= 013;SCI= .0] 02709; # [IaRcp= 1.50; IaRcp= 6.00] 02710; # [SMN= 41.38; SMN= 75.84; SK= .000] 02711; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02712; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02713; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02714; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02715; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02716; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02717; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02718; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02719; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02720; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02721; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02722; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02723; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02724; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02725; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02726; # Total Volume provided by LID = 165 m³ 02727; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02728; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02729; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02730; # Total Volume provided by LID = 165 m³ 02731; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02732; # CONTINUOUS STANDHYD 5.0 01W: 8.51 .620 .435 1978.0618_17:00 311.00 .495 .000 02733; # (XIMP=.57;TIMP=.67) 02734; # [LGS= 2 ;CNW=100] 02735; # [Previous area: IaRcp= 4.67;SLIP=2.00;LGF= 40.;MNf= 250;SCf= .0] 02736; # [Impervious area: IaRcp= 1.57;SLIP= .50;LGI= 203.;MNf= 013;SCI= .0] 02737; # [IaRcp= 1.50; IaRcp= 6.00] 02738; # [SMN= 41.38; SMN= 75.84; SK= .000] 02739; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02740; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02741; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02742; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02743; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02744; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02745; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02746; # Total Volume provided by LID = 165 m³ 02747; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02748; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02749; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02750; # Total Volume provided by LID = 165 m³ 02751; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02752; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02753; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02754; # Total Volume provided by LID = 165 m³ 02755; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02756; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02757; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02758; # Total Volume provided by LID = 165 m³ 02759; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02760; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02761; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02762; # Total Volume provided by LID = 165 m³ 02763; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02764; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02765; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02766; # Total Volume provided by LID = 165 m³ 02767; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02768; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02769; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02770; # Total Volume provided by LID = 165 m³ 02771; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02772; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02773; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02774; # Total Volume provided by LID = 165 m³ 02775; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02776; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02777; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02778; # Total Volume provided by LID = 165 m³ 02779; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02780; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02781; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02782; # Total Volume provided by LID = 165 m³ 02783; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02784; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02785; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02786; # Total Volume provided by LID = 165 m³ 02787; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02788; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02789; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02790; # Total Volume provided by LID = 165 m³ 02791; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02792; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02793; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02794; # Total Volume provided by LID = 165 m³ 02795; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02796; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02797; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02798; # Total Volume provided by LID = 165 m³ 02799; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02800; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02801; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02802; # Total Volume provided by LID = 165 m³ 02803; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02804; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02805; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02806; # Total Volume provided by LID = 165 m³ 02807; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02808; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02809; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02810; # Total Volume provided by LID = 165 m³ 02811; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02812; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02813; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02814; # Total Volume provided by LID = 165 m³ 02815; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02816; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02817; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02818; # Total Volume provided by LID = 165 m³ 02819; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02820; # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe 02821; # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5 02822; # Total Volume provided by LID = 165 m³ 02823; # LID for Outlet W9 (9 catchbasins, 30 m long trench) 02824; # Assumed 420 m long trench

02881 Number of rainfall events per following intervals time
02882 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02883 188 147 120 103 86 60 53 43 36
02884 Number of events with at least the following durations
02885 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02886 187 97 55 25 6 0 0 0 0
02887 ADD HYD 0.01:INF-NW 0.01:INF-W 0.01:INF-S 0.01:INF-E
02888 R0079:CD0003-----
02889 # APInfil= 50.00; APFkdy= .9000; APfktr=.9956
02890 # APInfil= 78.42; APfavg= 23.13 APfmin=.13
02891 # APfmax= 1.39; APfavg= 1.24 APfmin=.0000
02892 # Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
02893 #
02894 #
02895 R0079:CD0004-----
02896 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .431 1979.6614:4:00 455.94 .526 .000
02897 # XIMB= 55;TIME= .66
02898 # [LOSS= 2 ; CIN= 71.00]
02899 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
02900 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 196.;MMI=.013;SCI= .0]
02901 # [iREClipm= 1.50; iAREOper= 6.00]
02902 # [IMB= 41.38; SMAX=275.84; SK= .030]
02903 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02904 # Assumed 420 m long trench 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02905 # Total Volume provided by LID = 131 m³
02906 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02907 R0079:CD0005-----
02908 Dtnin-ID:INHYD-----
02909 ROUTE RESERVOIR <-> 5.0 01:INF-LID 1.04 .001 1979.6101:19:45 425.51 n/a .000
02910 # overflow <= 5.0 03:INF-LID Out 1.75 .411 1979.6016:14:00 n/a .000
02911 # [MStdCoSed=.1390E-01 m₃; TotVolV=2.151E+01 m₃; N-Ofv= 121; TotDrofrc= 215. hrs]
02912 R0079:CD0006-----
02913 CONTINUOUS STANDHYD 5.0 01:INF 8.51 .578 1979.6016:14:00 425.51 .491 .000
02914 # XIMB= 55;TIME= .66
02915 # [LOSS= 2 ; CIN= 71.00]
02916 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
02917 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 196.;MMI=.013;SCI= .0]
02918 # [iREClipm= 1.50; iAREOper= 6.00]
02919 # [IMB= 41.38; SMAX=275.84; SK= .030]
02920 # LID for Outlet W2 (19 catchbasins, 30 m long trench each)
02921 # Assumed 420 m long trench 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02922 # Total Volume provided by LID = 131 m³
02923 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02924 R0079:CD0007-----
02925 Dtnin-ID:INHYD-----
02926 ROUTE RESERVOIR <-> 5.0 01:INF 8.51 .578 1979.6016:14:00 425.51 n/a .000
02927 # overflow <= 5.0 03:INF-LID Out 1.04 .001 1979.6101:19:45 425.51 n/a .000
02928 # [MStdCoSed=.1390E-01 m₃; TotVolV=2.966E+01 m₃; N-Ofv= 125; TotDrofrc= 214. hrs]
02929 R0079:CD0008-----
02930 Dtnin-ID:INHYD-----
02931 CONTINUOUS STANDHYD 5.0 01:INF 10.03 .788 1979.6016:14:00 516.68 .596 .000
02932 # XIMB= 55;TIME= .66
02933 # [LOSS= 2 ; CIN= 71.00]
02934 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
02935 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 259.;MMI=.013;SCI= .0]
02936 # [iREClipm= 1.50; iAREOper= 6.00]
02937 # [IMB= 41.38; SMAX=275.84; SK= .030]
02938 # LID for Outlet W6 (28 catchbasins, 30 m long trench each)
02939 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02940 # Total Volume provided by LID = 186 m³
02941 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02942 R0079:CD0009-----
02943 Dtnin-ID:INHYD-----
02944 ROUTE RESERVOIR <-> 5.0 01:INF-LID 8.11 .767 1979.6016:14:00 516.68 n/a .000
02945 # overflow <= 5.0 03:INF-LID Out 8.11 .767 1979.6016:14:00 516.68 n/a .000
02946 # [MStdCoSed=.1390E-01 m₃; TotVolV=4.192E+01 m₃; N-Ofv= 125; TotDrofrc= 212. hrs]
02947 R0079:CD0010-----
02948 CONTINUOUS STANDHYD 5.0 01:INF 10.11 .753 1979.6016:14:00 482.39 .557 .000
02949 # XIMB= 55;TIME= .66
02950 # [LOSS= 2 ; CIN= 71.00]
02951 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
02952 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 260.;MMI=.013;SCI= .0]
02953 # [iREClipm= 1.50; iAREOper= 6.00]
02954 # [IMB= 41.38; SMAX=275.84; SK= .030]
02955 # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
02956 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02957 # Total Volume provided by LID = 186 m³
02958 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02959 R0079:CD0011-----
02960 Dtnin-ID:INHYD-----
02961 ROUTE RESERVOIR <-> 5.0 01:INF 10.1 .753 1979.6016:14:00 482.39 n/a .000
02962 # overflow <= 5.0 03:INF-LID Out 1.1 .753 1979.6016:14:00 482.39 n/a .000
02963 # [MStdCoSed=.1390E-01 m₃; TotVolV=2.334E+01 m₃; N-Ofv= 119; TotDrofrc= 209. hrs]
02964 R0079:CD0012-----
02965 CONTINUOUS STANDHYD 5.0 01:INF 6.20 .468 1979.6016:14:00 465.26 .537 .000
02966 # XIMB= 55;TIME= .66
02967 # [LOSS= 2 ; CIN= 71.00]
02968 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
02969 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 203.;MMI=.013;SCI= .0]
02970 # [iREClipm= 1.50; iAREOper= 6.00]
02971 # [IMB= 41.38; SMAX=275.84; SK= .030]
02972 # LID for Outlet W6 (28 catchbasins, 30 m long trench each)
02973 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02974 # Total Volume provided by LID = 110 m³
02975 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02976 R0079:CD0013-----
02977 Dtnin-ID:INHYD-----
02978 ROUTE RESERVOIR <-> 5.0 01:INF 10.1 .753 1979.6016:14:00 482.39 n/a .000
02979 # overflow <= 5.0 03:INF-LID Out 1.1 .753 1979.6016:14:00 482.39 n/a .000
02980 # [MStdCoSed=.1390E-01 m₃; TotVolV=4.288E+01 m₃; N-Ofv= 121; TotDrofrc= 210. hrs]
02981 R0079:CD0014-----
02982 CONTINUOUS STANDHYD 5.0 01:INF 7.81 .657 1979.6016:14:00 545.65 .650 .000
02983 # XIMB= 55;TIME= .81
02984 # [LOSS= 2 ; CIN= 71.00]
02985 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
02986 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 228.;MMI=.013;SCI= .0]
02987 # [iREClipm= 1.50; iAREOper= 6.00]
02988 # [IMB= 41.38; SMAX=275.84; SK= .030]
02989 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
02990 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02991 # Total infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02992 R0079:CD0015-----
02993 Dtnin-ID:INHYD-----
02994 ROUTE RESERVOIR <-> 5.0 01:INF 7.81 .657 1979.6016:14:00 545.65 .650 .000
02995 # overflow <= 5.0 03:INF-LID Out 1.28 .657 1979.6016:14:00 545.65 n/a .000
02996 # [MStdCoSed=.1390E-01 m₃; TotVolV=4.288E+01 m₃; N-Ofv= 121; TotDrofrc= 210. hrs]
02997 R0079:CD0016-----
02998 CONTINUOUS STANDHYD 5.0 01:INF 7.81 .657 1979.6016:14:00 545.65 .650 .000
02999 # XIMB= 55;TIME= .66
03000 # [LOSS= 2 ; CIN= 71.00]
03001 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03002 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 228.;MMI=.013;SCI= .0]
03003 # [iREClipm= 1.50; iAREOper= 6.00]
03004 # [IMB= 41.38; SMAX=275.84; SK= .030]
03005 ADD HYD 0.0 02:INF-LID 5.76 .431 1979.6016:14:00 455.94 n/a .000
03006 ADD HYD 0.0 02:INF-LID Out 5.76 .431 1979.6016:14:00 455.94 n/a .000
03007 + 5.0 02:INF-LID Out 6.97 .557 1979.6016:14:00 425.51 n/a .000
03008 + 5.0 02:INF-LID Out 8.11 .767 1979.6016:14:00 516.68 n/a .000
03009 + 5.0 02:INF-LID Out 8.11 .767 1979.6016:14:00 516.68 n/a .000
03010 + 5.0 02:INF-LID Out 5.08 .448 1979.6016:14:00 465.26 n/a .000
03011 + 5.0 02:INF-LID Out 5.28 .637 1979.6016:14:00 545.65 n/a .000
03012 + 5.0 02:INF-LID Out 31.7 .637 1979.6016:14:00 545.65 n/a .000
03013 # Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
03014 # Set infiltration to 0 (CM = 99.99) for water balance analysis
03015 #
03016 # R0079:CD0018-----
03017 # Set infiltration to 0 (CM = 99.99) for water balance analysis
03018 #
03019 R0079:CD0019-----
03020 Dtnin-ID:INHYD-----
03021 ROUTE RESERVOIR <-> 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 577.15 .666 .000
03022 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03023 # XIMB= 55;TIME= .66
03024 # [LOSS= 2 ; CIN= 100.00]
03025 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03026 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03027 # [iREClipm= 1.50; iAREOper= 6.00]
03028 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03029 R0079:CD0019-----
03030 CONTINUOUS STANDHYD 5.0 01:INF-NW 8.51 .788 1979.6016:14:00 557.82 .644 .000
03031 # XIMB= 50;TIME= .60
03032 # [LOSS= 2 ; CIN= 100.00]
03033 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03034 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03035 # [iREClipm= 1.50; iAREOper= 6.00]
03036 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03037 R0079:CD0020-----
03038 CONTINUOUS STANDHYD 5.0 01:INF-NW 10.03 .940 1979.6016:14:00 610.15 .704 .000
03039 # XIMB= 50;TIME= .60
03040 # [LOSS= 2 ; CIN= 100.00]
03041 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03042 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03043 # [iREClipm= 1.50; iAREOper= 6.00]
03044 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03045 R0079:CD0021-----
03046 CONTINUOUS STANDHYD 5.0 01:INF-NW 10.11 .939 1979.6016:14:00 590.39 .681 .000
03047 # XIMB= 50;TIME= .60
03048 # [LOSS= 2 ; CIN= 100.00]
03049 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03050 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03051 # [iREClipm= 1.50; iAREOper= 6.00]
03052 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03053 R0079:CD0022-----
03054 CONTINUOUS STANDHYD 5.0 01:INF-NW 6.20 .579 1979.6016:14:00 580.57 .670 .000
03055 # XIMB= 50;TIME= .60
03056 # [LOSS= 2 ; CIN= 100.00]
03057 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03058 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03059 # [iREClipm= 1.50; iAREOper= 6.00]
03060 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03061 R0079:CD0023-----
03062 CONTINUOUS STANDHYD 5.0 01:INF-NW 7.81 .741 1979.6016:14:00 626.86 .723 .000
03063 # XIMB= 50;TIME= .60
03064 # [LOSS= 2 ; CIN= 100.00]
03065 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03066 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03067 # [iREClipm= 1.50; iAREOper= 6.00]
03068 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03069 R0079:CD0024-----
03070 ADD HYD 0.0 02:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03071 # XIMB= 50;TIME= .60
03072 # [LOSS= 2 ; CIN= 100.00]
03073 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03074 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03075 # [iREClipm= 1.50; iAREOper= 6.00]
03076 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03077 # ADD HYD 0.0 02:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03078 # XIMB= 50;TIME= .60
03079 # [LOSS= 2 ; CIN= 100.00]
03080 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03081 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03082 # [iREClipm= 1.50; iAREOper= 6.00]
03083 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03084 R0079:CD0025-----
03085 ADD HYD 0.0 02:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03086 # XIMB= 50;TIME= .60
03087 # [LOSS= 2 ; CIN= 100.00]
03088 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03089 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03090 # [iREClipm= 1.50; iAREOper= 6.00]
03091 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03092 # ADD HYD 0.0 02:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03093 # XIMB= 50;TIME= .60
03094 # [LOSS= 2 ; CIN= 100.00]
03095 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03096 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03097 # [iREClipm= 1.50; iAREOper= 6.00]
03098 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03099 R0079:CD0026-----
03100 ADD HYD 0.0 02:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03101 # XIMB= 50;TIME= .60
03102 # [LOSS= 2 ; CIN= 100.00]
03103 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03104 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03105 # [iREClipm= 1.50; iAREOper= 6.00]
03106 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03107 R0079:CD0027-----
03108 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03109 # XIMB= 50;TIME= .60
03110 # [LOSS= 2 ; CIN= 100.00]
03111 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03112 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03113 # [iREClipm= 1.50; iAREOper= 6.00]
03114 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03115 # ADD HYD 0.0 02:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03116 # XIMB= 50;TIME= .60
03117 # [LOSS= 2 ; CIN= 100.00]
03118 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03119 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03120 # [iREClipm= 1.50; iAREOper= 6.00]
03121 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03122 R0079:CD0028-----
03123 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03124 # XIMB= 50;TIME= .60
03125 # [LOSS= 2 ; CIN= 100.00]
03126 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03127 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03128 # [iREClipm= 1.50; iAREOper= 6.00]
03129 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03130 R0079:CD0029-----
03131 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03132 # XIMB= 50;TIME= .60
03133 # [LOSS= 2 ; CIN= 100.00]
03134 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03135 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03136 # [iREClipm= 1.50; iAREOper= 6.00]
03137 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03138 R0079:CD0030-----
03139 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03140 # XIMB= 50;TIME= .60
03141 # [LOSS= 2 ; CIN= 100.00]
03142 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03143 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03144 # [iREClipm= 1.50; iAREOper= 6.00]
03145 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03146 R0079:CD0031-----
03147 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03148 # XIMB= 50;TIME= .60
03149 # [LOSS= 2 ; CIN= 100.00]
03150 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03151 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03152 # [iREClipm= 1.50; iAREOper= 6.00]
03153 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03154 R0079:CD0032-----
03155 CONTINUOUS STANDHYD 5.0 01:INF-NW 5.76 .338 1979.6016:14:00 590.39 .681 .000
03156 # XIMB= 50;TIME= .60
03157 # [LOSS= 2 ; CIN= 100.00]
03158 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03159 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03160 # [iREClipm= 1.50; iAREOper= 6.00]
03161 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03162 R0079:CD0033-----
03163 CONTINUOUS STANDHYD 5.0 01:INF 10.03 .279 1979.6016:14:00 338.87 .545 .000
03164 # XIMB= 50;TIME= .67
03165 # [LOSS= 2 ; CIN= 100.00]
03166 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03167 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03168 # [iREClipm= 1.50; iAREOper= 6.00]
03169 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03170 R0079:CD0034-----
03171 CONTINUOUS STANDHYD 5.0 01:INF 10.03 .279 1979.6016:14:00 338.87 n/a .000
03172 # XIMB= 50;TIME= .67
03173 # [LOSS= 2 ; CIN= 100.00]
03174 # [Previous area: Iapres= 4.67;SLPP=2.00;LGF= 40.;MNP=250;SCP= .0]
03175 # [Impervious area: IaImp= 1.57;SLP= .50;LGI= 238.;MMI=.013;SCI= .0]
03176 # [iREClipm= 1.50; iAREOper= 6.00]
03177 # [IMB= 41.39; SMAX= 9.24; SK= .000]
03178 R0079:CD0035-----
03179 CONTINUOUS STANDHYD 5.0 01:INF 10.03 .279 1979.6016:14:00 338.87 n/a .000
03180 #

03241+ 5.0 02:W4-LID-Out 7.51 .253 1980.0830_14:00 313.36 n/a .000
 03242+ 5.0 02:W5-LID-Out 4.60 .149 1980.0830_14:00 306.36 n/a .000
 03243+ 5.0 01:W3-LID-Out 1.19 .232 1980.0830_14:00 200.00 n/a .000
 03244+ 5.0 01:BCD-PH3-LI 36.12 1.225 1980.0830_14:00 314.48 n/a .000
 03245+ # Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
 03246+ # Set infiltration to 0 (CN = 99.99) for water balance analysis
 03247+ #
 03248+ #
 03249+ #
 03250+ R0801:00018-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03251+ CONTINUOUS STANDHYD 5.0 01:INF-W1 5.76 .181 1980.0830_14:00 374.57 .602 .000
 03252+ [XIME=..55:TIME=.60]
 03253+ [ROUTE=..55:TIME=.100.0]
 03254+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03255+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03256+ [SMIN= 1.39, SMAX= 9.24: SK= .000]
 03257+ R0801:00019-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03258+ [XIME=..55:TIME=.60]
 03259+ [ROUTE=..55:TIME=.100.0]
 03260+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03261+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03262+ [SMIN= 1.39, SMAX= 9.24: SK= .000]
 03263+ R0801:00020-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03264+ CONTINUOUS STANDHYD 5.0 01:INF-W2 10.03 .339 1980.0830_14:00 402.83 .648 .000
 03265+ [XIME=..55:TIME=.60]
 03266+ [ROUTE=..55:TIME=.100.0]
 03267+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03268+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03269+ [SMIN= 1.39, SMAX= 9.24: SK= .000]
 03270+ R0801:00022-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03271+ CONTINUOUS STANDHYD 5.0 01:INF-W1 10.11 .325 1980.0830_14:00 377.63 .607 .000
 03272+ [XIME=..55:TIME=.60]
 03273+ [ROUTE=..55:TIME=.100.0]
 03274+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03275+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03276+ R0801:00024-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03277+ CONTINUOUS STANDHYD 5.0 01:INF-W1 7.81 .277 1980.0830_14:00 417.08 .675 .000
 03278+ [XIME=..55:TIME=.81]
 03279+ [ROUTE=..55:TIME=.100.0]
 03280+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03281+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 203.:MMI=013:SCI= .0]
 03282+ [SMIN= 1.39, SMAX= 9.24: SK= .000]
 03283+ R0801:00025-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03284+ CONTINUOUS STANDHYD 5.0 01:INF-W1 6.20 .197 1980.0830_14:00 377.63 .607 .000
 03285+ [XIME=..55:TIME=.60]
 03286+ [ROUTE=..55:TIME=.100.0]
 03287+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03288+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 228.:MMI=013:SCI= .0]
 03289+ [SMIN= 1.39, SMAX= 9.24: SK= .000]
 03290+ R0801:00026-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03291+ CONTINUOUS STANDHYD 5.0 01:INF-W1 7.81 .277 1980.0830_14:00 417.08 .675 .000
 03292+ [XIME=..55:TIME=.81]
 03293+ [ROUTE=..55:TIME=.100.0]
 03294+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03295+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 228.:MMI=013:SCI= .0]
 03296+ R0801:00027-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03297+ CONTINUOUS STANDHYD 5.0 01:INF-W1 7.81 .277 1980.0830_14:00 417.08 .675 .000
 03298+ R0801:00024-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03299+ ADD HYD
 03300+ + 5.0 02:INF-W2 8.51 .251 1980.0830_14:00 358.25 n/a .000
 03301+ + 5.0 02:INF-W3 10.03 .339 1980.0830_14:00 402.83 n/a .000
 03302+ + 5.0 02:INF-W4 10.11 .325 1980.0830_14:00 385.99 n/a .000
 03303+ + 5.0 02:INF-W5 6.20 .197 1980.0830_14:00 377.63 .607 .000
 03304+ SUM= 5.0 01:INF-BCD-PH 7.81 .277 1980.0830_14:00 417.08 n/a .000
 03305+ #
 03306+ # CONTINUOUS RAINFALL DATA
 03307+ #
 03308+ *** END OF RUN : 80
 03309+ #
 03310+ #
 03311+ #
 03312+ #
 03313+ #
 03314+ #
 03315+ #
 03316+ # RUN:COMMAND#
 03317+ R0801:00001-----
 03318+ #
 03319+ START
 03320+ [*TZERO = .00 hrs on 19801001]
 03321+ [*METOUT= 2 (1=imperial, 2=metric output)]
 03322+ [*NRUNS = 0081]
 03323+ #
 03324+ # SHMIMO Ver15.02/Jan 2001 (*.BETA*) / INPUT DATA FILE
 03325+ #
 03326+ # Project Name: Barrhaven Conservancy Development
 03327+ #
 03328+ # Modeler : J.Burnett, P.Eng.
 03329+ #
 03330+ # Company : J.F. Sabourin and Associates
 03331+ # License #: 2882634
 03332+ #
 03333+ # Ottawa International Airport (1967 - 2003)
 03334+ #
 03335+ R0801:00002-----
 03336+ # READ IN DATA
 03337+ # FILENAME = YOM_1967_2007_123
 03338+ # [START_DATE= 1981.0101; End_DATE= 1981.1231]
 03339+ # [DT= 60. min; Length= 8760. hrs; MetHrs= 461; DryHrs= 8119; PTOT= 936.40]
 03340+ # Maximum rainfall intensities over 1 hr
 03341+ # Number of rainfall events per following interevent time
 03342+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 03343+ 15.30 .85 1.00 1.00 1.00 1.00 1.00 1.00 1.00 mm/hr
 03344+ 19810805 19810805 19810805 19810805 19810805 19810805 19810805 19810805 date
 03345+ Number of rainfall events per following interevent time
 03346+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 03347+ 226 171 138 109 83 68 59 47 30
 03348+ Number of events with at least the following durations
 03349+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 03350+ 225 128 119 28 0 0 0 0 0
 03351+ #
 03352+ R0801:00003-----
 03353+ # Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
 03354+ #
 03355+ R0801:00004-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03356+ CONTINUOUS STANDHYD 5.0 01:INF-W1 5.76 .181 1981.0803_21:00 464.51 .496 .000
 03357+ [XIME=..55:TIME=.60]
 03358+ [ROUTE=..55:TIME=.100.0]
 03359+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03360+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03361+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03362+ [XIME=..55:TIME=.60]
 03363+ [ROUTE=..55:TIME=.100.0]
 03364+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03365+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 259.:MMI=013:SCI= .0]
 03366+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03367+ # LID for Outlet W3 (28 catchbasins, 30 m long trench each)
 03368+ # Assumed 270 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03369+ # Total Volume provided by LID = 131 m³
 03370+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03371+ #
 03372+ R0801:00005-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03373+ ROUTE RESERVOIR > 5.0 02:W2 1.00 1981.0803_21:00 494.51 n/a .000
 03374+ out <= 5.0 01:W1-LID-Out 1.11 .001 1981.0202_12:30 464.52 n/a .000
 03375+ overflow <= 5.0 03:W1-LID-Out 1.61 .528 1981.0803_21:00 494.50 n/a .000
 03376+ [Meteodata_id=198806-02] 1.61 .528 1981.0803_21:00 494.50 n/a .000
 03377+ R0801:00006-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03378+ CONTINUOUS STANDHYD 5.0 01:W2 8.51 .812 1981.0803_21:00 464.51 .496 .000
 03379+ [XIME=..55:TIME=.60]
 03380+ [ROUTE=..55:TIME=.100.0]
 03381+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03382+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03383+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03384+ [XIME=..55:TIME=.60]
 03385+ [ROUTE=..55:TIME=.100.0]
 03386+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03387+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 259.:MMI=013:SCI= .0]
 03388+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03389+ # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
 03390+ # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03391+ # Total Volume provided by LID = 386 m³
 03392+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03393+ #
 03394+ R0801:00009-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03395+ ROUTE RESERVOIR > 5.0 02:W3 18.0 .969 1981.0202_12:30 550.56 n/a .000
 03396+ out <= 5.0 01:W2-LID-Out 1.00 .001 1981.0202_12:30 464.52 n/a .000
 03397+ overflow <= 5.0 03:W2-LID-Out 1.00 .001 1981.0202_12:30 464.52 n/a .000
 03398+ [Meteodata_id=198806-02] 1.00 .001 1981.0202_12:30 464.52 n/a .000
 03399+ # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
 03400+ # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03401+ # LID for Outlet W3 (28 catchbasins, 30 m long trench each)
 03402+ # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03403+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03404+ #
 03405+ R0801:00009-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03406+ ROUTE RESERVOIR > 5.0 02:W3 18.0 .969 1981.0202_12:30 550.56 n/a .000
 03407+ out <= 5.0 01:W2-LID-Out 1.00 .001 1981.0202_12:30 464.52 n/a .000
 03408+ overflow <= 5.0 03:W2-LID-Out 1.00 .001 1981.0202_12:30 464.52 n/a .000
 03409+ [Meteodata_id=198806-02] 1.00 .001 1981.0202_12:30 464.52 n/a .000
 03410+ R0801:00010-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03411+ CONTINUOUS STANDHYD 5.0 01:W4 10.11 .968 1981.0803_21:00 521.27 .557 .000
 03412+ [XIME=..55:TIME=.60]
 03413+ [ROUTE=..55:TIME=.100.0]
 03414+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03415+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 260.:MMI=013:SCI= .0]
 03416+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03417+ [XIME=..55:TIME=.60]
 03418+ # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
 03419+ # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03420+ # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03421+ # Soil infiltration rate assumed at 8mm/hr with a safety factor of 2.5
 03422+ R0801:00011-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03423+ ROUTE RESERVOIR > 5.0 02:W4 1.00 1981.0803_21:00 521.27 n/a .000
 03424+ overflow <= 5.0 01:W3-LID-Out 2.09 .001 1981.0202_12:30 521.27 n/a .000
 03425+ [Meteodata_id=198806-02] 1.00 1981.0202_12:30 521.27 n/a .000
 03426+ [XIME=..55:TIME=.60]
 03427+ R0801:00012-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03428+ CONTINUOUS STANDHYD 5.0 01:W5 6.20 .594 1981.0803_21:00 504.21 .538 .000
 03429+ [XIME=..55:TIME=.60]
 03430+ [ROUTE=..55:TIME=.100.0]
 03431+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03432+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 228.:MMI=013:SCI= .0]
 03433+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03434+ [XIME=..55:TIME=.60]
 03435+ # LID for Outlet W5 (28 catchbasins, 30 m long trench each)
 03436+ # Assumed 270 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03437+ # Total Volume provided by LID = 131 m³
 03438+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03439+ #
 03440+ R0801:00005-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03441+ CONTINUOUS STANDHYD 5.0 01:W1 5.76 .181 1981.0803_21:00 464.51 .496 .000
 03442+ [XIME=..55:TIME=.60]
 03443+ [ROUTE=..55:TIME=.100.0]
 03444+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03445+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03446+ [SMIN= 41.38, SMAX= 275.84: SK= .030]
 03447+ [XIME=..55:TIME=.60]
 03448+ # LID for Outlet W1 (14 catchbasins, 30 m long trench)
 03449+ # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03450+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03451+ #
 03452+ R0801:00019-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03453+ CONTINUOUS STANDHYD 5.0 01:INF-W1 6.20 .594 1981.0803_21:00 504.21 .538 .000
 03454+ [XIME=..55:TIME=.60]
 03455+ # Soil infiltration rate assumed at 8mm/hr with a safety factor of 2.5
 03456+ R0801:00015-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03457+ ROUTE RESERVOIR > 5.0 02:W5 1.00 1981.0803_21:00 521.27 n/a .000
 03458+ overflow <= 5.0 01:W4-LID-Out 6.15 .001 1981.0202_12:30 584.48 n/a .000
 03459+ [Meteodata_id=198806-02] 1.00 1981.0202_12:30 584.48 n/a .000
 03460+ [XIME=..55:TIME=.60]
 03461+ # LID for Outlet W6 (24 catchbasins, 30 m long trench)
 03462+ # Assumed 270 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 03463+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03464+ #
 03465+ R0801:00021-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03466+ CONTINUOUS STANDHYD 5.0 01:INF-W1 6.20 .594 1981.0803_21:00 504.21 .538 .000
 03467+ [XIME=..55:TIME=.60]
 03468+ # Set infiltration to 0 (CN = 99.99) for water balance analysis
 03469+ #
 03470+ #
 03471+ #
 03472+ #
 03473+ #
 03474+ #
 03475+ #
 03476+ #
 03477+ #
 03478+ # Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
 03479+ #
 03480+ # Set infiltration to 0 (CN = 99.99) for water balance analysis
 03481+ #
 03482+ R0801:00014-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03483+ CONTINUOUS STANDHYD 5.0 01:INF-W1 5.76 .181 1981.0803_21:00 504.21 .538 .000
 03484+ [XIME=..55:TIME=.60]
 03485+ # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 03486+ #
 03487+ R0801:00010-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03488+ CONTINUOUS STANDHYD 5.0 01:INF-W1 6.20 .594 1981.0803_21:00 504.21 .538 .000
 03489+ [XIME=..55:TIME=.60]
 03490+ R0801:00019-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03491+ CONTINUOUS STANDHYD 5.0 01:INF-W1 8.51 .812 1981.0803_21:00 582.16 .622 .000
 03492+ [XIME=..55:TIME=.60]
 03493+ [ROUTE=..55:TIME=.100.0]
 03494+ [Previous area: Iapres 4.67:SLPP=2.00:LGf= 40.:MNP=250:SCP= .0]
 03495+ [Impervious area: Ialimp 1.57:SLP=1..50:LGI= 238.:MMI=013:SCI= .0]
 03496+ [SMIN= 41.38, SMAX= 9.24: SK= .000]
 03497+ R0801:00022-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakDate_hh:mm:--RVm-R.C.--DWFcms
 03498+ CONTINUOUS STANDHYD 5.0 01:INF-W1 6.20 .594 1981.0803_21:00 607.84 .648 .000
 03499+ [XIME=..55:TIME=.60]
 03500+ #
 03501+ #
 03502+ R0801:00002-----
 03503+ START
 03504+ [*TZERO = .00 hrs on 19802101]
 03505+ [*METOUT= 2 (1=imperial, 2=metric output)]
 03506+ [*INSTR0= 1]
 03507+ [*INSTR1= 2024/Mar/14 [LP]]
 03508+ [*INSTR2= 1980/Dec/18]
 03509+ [*INSTR3= Updated 2024/Mar/14 [LP]]
 03510+ [*INSTR4= Company : J.F. Sabourin and Associates]
 03511+ [*INSTR5= License #: 2882634]
 03512+ #
 03513+ # Other Variables: Ottawa International Airport (1967 - 2003)
 03514+ #
 03515+ R0801:00001-----
 03516+ START DATA
 03517+ [*FILEID = YOM_1967_2007_123]
 03518+ [*DT= 60. min; Length= 8760. hrs; MetHrs= 436; DryHrs= 8324; PTOT= 936.10]
 03519+ Maximum rainfall intensities over 1 hr
 03520+ 19.80 10.75 7.60 5.83 3.36 1.68 1.12 .96 .80 mm/hr
 03521+ 19.80 21.50 1.90 1.90 4.50 40.30 40.30 46.30 57.30 mm
 03522+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 date
 03523+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31
 03524+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31
 03525+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31
 03526+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31
 03527+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31 1980/01/01 1980/12/31
 03528+ 1980/01/01 1980/12/31 1980/01/01 1980/12/31 198

03601# Total Volume provided by LID = 96 m³

03602# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03603# ROB082:00000-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03604# ROUTE RESERVOIR > 5.0 02:W1 5.76 .185 1982.0801_19:00 277.52 n/a .000

03605# out <= 5.0 01:W1-LID 1.58 .001 1982.0311_11:15 277.52 n/a .000

03606# overflow <= 5.0 01:W1-LID-Out 2.01 .186 1982.0801_19:00 277.52 n/a .000

03607# (MActCoade-.9398E-02 m₃) TotVolVols-.1161E+01 m₃, N-Owfr=.125, TotTurfrv=.182, hrs)

03608# ROB082:00006-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03609# CONTINUOUS STANDBY 5.0 01:W1 8.51 .249 1982.0801_19:00 255.70 .429 .000

03610# (XMEP=.501TME=.60)

03611# (LOGS= 2 CIN= 71.0)

03612# [Previous] area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .01

03613# [Impervious area: Ialimp: 1.57:SLP=*.50:LGI= 238.:MMI=.013:SCI= .01]

03614# [iAECLimp: 1.50: iARECPer= 6.00]

03615# (SMIN= 41..38 SMAX=275.84: SK= .030)

03616# # LID for Outlet Wd (19 catchbasins, 30 m long trench each)

03617# Assumes 570 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe

03618# Total Volume provided by LID = 1.31 m³

03619# (LOGS= 2 CIN= 71.0)

03620# [Previous] area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .01

03621# [Impervious area: Ialimp: 1.57:SLP=*.50:LGI= 238.:MMI=.013:SCI= .01]

03622# (SMIN= 41..38 SMAX=275.84: SK= .030)

03623# # LID for Outlet Wd (19 catchbasins, 30 m long trench each)

03624# Assumes 570 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe

03625# Total Volume provided by LID = 1.31 m³

03626# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03627# ROB082:00007-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03628# ROUTE RESERVOIR > 5.0 02:W2 8.51 .249 1982.0801_19:00 255.70 n/a .000

03629# out <= 5.0 01:W2-LID 2.01 .186 1982.0801_19:00 255.70 n/a .000

03630# overflow <= 5.0 01:W2-LID-Out 4.16 .246 1982.0801_19:00 255.70 n/a .000

03631# (MActCoade-.1398E-02 m₃) TotVolVols-.1574E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03632# ROB082:00008-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03633# CONTINUOUS STANDBY 5.0 01:W2 10.03 .378 1982.0801_19:00 328.88 .442 .000

03634# (XMEP=.661TME=.76)

03635# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03636# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03637# Total Volume provided by LID = 1.86 m³

03638# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03639# ROB082:00009-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03640# ROUTE RESERVOIR > 5.0 02:W3 10.03 .378 1982.0801_19:00 328.88 n/a .000

03641# out <= 5.0 01:W3-LID 2.01 .186 1982.0311_11:15 328.88 n/a .000

03642# overflow <= 5.0 01:W3-LID-Out 7.23 .373 1982.0801_19:00 328.88 n/a .000

03643# (MActCoade-.1398E-02 m₃) TotVolVols-.2325E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03644# ROB082:00010-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03645# CONTINUOUS STANDBY 5.0 01:W3 10.11 .349 1982.0801_19:00 297.60 .499 .000

03646# (XMEP=.661TME=.76)

03647# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03648# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03649# Total Volume provided by LID = 1.86 m³

03650# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03651# ROB082:00011-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03652# ROUTE RESERVOIR > 5.0 02:W4 10.11 .349 1982.0801_19:00 297.60 n/a .000

03653# out <= 5.0 01:W4-LID 2.01 .186 1982.0311_11:15 297.60 n/a .000

03654# overflow <= 5.0 01:W4-LID-Out 7.23 .373 1982.0801_19:00 297.60 n/a .000

03655# (MActCoade-.1398E-02 m₃) TotVolVols-.2325E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03656# ROB082:00012-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03657# CONTINUOUS STANDBY 5.0 01:W4 10.16 .349 1982.0801_19:00 285.01 .478 .000

03658# (XMEP=.661TME=.76)

03659# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03660# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03661# Total Volume provided by LID = 1.86 m³

03662# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03663# ROB082:00013-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03664# ROUTE RESERVOIR > 5.0 02:W5 10.16 .349 1982.0801_19:00 285.01 n/a .000

03665# out <= 5.0 01:W5-LID 2.01 .186 1982.0311_11:15 285.01 n/a .000

03666# overflow <= 5.0 01:W5-LID-Out 7.23 .373 1982.0801_19:00 285.01 n/a .000

03667# (MActCoade-.1398E-02 m₃) TotVolVols-.2325E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03668# ROB082:00014-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03669# CONTINUOUS STANDBY 5.0 01:W5 10.16 .349 1982.0801_19:00 285.01 .478 .000

03670# (XMEP=.661TME=.76)

03671# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03672# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03673# Total Volume provided by LID = 1.86 m³

03674# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03675# ROB082:00015-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03676# ROUTE RESERVOIR > 5.0 02:W6 10.16 .349 1982.0801_19:00 285.01 n/a .000

03677# out <= 5.0 01:W6-LID 2.01 .186 1982.0311_11:15 285.01 n/a .000

03678# overflow <= 5.0 01:W6-LID-Out 7.23 .373 1982.0801_19:00 285.01 n/a .000

03679# (MActCoade-.1398E-02 m₃) TotVolVols-.2325E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03680# ROB082:00016-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03681# CONTINUOUS STANDBY 5.0 01:W6 10.16 .349 1982.0801_19:00 285.01 .478 .000

03682# (XMEP=.661TME=.76)

03683# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03684# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03685# Total Volume provided by LID = 1.86 m³

03686# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03687# ROB082:00017-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03688# ROUTE RESERVOIR > 5.0 02:W7 10.16 .349 1982.0801_19:00 285.01 n/a .000

03689# out <= 5.0 01:W7-LID 2.01 .186 1982.0311_11:15 285.01 n/a .000

03690# overflow <= 5.0 01:W7-LID-Out 7.23 .373 1982.0801_19:00 285.01 n/a .000

03691# (MActCoade-.1398E-02 m₃) TotVolVols-.2325E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03692# ROB082:00018-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03693# CONTINUOUS STANDBY 5.0 01:W7 10.16 .349 1982.0801_19:00 285.01 .478 .000

03694# (XMEP=.661TME=.76)

03695# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03696# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03697# Total Volume provided by LID = 1.86 m³

03698# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03699# ROB082:00019-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03700# ROUTE RESERVOIR > 5.0 02:W8 10.16 .349 1982.0801_19:00 285.01 n/a .000

03701# out <= 5.0 01:W8-LID 2.01 .186 1982.0311_11:15 285.01 n/a .000

03702# overflow <= 5.0 01:W8-LID-Out 7.23 .373 1982.0801_19:00 285.01 n/a .000

03703# (MActCoade-.1398E-02 m₃) TotVolVols-.2325E+01 m₃, N-Owfr=.126, TotTurfrv=.182, hrs)

03704# ROB082:00020-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03705# CONTINUOUS STANDBY 5.0 01:W8 10.16 .349 1982.0801_19:00 285.01 .478 .000

03706# (XMEP=.661TME=.76)

03707# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03708# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03709# Total Volume provided by LID = 1.86 m³

03710# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03711# ROB082:00021-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03712# Set Infiltration to 0 (CN = 99.99) for water balance analysis

03713# ROB082:00022-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03714# (LOGS= 2 CIN= 71.0)

03715# CONTINUOUS STANDBY 5.0 01:W9 10.16 .349 1982.0801_19:00 355.56 .596 .000

03716# (XMEP=.661TME=.76)

03717# # LID for Outlet Wd (16 catchbasins, 30 m long trench each)

03718# Assumes 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe

03719# Total Volume provided by LID = 1.86 m³

03720# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5

03721# ROB082:00023-----Dtnin-ID:INHYD---AREAh-QPEAKms-TpeakData_hh:mm---Rvnm-R.C.--DWFcms

03722# CONTINUOUS STANDBY 5.0 01:W9 10.16 .349 1982.0801_19:00 355.56 .596 .000

03723# (XMEP=.661TME=.76)

03724# ADD HYD

03725# 5.0 02:W1-LID-Out 4.18 .183 1982.0801_19:00 277.52 n/a .000

03726# + 5.0 02:W2-LID-Out 6.18 .246 1982.0801_19:00 255.70 n/a .000

03727# + 5.0 02:W3-LID-Out 8.51 .249 1982.0801_19:00 255.70 n/a .000

03728# + 5.0 02:W4-LID-Out 10.03 .378 1982.0801_19:00 322.88 n/a .000

03729# + 5.0 02:W5-LID-Out 12.03 .378 1982.0801_19:00 322.88 n/a .000

03730# + 5.0 02:W6-LID-Out 14.03 .378 1982.0801_19:00 322.88 n/a .000

03731# + 5.0 02:W7-LID-Out 16.03 .378 1982.0801_19:00 322.88 n/a .000

03732# + 5.0 02:W8-LID-Out 18.03 .378 1982.0801_19:00 322.88 n/a .000

03733# + 5.0 02:W9-LID-Out 20.03 .378 1982.0801_19:00 322.88 n/a .000

03734# + 5.0 02:W10-LID-Out 22.03 .378 1982.0801_19:00 322.88 n/a .000

03735# + 5.0 02:W11-LID-Out 24.03 .378 1982.0801_19:00 322.88 n/a .000

03736# + 5.0 02:W12-LID-Out 26.03 .378 1982.0801_19:00 322.88 n/a .000

03737# + 5.0 02:W13-LID-Out 28.03 .378 1982.0801_19:00 322.88 n/a .000

03738# + 5.0 02:W14-LID-Out 30.03 .378 1982.0801_19:00 322.88 n/a .000

03739# + 5.0 02:W15-LID-Out 32.03 .378 1982.0801_19:00 322.88 n/a .000

03740# + 5.0 02:W16-LID-Out 34.03 .378 1982.0801_19:00 322.88 n/a .000

03741# + 5.0 02:W17-LID-Out 36.03 .378 1982.0801_19:00 322.88 n/a .000

03742# + 5.0 02:W18-LID-Out 38.03 .378 1982.0801_19:00 322.88 n/a .000

03743# + 5.0 02:W19-LID-Out 40.03 .378 1982.0801_19:00 322.88 n/a .000

03744# + 5.0 02:W20-LID-Out 42.03 .378 1982.0801_19:00 322.88 n/a .000

03745# + 5.0 02:W21-LID-Out 44.03 .378 1982.0801_19:00 322.88 n/a .000

03746# + 5.0 02:W22-LID-Out 46.03 .378 1982.0801_19:00 322.88 n/a .000

03747# + 5.0 02:W23-LID-Out 48.03 .378 1982.0801_19:00 322.88 n/a .000

03748# + 5.0 02:W24-LID-Out 50.03 .378 1982.0801_19:00 322.88 n/a .000

03749# + 5.0 02:W25-LID-Out 52.03 .378 1982.0801_19:00 322.88 n/a .000

03750# + 5.0 02:W26-LID-Out 54.03 .378 1982.0801_19:00 322.88 n/a .000

03751# + 5.0 02:W27-LID-Out 56.03 .378 1982.0801_19:00 322.88 n/a .000

03752# + 5.0 02:W28-LID-Out 58.03 .378 1982.0801_19:00 322.88 n/a .000

03753# + 5.0 02:W29-LID-Out 60.03 .378 1982.0801_19:00 322.88 n/a .000

03754# + 5.0 02:W30-LID-Out 62.03 .378 1982.0801_19:00 322.88 n/a .000

03755# + 5.0 02:W31-LID-Out 64.03 .378 1982.0801_19:00 322.88 n/a .000

03756# + 5.0 02:W32-LID-Out 66.03 .378 1982.0801_19:00 322.88 n/a .000

03757# + 5.0 02:W33-LID-Out 68.03 .378 1982.0801_19:00 322.88 n/a .000

03758# + 5.0 02:W34-LID-Out 70.03 .378 1982.0801_19:00 322.88 n/a .000

03759# + 5.0 02:W35-LID-Out 72.03 .378 1982.0801_19:00 322.88 n/a .000

03760# + 5.0 02:W36-LID-Out 74.03 .378 1982.0801_19:00 322.88 n/a .000

03761# + 5.0 02:W37-LID-Out 76.03 .378 1982.0801_19:00 322.88 n/a .000

03762# + 5.0 02:W38-LID-Out 78.03 .378 1982.0801_19:00 322.88 n/a .000

03763# + 5.0 02:W39-LID-Out 80.03 .378 1982.0801_19:00 322.88 n/a .000

03764# + 5.0 02:W40-LID-Out 82.03 .378 1982.0801_19:00 322.88 n/a .000

03765# + 5.0 02:W41-LID-Out 84.03 .378 1982.0801_19:00 322.88 n/a .000

03766# + 5.0 02:W42-LID-Out 86.03 .378 1982.0801_19:00 322.88 n/a .000

03767# + 5.0 02:W43-LID-Out 88.03 .378 1982.0801_19:00 322.88 n/a .000

03768# + 5.0 02:W44-LID-Out 90.03 .378 1982.0801_19:00 322.88 n/a .000

03769# + 5.0 02:W45-LID-Out 92.03 .378 1982.0801_19:00 322.88 n/a .000

03770# + 5.0 02:W46-LID-Out 94.03 .378 1982.0801_19:00 322.88 n/a .000

03771# CONTINUOUS RAINFALL DATA

03772# END HYD : 02

03773# END RAIN : 02

03774# END : 02

03775# *****

03776# *****

03777# *****

03778# *****

03779# *****

03780# *****

03961: [SMN= 1.39; SMAX= 9.24; SK= .000] ---Dtn-ID:NYWD--- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 03962: R0081c000120-----Dtn-ID:NYWD----- 10.03 .268 1983.1.005_15:00 366.59 .624 .000
 03963: CONTINUOUS STANDHYD 5.0 01:INF-W4 [XIMP= .66:TIME=.76] .01 INF-W4 .000
 03964: [LOSS= 2 ; CIN=10.0] .000
 03965: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 03966: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 260.:MMI=.013:SCI= .0] .000
 03967: [Imperious area: IAlmp= 4.57:SLPI= .50:LGI= 259.:MMI=.013:SCI= .0] .000
 03968: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 03969: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 03970: R0081c00021-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 03971: CONTINUOUS STANDHYD 5.0 01:INF-W4 10.11 .268 1983.1.005_15:00 342.14 .582 .000
 03972: [LOSS= 2 ; CIN=10.0] .000
 03973: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 03974: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 260.:MMI=.013:SCI= .0] .000
 03975: [Imperious area: IAlmp= 4.57:SLPI= .50:LGI= 259.:MMI=.013:SCI= .0] .000
 03976: [SMN= 1.39; SMAX= 9.24; SK= .000] .000
 03977: R0081c00022-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 03978: [LOSS= 2 ; CIN=10.0] .000
 03979: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 03980: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0] .000
 03981: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 03982: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 03983: [XIMP= .57:TIME=.67] .000
 03984: [LOSS= 2 ; CIN=10.0] .000
 03985: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 03986: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 228.:MMI=.013:SCI= .0] .000
 03987: [Imperious area: IAlmp= 4.57:SLPI= .50:LGI= 227.:MMI=.013:SCI= .0] .000
 03988: [SMN= 1.39; SMAX= 9.24; SK= .000] .000
 03989: R0081c00023-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 03990: CONTINUOUS STANDHYD 5.0 01:INF-W4 7.81 .211 1983.1.005_15:00 380.42 .648 .000
 03991: [LOSS= 2 ; CIN=10.0] .000
 03992: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 03993: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0] .000
 03994: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 03995: [SMN= 1.39; SMAX= 9.24; SK= .000] .000
 03996: R0081c00024-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 03997: CONTINUOUS STANDHYD 5.0 01:INF-W4 8.56 .222 1983.1.005_15:00 323.35 n/a .000
 03998: [LOSS= 2 ; CIN=10.0] .000
 03999: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 04000: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 228.:MMI=.013:SCI= .0] .000
 04001: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 04002: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04003: ##### CONTINUOUS RAINFALL DATA #####
 04004: # ***** RAINFALL DATA *****
 04005: ** END OF RUN : 83
 04006: # ***** RAINFALL DATA *****
 04007: # ***** RAINFALL DATA *****
 04008: # ***** RAINFALL DATA *****
 04009: # ***** RAINFALL DATA *****
 04010: # ***** RAINFALL DATA *****
 04011: # ***** RAINFALL DATA *****
 04012: # ***** RAINFALL DATA *****
 04013: RUNH:#COMMAND#
 04014: R0084c0001-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04015: START
 04016: [TZERO= .00 hrs on 198040101] .000
 04017: [METOUT= 2 (1=imperial, 2=metric output)] .000
 04018: [NESTORM= 0] .000
 04019: [CIN=10.0] .000
 04020: # ***** RAINFALL DATA *****
 04021: # SWHMHO Ver1.02 Jan 2001 *BETA* / INPUT DATA FILE
 04022: # ***** RAINFALL DATA *****
 04023: Project Name: Barrhaven Conservancy Development
 04024: Computer Name: J.F. Sabourin & Associates
 04025: Number of Rainfall Events: 1
 04026: Date: 1/20/2001
 04027: Modeler: J.F. Sabourin & Associates
 04028: Updated: 1/20/2014 [LP]
 04029: Company: J.F. Sabourin & Associates
 04030: Address: 1000 Barrhaven Drive, Ottawa, Ontario
 04031: # Ottawa International Airport (1967 - 2003)
 04032: R0084c0001-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04033: READ AES DATA [YOM=1967_2007_123] 1
 04034: [Filename = YOM_1967_2007_123] [Start Date = 1967-01-01] [End Date = 2007-12-31] [Period = 12 months] [Type = Daily] [Format = 12 hour] .000
 04035: [DTR= 60:min; Length= 8760:hrs; Wethrs= 308; DryHrs= 8452; PTOT= 459.40]
 04036: Maximum average rainfall intensities over
 04037: 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 04038: 17.80 9.40 22.76 32.07 43.01 1.85 31.58 1.19 1.00 mm/hr
 04039: 17.80 9.40 22.76 32.07 43.01 1.85 31.58 1.19 1.00 mm hr
 04040: 17.80 9.40 22.76 32.07 43.01 1.85 31.58 1.19 1.00 mm hr
 04041: 19840812 19840812 19840812 19840813 19840813 19840814 19840813 date
 04042: Number of rainfall events per following intervals
 04043: 1 hr 8 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 04044: 98 80 55 46 40 34 26
 04045: Number of events with at least the following durations
 04046: 1 hr 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 04047: 97 58 35 11 3 1 0 0 0
 04048: R0084c00001-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04049: COMPUTE API [APInit= 50.30; APIdt= 8000; APIdt= .9956] .000
 04050: [APInit= 50.30; APIdt= 8000; APIdt= .9956] .000
 04051: [APInit= 50.30; APIdt= 8000; APIdt= .9956] .000
 04052: # ***** RAINFALL DATA *****
 04053: # Barrhaven Conservancy Development, Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
 04054: # ***** RAINFALL DATA *****
 04055: R0084c00004-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04056: CONTINUOUS STANDHYD 5.0 01:W4 5.76 .184 1984.0812_7:00 224.78 .489 .000
 04057: [LOSS= 2 ; CIN=10.0] .000
 04058: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 04059: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 238.:MMI=.013:SCI= .0] .000
 04060: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 04061: [SMN= 41.38; SMAX= 275.84; SK= .000] .000
 04062: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04063: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04064: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04065: Total Volume provided by LD = 96 m³
 04066: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04067: # Total Volume provided by LD = 96 m³ with a safety factor of 2.5
 04068: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04069: ROUTE RESERVOIR > 5.0 02:W4 [XIMP= .57:TIME=.66] .01 INF-W4 .000
 04070: overflow <= 5.0 01:W4-LID-Out 1.28 .001 1984.0214 9:00 259.62 n/a .000
 04071: [MGT=Oudea..5956E-02 m3, TotCovVol=1.00E+01 m3, N-Ovr= 89, TotDrvRvt= 144. hrs] .000
 04072: R0084c00006-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04073: CONTINUOUS STANDHYD 5.0 01:W4 8.51 .251 1984.0812_7:00 208.10 .453 .000
 04074: [XIMP= .57:TIME=.60] .000
 04075: [LOSS= 2 ; CIN=7.0] .000
 04076: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 04077: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 238.:MMI=.013:SCI= .0] .000
 04078: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 04079: [IMPER= 41.38; SMAX= 275.84; SK= .000] .000
 04080: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04081: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04082: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04083: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04084: # LD for Outlet W4 (14 catchbasins, 30 m long trench each) .000
 04085: Total Volume provided by LD = 186 m³
 04086: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04087: # Total Volume provided by LD = 186 m³ with a safety factor of 2.5
 04088: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04089: ROUTE RESERVOIR > 5.0 02:W4 [XIMP= .57:TIME=.66] .01 INF-W4 .000
 04090: overflow <= 5.0 01:W4-LID-Out 2.30 .001 1984.0214 9:00 259.62 n/a .000
 04091: [MGT=Oudea..5956E-02 m3, TotCovVol=1.00E+01 m3, N-Ovr= 91, TotDrvRvt= 142. hrs] .000
 04092: R0084c00010-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04093: CONTINUOUS STANDHYD 5.0 01:W4 10.11 .340 1984.0812_7:00 239.62 .522 .000
 04094: [XIMP= .57:TIME=.70] .000
 04095: [LOSS= 2 ; CIN=7.0] .000
 04096: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 04097: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 238.:MMI=.013:SCI= .0] .000
 04098: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 04099: # LD for Outlet W4 (16 catchbasins, 30 m long trench each) .000
 04100: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04101: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04102: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04103: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04104: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04105: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04106: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04107: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04108: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04109: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04110: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04111: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04112: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04113: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04114: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04115: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04116: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04117: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04118: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04119: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04120: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04121: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04122: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04123: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04124: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04125: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04126: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04127: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04128: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04129: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04130: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04131: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04132: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04133: # LD for Outlet W4 (16 catchbasins, 30 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04134: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04135: R0084c00013-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04136: CONTINUOUS STANDHYD 5.0 01:INF-W4 1.01 .340 1984.0812_7:00 239.62 n/a .000
 04137: ROUTE RESERVOIR > 5.0 01:W4 [XIMP= .57:TIME=.66] .01 INF-W4 .000
 04138: overflow <= 5.0 01:W4-LID-Out 1.44 .001 1984.0214 9:10 230.17 n/a .000
 04139: [MGT=Oudea..5956E-02 m3, TotCovVol=1.00E+01 m3, N-Ovr= 91, TotDrvRvt= 140. hrs] .000
 04140: R0084c00014-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04141: CONTINUOUS STANDHYD 5.0 01:INF-W4 1.01 .340 1984.0812_7:00 239.62 .501 .000
 04142: [XIMP= .57:TIME=.66] .01 INF-W4 .000
 04143: ROUTE RESERVOIR > 5.0 01:W4 [XIMP= .57:TIME=.66] .01 INF-W4 .000
 04144: [Previous area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 04145: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 228.:MMI=.013:SCI= .0] .000
 04146: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 04147: [SMN= 41.38; SMAX= 275.84; SK= .000] .000
 04148: # LD for Outlet W6 (24 catchbasins, 30 m long trench each) .000
 04149: # Total Volume provided by LD = 1.21 m³ with a safety factor of 0.40 with 250 mm diameter perforated pipe
 04150: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04151: # Total Volume provided by LD = 1.21 m³ with a safety factor of 2.5
 04152: # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 04153: ROUTE RESERVOIR > 5.0 02:W4 [XIMP= .57:TIME=.66] .01 INF-W4 .000
 04154: overflow <= 5.0 01:W4-LID-Out 1.77 .335 1984.0812_7:00 239.62 n/a .000
 04155: [MGT=Oudea..5956E-02 m3, TotCovVol=1.00E+01 m3, N-Ovr= 89, TotDrvRvt= 144. hrs] .000
 04156: R0084c00010-----Dtn-ID:NYWD----- AREAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.---DWFcms
 04157: CONTINUOUS STANDHYD 5.0 01:W4 1.01 .340 1984.0812_7:00 239.62 .522 .000
 04158: [XIMP= .57:TIME=.70] .000
 04159: [LOSS= 2 ; CIN=7.0] .000
 04160: [Pervious area: IApers= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0] .000
 04161: [Impervious area: IAlmp= 1.57:SLPI= .50:LGI= 238.:MMI=.013:SCI= .0] .000
 04162: [IaEClmp= 1.50; IaRcpers= 6.00] .000
 04163: [SMN= 41.38; SMAX= 275.84; SK= .000] .000
 04164: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04165: # Assumed 810 m long trench, 12.5 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04166: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04167: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04168: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04169: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04170: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04171: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04172: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04173: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04174: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04175: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04176: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04177: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04178: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04179: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04180: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04181: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04182: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04183: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04184: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04185: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04186: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04187: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04188: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04189: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04190: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04191: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04192: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04193: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04194: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04195: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04196: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04197: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04198: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04199: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04200: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04201: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04202: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04203: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04204: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04205: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04206: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04207: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04208: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04209: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04210: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04211: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04212: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04213: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04214: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04215: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04216: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04217: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04218: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04219: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04220: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04221: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04222: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04223: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04224: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04225: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04226: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04227: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04228: # LD for Outlet W6 (16 catchbasins, 30 m long trench each) .000
 04229: # LD for Outlet W6 (16 catch

04321# ROB085:00008----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W3 10.03 .363 1985.0716_14:00 318.35 .569 .000
04322# [LOGS= 2 CIN=71.0] .
04324# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04325# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 259.:MMI=.013:SCI= .0]
04327# [iRECEmp= 1.50: iRECPer= 6.00]
04328# [SMIN= 41.38: SMAZ= 275.84: SK= .000]
04329# # Assumed 940 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04330# # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04331# Total Volume provided by LID = 193 m³
04332# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04333# ROB085:00009----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
ROUTE RESERVOIR -> 5.0 02:W3 10.03 .363 1985.0716_14:00 318.35 n/a .000
04334# out <= 5.0 01:W3-LID-Dut 2.27 .001 1985.0716_14:00 318.35 n/a .000
04335# overflow <= 5.0 01:W3-LID-Dut 2.16 .001 1985.0716_14:00 318.35 n/a .000
04337# (MNGtCoade_11930E-01 m3, TotConvVol=.24708E+01 m3, N-Ovr= 85, TotDurf= 148, hrs)
04338# ROB085:00010----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W4 10.11 .336 1985.0716_14:00 293.85 .525 .000
04340# (XIM=60:TIME=71)
04341# [LOSS= 2 CIN= 71.0]
04342# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04343# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 260.:MMI=.013:SCI= .0]
04344# [iRECEmp= 1.50: iRECPer= 6.00]
04345# [SMIN= 41.38: SMAZ= 275.84: SK= .000]
04346# # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
04347# # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04348# # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04349# Total Volume provided by LID = 193 m³
04350# ROB085:00011----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
ROUTE RESERVOIR -> 5.0 02:W3 10.03 .363 1985.0716_14:00 293.85 n/a .000
04352# out <= 5.0 01:W3-LID-Dut 2.43 .001 1985.0722_12:30 293.85 n/a .000
04353# overflow <= 5.0 01:W3-LID-Dut 2.16 .001 1985.0722_12:30 293.85 n/a .000
04355# (MNGtCoade_11860E-01 m3, TotConvVol=.2287E+01 m3, N-Ovr= 74, TotDurf= 148, hrs)
04356# ROB085:00012----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W5 6.20 .198 1985.0716_14:00 281.60 .503 .000
04357# (XIM=57:TIME=71)
04358# [LOSS= 2 CIN= 71.0]
04359# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04360# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 203.:MMI=.013:SCI= .0]
04361# [iRECEmp= 1.50: iRECPer= 6.00]
04362# [SMIN= 41.38: SMAZ= 275.84: SK= .000]
04363# # Lid for outlet W5 (16 catchbasins, 30 m long trench each)
04364# # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04365# # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04366# Total Volume provided by LID = 110 m³
04367# ROB085:00013----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
ROUTE RESERVOIR -> 5.0 02:W3 6.20 .198 1985.0716_14:00 281.60 n/a .000
04369# out <= 5.0 01:W3-LID-Dut 1.43 .001 1985.0222_12:30 281.60 n/a .000
04370# overflow <= 5.0 01:W3-LID-Dut 1.19 .001 1985.0222_12:30 281.60 n/a .000
04371# (MNGtCoade_11808E-01 m3, TotConvVol=.2287E+01 m3, N-Ovr= 85, TotDurf= 147, hrs)
04372# ROB085:00014----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W6 7.81 .306 1985.0716_14:00 338.94 .605 .000
04373# (XIM=71:TIME=81)
04374# [LOSS= 2 CIN= 71.0]
04375# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04376# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 228.:MMI=.013:SCI= .0]
04377# [iRECEmp= 1.50: iRECPer= 6.00]
04378# [SMIN= 41.38: SMAZ= 275.84: SK= .000]
04379# # LID for outlet W6 (24 catchbasins, 30 m long trench each)
04380# # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04381# # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04382# Total Volume provided by LID = 110 m³
04383# ROB085:00015----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
ROUTE RESERVOIR -> 5.0 02:W3 7.81 .306 1985.0716_14:00 338.94 n/a .000
04385# out <= 5.0 01:W3-LID-Dut 1.43 .001 1985.0222_12:30 338.94 n/a .000
04386# overflow <= 5.0 01:W3-LID-Dut 1.19 .001 1985.0222_12:30 338.94 n/a .000
04387# (MNGtCoade_11808E-01 m3, TotConvVol=.2287E+01 m3, N-Ovr= 85, TotDurf= 147, hrs)
04388# ROB085:00016----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W7 7.81 .306 1985.0716_14:00 338.94 n/a .000
04389# (XIM=71:TIME=81)
04390# [LOSS= 2 CIN= 71.0]
04391# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04392# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 228.:MMI=.013:SCI= .0]
04393# [iRECEmp= 1.50: iRECPer= 6.00]
04394# [SMIN= 41.38: SMAZ= 275.84: SK= .000]
04395# # LID for outlet W7 (16 catchbasins, 30 m long trench each)
04396# # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04397# # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04398# Total Volume provided by LID = 110 m³
04399# ROB085:00017----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
ROUTE RESERVOIR -> 5.0 02:W3 7.81 .306 1985.0716_14:00 338.94 n/a .000
04400# out <= 5.0 01:W3-LID-Dut 1.43 .001 1985.0222_12:30 338.94 n/a .000
04401# overflow <= 5.0 01:W3-LID-Dut 1.19 .001 1985.0222_12:30 338.94 n/a .000
04402# (MNGtCoade_11808E-01 m3, TotConvVol=.2287E+01 m3, N-Ovr= 85, TotDurf= 145, hrs)
04403# ROB085:00018----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W8 6.01 .302 1985.0716_14:00 293.84 n/a .000
04404# (XIM=66:TIME=81)
04405# [LOSS= 2 CIN= 71.0]
04406# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04407# # Barhavine Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
04408# See Infiltration to 0 (CN = 99.99) for water balance analysis
04409# *****
04410# ROB085:00019----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:W9 5.76 .254 1985.0716_14:00 361.80 .646 .000
04412# (XIM=55:TIME=66)
04413# [LOGS= 2 CIN=100.0]
04414# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04415# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 196.:MMI=.013:SCI= .0]
04416# [iRECEmp= 1.50: iRECPer= 6.00]
04417# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04418# ROB085:00020----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 5.01 .350 1985.0716_14:00 349.70 .621 .000
04419# (XIM=66:TIME=66)
04420# ADD HYD
04421# [LOGS= 2 CIN=100.0]
04422# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04423# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 238.:MMI=.013:SCI= .0]
04424# [iRECEmp= 1.50: iRECPer= 6.00]
04425# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04426# ROB085:00021----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 10.03 .436 1985.0716_14:00 386.27 .690 .000
04427# (XIM=66:TIME=66)
04428# [LOGS= 2 CIN=100.0]
04429# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04430# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 259.:MMI=.013:SCI= .0]
04431# [iRECEmp= 1.50: iRECPer= 6.00]
04432# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04433# ROB085:00022----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 10.11 .442 1985.0716_14:00 371.72 .664 .000
04434# (XIM=57:TIME=67)
04435# CONTINUOUS STANDHY 5.0 01:INF-W 4 8.76 .254 1985.0716_14:00 361.80 n/a .000
04436# ADD HYD
04437# [LOGS= 2 CIN=100.0]
04438# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04439# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 260.:MMI=.013:SCI= .0]
04440# [iRECEmp= 1.50: iRECPer= 6.00]
04441# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04442# ROB085:00023----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 5.01 .350 1985.0716_14:00 398.56 .712 .000
04443# (XIM=66:TIME=66)
04444# ROB085:00024----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .372 1985.0716_14:00 398.56 .712 .000
04445# (XIM=66:TIME=66)
04446# ADD HYD
04447# [LOGS= 2 CIN=100.0]
04448# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04449# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 203.:MMI=.013:SCI= .0]
04450# [iRECEmp= 1.50: iRECPer= 6.00]
04451# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04452# ROB085:00025----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 10.11 .442 1985.0716_14:00 371.72 .664 .000
04453# (XIM=66:TIME=66)
04454# ROB085:00026----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 4 8.76 .254 1985.0716_14:00 361.80 n/a .000
04455# ADD HYD
04456# [LOGS= 2 CIN=100.0]
04457# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04458# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 228.:MMI=.013:SCI= .0]
04459# [iRECEmp= 1.50: iRECPer= 6.00]
04460# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04461# ROB085:00027----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 5.01 .350 1985.0716_14:00 398.56 .712 .000
04462# (XIM=66:TIME=66)
04463# ADD HYD
04464# [LOGS= 2 CIN=100.0]
04465# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04466# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 238.:MMI=.013:SCI= .0]
04467# [iRECEmp= 1.50: iRECPer= 6.00]
04468# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04469# ROB085:00028----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 10.03 .496 1986.0729_15:00 585.29 .689 .000
04470# (XIM=66:TIME=66)
04471# ADD HYD
04472# [LOGS= 2 CIN=100.0]
04473# [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=.250:SCP= .0]
04474# [Impervious area: IALimp= 1.57:SLIP= .50:LGI= 238.:MMI=.013:SCI= .0]
04475# [iRECEmp= 1.50: iRECPer= 6.00]
04476# [SMIN= 1.39: SMAZ= 275.84: SK= .000]
04477# ROB085:00029----->Dmin-ID:NYDY-----ARAAh-QPEAKms-TpeakDate_hh:mm---->Rvnm-R.C.--DWFcms
CONTINUOUS STANDHY 5.0 01:INF-W 5.01 .350 1986.0729_15:00 554.85 .653 .000
04478# (XIM=66:TIME=66)
04479# ADD ABS DATA
04480# [STORMS= 0]
04481# [Project Number: 1474]
04482# [Start Date: 01/Jan/2001 *End Date: 31/Dec/2001]
04483# [Storm Type: 2 (Imperial, 2=metric output)]
04484# [Run #: 1/01/2001]
04485# # SWHMHO Ver:1.01 Date:2001 *BETA* / INPUT DATA FILE
04486# Project Name: Barhavine Conservancy Development
04487# Modeler: J.F. Sabourin, P. Eng.
04488# Updated : 2024/Mar/14 [EF]
04489# Company : J.F. Sabourin and Associates
04490# Address : 100, rue St-Jean, Suite 1000, Laval, Quebec, H7T 1A7
04491# READ ABS DATA
04492# [Filename = YCM_1967_2007_123]
04493# [Start Date= 1986.01.01 End Date= 1986.12.31]
04494# [DT= 60:min] Length= 8040.mtrs; NetHrs= 520; DryHrs= 7520; PTOT= 849.40]

04681: [SMIN= 1.39; SMAX= 9.24; SKW= .000] ----- Dtnin-ID:NHYD----- ARAAh-QPEAKms-TpeakDate_hh:mm:--Rvmm-R.C.--DWFcms
 04682: R00861:CD0023----- Dtnin-ID:NHYD----- 7.81 .390 1986.0729_13:00 602.49 .709 .000
 04683: CONTINUOUS STANDHYD 5.0 01:INF-W6 [XIMP= 55;TIME=.66]
 04684: [LOGS= 2 ;CNM=1.0] -----
 04685: [Impervious area: IApers= 4.67;SLP2=2.00:LGF= 40.;MNFI=250;SCF= .0]
 04686: [Impervious area: IAlmp= 1.57;SLP1= .50:LGI= 228.;MNFI=0.013;SCI= .0]
 04687: [IaEClipm= 1.50; iARECPer= 6.00]
 04688: [SMIN= 1.39; SMAX= 9.24; SKW= .000] ----- Dtnin-ID:NHYD-----
 04689: ADD HYD 5.0 02:INF-W6 [XIMP= 55;TIME=.66]
 04690: [LOGS= 2 ;CNM=1.0] -----
 04691: ARAAh-QPEAKms-TpeakDate_hh:mm:--Rvmm-R.C.--DWFcms
 04692: + 5.0 02:INF-W6 5.76 .283 1986.0729_13:00 551.31 n/a .000
 04693: + 5.0 02:INF-W6 8.41 .452 1986.0729_13:00 585.29 n/a .000
 04694: + 5.0 02:INF-W3 10.03 .494 1986.0729_13:00 585.29 n/a .000
 04695: + 5.0 02:INF-W3 10.11 .495 1986.0729_13:00 564.95 n/a .000
 04696: + 5.0 02:INF-W3 6.20 .304 1986.0729_13:00 554.85 n/a .000
 04697: + 5.0 02:INF-W3 9.31 .393 1986.0729_13:00 564.95 n/a .000
 04698: + 5.0 01:INF-BCD-PH 48.42 2,379 1986.0729_13:00 566.41 n/a .000
 04699: SUM-----
 04700: # CONTINUOUS RAINFALL DATA-----
 04701: ** END OF RUN : 86
 04702: *****-----
 04703: *****-----
 04704: *****-----
 04705: *****-----
 04706: *****-----
 04707: *****-----
 04708: *****-----
 04709: RUN#1:COMMAND#-----
 04710: R0087:CD0010----- Dtnin-ID:NHYD-----
 04711: CONTINUOUS STANDHYD 5.0 01:INF-W2 [XIMP= 55;TIME=.66]
 04712: [TIZERO = .00 hrs on 19870101]
 04713: [METCOUT = 1 (Imperial, 2=metric output)]
 04714: [INSTRNS = 0087]
 04715: #-----
 04716: #-----
 04717: #-----
 04718: #-----
 04719: # Project Name: Barrhaven Conservancy Development
 04720: # Project Number: 1474
 04721: # Modeler: J. Burnett, P.Eng.
 04722: # Updated : 2024/Mar/14 [IP]
 04723: # Company : J.F. Sabourin and Associates
 04724: # License #: 2382634
 04725: #-----
 04726: #-----
 04727: #-----
 04728: R0087:CD0002-----
 04729: # READ AEA DATA-----
 04730: #-----
 04731: [Start Date = 1987.0101; End Date = 1987.1231]
 04732: [(DT= 60; min; Length= 7344 hrs; NetHrs= 492; DryHrs= 6852; PTOT= 640.10)
 04733: Max rainfall event duration over:
 04734: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 04735: 20.00 13.90 14.03 7.05 4.87 2.46 1.84 1.40 .93 mm/hr
 04736: 19870724 19870724 19870724 19870725 19870725 19870726 19870726 date
 04737: Number of rainfall events per following interevent times:
 04738: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 04739: 100 128 < 135 74 55 49 41 28
 04740: Number of events with at least the next following durations:
 04741: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 04742: 179 94 60 < 3 0 0 0 0 0
 04743: COMPUTE API-----
 04744: [APFinl= 50.00; APInit= .900; APKdth= .9956]
 04745: [APInit= 75.76; APFinl= 21.41; APInitn= 1.18]
 04746: #-----
 04747: #-----
 04748: R0087:CD0003----- Dtnin-ID:NHYD-----
 04749: #-----
 04750: #-----
 04751: R0087:CD0004----- Dtnin-ID:NHYD-----
 04752: CONTINUOUS STANDHYD 5.0 01:INF-W2 [XIMP= 55;TIME=.66]
 04753: [LOGS= 2 ;CNM= 71.0]
 04754: [Impervious area: IApers= 4.67;SLP2=2.00:LGF= 40.;MNFI=250;SCF= .0]
 04755: [Impervious area: IAlmp= 1.57;SLP1= .50:LGI= 196.;MNFI=0.013;SCI= .0]
 04756: [IaEClipm= 1.50; iARECPer= 6.00]
 04757: [SMIN= 1.39; SMAX= 9.24; SKW= .000] -----
 04758: # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
 04759: # Assume 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 04760: # Total Volume provided by LID = 96 m³
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 04861: R0087:CD0017----- Dtnin-ID:NHYD-----
 04862: ADD HYD 5.0 02:INF-W2 [XIMP= 55;TIME=.66]
 04863: [LOGS= 2 ;CNM= 71.0]
 04864: [Impervious area: IApers= 4.67;SLP2=2.00:LGF= 40.;MNFI=250;SCF= .0]
 04865: [Impervious area: IAlmp= 1.57;SLP1= .50:LGI= 196.;MNFI=0.013;SCI= .0]
 04866: [IaEClipm= 1.50; iARECPer= 6.00]
 04867: [SMIN= 1.39; SMAX= 9.24; SKW= .000] -----
 04868: SUM-----
 04869: #-----
 04870: # Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS-----
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05041+ [SMIN= 41.38; SMAX=275.84; SKW= .030]
 05042+ # Lid for Outlet W4 (27 catchbasins, 30 m long trench each)
 05043+ # Assumed flow rate = 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05044+ # Total Volume provided by Lid = 1.86 m³
 05045+ # Soil Infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 05046+ R0088:CD0011-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05047+ ROUTE RESERVOIR > 5.0 021W-LID 10.11 .480 1988.0726_13:00 314.93 n/a .000
 05048+ out <= 5.0 01W-LID 2.77 .001 1988.0117_22:50 314.95 n/a .000
 05049+ overflow <= 5.0 01W-LID 1.64 .001 1988.0117_22:50 302.40 n/a .000
 05050+ (MnStCodes_18602-01 m3, TotDurVol=.2318E+01 m3, N-Ovr= 122, TotDurOvf= 163 hrs.)
 05051+ R0088:CD0012-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05052+ CONTINUOUS STANDHYD 5.0 01W3 0.01NSW 6.20 .285 1988.0726_13:00 302.40 .470 .000
 05053+ (XIMP=.57;TIMP=.67)
 05054+ (LOSS= 2 CNW 71.0)
 05055+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05056+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 203.;MNI=0.013;SCI= .0)
 05057+ [IaREClipm: 1.50; iARECper: 6.00)
 05058+ [SMIN= 41.38; SMAX=275.84; SKW= .030)
 05059+ # Lid for Outlet W5 (27 catchbasins, 30 m long trench each)
 05060+ # Assumed flow rate = 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05061+ # Total Volume provided by Lid = 1.86 m³
 05062+ # Soil Infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 05063+ R0088:CD0013-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05064+ ROUTE RESERVOIR > 5.0 021W-LID 6.20 .285 1988.0726_13:00 302.40 n/a .000
 05065+ out <= 5.0 01W-LID 1.11 .001 1988.0117_22:50 302.40 n/a .000
 05066+ overflow <= 5.0 01W-LID-Dot 4.50 .279 1988.0726_13:00 302.40 n/a .000
 05067+ (MnStCodes_1099E-01 m3, TotDurVol=.1362E+01 m3, N-Ovr= 122, TotDurOvf= 159 hrs.)
 05068+ R0088:CD0014-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05069+ CONTINUOUS STANDHYD 5.0 01W3 7.81 .426 1988.0726_13:00 361.36 .445 .000
 05070+ (XIMP=.71;TIMP=.81)
 05071+ (LOSS= 2 CNW 71.0)
 05072+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05073+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 228.;MNI=0.013;SCI= .0)
 05074+ [IaREClipm: 1.50; iARECper: 6.00)
 05075+ [SMIN= 41.38; SMAX=275.84; SKW= .030)
 05076+ # Lid for Outlet W6 (24 catchbasins, 30 m long trench each)
 05077+ # Assumed flow rate = 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05078+ # Total Volume provided by Lid = 1.86 m³
 05079+ # Soil Infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 05080+ R0088:CD0015-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05081+ ROUTE RESERVOIR > 5.0 021W-LID 6.20 .285 1988.0726_13:00 302.40 n/a .000
 05082+ out <= 5.0 01W-LID 2.13 .001 1988.0117_22:50 302.40 n/a .000
 05083+ overflow <= 5.0 01W-LID-Dot 1.61 .419 1988.0726_13:00 302.40 n/a .000
 05084+ (MnStCodes_1109E-01 m3, TotDurVol=.1362E+01 m3, N-Ovr= 122, TotDurOvf= 159 hrs.)
 05085+ R0088:CD0016-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05086+ ADD HYD 5.0 021W1 5.76 .299 1988.0726_13:00 295.21 n/a .000
 05087+ out <= 5.0 021W1 5.76 .299 1988.0726_13:00 295.21 n/a .000
 05088+ + 5.0 021W3 10.03 .514 1988.0726_13:00 340.15 n/a .000
 05089+ + 5.0 021W4 10.11 .480 1988.0726_13:00 314.93 n/a .000
 05090+ + 5.0 021W5 10.11 .480 1988.0726_13:00 314.93 n/a .000
 05091+ + 5.0 021W6 7.81 .426 1988.0726_13:00 361.36 n/a .000
 05092+ SUM: 5.0 01B2C-PH 48.42 2.318 1988.0726_13:00 314.36 n/a .000
 05093+ (XIMP=.71;TIMP=.81)
 05094+ ADD HYD 5.0 021W1-LID-Dot 4.26 .253 1988.0726_13:00 295.21 n/a .000
 05095+ + 5.0 021W2-LID-Dot 6.28 .345 1988.0726_13:00 273.19 n/a .000
 05096+ + 5.0 021W3-LID-Dot 7.31 .280 1988.0726_13:00 295.21 n/a .000
 05097+ + 5.0 021W4-LID-Dot 7.14 .271 1988.0726_13:00 314.93 n/a .000
 05098+ + 5.0 021W5-LID-Dot 4.35 .280 1988.0726_13:00 302.40 n/a .000
 05099+ + 5.0 021W6-LID-Dot 3.65 .271 1988.0726_13:00 302.40 n/a .000
 05100+ SUM: 5.0 01B2C-PH 31.95 .245 1988.0726_13:00 295.21 n/a .000
 05101+ # Barrhaven Conservancy Development Phase 3 WITHOUT INFILTRATION - POST DEVELOPMENT CONDITIONS
 05102+ # Total Volume provided by Lid = 1.86 m³
 05103+ # Soil Infiltration rates assumed at 9mm/hr for water balance analysis
 05104+ # *****
 05105+ R0088:CD0018-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05106+ CONTINUOUS STANDHYD 5.0 01W3 5.76 .358 1988.0917_19:00 373.39 .580 .000
 05107+ (XIMP=.57;TIMP=.66)
 05108+ (LOSS= 2 CNW 71.0)
 05109+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05110+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 196.;MNI=0.013;SCI= .0)
 05111+ [IaREClipm: 1.50; iARECper: 6.00)
 05112+ [SMIN= 1.39; SMAX= 9.24; SKW= .000)
 05113+ R0088:CD0019-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05114+ CONTINUOUS STANDHYD 5.0 01INF-N2 8.51 .511 1988.0917_19:00 359.79 .555 .000
 05115+ (XIMP=.57;TIMP=.66)
 05116+ (LOSS= 100-100-100)
 05117+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05118+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 238.;MNI=0.013;SCI= .0)
 05119+ [IaREClipm: 1.50; iARECper: 6.00)
 05120+ [SMIN= 1.39; SMAX= 9.24; SKW= .000)
 05121+ R0088:CD0021-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05122+ CONTINUOUS STANDHYD 5.0 01INF-N2 10.03 .643 1988.0917_19:00 401.25 .623 .000
 05123+ (XIMP=.66;TIMP=.76)
 05124+ (LOSS= 2 CNW 71.0)
 05125+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05126+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 259.;MNI=0.013;SCI= .0)
 05127+ [IaREClipm: 1.50; iARECper: 6.00)
 05128+ [SMIN= 1.39; SMAX= 9.24; SKW= .000)
 05129+ R0088:CD0022-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05130+ CONTINUOUS STANDHYD 5.0 01INF-N2 10.11 .632 1988.0917_19:00 398.66 .598 .000
 05131+ (XIMP=.57;TIMP=.66)
 05132+ (LOSS= 2 CNW 100-100-100)
 05133+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05134+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 260.;MNI=0.013;SCI= .0)
 05135+ [IaREClipm: 1.50; iARECper: 6.00)
 05136+ [SMIN= 1.39; SMAX= 9.24; SKW= .000)
 05137+ R0088:CD0023-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05138+ CONTINUOUS STANDHYD 5.0 01INF-N2 10.11 .632 1988.0917_19:00 384.68 n/a .000
 05139+ (XIMP=.57;TIMP=.66)
 05140+ (LOSS= 2 CNW 100-100-100)
 05141+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05142+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 228.;MNI=0.013;SCI= .0)
 05143+ [IaREClipm: 1.50; iARECper: 6.00)
 05144+ [SMIN= 1.39; SMAX= 9.24; SKW= .000)
 05145+ R0088:CD0024-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05146+ CONTINUOUS RAINFALL DATA
 05147+ ** END RUN : 88
 05148+ ***
 05149+ ****
 05150+ *****
 05151+ *****
 05152+ *****
 05153+ *****
 05154+ *****
 05155+ *****
 05156+ *****
 05157+ *****
 05158+ *****
 05159+ *****
 05160+ *****
 05161+ *****
 05162+ *****
 05163+ *****
 05164+ *****
 05165+ ** END OF RUN : 88
 05166+ ***
 05167+ ****
 05168+ *****
 05169+ *****
 05170+ *****
 05171+ *****
 05172+ *****
 05173+ RUN:#COMMAND#
 05174+ R0088:CD0021-----
 05175+ [Tzero] = 0.00 hrs on 19809101)
 05176+ [METOUT] = 2 (Imperial, 2=metric output)
 05177+ [Tzero] = 0.00 hrs on 19809101)
 05178+ [NRUN] = 0089)
 05179+ *****
 05180+ *****
 05181+ *****
 05182+ *****
 05183+ Project Name: Barrhaven Conservancy Development
 05184+ Model Number: 1.0
 05185+ Date: 2021/01/18
 05186+ Modeler : J.Burnett, P.Eng.
 05187+ Updated : 1/2024/Mar/14 [P]
 05188+ Company : Barrhaven Conservancy and Associates
 05189+ License # : 282634
 05190+ *****
 05191+ Ottawa International Airport (1987 - 2003)
 05192+ R0088:CD0022-----
 05193+ # READ ARI Data
 05194+ # YOM=1987,2007,123
 05195+ # Start_date: 1989.0101; End_date: 1989.1231
 05196+ # (DT=60_min; Length= 8040_hrs; NetArea= 422; DryHrs= 1618; PTOT= 523.20)
 05197+ # Mean daily average rainfall over entire period
 05198+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 05199+ 22.70 12.60 9.35 5.75 3.03 1.69 1.14 -.86 -.59
 05200+ 30.00 17.00 12.00 8.00 4.00 2.00 1.40 1.00 0.60
 05201+ 19890727 19890727 19890727 19890727 19891021 19891021 19891022 date
 05202+ Number of rainfall events per following interevent time
 05203+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 05204+ 151 125 108 69 67 53 42 37 29
 05205+ Number of events with at least the following durations
 05206+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 05207+ 150 131 112 91 72 52 36 20 0 0
 05208+ R0088:CD0023-----
 05209+ COMPILE ARI
 05210+ # APIline= 50,000; APIkdy= .5000; APIkdt= .9956)
 05211+ (#APImax= 55,10; AFavgy= 16,03; AFmin= .02)
 05212+ *****
 05213+ # Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
 05214+ *****
 05215+ R0088:CD0024-----Dtnin-ID:NYWD-----ARAAh-QPEAKms-TpeakDate_hh:mm:---RvNm-R.C.--DWFcms
 05216+ CONTINUOUS STANDHYD 5.0 01INF-N2 5.76 .231 1989.0726_13:00 233.88 .447 .000
 05217+ (XIMP=.55;TIMP=.66)
 05218+ (LOSS= 2 CNW 71.0)
 05219+ [Previous] area: Iapres: 4.67;SLIP=2.00;LGF= 40.;MNP=250;SCF= .0)
 05220+ [Impervious] area: IAlimp: 1.57;SLIP= .50;LGI= 196.;MNI=0.013;SCI= .0)

05401- [TZERO = 2.00 hrs on 19900101]
 05402- [INSTRNMN= 0]
 05403- [INSTRNMN= 0]
 05404- RINFO:COMMAND#
 05405- R0909:CD0001
 05406- START
 05407- # SMMWMO Ver1.02/Jan 2001 (BETA) / INPUT DATA FILE
 05408- # Project Name: Barrhaven Conservancy Development
 05409- # Project Number: 1474
 05410- # Date: 2021-Oct/18
 05411- # Modeler : J.Burnett, P.Eng.
 05412- # Address : 1501 18th Street, Unit 101P
 05413- # Company : J.F. Sabourin and Associates
 05414- # License #: 2582634
 05415- #
 05416- # TOTRAINS: 0
 05417- # OTRAINS: 0
 05418- # SWRAH: 0
 05419- #
 05420- # SWRAH: 0
 05421- # SWRAH: 0
 05422- # SWRAH: 0
 05423- # OTRAINS: 0
 05424- # SWRAH: 0
 05425- # SWRAH: 0
 05426- # SWRAH: 0
 05427- # SWRAH: 0
 05428- # SWRAH: 0
 05429- # Maximum average rainfall intensities over
 05430- # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 72 hrs
 05431- # 20.60 24.50 28.80 33.50 53.20 54.00 54.00 76.60 mm/hr
 05432- # 20.60 24.50 28.80 33.50 53.20 54.00 54.00 76.60 mm hr
 05433- # 19900720 19900828 19900828 19900720 19900720 19900720 19900723 date
 05434- # Number of rainfall events per following interevent time
 05435- # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 05436- # 204 156 141 107 84 66 56 47 33
 05437- # Number of events with at least the following durations
 05438- # 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 05439- # 203 116 77 31 6 0 0 0 0 0
 05440- R0909:CD0002
 05441- # CONMUS: API
 05442- # (APImax= 6.10; APIfavg= 23.47; APImin= 3.10)
 05443- #
 05444- #
 05445- # Barhavren Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
 05446- #
 05447- # R0909:CD0004
 05448- # CONTINUOUS STANDYND 5.0 01W1
 05449- # SWRAH: 0
 05450- # SWRAH: 0
 05451- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05452- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 196.:MMI=.013:SCI= .0)
 05453- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05454- # LID for Outlet W1 (4 catcatchbins, 30 m long trench each)
 05455- # Assumed 420 m long trench, 2.5 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05456- #
 05457- # SWRAH: 0
 05458- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05459- # R0909:CD0005
 05460- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05461- # ROUTE RESERVOIR-> 5.0 02W1
 05462- # out <= 5.0 01W1-LID-Dot 1.38 .0001 1990.0312_1715 343.66 n/a .0000
 05463- # overflow <= 5.0 01W1-LID-Dot 1.38 .202 1990.0312_1715 343.66 n/a .0000
 05464- # (MSKtOusede:1130E+01 m3, TotDwrfv: 230. hrs)
 05465- # CONTINUOUS STANDYND 5.0 01W1
 05466- # SWRAH: 0
 05467- # (LGS= 2 CIN= 71.0)
 05468- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05469- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 196.:MMI=.013:SCI= .0)
 05470- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05471- # LID for Outlet W2 (28 catcatchbins, 30 m long trench each)
 05472- # Assumed 570 m long trench, 1.5 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05473- # Total Volume provided by LID 1.31 m³
 05474- # Assumed 240 m long trench, 1.5 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05475- #
 05476- # R0909:CD0007
 05477- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05478- # ROUTE RESERVOIR-> 5.0 02W2
 05479- # out <= 5.0 01W2-LID-Dot 1.38 .0001 1990.0312_1715 318.93 n/a .0000
 05480- # overflow <= 5.0 01W2-LID-Dot 1.38 .202 1990.0312_1715 318.93 n/a .0000
 05481- # (MSKtOusede:1130E+01 m3, TotDwrfv: 230. hrs)
 05482- # CONTINUOUS STANDYND 5.0 01W2
 05483- # SWRAH: 0
 05484- # (LGS= 2 CIN= 71.0)
 05485- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05486- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 196.:MMI=.013:SCI= .0)
 05487- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05488- # LID for Outlet W3 (28 catcatchbins, 30 m long trench each)
 05489- # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05490- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05491- #
 05492- # SWRAH: 0
 05493- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05494- # R0909:CD0009
 05495- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05496- # ROUTE RESERVOIR-> 5.0 02W3
 05497- # out <= 5.0 01W3-LID-Dot 1.38 .0001 1990.0312_1715 393.93 n/a .0000
 05498- # overflow <= 5.0 01W3-LID-Dot 1.38 .202 1990.0312_1715 393.93 n/a .0000
 05499- # (MSKtOusede:1130E+01 m3, TotDwrfv: 228. hrs)
 05500- # CONTINUOUS STANDYND 5.0 01W3
 05501- # SWRAH: 0
 05502- # (LGS= 2 CIN= 71.0)
 05503- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05504- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05505- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05506- # LID for Outlet W4 (27 catcatchbins, 30 m long trench each)
 05507- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05508- #
 05509- # SWRAH: 0
 05510- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05511- # R0909:CD0010
 05512- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05513- # ROUTE RESERVOIR-> 5.0 02W4
 05514- # out <= 5.0 01W4-LID-Dot 1.38 .0001 1990.0312_1715 365.70 n/a .0000
 05515- # overflow <= 5.0 01W4-LID-Dot 1.38 .202 1990.0312_1715 365.70 n/a .0000
 05516- # (MSKtOusede:1130E+01 m3, TotDwrfv: 228. hrs)
 05517- # CONTINUOUS STANDYND 5.0 01W4
 05518- # SWRAH: 0
 05519- # (LGS= 2 CIN= 71.0)
 05520- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05521- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05522- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05523- # LID for Outlet W5 (28 catcatchbins, 30 m long trench each)
 05524- # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05525- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05526- #
 05527- # SWRAH: 0
 05528- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05529- # R0909:CD0011
 05530- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05531- # ROUTE RESERVOIR-> 5.0 02W5
 05532- # out <= 5.0 01W5-LID-Dot 1.38 .0001 1990.0312_1715 343.66 n/a .0000
 05533- # overflow <= 5.0 01W5-LID-Dot 1.38 .202 1990.0312_1715 343.66 n/a .0000
 05534- # (MSKtOusede:1130E+01 m3, TotDwrfv: 227. hrs)
 05535- # CONTINUOUS STANDYND 5.0 01W5
 05536- # SWRAH: 0
 05537- # (LGS= 2 CIN= 71.0)
 05538- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05539- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05540- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05541- # LID for Outlet W6 (28 catcatchbins, 30 m long trench each)
 05542- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05543- #
 05544- # SWRAH: 0
 05545- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05546- # R0909:CD0012
 05547- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05548- # SWRAH: 0
 05549- # SWRAH: 0
 05550- # ADD HYD
 05551- # (LGS= 2 CIN= 71.0)
 05552- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05553- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05554- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05555- # LID for Outlet W7 (28 catcatchbins, 30 m long trench each)
 05556- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05557- #
 05558- # SWRAH: 0
 05559- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05560- # R0909:CD0013
 05561- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05562- # ROUTE RESERVOIR-> 5.0 02W6
 05563- # out <= 5.0 01W6-LID-Dot 1.38 .0001 1990.0312_1715 347.73 n/a .0000
 05564- # overflow <= 5.0 01W6-LID-Dot 1.38 .202 1990.0312_1715 347.73 n/a .0000
 05565- # (MSKtOusede:1130E+01 m3, TotDwrfv: 227. hrs)
 05566- # CONTINUOUS STANDYND 5.0 01W6
 05567- # SWRAH: 0
 05568- # (LGS= 2 CIN= 71.0)
 05569- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05570- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05571- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05572- # LID for Outlet W8 (28 catcatchbins, 30 m long trench each)
 05573- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05574- #
 05575- # SWRAH: 0
 05576- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05577- # R0909:CD0014
 05578- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05579- # CONTINUOUS STANDYND 5.0 01W7
 05580- # SWRAH: 0
 05581- # (LGS= 2 CIN= 71.0)
 05582- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05583- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05584- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05585- # LID for Outlet W9 (28 catcatchbins, 30 m long trench each)
 05586- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05587- #
 05588- # SWRAH: 0
 05589- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05590- # R0909:CD0015
 05591- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05592- # SWRAH: 0
 05593- # SWRAH: 0
 05594- # ADD HYD
 05595- # (LGS= 2 CIN= 71.0)
 05596- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05597- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05598- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05599- # LID for Outlet W10 (28 catcatchbins, 30 m long trench each)
 05600- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05601- #
 05602- # SWRAH: 0
 05603- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05604- # R0909:CD0016
 05605- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05606- # SWRAH: 0
 05607- # SWRAH: 0
 05608- # ADD HYD
 05609- # (LGS= 2 CIN= 71.0)
 05610- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05611- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05612- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05613- # LID for Outlet W11 (28 catcatchbins, 30 m long trench each)
 05614- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05615- #
 05616- # SWRAH: 0
 05617- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05618- # R0909:CD0017
 05619- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05620- # SWRAH: 0
 05621- # SWRAH: 0
 05622- # ADD HYD
 05623- # (LGS= 2 CIN= 71.0)
 05624- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05625- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05626- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05627- # LID for Outlet W12 (28 catcatchbins, 30 m long trench each)
 05628- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05629- #
 05630- # SWRAH: 0
 05631- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05632- # R0909:CD0018
 05633- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05634- # SWRAH: 0
 05635- # SWRAH: 0
 05636- # ADD HYD
 05637- # (LGS= 2 CIN= 71.0)
 05638- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05639- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05640- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05641- # LID for Outlet W13 (28 catcatchbins, 30 m long trench each)
 05642- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05643- #
 05644- # SWRAH: 0
 05645- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05646- # R0909:CD0019
 05647- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05648- # SWRAH: 0
 05649- # SWRAH: 0
 05650- # ADD HYD
 05651- # (LGS= 2 CIN= 71.0)
 05652- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05653- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05654- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05655- # LID for Outlet W14 (28 catcatchbins, 30 m long trench each)
 05656- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05657- #
 05658- # SWRAH: 0
 05659- # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 05660- # R0909:CD0020
 05661- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05662- # SWRAH: 0
 05663- # SWRAH: 0
 05664- # ADD HYD
 05665- # (LGS= 2 CIN= 71.0)
 05666- # (Previous area: Iapres: 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0)
 05667- # (Impervious area: Ialimp: 1.57:SLPI= .50:LGI= 203.:MMI=.013:SCI= .0)
 05668- # (SMIN= 41.38: SMAX=275.84: SK= .030)
 05669- # LID for Outlet W15 (28 catcatchbins, 30 m long trench each)
 05670- # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05671- #
 05672- # SWRAH: 0
 05673- # COMPUTE API
 05674- # (APImax= 6.10; APIfavg= 23.47; APImin= 3.10)
 05675- # (APImax= 72.80; APIfavg= 16.88; APImin= .26)
 05676- #
 05677- # CONMUS: API
 05678- # SWRAH: 0
 05679- # R0909:CD0021
 05680- # DRAIN-ID:NYHY---ARSAh-QPEAKms-TpeakDate_hh:mm---RVNm-R.C.--DWFcms
 05681- # SWRAH: 0
 05682- # SWRAH: 0
 05683- # SWRAH: 0
 05684- # SWRAH: 0
 05685- # SWRAH: 0
 05686- # SWRAH: 0
 05687- # SWRAH: 0
 05688- # SWRAH: 0
 05689- # SWRAH: 0
 05690- # SWRAH: 0
 05691- # SWRAH: 0
 05692- # SWRAH: 0
 05693- # SWRAH: 0
 05694- # SWRAH: 0
 05695- # SWRAH: 0
 05696- # SWRAH: 0
 05697- # SWRAH: 0
 05698- # SWRAH: 0
 05699- # SWRAH: 0
 05700- # SWRAH: 0
 05701- # SWRAH: 0
 05702- # SWRAH: 0
 05703- # SWRAH: 0
 05704- # SWRAH: 0
 05705- # SWRAH: 0
 05706- # SWRAH: 0
 05707- # SWRAH: 0
 05708- # SWRAH: 0
 05709- # SWRAH: 0
 05710- # SWRAH: 0
 05711- # SWRAH: 0
 05712- # SWRAH: 0
 05713- # SWRAH: 0
 05714- # SWRAH: 0
 05715- # SWRAH: 0
 05716- # SWRAH: 0
 05717- # SWRAH: 0
 05718- # SWRAH: 0
 05719- # SWRAH: 0
 05720- # SWRAH: 0
 05721- # SWRAH: 0
 05722- # SWRAH: 0
 05723- # SWRAH: 0
 05724- # SWRAH: 0
 05725- # SWRAH: 0
 05726- # SWRAH: 0
 05727- # SWRAH: 0
 05728- # SWRAH: 0
 05729- # SWRAH: 0
 05730- # SWRAH: 0
 05731- # SWRAH: 0
 05732- # SWRAH: 0
 05733- # SWRAH: 0
 05734- # SWRAH: 0
 05735- # SWRAH: 0
 05736- # SWRAH: 0
 05737- # SWRAH: 0
 05738- # SWRAH: 0
 05739- # SWRAH: 0
 05740- # SWRAH: 0
 05741- # SWRAH: 0
 05742- # SWRAH: 0
 05743- # SWRAH: 0
 05744- # SWRAH: 0
 05745- # SWRAH: 0
 05746- # SWRAH: 0
 05747- # SWRAH: 0
 05748- # SWRAH: 0
 05749- # SWRAH: 0
 05750- # SWRAH: 0
 05751- # SWRAH: 0
 05752- # SWRAH: 0
 05753- # SWRAH: 0
 05754- # SWRAH: 0
 05755- # SWRAH: 0
 05756- # SWRAH: 0
 05757- # SWRAH: 0
 05758- # SWRAH: 0
 05759- # SWRAH: 0
 05760- # SWRAH: 0
 05761- # SWRAH: 0
 05762- # SWRAH: 0
 05763- # SWRAH: 0
 05764- # SWRAH: 0
 05765- # SWRAH: 0
 05766- # SWRAH: 0
 05767- # SWRAH: 0
 05768- # SWRAH: 0
 05769- # SWRAH: 0
 05770- # SWRAH: 0
 05771- # SWRAH: 0
 05772- # SWRAH: 0
 05773- # SWRAH: 0
 05774- # SWRAH: 0
 05775- # SWRAH: 0
 05776- # SWRAH: 0
 05777- # SWRAH: 0
 05778- # SWRAH: 0
 05779- # SWRAH: 0
 05780- # SWRAH: 0
 05781- # SWRAH: 0
 05782- # SWRAH: 0
 05783- # SWRAH: 0
 05784- # SWRAH: 0
 05785- # SWRAH: 0
 05786- # SWRAH: 0
 05787- # SWRAH: 0
 05788- # SWRAH: 0
 05789- # SWRAH: 0
 05790- # SWRAH: 0
 05791- # SWRAH: 0
 05792- # SWRAH: 0
 05793- # SWRAH: 0
 05794- # SWRAH: 0
 05795- # SWRAH: 0
 05796- # SWRAH: 0
 05797- # SWRAH: 0
 05798- # SWRAH: 0
 05799- # SWRAH: 0
 05800- # SWRAH: 0
 05801- # SWRAH: 0
 05802- # SWRAH: 0
 05803- # SWRAH: 0
 05804- # SWRAH: 0
 05805- # SWRAH: 0
 05806- # SWRAH: 0
 05807- # SWRAH: 0
 05808- # SWRAH: 0
 05809- # SWRAH: 0
 05810- # SWRAH: 0
 05811- # SWRAH: 0
 05812- # SWRAH: 0
 05813- # SWRAH: 0
 05814- # SWRAH: 0
 05815-

05761# out <= 5.0 03:W5-LID-Out 1.95 .001 1991.0302_6:45 258.64 n/a .000
 05762# covered<= 5.0 03:W5-LID-Out 1.28 .001 1991.0302_6:45 258.64 n/a .000
 05763# [MastGatede...1100E-01 m3, TotVolV=1.100E+01 m3, N=0, TotHr=1.100E+00 hr]
 05764# RO091:CO0014-----Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05765# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .192 1991.0410_3:00 311.26 .560 .000
 05766# [LLOSS= 2 CNW 71.0]
 05767# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05768# [SMIN= 41.38 :SMAX=275.84: SK= .000]
 05769# LID for outlet W4 (24 catchbasins, 30 m long trench each)
 05770# Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05771# Total Volume provided by LID = 165 'm'
 05772# ADD HYD
 05773# LID infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 05774# Total Volume provided by LID = 99mm/hr with a safety factor of 2.5
 05775# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05776# ROUTE RESERVOIR--> 5.0 02:W6 7.81 .192 1991.0410_3:00 311.27 n/a .000
 05777# out <= 5.0 01:W6-LID-Out 2.45 .001 1991.0410_3:00 258.64 n/a .000
 05778# covered<= 5.0 01:W6-LID-Out 1.16 .001 1991.0410_3:00 258.64 n/a .000
 05779# [MastGatede...1149E-01 m3, TotVolV=1.668E+01 m3, N=0, TotHr=186 hrs]
 05780# ADD HYD NYD
 05781# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05782# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .192 1991.0410_3:00 252.05 n/a .000
 05783# [LLOSS= 2 CNW 71.0]
 05784# + 5.0 02:W2 8.51 .167 1991.0410_3:00 232.57 n/a .000
 05785# + 5.0 02:W3 10.3 .192 1991.0410_3:00 232.57 n/a .000
 05786# + 5.0 02:W4 6.20 .194 1991.0410_3:00 258.64 n/a .000
 05787# + 5.0 02:W5 7.81 .192 1991.0410_3:00 311.27 n/a .000
 05788# SUM-----5.0 01:INF-W 33.44 1.040 1991.0410_3:00 270.96 n/a .000
 05789# [SMIN= 41.38 :SMAX=275.84: SK= .000]
 05790# ADD NYD
 05791# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05792# CONTINUOUS STANDHY 5.0 01:INF-W 4.04 .119 1991.0410_3:00 252.05 n/a .000
 05793# [LLOSS= 2 CNW 71.0]
 05794# + 5.0 02:W1 8.51 .167 1991.0410_3:00 252.05 n/a .000
 05795# + 5.0 02:W2 10.3 .192 1991.0410_3:00 252.05 n/a .000
 05796# + 5.0 02:W3 6.20 .194 1991.0410_3:00 258.64 n/a .000
 05797# + 5.0 02:W4 7.81 .192 1991.0410_3:00 311.27 n/a .000
 05798# + 5.0 02:W5 8.41 .192 1991.0410_3:00 252.05 n/a .000
 05799# [LLOSS= 2 CNW 71.0]
 05800# ADD NYD NYD
 05801# See infiltration to 0 (CN = 99.99) for water balance analysis
 05802# Dtn-ID:CO0018-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05803# CONTINUOUS STANDHY 5.0 01:INF-W 5.76 .163 1991.0409_3:00 317.67 .571 .000
 05804# [LLOSS= 2 CNW 71.0]
 05805# [LLOSS= 2 CNW 71.0]
 05806# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05807# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 196.:MNP=0.013:SCP= .0]
 05808# [iREClipm= 1.50! iARECper= 6.00]
 05809# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05810# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05811# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .231 1991.0409_1:00 302.66 .544 .000
 05812# [XIMP= 50.71:IMW= .60]
 05813# [LLOSS= 2 CNW 100.0]
 05814# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05815# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05816# [iREClipm= 1.50! iARECper= 6.00]
 05817# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05818# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05819# CONTINUOUS STANDHY 5.0 01:INF-W 10.03 .290 1991.0409_1:00 344.17 .619 .000
 05820# [XIMP= 64.71:IMW= .70]
 05821# [LLOSS= 2 CNW 100.0]
 05822# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05823# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05824# [iREClipm= 1.50! iARECper= 6.00]
 05825# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05826# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05827# CONTINUOUS STANDHY 5.0 01:INF-W 10.11 .285 1991.0409_1:00 328.48 .591 .000
 05828# [XIMP= 60.71:IMW= .70]
 05829# [LLOSS= 2 CNW 100.0]
 05830# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05831# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 260.:MNP=0.013:SCP= .0]
 05832# [iREClipm= 1.50! iARECper= 6.00]
 05833# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05834# Dtn-ID:CO0022-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05835# CONTINUOUS STANDHY 5.0 01:INF-W 6.20 .176 1991.0409_1:00 320.69 .577 .000
 05836# [XIMP= 57.71:IMW= .67]
 05837# [LLOSS= 2 CNW 100.0]
 05838# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05839# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 203.:MNP=0.013:SCP= .0]
 05840# [iREClipm= 1.50! iARECper= 6.00]
 05841# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05842# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05843# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .232 1991.0409_1:00 357.50 .643 .000
 05844# [LLOSS= 2 CNW 100.0]
 05845# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05846# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05847# [iREClipm= 1.50! iARECper= 6.00]
 05848# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05849# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05850# CONTINUOUS STANDHY 5.0 01:INF-W 10.11 .285 1991.0409_1:00 328.48 .591 .000
 05851# [LLOSS= 2 CNW 100.0]
 05852# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05853# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05854# [iREClipm= 1.50! iARECper= 6.00]
 05855# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05856# Dtn-ID:CO0022-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05857# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .231 1991.0409_1:00 302.66 .544 .000
 05858# [LLOSS= 2 CNW 100.0]
 05859# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05860# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05861# [iREClipm= 1.50! iARECper= 6.00]
 05862# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05863# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05864# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .231 1991.0409_1:00 344.17 .619 .000
 05865# [LLOSS= 2 CNW 100.0]
 05866# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05867# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05868# [iREClipm= 1.50! iARECper= 6.00]
 05869# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05870# ADD NYD
 05871# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05872# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .231 1991.0409_1:00 328.48 .591 .000
 05873# [LLOSS= 2 CNW 100.0]
 05874# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05875# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05876# [iREClipm= 1.50! iARECper= 6.00]
 05877# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05878# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05879# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .231 1991.0409_1:00 302.66 .544 .000
 05880# [LLOSS= 2 CNW 100.0]
 05881# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05882# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05883# [iREClipm= 1.50! iARECper= 6.00]
 05884# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05885# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05886# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .231 1991.0409_1:00 344.17 .619 .000
 05887# [LLOSS= 2 CNW 100.0]
 05888# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05889# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05890# [iREClipm= 1.50! iARECper= 6.00]
 05891# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05892# ADD NYD NYD
 05893# See infiltration to 0 (CN = 99.99) for water balance analysis
 05894# Dtn-ID:CO0018-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05895# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .192 1991.0409_1:00 344.17 .619 .000
 05896# [LLOSS= 2 CNW 100.0]
 05897# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05898# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05899# [iREClipm= 1.50! iARECper= 6.00]
 05900# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05901# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05902# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .192 1991.0409_1:00 328.48 .591 .000
 05903# [LLOSS= 2 CNW 100.0]
 05904# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05905# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05906# [iREClipm= 1.50! iARECper= 6.00]
 05907# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05908# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05909# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .192 1991.0409_1:00 328.48 .591 .000
 05910# [LLOSS= 2 CNW 100.0]
 05911# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05912# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05913# [iREClipm= 1.50! iARECper= 6.00]
 05914# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05915# Dtn-ID:CO0018-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05916# CONTINUOUS STANDHY 5.0 01:INF-W 7.81 .192 1991.0409_1:00 344.17 .619 .000
 05917# [LLOSS= 2 CNW 100.0]
 05918# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05919# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 228.:MNP=0.013:SCP= .0]
 05920# [iREClipm= 1.50! iARECper= 6.00]
 05921# [SMIN= 1.39 :SMAX= 9.24: SK= .000]
 05922# Total Volume provided by LID = 96 'm'
 05923# ADD HYD
 05924# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05925# ROUTE RESERVOIR--> 5.0 02:W1 8.78 .373 1992.0804_1:40 356.10 .486 .000
 05926# out <= 5.0 01:W1-LID-Out 1.38 .001 1992.0104_21:50 356.11 n/a .000
 05927# covered<= 5.0 02:W1-LID-Out 1.41 .361 1992.0104_21:50 356.11 n/a .000
 05928# [MastGatede...9.88E-02 m3, TotVolV=1.57E+01 m3, N=26, TotHr=1.57E+01 hr]
 05929# Dtn-ID:CO0006-----Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms
 05930# CONTINUOUS STANDHY 5.0 01:INF-W 8.51 .519 1992.0804_1:40 331.08 .452 .000
 05931# [LLOSS= 2 CNW 60.0]
 05932# [Fervous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCP= .0]
 05933# [Impervious area: Iapres 1.57:SLPP= .50:LGF= 238.:MNP=0.013:SCP= .0]
 05934# [iREClipm= 1.50! iARECper= 6.00]
 05935# [SMIN= 41.38 :SMAX=275.84: SK= .000]
 05936# LID for outlet W4 (14 catchbasins, 30 m long trench each)
 05937# Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 05938# Total Volume provided by LID = 131 'm'
 05939# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
 05940# Dtn-ID:INHYD-----ARAh-a-QPEAKms-TpeakDate_hh:mm----RvNm-R.C.--DWFcms

06122+ * REA8S DATA
[Filename = YOM_1967_2007_123] 1
06123+ [Date=1967-01-01;End Date=1993-01-01;Water=1993-12-31]
06124+ (DT= 60:min; Length= 8760:hrs; Wethrs= 585; DryHrs= 8175; PTO= 721.30)
06125+ Maximum average rainfall intensities over
06126+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
06127+ 12.60 6.60 3.83 3.72 3.58 2.31 1.61 1.21 .81 mm/hr
06128+ 12.60 13.20 14.50 22.30 43.00 55.50 58.10 58.10 mm
06129+ 19930703 0000 19930703 0000 19930703 0000 19930703 0000 19930703 0000
06130+ Number of rainfall events per following interevent time
06131+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
06132+ 1.91 1.154 1.191 1.154 1.191 1.154 1.191 1.154 1.191
06133+ Number of events with at least the following durations
06134+ 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
06135+ 1.90 1.118 27 7 2 0 0 0 0
R0931:CO0003:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06136+ COMPUTE API
06137+ [APIfnl= 50.00:min; APIIdy= .8000; APIKdn= .9956]
06138+ [INM1= 1.39; SMAX=.924; SKW=.000]
06139+ [INM2= 1.39; SMAX=.924; SKW=.000]
06140+ #-----
06141+ * Barrhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
06142+ #-----
06143+ R0931:CO0004:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06144+ CONTINUOUS STANDHY 5.0 01:INF- 5.76 .113 1993.0703_9:00 330.14 .458 .000
06145+ [ROUTE= 5.0 01:INF-LID
06146+ (LLOS= 2 :CNW 71.00)
06147+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06148+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 196.:MNI=013:SCI= .0]
06149+ [iaREClip= 1.50: iAREPcr= 6.00]
06150+ [SMIN= 41.38; SMAX=275.84; SKW=.030]
06151+ # LID for Outlet W3 (28 catchbasins, 30 m long trench each)
06152+ # Assumed 420 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06153+ # Total Volume provided by LID = 96 m³
06154+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06155+ R0931:CO0005:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06156+ ROUTE RESERVOIR -> 5.0 02:INF
06157+ out <= 5.0 01:INF-LID
06158+ overflow <= 5.0 03:INF-LID-Out
06159+ (MNGt:clseid=.9936-E02 m3, TotCrvVol=.1598-E01 m3, N_Ovr= 150, TotDrvRf= 232, hrs)
06160+ R0931:CO0010:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06161+ CONTINUOUS STANDHY 5.0 01:INF- 8.51 .150 1993.0703_9:00 304.80 .423 .000
06162+ (XIM=50.01:INF- .60)
06163+ [LLOS= 2 :CNW 71.00]
06164+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06165+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 238.:MNI=013:SCI= .0]
06166+ [iaREClip= 1.50: iAREPcr= 6.00]
06167+ # LID for Outlet W4 (28 catchbasins, 30 m long trench each)
06168+ # Assumed 570 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06169+ # Total Volume provided by LID = 113 m³
06170+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06171+ R0931:CO0007:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06172+ ROUTE RESERVOIR -> 5.0 02:INF
06173+ out <= 5.0 01:INF-LID
06174+ overflow <= 5.0 03:INF-LID-Out
06175+ (MNGt:clseid=.1130-E02 m3, TotCrvVol=.1847-E01 m3, N_Ovr= 150, TotDrvRf= 232, hrs)
06176+ R0931:CO0011:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06177+ CONTINUOUS STANDHY 5.0 01:INF- 10.03 .229 1993.0703_9:00 382.29 .530 .000
06178+ (XIM=50.01:INF- .60)
06179+ [LLOS= 2 :CNW 71.00]
06180+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06181+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 259.:MNI=013:SCI= .0]
06182+ [iaREClip= 1.50: iAREPcr= 6.00]
06183+ [SMIN= 41.38; SMAX=275.84; SKW=.030]
06184+ # LID for Outlet W5 (28 catchbasins, 30 m long trench each)
06185+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06186+ # Total Volume provided by LID = 186 m³
06187+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06188+ R0931:CO0011:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06189+ ROUTE RESERVOIR -> 5.0 02:INF
06190+ out <= 5.0 01:INF-LID
06191+ overflow <= 5.0 03:INF-LID-Out
06192+ (MNGt:clseid=.1309-E02 m3, TotCrvVol=.208-E01 m3, N_Ovr= 150, TotDrvRf= 229, hrs)
06193+ R0931:CO0010:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06194+ CONTINUOUS STANDHY 5.0 01:INF- 10.11 .211 1993.0703_9:00 353.08 .490 .000
06195+ (XIM=50.01:INF- .70)
06196+ [LLOS= 2 :CNW 71.00]
06197+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06198+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 260.:MNI=013:SCI= .0]
06199+ [iaREClip= 1.50: iAREPcr= 6.00]
06200+ # LID for Outlet W6 (28 catchbasins, 30 m long trench each)
06201+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06202+ # Total Volume provided by LID = 186 m³
06203+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06204+ R0931:CO0011:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06205+ ROUTE RESERVOIR -> 5.0 02:INF
06206+ out <= 5.0 01:INF-LID
06207+ overflow <= 5.0 03:INF-LID-Out
06208+ (MNGt:clseid=.1309-E02 m3, TotCrvVol=.208-E01 m3, N_Ovr= 150, TotDrvRf= 229, hrs)
06209+ R0931:CO0014:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06210+ CONTINUOUS STANDHY 5.0 01:INF- 6.29 .125 1993.0703_9:00 338.97 .469 .000
06211+ (XIM=50.01:INF- .67)
06212+ [LLOS= 2 :CNW 71.00]
06213+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06214+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 203.:MNI=013:SCI= .0]
06215+ [iaREClip= 1.50: iAREPcr= 6.00]
06216+ # LID for Outlet W7 (28 catchbasins, 30 m long trench each)
06217+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06218+ # Total Volume provided by LID = 186 m³
06219+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06220+ R0931:CO0011:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06221+ ROUTE RESERVOIR -> 5.0 02:INF
06222+ out <= 5.0 01:INF-LID
06223+ overflow <= 5.0 03:INF-LID-Out
06224+ (MNGt:clseid=.1309-E02 m3, TotCrvVol=.208-E01 m3, N_Ovr= 150, TotDrvRf= 229, hrs)
06225+ R0931:CO0014:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06226+ CONTINUOUS STANDHY 5.0 01:INF- 7.81 .195 1993.0703_9:00 406.85 .564 .000
06227+ (XIM=50.01:INF- .70)
06228+ [LLOS= 2 :CNW 71.00]
06229+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06230+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 228.:MNI=013:SCI= .0]
06231+ [iaREClip= 1.50: iAREPcr= 6.00]
06232+ # LID for Outlet W8 (28 catchbasins, 30 m long trench each)
06233+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06234+ # Total Volume provided by LID = 186 m³
06235+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06236+ R0931:CO0011:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06237+ ROUTE RESERVOIR -> 5.0 02:INF
06238+ out <= 5.0 01:INF-LID
06239+ overflow <= 5.0 03:INF-LID-Out
06240+ (MNGt:clseid=.1309-E02 m3, TotCrvVol=.208-E01 m3, N_Ovr= 150, TotDrvRf= 229, hrs)
06241+ R0931:CO0014:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06242+ CONTINUOUS STANDHY 5.0 01:INF- 6.29 .125 1993.0703_9:00 338.97 .469 .000
06243+ (XIM=50.01:INF- .67)
06244+ [LLOS= 2 :CNW 71.00]
06245+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06246+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 238.:MNI=013:SCI= .0]
06247+ [iaREClip= 1.50: iAREPcr= 6.00]
06248+ # LID for Outlet W9 (28 catchbasins, 30 m long trench each)
06249+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06250+ # Total Volume provided by LID = 186 m³
06251+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06252+ R0931:CO0011:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06253+ ROUTE RESERVOIR -> 5.0 02:INF
06254+ out <= 5.0 01:INF-LID
06255+ overflow <= 5.0 03:INF-LID-Out
06256+ (MNGt:clseid=.1309-E02 m3, TotCrvVol=.208-E01 m3, N_Ovr= 150, TotDrvRf= 229, hrs)
06257+ R0931:CO0014:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06258+ CONTINUOUS STANDHY 5.0 01:INF- 6.29 .125 1993.0703_9:00 338.97 .469 .000
06259+ (XIM=50.01:INF- .67)
06260+ [LLOS= 2 :CNW 71.00]
06261+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06262+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 238.:MNI=013:SCI= .0]
06263+ [iaREClip= 1.50: iAREPcr= 6.00]
06264+ # LID for Outlet W10 (28 catchbasins, 30 m long trench each)
06265+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06266+ # Total Volume provided by LID = 186 m³
06267+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06268+ R0931:CO0018:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06269+ CONTINUOUS STANDHY 5.0 01:INF-WI 5.76 .144 1993.0703_9:00 415.48 .576 .000
06270+ (XIM=55.01:INF-WI .66)
06271+ [LLOS= 2 :CNW 100.00]
06272+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06273+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 238.:MNI=013:SCI= .0]
06274+ [iaREClip= 1.50: iAREPcr= 6.00]
06275+ # LID for Outlet W11 (28 catchbasins, 30 m long trench each)
06276+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06277+ # Total Volume provided by LID = 186 m³
06278+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06279+ R0931:CO0018:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06280+ CONTINUOUS STANDHY 5.0 01:INF-WI 5.76 .144 1993.0703_9:00 415.48 .576 .000
06281+ (XIM=55.01:INF-WI .66)
06282+ [LLOS= 2 :CNW 100.00]
06283+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06284+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 238.:MNI=013:SCI= .0]
06285+ [iaREClip= 1.50: iAREPcr= 6.00]
06286+ # LID for Outlet W12 (28 catchbasins, 30 m long trench each)
06287+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06288+ # Total Volume provided by LID = 186 m³
06289+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06290+ R0931:CO0020:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06291+ CONTINUOUS STANDHY 5.0 01:INF-WI 5.76 .144 1993.0703_9:00 396.17 .549 .000
06292+ (XIM=50.01:INF-WI .70)
06293+ [LLOS= 2 :CNW 100.00]
06294+ [Fervous area: Iapres= 4.67:SLPP=2.00:LGF= 40.:MNP=250:SCF= .0]
06295+ [Impervious area: Ialimp= 1.57:SLP1=.50:LGI= 238.:MNI=013:SCI= .0]
06296+ [iaREClip= 1.50: iAREPcr= 6.00]
06297+ # LID for Outlet W13 (28 catchbasins, 30 m long trench each)
06298+ # Assumed 810 m long trench, 1.25 m wide, porosity of 0.40 with 250 mm diameter perforated pipe
06299+ # Total Volume provided by LID = 186 m³
06300+ # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
06301+ R0931:CO0022:--Dtn-ID:NYHD---ARA8s-QPEAKms-TpeakData_hh:mm::--RvNm-R.C.--DWFcms
06302+ CONTINUOUS STANDHY 5.0 01:INF-WI 6.20 .152 1993.0703_9:00 419.30 .581 .000
06303+ (XIM=57.01:INF-WI .67)

07561# # Assume 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07562# Total Volume provided by LID = 131 m³
07563# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07564# RO099:CO0007-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07565# ROUTE RESERVOIR > 5.0 02:WZ 8.51 .223 1999.0717_15:00 180.18 n/a .000
07566# overflow <= 5.0 03:WZ-LID-Out 4.51 .220 1999.0717_15:00 180.18 n/a .000
07567# [MgSt:Osdeh..1130E+01 m3, TotCrVol=.1173E+01 m3, N-Ovr= 90, TotTurOrf= 104, hrs] .000
07568# RO099:CO0008-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07569# CONTINUOUS STANDHYD 5.0 01:WZ 10.03 .389 1999.0717_15:00 227.38 .596 .000
07570# (XIMN= .66:TIME= .76)
07571# ***** END OF RUN 1 99*****
07572# ***** 2 ICN= 0*****
07573# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07574# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 259.:MMI= 013:SCI= .0]
07575# [IaECimp= 1.50: IaRepCrep= 6.00]
07576# [SMIN= 1.39: SMAX= 2.38: SK= .000]
07577# # LID for Outlet W4 (28 catchbasins, 30 m long trench each)
07578# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07579# Total Volume provided by LID = 131 m³
07580# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07581# RO099:CO0009-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07582# ROUTE RESERVOIR > 5.0 02:WZ 8.40 .223 1999.0717_15:00 227.38 n/a .000
07583# overflow <= 5.0 03:WZ-LID-Out 2.40 .001 1999.0508_17:45 227.58 n/a .000
07584# [MgSt:Osdeh..1130E+01 m3, TotCrVol=.1173E+01 m3, N-Ovr= 84, TotTurOrf= 98, hrs] .000
07585# RO099:CO0010-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07586# CONTINUOUS STANDHYD 5.0 01:WZ 10.11 .311 1999.0717_15:00 209.73 .494 .000
07587# (LGS= 2 ICN= 71.0)
07588# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07589# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 260.:MMI= 013:SCI= .0]
07590# [IaECimp= 1.50: IaRepCrep= 6.00]
07591# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07592# # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
07593# # Assume 910 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07594# Total Volume provided by LID = 186 m³
07595# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07596# RO099:CO0011-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07597# ROUTE RESERVOIR > 5.0 02:WZ 10.11 .311 1999.0717_15:00 209.73 n/a .000
07598# overflow <= 5.0 03:WZ-LID-Out 2.40 .001 1999.0508_17:45 209.73 n/a .000
07599# [MgSt:Osdeh..1130E+01 m3, TotCrVol=.1173E+01 m3, N-Ovr= 84, TotTurOrf= 101, hrs] .000
07600# (XIMN= .66:TIME= .76)
07601# (LGS= 2 ICN= 71.0)
07602# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07603# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 165E+00 m3, N-Ovr= 96, TotTurOrf= 98, hrs] .000
07604# [IaECimp= 1.50: IaRepCrep= 6.00]
07605# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07606# # LID for Outlet W6 (16 catchbasins, 30 m long trench each)
07607# # Assume 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07608# Total Volume provided by LID = 186 m³
07609# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07610# RO099:CO0012-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07611# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 242.49 .572 .000
07612# (LGS= 2 ICN= 71.0)
07613# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07614# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07615# [IaECimp= 1.50: IaRepCrep= 6.00]
07616# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07617# # LID for Outlet W7 (16 catchbasins, 30 m long trench each)
07618# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07619# Total Volume provided by LID = 165 m³
07620# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07621# RO099:CO0013-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07622# ROUTE RESERVOIR > 5.0 02:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07623# overflow <= 5.0 03:WZ-LID-Out 1.51 .001 1999.0508_17:45 200.84 n/a .000
07624# [MgSt:Osdeh..1130E+01 m3, TotCrVol=.1173E+01 m3, N-Ovr= 96, TotTurOrf= 98, hrs] .000
07625# (XIMN= .66:TIME= .76)
07626# (LGS= 2 ICN= 71.0)
07627# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07628# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 220.84 n/a .000]
07629# [IaECimp= 1.50: IaRepCrep= 6.00]
07630# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07631# # LID for Outlet W8 (24 catchbasins, 30 m long trench each)
07632# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07633# Total Volume provided by LID = 165 m³
07634# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07635# RO099:CO0014-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07636# ADD HVD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07637# (LGS= 2 ICN= 71.0)
07638# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07639# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 220.84 n/a .000]
07640# [IaECimp= 1.50: IaRepCrep= 6.00]
07641# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07642# # LID for Outlet W9 (24 catchbasins, 30 m long trench each)
07643# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07644# Total Volume provided by LID = 165 m³
07645# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07646# RO099:CO0015-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07647# ROUTE RESERVOIR > 5.0 02:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07648# overflow <= 5.0 03:WZ-LID-Out 1.89 .001 1999.0508_17:45 200.84 n/a .000
07649# [MgSt:Osdeh..1130E+01 m3, TotCrVol=.1173E+01 m3, N-Ovr= 96, TotTurOrf= 98, hrs] .000
07650# (XIMN= .66:TIME= .76)
07651# (LGS= 2 ICN= 71.0)
07652# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07653# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 108E+00 m3, N-Ovr= 96, TotTurOrf= 98, hrs] .000
07654# [IaECimp= 1.50: IaRepCrep= 6.00]
07655# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07656# # LID for Outlet W10 (24 catchbasins, 30 m long trench each)
07657# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07658# Total Volume provided by LID = 165 m³
07659# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07660# RO099:CO0016-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07661# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07662# (LGS= 2 ICN= 71.0)
07663# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07664# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07665# [IaECimp= 1.50: IaRepCrep= 6.00]
07666# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07667# # LID for Outlet W11 (24 catchbasins, 30 m long trench each)
07668# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07669# Total Volume provided by LID = 165 m³
07670# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07671# RO099:CO0017-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07672# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07673# (LGS= 2 ICN= 71.0)
07674# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07675# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07676# [IaECimp= 1.50: IaRepCrep= 6.00]
07677# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07678# # LID for Outlet W12 (24 catchbasins, 30 m long trench each)
07679# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07680# Total Volume provided by LID = 165 m³
07681# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07682# RO099:CO0018-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07683# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07684# (LGS= 2 ICN= 71.0)
07685# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07686# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07687# [IaECimp= 1.50: IaRepCrep= 6.00]
07688# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07689# # LID for Outlet W13 (24 catchbasins, 30 m long trench each)
07690# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07691# Total Volume provided by LID = 165 m³
07692# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07693# RO099:CO0019-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07694# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07695# (LGS= 2 ICN= 71.0)
07696# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07697# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07698# [IaECimp= 1.50: IaRepCrep= 6.00]
07699# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07700# # LID for Outlet W14 (24 catchbasins, 30 m long trench each)
07701# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07702# Total Volume provided by LID = 165 m³
07703# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07704# RO099:CO0020-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07705# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07706# (LGS= 2 ICN= 71.0)
07707# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07708# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07709# [IaECimp= 1.50: IaRepCrep= 6.00]
07710# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07711# # LID for Outlet W15 (24 catchbasins, 30 m long trench each)
07712# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07713# Total Volume provided by LID = 165 m³
07714# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07715# RO099:CO0022-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07716# CONTINUOUS STANDHYD 5.0 01:WZ 7.81 .283 1999.0717_15:00 227.58 n/a .000
07717# (LGS= 2 ICN= 71.0)
07718# [Previous area: Iapres 4.67:SLPP=2.00:LGF= 40.:MNP= 250:SCP= .0]
07719# [Impervious area: IaImp= 1.57:SLP1= .50:LGI= 200.84 n/a .000]
07720# [IaECimp= 1.50: IaRepCrep= 6.00]
07721# [SMIN= 41.38: SMAX= 275.84: SK= .000]
07722# # LID for Outlet W16 (24 catchbasins, 30 m long trench each)
07723# # Assume 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
07724# Total Volume provided by LID = 165 m³
07725# Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07726# RO100:CO0001-----> Dtnin-ID:NHNYD-----AREAh-QPEAKms-Tpeakdate_hh:mm:--Rvn-R.C.--DWFcms
07727# START
07728# [TZERO = 0.0 hrs on 20000101]
07729# [ICN= 2 (Imperial, 2=metric output)]
07730# [NSTORM= 0]
07731# [NRUN = 01001]
07732# ***** END OF RUN 1 99*****
07733# ***** END OF RUN 1 99*****
07734# RUN:#COMMAND#
07735# Project Name: Barhaven Conservancy Development
07736# Model Number: 1400
07737# Date: 2021/01/18
07738# Modeler : J.Burnett, P.Eng.
07739# Updated : 1/2024/Mar/14 [P]
07740# Company : J.F. Shoumin and Associates

07921: [SMIN= 1.39; SMAX= 9.24; SKW = .000] -----
 07922: R0100:CD0022-----
 07923: CONTINUOUS STANDHYD 5.0 01:INF-W5
 07924: [XIMP= .55;TIME= .67]
 07925: [LOSS= 2 ;CNW= 71.00]
 07926: [Pervious area: Iapex= 4.57;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 07927: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 07928: [iAECLimp= 1.50; iARECper= 6.00]
 07929: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 07930: R0100:CD0024-----
 07931: CONTINUOUS STANDHYD 5.0 01:INF-W5
 07932: [XIMP= .55;TIME= .67]
 07933: [LOSS= 2 ;CNW= 100.00]
 07934: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 07935: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 228.;MMI= 013;SCI= .0]
 07936: [iAECLimp= 1.50; iARECper= 6.00]
 07937: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 07938: R0100:CD0024-----
 07939: ADD HYD
 07940: + 5.0 02:INF-W1 8.51 .323 2000.0625_10:00 297.12 n/a .000
 07941: + 5.0 02:INF-W3 10.03 .398 2000.0625_10:00 333.34 n/a .000
 07942: + 5.0 02:INF-W4 10.1 .398 2000.0625_10:00 333.34 n/a .000
 07943: + 5.0 02:INF-W5 6.20 .239 2000.0625_10:00 312.83 n/a .000
 07944: + 5.0 02:INF-W6 1.81 .307 2000.0625_10:00 344.99 n/a .000
 07945: SUM# 5.0 01:INF-W2 46.00 .187 2000.0625_10:00 320.63 n/a .000
 07946: #####
 07947: # CONTINUOUS RAINFALL DATA
 07948: #####
 07949: ** END OF RUN : 102
 07950: #####
 07951: #####
 07952: R0102:CD0001-----
 07953: START
 07954: [TZERO = .00 hrs on 20020101]
 07955: [METOUT= 2 (Imperial, 2-metric output)]
 07956: [INSTRNM = 0]
 07957: [INRN = 0103]
 07958: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 07959: SMINHYD Ver1.03 Jan 2003 (BETA) / INPUT DATA FILE
 07960: Project Name: Barhaven Conservancy Development
 07961: Project Number: 1474
 07962: Date : 2021-03-01
 07963: Modeler : J. Burnett, P.Eng.
 07964: Updated : 10/24/Mar/14 [IP]
 07965: Company : J.F. Sabourin and Associates
 07966: License #: 2582633
 07967: *****
 07968: Ottawa International Airport (1967 - 2003)
 07969: R0102:CD0001-----
 07970: READ AEE DATA
 07971: [Filename = YOW_1967_2007_123]
 07972: [Start Date = 20020101] [End Date = 20021231]
 07973: [DT= 60:min; Length= 508hrs; NetHrs= 304; DryHrs= 4784; PTOT= 551.50]
 07974: Maximum average rainfall intensities over 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 07975: 45.20 55.20 55.20 55.20 55.20 55.20 55.20 55.20 55.20 mm/hr
 07976: 45.20 55.20 55.20 55.20 55.20 55.20 55.20 55.20 55.20 mm/hr
 07977: 20020627 20020627 20020627 20020627 20020627 20020628 20020628 date
 07978: Number of events with at least 1 hour duration
 07979: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 07980: 100 83 78 66 47 41 36 34 32 0 0 0
 07981: Number of events with at least 1 hour duration following durations
 07982: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 07983: 100 59 33 13 5 0 0 0 0 0 0 0
 07984: COMPUTE API
 07985: [APIInit= 50.50; APITdy= 5000; APIEnd= .9956]
 07986: [APIMax= 41.88; SMAX= 275.84; SKW = .030]
 07987: # Lid for outlet W1 (14 catchbasins, 30 m long trench each)
 07988: # Assume 420 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 07989: # Total Volume provided by Lid = 96 m³
 07990: # Lid for outlet W2 (14 catchbasins, 30 m long trench each)
 07991: # Assume 420 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 07992: # Total Volume provided by Lid = 96 m³
 07993: COMPUTE API
 07994: [APIInit= 50.50; APITdy= 5000; APIEnd= .9956]
 07995: [APIMax= 41.88; SMAX= 275.84; SKW = .030]
 07996: # Barhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
 07997: #####
 07998: R0102:CD0004-----
 07999: DTM-ID:NYWD-----
 08000: CONTINUOUS STANDHYD 5.0 01:W1 5.76 .621 2002.0627_14:00 299.25 .543 .000
 08001: [XIMP= .55;TIME= .66]
 08002: [LOSS= 2 ;CNW= 71.00]
 08003: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08004: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 196.;MMI= 013;SCI= .0]
 08005: [iAECLimp= 1.50; iARECper= 6.00]
 08006: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08007: # Lid for outlet W1 (14 catchbasins, 30 m long trench each)
 08008: # Assume 420 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08009: # Total Volume provided by Lid = 96 m³
 08010: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 08011: # Assume 420 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08012: # ROUTE RESERVOIR > 5.0 02:W1 8.76 .621 2002.0627_14:00 299.25 n/a .000
 08013: out <= 5.0 01:W1-LID 97 .001 2002.0412_23:20 299.25 n/a .000
 08014: overlap <= 5.0 03:W1-LID-Out 1.13 .001 2002.0412_23:20 299.25 n/a .000
 08015: [MGStCoLd= .9597E-01 m³, TctVol= 1.43E+01 m³, N-Ovfl= 83, TotDrvrf= 143 hrs]
 08016: R0102:CD0006-----
 08017: CONTINUOUS STANDHYD 5.0 01:W1 8.51 .885 2002.0627_14:00 280.37 .508 .000
 08018: [XIMP= .50;TIME= .60]
 08019: [LOSS= 2 ;CNW= 71.00]
 08020: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08021: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 238.;MMI= 013;SCI= .0]
 08022: [iAECLimp= 1.50; iARECper= 6.00]
 08023: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08024: # Lid for outlet W2 (14 catchbasins, 30 m long trench each)
 08025: # Assume 420 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08026: # Total Volume provided by Lid = 96 m³
 08027: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 08028: # Assume 420 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08029: # ROUTE RESERVOIR > 5.0 02:W1 10.01 .103 2002.0627_14:00 315.73 .572 .000
 08030: out <= 5.0 01:W1-LID 1.18 .001 2002.0412_23:20 337.30 n/a .000
 08031: overlap <= 5.0 03:W1-LID-Out 1.11 .001 2002.0412_23:20 305.10 n/a .000
 08032: [MGStCoLd= .9597E-01 m³, TctVol= 1.54E+01 m³, N-Ovfl= 83, TotDrvrf= 143 hrs]
 08033: R0102:CD0007-----
 08034: CONTINUOUS STANDHYD 5.0 01:W1 10.03 1.128 2002.0627_14:00 337.18 .611 .000
 08035: [XIMP= .55;TIME= .76]
 08036: [LOSS= 2 ;CNW= 71.00]
 08037: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08038: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 259.;MMI= 013;SCI= .0]
 08039: [iAECLimp= 1.50; iARECper= 6.00]
 08040: [SMIN= 1.39; SMAX= 275.84; SKW = .030]
 08041: # Lid for outlet W3 (28 catchbasins, 30 m long trench each)
 08042: # Assume 840 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08043: # Total Volume provided by Lid = 96 m³
 08044: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 08045: # Assume 840 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08046: # ROUTE RESERVOIR > 5.0 02:W1 10.1 .103 2002.0627_14:00 315.73 .572 .000
 08047: out <= 5.0 01:W1-LID 1.18 .001 2002.0412_23:20 337.30 n/a .000
 08048: overlap <= 5.0 03:W1-LID-Out 1.21 .009 2002.0412_23:20 337.30 n/a .000
 08049: [MGStCoLd= .9597E-01 m³, TctVol= 1.54E+01 m³, N-Ovfl= 83, TotDrvrf= 143 hrs]
 08050: R0102:CD0010-----
 08051: CONTINUOUS STANDHYD 5.0 01:W1 10.1 .103 2002.0627_14:00 315.73 .572 .000
 08052: [XIMP= .55;TIME= .67]
 08053: [LOSS= 2 ;CNW= 71.00]
 08054: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08055: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 259.;MMI= 013;SCI= .0]
 08056: [iAECLimp= 1.50; iARECper= 6.00]
 08057: [SMIN= 41.38; SMAX= 275.84; SKW = .030]
 08058: # Lid for outlet W4 (14 catchbasins, 30 m long trench each)
 08059: # Assume 840 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08060: # Total Volume provided by Lid = 96 m³
 08061: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 08062: # Assume 840 m long trench, 1.2m wide, porosity of 0.40 with 250 mm diameter perforated pipe
 08063: # ROUTE RESERVOIR > 5.0 02:W1 10.1 .103 2002.0627_14:00 315.73 n/a .000
 08064: out <= 5.0 01:W1-LID 1.18 .001 2002.0412_23:20 337.30 n/a .000
 08065: overlap <= 5.0 03:W1-LID-Out 1.20 .001 2002.0627_14:00 305.09 n/a .000
 08066: [MGStCoLd= .9597E-01 m³, TctVol= 1.54E+01 m³, N-Ovfl= 83, TotDrvrf= 143 hrs]
 08067: R0102:CD0014-----
 08068: CONTINUOUS STANDHYD 5.0 01:W1 7.81 .902 2002.0627_14:00 335.25 .644 .000
 08069: [XIMP= .57;TIME= .67]
 08070: [LOSS= 2 ;CNW= 71.00]
 08071: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08072: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 238.;MMI= 013;SCI= .0]
 08073: [iAECLimp= 1.50; iARECper= 6.00]
 08074: [SMIN= 41.38; SMAX= 275.84; SKW = .030]
 08075: # Lid for outlet W5 (28 catchbasins, 30 m long trench each)
 08076: # Assume 840 m long trench, 1.2m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 08077: # Total Volume provided by Lid = 96 m³
 08078: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 08079: # Assume 840 m long trench, 1.2m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 08080: # ROUTE RESERVOIR > 5.0 02:W1 7.81 .902 2002.0627_14:00 335.25 n/a .000
 08081: out <= 5.0 01:W1-LID 1.18 .001 2002.0412_23:20 335.25 n/a .000
 08082: overlap <= 5.0 03:W1-LID-Out 1.20 .001 2002.0627_14:00 335.25 n/a .000
 08083: [MGStCoLd= .9597E-01 m³, TctVol= 1.54E+01 m³, N-Ovfl= 83, TotDrvrf= 143 hrs]
 08084: R0102:CD0014-----
 08085: CONTINUOUS STANDHYD 5.0 01:W1 7.81 .902 2002.0627_14:00 335.25 .644 .000
 08086: [XIMP= .57;TIME= .67]
 08087: [LOSS= 2 ;CNW= 71.00]
 08088: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08089: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 228.;MMI= 013;SCI= .0]
 08090: [iAECLimp= 1.50; iARECper= 6.00]
 08091: # Lid for outlet W6 (28 catchbasins, 30 m long trench each)
 08092: # Assume 840 m long trench, 1.2m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 08093: # Total Volume provided by Lid = 96 m³
 08094: # Soil infiltration rates assumed at 8mm/hr with a safety factor of 2.5
 08095: # Assume 840 m long trench, 1.2m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
 08096: # ROUTE RESERVOIR > 5.0 02:W1 7.81 .902 2002.0627_14:00 335.25 n/a .000
 08097: out <= 5.0 01:W1-LID 1.18 .001 2002.0412_23:20 335.25 n/a .000
 08098: overlap <= 5.0 03:W1-LID-Out 1.20 .001 2002.0627_14:00 335.25 n/a .000
 08099: [MGStCoLd= .9597E-01 m³, TctVol= 1.54E+01 m³, N-Ovfl= 83, TotDrvrf= 143 hrs]
 08100: R0102:CD0014-----
 08101: DTM-ID:NYHD-----
 08102: ADD HYD
 08103: + 5.0 02:INF-W1 8.51 .323 2000.0625_10:00 297.12 n/a .000
 08104: + 5.0 02:INF-W3 10.03 .398 2000.0625_10:00 333.34 n/a .000
 08105: + 5.0 02:INF-W4 10.1 .398 2000.0625_10:00 333.34 n/a .000
 08106: + 5.0 02:INF-W5 6.20 .239 2000.0625_10:00 312.83 n/a .000
 08107: + 5.0 02:INF-W6 1.81 .307 2000.0625_10:00 344.99 n/a .000
 08108: SUM# 5.0 01:INF-W2 46.00 .187 2000.0625_10:00 320.63 n/a .000
 08109: ADD HYD
 08110: + 5.0 02:INF-W1 8.51 .323 2000.0625_10:00 297.12 n/a .000
 08111: + 5.0 02:INF-W3 10.03 .398 2000.0625_10:00 333.34 n/a .000
 08112: + 5.0 02:INF-W4 10.1 .398 2000.0625_10:00 333.34 n/a .000
 08113: + 5.0 02:INF-W5 6.20 .239 2000.0625_10:00 312.83 n/a .000
 08114: + 5.0 02:INF-W6 1.81 .307 2000.0625_10:00 344.99 n/a .000
 08115: SUM# 5.0 01:INF-W2 46.00 .187 2000.0625_10:00 320.63 n/a .000
 08116: ADD HYD
 08117: # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
 08118: #
 08119: #
 08120: # Set infiltration rate to 0 (Cn = 99.99) for water balance analysis
 08121: #
 08122: DTM-ID:NYHD-----
 08123: CONTINUOUS STANDHYD 5.0 01:INF-W1
 08124: [XIMP= .55;TIME= .66]
 08125: [LOSS= 2 ;CNW= 100.00]
 08126: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08127: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 196.;MMI= 013;SCI= .0]
 08128: [iAECLimp= 1.50; iARECper= 6.00]
 08129: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08130: R0102:CD0019-----
 08131: DTM-ID:NYHD-----
 08132: CONTINUOUS STANDHYD 5.0 01:INF-W2
 08133: [XIMP= .50;TIME= .60]
 08134: [LOSS= 2 ;CNW= 100.00]
 08135: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08136: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 260.;MMI= 013;SCI= .0]
 08137: [iAECLimp= 1.50; iARECper= 6.00]
 08138: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08139: R0102:CD0020-----
 08140: DTM-ID:NYHD-----
 08141: CONTINUOUS STANDHYD 5.0 01:INF-W3
 08142: [XIMP= .66;TIME= .76]
 08143: [LOSS= 2 ;CNW= 100.00]
 08144: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08145: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08146: [iAECLimp= 1.50; iARECper= 6.00]
 08147: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08148: R0102:CD0021-----
 08149: DTM-ID:NYHD-----
 08150: CONTINUOUS STANDHYD 5.0 01:INF-W4
 08151: [XIMP= .55;TIME= .81]
 08152: [LOSS= 2 ;CNW= 100.00]
 08153: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08154: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08155: [iAECLimp= 1.50; iARECper= 6.00]
 08156: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08157: R0102:CD0022-----
 08158: DTM-ID:NYHD-----
 08159: CONTINUOUS STANDHYD 5.0 01:INF-W5
 08160: [XIMP= .50;TIME= .86]
 08161: [LOSS= 2 ;CNW= 100.00]
 08162: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08163: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08164: [iAECLimp= 1.50; iARECper= 6.00]
 08165: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08166: R0102:CD0023-----
 08167: DTM-ID:NYHD-----
 08168: CONTINUOUS STANDHYD 5.0 01:INF-W6
 08169: [XIMP= .55;TIME= .91]
 08170: [LOSS= 2 ;CNW= 100.00]
 08171: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08172: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08173: [iAECLimp= 1.50; iARECper= 6.00]
 08174: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08175: R0102:CD0024-----
 08176: DTM-ID:NYHD-----
 08177: CONTINUOUS STANDHYD 5.0 01:INF-W7
 08178: [XIMP= .50;TIME= .96]
 08179: [LOSS= 2 ;CNW= 100.00]
 08180: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08181: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08182: [iAECLimp= 1.50; iARECper= 6.00]
 08183: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08184: R0102:CD0025-----
 08185: DTM-ID:NYHD-----
 08186: CONTINUOUS STANDHYD 5.0 01:INF-W8
 08187: [XIMP= .55;TIME= .96]
 08188: [LOSS= 2 ;CNW= 100.00]
 08189: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08190: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08191: [iAECLimp= 1.50; iARECper= 6.00]
 08192: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08193: R0102:CD0026-----
 08194: DTM-ID:NYHD-----
 08195: CONTINUOUS STANDHYD 5.0 01:INF-W9
 08196: [XIMP= .50;TIME= .96]
 08197: [LOSS= 2 ;CNW= 100.00]
 08198: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08199: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08200: [iAECLimp= 1.50; iARECper= 6.00]
 08201: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08202: R0102:CD0027-----
 08203: DTM-ID:NYHD-----
 08204: CONTINUOUS STANDHYD 5.0 01:INF-W10
 08205: [XIMP= .55;TIME= .96]
 08206: [LOSS= 2 ;CNW= 100.00]
 08207: [Pervious area: Iapex= 4.67;SLPF= 2.00;LGF= 40.;MNP= 250;SCP= .0]
 08208: [Impervious area: IAPN= 1.57;SLPF= .50;LGI= 203.;MMI= 013;SCI= .0]
 08209: [iAECLimp= 1.50; iARECper= 6.00]
 08210: [SMIN= 1.39; SMAX= 9.24; SKW = .000]
 08211: R0102:CD0028-----
 08212: DTM-ID:NYHD-----
 08213: [Start Date = 2003.01.01] [End Date = 2003.12.31]
 08214: [DT= 60:min; Length= 4440:hrs; NetHrs= 4034; DryHrs= 554.60]
 08215: Number of rainfall events per following interval time
 08216: 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
 08217: 15.10 18.00 21.28 24.

08415+ *** WARNING: Missing rainfall increments were set to 0.

08416+ *** WARNING: Requested start date is less than start date in file.

08417+ *** WARNING: READ AQS DATA

08418+ *** WARNING: Missing rainfall increments were set to 0.

08419+ *** WARNING: Missing rainfall increments were set to 0.

08420+ *** WARNING: Missing rainfall increments were set to 0.

08421+ *** WARNING: Missing rainfall increments were set to 0.

08422+ *** WARNING: Missing rainfall increments were set to 0.

08423+ *** WARNING: Missing rainfall increments were set to 0.

08424+ *** WARNING: Missing rainfall increments were set to 0.

08425+ *** WARNING: Missing rainfall increments were set to 0.

08426+ *** WARNING: Missing rainfall increments were set to 0.

08427+ *** WARNING: Missing rainfall increments were set to 0.

08428+ *** WARNING: Missing rainfall increments were set to 0.

08429+ *** WARNING: Missing rainfall increments were set to 0.

08430+ *** WARNING: Missing rainfall increments were set to 0.

08431+ *** WARNING: Missing rainfall increments were set to 0.

08432+ *** WARNING: Missing rainfall increments were set to 0.

08433+ *** WARNING: Missing rainfall increments were set to 0.

08434+ *** WARNING: Missing rainfall increments were set to 0.

08435+ *** WARNING: Missing rainfall increments were set to 0.

08436+ *** WARNING: Missing rainfall increments were set to 0.

08437+ *** WARNING: Missing rainfall increments were set to 0.

08438+ *** WARNING: Missing rainfall increments were set to 0.

08439+ *** WARNING: Missing rainfall increments were set to 0.

08440+ *** WARNING: Missing rainfall increments were set to 0.

08441+ *** WARNING: CONTINUOUS RAINFALL DATA

08442+ FINISH

08443+ *****WARNINGS / ERRORS / NOTES*****

08444+ *** WARNING: Requested start date is less than start date in file.

08445+ *** WARNING: Missing rainfall increments were set to 0.

08446+ *** WARNING: Requested start date is less than start date in file.

08447+ *** WARNING: Missing rainfall increments were set to 0.

08448+ *** WARNING: Requested start date is less than start date in file.

08449+ *** WARNING: Missing rainfall increments were set to 0.

08450+ *** WARNING: Requested start date is less than start date in file.

08451+ *** WARNING: Missing rainfall increments were set to 0.

08452+ *** WARNING: Missing rainfall increments were set to 0.

08453+ *** WARNING: Missing rainfall increments were set to 0.

08454+ *** WARNING: Missing rainfall increments were set to 0.

08455+ *** WARNING: Missing rainfall increments were set to 0.

08456+ *** WARNING: Requested start date is less than start date in file.

08457+ *** WARNING: Missing rainfall increments were set to 0.

08458+ *** WARNING: Requested start date is less than start date in file.

08459+ *** WARNING: Missing rainfall increments were set to 0.

08460+ *** WARNING: Requested start date is less than start date in file.

08461+ *** WARNING: Missing rainfall increments were set to 0.

08462+ *** WARNING: Requested start date is less than start date in file.

08463+ *** WARNING: Missing rainfall increments were set to 0.

08464+ *** WARNING: Requested start date is less than start date in file.

08465+ *** WARNING: Missing rainfall increments were set to 0.

08466+ Simulation ended on 2024-03-14 at 20:59:26

08467+ *****SIMULATION ENDED*****

08468+



Ottawa. ON
Paris. ON
Gatineau. QC
Montréal. QC
Québec. QC

Attachment B

Water Budget Results

Table B1: BCD West - Pre Development Water Budget

Year	Total Rainfall		Evaporation		Runoff		Infiltration	
	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)
1967	386.9	187,337	229.3	111,037	65.9	31,914	91.7	44,387
1968	592.8	287,034	382.3	185,124	71.2	34,465	139.3	67,444
1969	570.3	276,139	378.9	183,439	58.3	28,214	133.2	64,486
1970	558.9	270,619	380.2	184,107	55.5	26,888	123.1	59,624
1971	522.1	252,801	378.6	183,304	41.8	20,249	101.7	49,248
1972	784.3	379,758	478.9	231,859	127.3	61,648	178.1	86,251
1973	744.9	360,681	469.3	227,221	93.8	45,413	181.8	88,047
1974	386.2	186,998	290.8	140,781	25.3	12,265	70.1	33,952
1975	535.5	259,289	361.0	174,801	56.4	27,309	118.1	57,179
1976	493.2	238,807	356.1	172,399	38.8	18,782	98.4	47,626
1977	677.8	328,191	448.3	217,086	74.1	35,894	155.3	75,211
1978	641.4	310,566	426.9	206,690	56.6	27,415	157.9	76,460
1979	866.5	419,559	494.4	239,393	147.9	71,603	224.2	108,562
1980	622	301,172	419.0	202,885	61.5	29,778	141.5	68,509
1981	936.4	453,405	555.7	269,070	185.9	90,008	194.8	94,327
1982	596.1	288,632	413.7	200,333	49.7	24,055	132.7	64,244
1983	587.5	284,468	414.5	200,706	54.4	26,326	118.6	57,436
1984	459.4	222,441	291.7	141,241	52.5	25,396	115.3	55,804
1985	559.9	271,104	347.4	168,211	55.3	26,796	157.2	76,097
1986	849.4	411,279	509.1	246,487	152.7	73,918	187.7	90,875
1987	640.1	309,936	445.0	215,484	71.6	34,683	123.4	59,770
1988	643.8	311,728	434.9	210,583	69.8	33,802	139.1	67,343
1989	523.2	253,333	363.5	175,997	43.7	21,140	116.1	56,196
1990	727.8	352,401	477.1	230,992	89.2	43,195	161.5	78,213
1991	556	269,215	396.2	191,826	48.5	23,484	111.3	53,906
1992	732.8	354,822	466.6	225,923	99.1	47,970	167.1	80,929
1993	721.3	349,253	509.6	246,763	65.8	31,860	145.9	70,630
1994	540.2	261,565	357.7	173,213	62.7	30,369	119.8	57,983
1995	538.5	260,742	254.9	123,403	163.8	79,322	119.8	58,017
1996	512.2	248,007	354.7	171,755	49.0	23,711	108.5	52,541
1997	433.2	209,755	304.7	147,512	29.5	14,294	99.0	47,950
1998	440.3	213,193	313.0	151,550	34.5	16,681	92.9	44,963
1999	424.4	205,494	293.0	141,856	35.3	17,112	96.1	46,527
2000	535.9	259,483	363.9	176,196	59.0	28,587	113.0	54,700
2002	551.5	267,036	307.6	148,945	107.2	51,926	136.7	66,166
2003	554.6	268,537	349.9	169,431	79.7	38,610	124.9	60,496
Minimum	386.2	186,998	229.3	111,037	25.3	12,265	70.1	33,952
Maximum	936.4	453,405	555.7	269,070	185.9	90,008	224.2	108,562
Average	595.8	288,466	389.4	188,545	73.1	35,419	133.2	64,503
Percentage	100.0%	100.0%	65.4%	65.4%	12.3%	12.3%	22.4%	22.4%

Table B2: BCD West - Post Development Water Budget - Without LIDs

Year	Total Rainfall		Evaporation		Runoff		Infiltration	
	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)
1967	386.9	187,337	127.4	61,692	215.6	104,398	43.9	21,247
1968	592.8	287,034	219.4	106,248	304.2	147,284	69.2	33,502
1969	570.3	276,139	225.4	109,134	278.4	134,811	66.5	32,194
1970	558.9	270,619	222.8	107,889	272.8	132,109	63.2	30,621
1971	522.1	252,801	225.0	108,950	242.9	117,602	54.2	26,248
1972	784.3	379,758	268.8	130,172	428.3	207,388	87.2	42,198
1973	744.9	360,681	275.1	133,179	380.5	184,248	89.3	43,254
1974	386.2	186,998	175.9	85,147	172.0	83,297	38.3	18,555
1975	535.5	259,289	205.1	99,329	268.9	130,216	61.4	29,744
1976	493.2	238,807	215.5	104,321	225.9	109,381	51.9	25,106
1977	677.8	328,191	253.5	122,745	345.0	167,034	79.3	38,412
1978	641.4	310,566	234.9	113,748	326.2	157,936	80.3	38,881
1979	866.5	419,559	274.7	133,005	484.4	234,527	107.5	52,027
1980	622	301,172	234.8	113,695	314.6	152,329	72.6	35,148
1981	936.4	453,405	317.0	153,501	523.3	253,372	96.1	46,532
1982	596.1	288,632	227.6	110,185	299.0	144,766	69.6	33,681
1983	587.5	284,468	236.1	114,310	288.5	139,692	62.9	30,466
1984	459.4	222,441	161.3	78,097	240.7	116,542	57.4	27,803
1985	559.9	271,104	187.2	90,623	295.2	142,936	77.5	37,545
1986	849.4	411,279	283.0	137,024	474.6	229,806	91.8	44,450
1987	640.1	309,936	259.9	125,853	315.2	152,639	64.9	31,444
1988	643.8	311,728	257.9	124,870	316.4	153,182	69.6	33,676
1989	523.2	253,333	211.6	102,462	251.8	121,922	59.8	28,950
1990	727.8	352,401	279.8	135,474	367.3	177,847	80.7	39,080
1991	556	269,215	226.4	109,628	271.1	131,262	58.5	28,326
1992	732.8	354,822	269.4	130,434	380.1	184,030	83.4	40,358
1993	721.3	349,253	290.6	140,684	354.7	171,760	76.0	36,809
1994	540.2	261,565	204.4	98,975	274.2	132,768	61.6	29,822
1995	538.5	260,742	141.5	68,509	341.7	165,437	55.3	26,796
1996	512.2	248,007	202.6	98,113	253.4	122,716	56.1	27,178
1997	433.2	209,755	168.5	81,588	212.0	102,631	52.7	25,537
1998	440.3	213,193	183.8	88,977	208.0	100,699	48.6	23,518
1999	424.4	205,494	162.9	78,881	210.7	102,031	50.8	24,583
2000	535.9	259,483	215.3	104,234	263.9	127,776	56.7	27,474
2002	551.5	267,036	168.5	81,588	317.0	153,487	66.0	31,962
2003	554.6	268,537	203.0	98,278	291.2	140,999	60.4	29,260
Minimum	386.2	186,998	127.4	61,692	172.0	83,297	38.3	18,555
Maximum	936.4	453,405	317.0	153,501	523.3	253,372	107.5	52,027
Average	595.8	288,466	222.7	107,821	305.8	148,079	67.3	32,566
Percentage	100.0%	100.0%	37.4%	37.4%	51.3%	51.3%	11.3%	11.3%

Table B3: BCD West - Post Development Water Budget - With LIDs

Year	Total Rainfall		Evaporation		Runoff		Infiltration	
	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)	(mm)	(m ³)
1967	386.9	187,337	127.4	61,692	173.4	83,976	86.1	41,669
1968	592.8	287,034	219.4	106,248	224.2	108,535	149.2	72,251
1969	570.3	276,139	225.4	109,134	205.3	99,405	139.6	67,600
1970	558.9	270,619	222.8	107,889	201.5	97,552	134.6	65,178
1971	522.1	252,801	225.0	108,950	169.4	82,039	127.7	61,812
1972	784.3	379,758	268.8	130,172	340.6	164,939	174.8	84,647
1973	744.9	360,681	275.1	133,179	296.4	143,506	173.5	83,995
1974	386.2	186,998	175.9	85,147	114.5	55,464	95.8	46,388
1975	535.5	259,289	205.1	99,329	201.3	97,471	129.1	62,490
1976	493.2	238,807	215.5	104,321	158.8	76,911	118.9	57,576
1977	677.8	328,191	253.5	122,745	256.0	123,959	168.3	81,487
1978	641.4	310,566	234.9	113,748	242.3	117,327	164.2	79,490
1979	866.5	419,559	274.7	133,005	392.7	190,122	199.2	96,433
1980	622	301,172	234.8	113,695	234.6	113,590	152.6	73,887
1981	936.4	453,405	317.0	153,501	416.5	201,653	202.9	98,250
1982	596.1	288,632	227.6	110,185	214.9	104,077	153.6	74,370
1983	587.5	284,468	236.1	114,310	205.7	99,606	145.7	70,551
1984	459.4	222,441	161.3	78,097	185.6	89,888	112.5	54,457
1985	559.9	271,104	187.2	90,623	228.1	110,438	144.7	70,043
1986	849.4	411,279	283.0	137,024	378.4	183,238	188.0	91,018
1987	640.1	309,936	259.9	125,853	230.1	111,409	150.1	72,674
1988	643.8	311,728	257.9	124,870	230.8	111,777	155.1	75,081
1989	523.2	253,333	211.6	102,462	182.1	88,171	129.5	62,701
1990	727.8	352,401	279.8	135,474	276.0	133,661	172.0	83,265
1991	556	269,215	226.4	109,628	187.1	90,609	142.5	68,978
1992	732.8	354,822	269.4	130,434	287.5	139,184	176.0	85,204
1993	721.3	349,253	290.6	140,684	250.1	121,118	180.6	87,451
1994	540.2	261,565	204.4	98,975	207.2	100,310	128.6	62,280
1995	538.5	260,742	141.5	68,509	289.7	140,254	107.3	51,978
1996	512.2	248,007	202.6	98,113	184.6	89,400	124.9	60,494
1997	433.2	209,755	168.5	81,588	150.0	72,643	114.7	55,525
1998	440.3	213,193	183.8	88,977	150.6	72,931	105.9	51,285
1999	424.4	205,494	162.9	78,881	160.3	77,611	101.2	49,003
2000	535.9	259,483	215.3	104,234	198.4	96,061	122.2	59,188
2002	551.5	267,036	168.5	81,588	260.9	126,328	122.1	59,121
2003	554.6	268,537	203.0	98,278	220.2	106,630	131.4	63,630
Minimum	386.2	186,998	127.4	61,692	114.5	55,464	86.1	41,669
Maximum	936.4	453,405	317.0	153,501	416.5	201,653	202.9	98,250
Average	595.8	288,466	222.7	107,821	230.7	111,716	142.4	68,929
Percentage	100.0%	100.0%	37.4%	37.4%	38.7%	38.7%	23.9%	23.9%

Table B4 - LID Infiltration Summary

LID	Area (ha)	Average Annual LID Infiltration Volume (m³/Yr)	Average Annual LID Infiltration Volume (mm/Yr)
W1	5.76	3,893	68
W2	8.51	5,365	63
W3	10.03	8,117	81
W4	10.11	7,650	76
W5	6.20	4,509	73
W6	7.81	6,826	87
Total/Average	48.42	36,361	75