

March 15, 2024

Project Number: 1474

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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 (Tp) 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 (FAA) method was determined to be the most appropriate method to calculate the Tp. Full details of these calculations have been provided in **Table A3 in Attachment A**, along with other time-to-peak values using alternative Tp 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

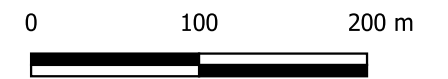
SWMHYMO Models & Parameters



Legend

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

SCALE: 1:4500



Conservancy West

Figure A1: Soil Types

PROJECT	1474(03)
DRAWN	JB
DATE	March 2024



Legend

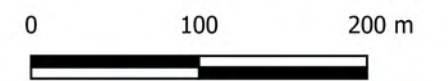
Land Use

 Hedge Rows

 Tilled

 Development Area

SCALE: 1:4500



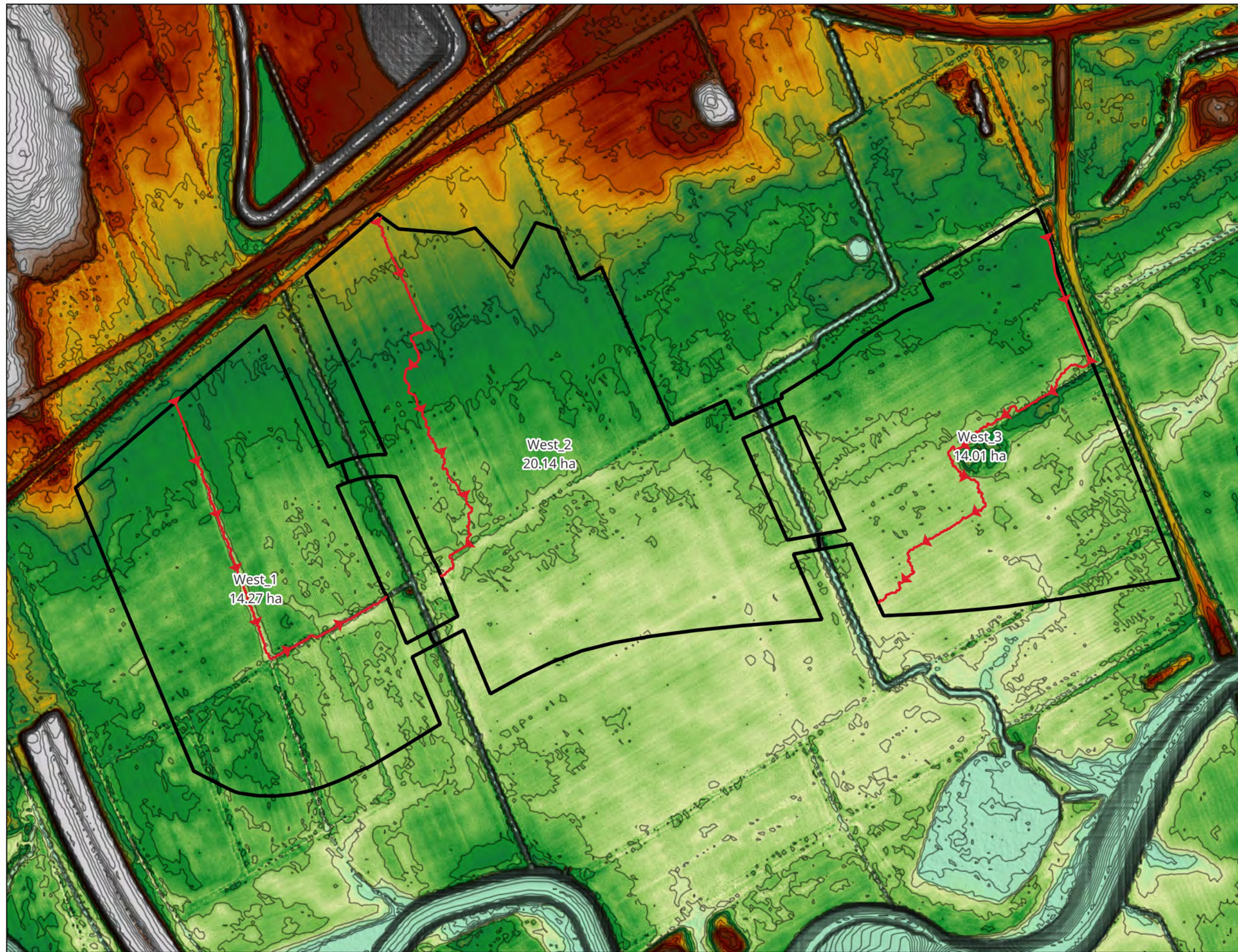
Conservancy West

Figure A2: Land Use

PROJECT	1474(03)
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DRAWN	JB
-------	----

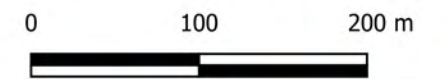
DATE	March 2024
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Legend

- Streams
- Major Flow Path
- Development Area
- Terrain (m)
- 94.75
- 90.5
- Contours
- 0.25 m

SCALE: 1:4500



Conservancy West

Figure A3: Flow Paths

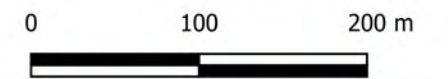
PROJECT	1474(03)
DRAWN	JB
DATE	March 2024



Legend

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

SCALE: 1:4500



Conservancy West

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.
IaRECimp=[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
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
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 CONTINUOUS NASHYD NHYD=["West_2"], DT=[5](min), AREA=[20.14](ha)
37                DWF=[0](cms), CN/C=[76], IA=[4.67](mm), N=[3], TP=[1.26](hrs),
38                Continuous simulation parameters:
39                IaRECper=[6](hrs),SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
40                InterEventTime=[12](hrs)
41                Baseflow simulation parameters:
42                BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
43                VHydCond=[1.0](mm/hr), END=-1
   *%-----|-----
   -----|-----
44 CONTINUOUS NASHYD NHYD=["West_3"], DT=[5](min), AREA=[14.01](ha)
45                DWF=[0](cms), CN/C=[71], IA=[4.67](mm), N=[3], TP=[2.07](hrs),
46                Continuous simulation parameters:
47                IaRECper=[6](hrs),SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm),
48                InterEventTime=[12](hrs)
49                Baseflow simulation parameters:
50                BaseFlowOption=[1], InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
51                VHydCond=[1.0](mm/hr), END=-1
   *%-----|-----
   -----|-----
52 ADD HYD        NHYDsum=["West-Total"], NHYDs to add=["West_1","West_2","West_3"]
53 *%-----|-----

```

```

54 *#*****
55 *#           Barrhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE
DEVELOPMENT CONDITIONS
56 *#*****
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),
                   InterEventTime=[12](hrs)
63                   Baseflow simulation parameters:
64                   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
65                   VHydCond=[1.0](mm/hr), END=-1
66 *%-----|-----
67 CONTINUOUS NASHYD  NHYD=["INF-West_2"], DT=[5](min), AREA=[20.14](ha)
68                   DWF=[0](cms),  CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[1.26](hrs),
69                   Continuous simulation parameters:
70                   IaREcper=[6](hrs),SMIN=[-1](mm),  SMAx=[-1](mm), SK=[0.00]/(mm),
                   InterEventTime=[12](hrs)
71                   Baseflow simulation parameters:
72                   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
73                   VHydCond=[1.0](mm/hr), END=-1
74 *%-----|-----
75 CONTINUOUS NASHYD  NHYD=["INF-West_3"], DT=[5](min), AREA=[14.01](ha)
76                   DWF=[0](cms),  CN/C=[99.99], IA=[4.67](mm), N=[3], TP=[2.07](hrs),
77                   Continuous simulation parameters:
78                   IaREcper=[6](hrs),SMIN=[-1](mm),  SMAx=[-1](mm), SK=[0.00]/(mm),
                   InterEventTime=[12](hrs)
79                   Baseflow simulation parameters:
80                   BaseFlowOption=[1] , InitGWResVol=[10](mm), GWResK=[0.9](mm/day/mm)
81                   VHydCond=[1.0](mm/hr), END=-1
82 *%-----|-----
83 ADD HYD           NHYDsum=["INF-West-Total"], NHYDs to
add=["INF-West_1","INF-West_2","INF-West_3"]
84 *%-----|-----
85 *#####
86 *# CONTINUOUS RAINFALL DATA
87 *#####
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]
95 *%-----|-----
96 START           TZERO=[1971.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[71]
97 *%-----|-----
98 START           TZERO=[1972.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[72]
99 *%-----|-----
100 START          TZERO=[1973.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[73]
101 *%-----|-----

```

102	START	TZERO=[1974.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[74]
103	*%-----				
104	START	TZERO=[1975.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[75]
105	*%-----				
106	START	TZERO=[1976.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[76]
107	*%-----				
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110	START	TZERO=[1978.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[78]
111	*%-----				
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115	*%-----				
116	START	TZERO=[1981.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[81]
117	*%-----				
118	START	TZERO=[1982.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[82]
119	*%-----				
120	START	TZERO=[1983.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[83]
121	*%-----				
122	START	TZERO=[1984.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[84]
123	*%-----				
124	START	TZERO=[1985.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[85]
125	*%-----				
126	START	TZERO=[1986.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[86]
127	*%-----				
128	START	TZERO=[1987.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[87]
129	*%-----				
130	START	TZERO=[1988.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[88]
131	*%-----				
132	START	TZERO=[1989.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[89]
133	*%-----				
134	START	TZERO=[1990.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[90]
135	*%-----				
136	START	TZERO=[1991.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[91]
137	*%-----				
138	START	TZERO=[1992.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[92]
139	*%-----				
140	START	TZERO=[1993.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[93]
141	*%-----				
142	START	TZERO=[1994.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[94]
143	*%-----				
144	START	TZERO=[1995.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[95]
145	*%-----				
146	START	TZERO=[1996.0101],	METOUT=[2],	NSTORM=[0],	NRUN=[96]
147	*%-----				


```
148 START TZERO=[1997.0101], METOUT=[2], NSTORM=[0], NRUN=[97]
149 *%-----|-----
-----|
150 START TZERO=[1998.0101], METOUT=[2], NSTORM=[0], NRUN=[98]
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 # Project Name: Barhaven Conservancy Development
00002 # Project Number: 1474
00003 # Date : 2021/Oct/18
00004 # Modeler : J.Burnett, P.Eng.
00005 # Updated : 2022/Dec/07 [L]
00006 # Updated : 2022/Dec/13 [LP]
00007 # Updated : 2024/Mar/14 [SB]
00008 # Company : J.F. Sabourin and Associates
00009 # License # : 2582634
00010 # Ottawa International Airport (1967 - 2003)
00011 # READ AES DATA
00012 [Filename = YOR_1967_2007_123]
00013 [Start_date: 1967-01-01; End_date: 1968-12-31]
00014 [Dw: 60,min Length: 8760,hrs; WetHrs: 413; DryHrs: 8347; PTO?: 592.80]
00015 Maximum average rainfall intensities over
00016 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00017 39.30 17.05 11.37 6.23 3.74 1.87 1.26 .95 .70 mm/hr
00018 [CN= 72.0; R= 3.0; Tpe= 1.24]
00019 # Number of events with at least the following durations
00020 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00021 137 105 95 84 72 63 48 43 36
00022 [IAREC= 6.0; SMIN= 39.75; SMAX=264.99; SK= .030]
00023 [InterEventTime= 12.00]
00024 # CONTINUE API
00025 [APIIn: 50.00; APIQty: 9000; APIhd: 9956]
00026 [APImax= 76.77; APIave: 24.81; APImin: 3.06]
00027 [CN= 72.0; R= 3.0; Tpe= 2.07]
00028 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00029 # R066-C0004-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00030 CONTINUOUS NASHYD 5.0 01West_1 14.27 .151 1968.0817, 6:55 67.82 114 .000
00031 [CN= 72.0; R= 3.0; Tpe= 1.24]
00032 [IAREC= 6.0; SMIN= 39.75; SMAX=264.99; SK= .030]
00033 [InterEventTime= 12.00]
00034 # R066-C0008-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00035 CONTINUOUS NASHYD 5.0 01West_2 20.14 .223 1968.0817, 6:00 77.11 130 .000
00036 [CN= 72.0; R= 3.0; Tpe= 1.24]
00037 [IAREC= 6.0; SMIN= 32.46; SMAX=216.39; SK= .030]
00038 [InterEventTime= 12.00]
00039 # R066-C0008-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00040 CONTINUOUS NASHYD 5.0 01West_3 14.01 .082 1968.0817, 6:50 66.09 111 .000
00041 [CN= 72.0; R= 3.0; Tpe= 1.24]
00042 [IAREC= 6.0; SMIN= 41.38; SMAX=275.84; SK= .030]
00043 [InterEventTime= 12.00]
00044 # R066-C0007-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00045 ADD HYD 5.0 02West_1 14.27 .151 1968.0817, 6:55 67.82 n/a .000
00046 + 5.0 02West_2 20.14 .223 1968.0817, 6:00 77.11 n/a .000
00047 + 5.0 02West_3 14.01 .082 1968.0817, 6:50 66.09 n/a .000
00048 SUM 5.0 01West-Total 48.42 .442 1968.0817, 6:00 61.18 n/a .000
00049 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00050 # R066-C0008-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00051 # Set infiltration to 0 (CN = 99.99) for water balance analysis
00052 # R066-C0008-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00053 CONTINUOUS NASHYD 5.0 01INF-West_1 14.27 .406 1968.0817, 5:45 210.47 355 .000
00054 [CN= 99.99; R= 3.0; Tpe= 1.41]
00055 [IAREC= 6.0; SMIN= 1.39; SMAX= 9.24; SK= .000]
00056 [InterEventTime= 12.00]
00057 # R066-C0008-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00058 CONTINUOUS NASHYD 5.0 01INF-West_2 20.14 .522 1968.0817, 6:55 210.47 355 .000
00059 [CN= 99.99; R= 3.0; Tpe= 1.24]
00060 [IAREC= 6.0; SMIN= 1.39; SMAX= 9.24; SK= .000]
00061 [InterEventTime= 12.00]
00062 # R066-C0008-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00063 CONTINUOUS NASHYD 5.0 01INF-West_3 14.01 .226 1968.0817, 6:40 210.47 355 .000
00064 [CN= 99.99; R= 3.0; Tpe= 2.07]
00065 [IAREC= 6.0; SMIN= 1.39; SMAX= 9.24; SK= .000]
00066 [InterEventTime= 12.00]
00067 # R066-C0011-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00068 ADD HYD 5.0 02INF-West_1 14.27 .406 1968.0817, 5:45 210.47 n/a .000
00069 + 5.0 02INF-West_2 20.14 .522 1968.0817, 6:55 210.47 n/a .000
00070 + 5.0 02INF-West_3 14.01 .226 1968.0817, 6:40 210.47 n/a .000
00071 SUM 5.0 01INF-West-T 48.42 .113 1968.0817, 6:55 210.47 n/a .000
00072 # CONTINUOUS RAINFALL DATA
00073 [CN= 99.99; R= 3.0; Tpe= 1.41]
00074 [IAREC= 6.0; SMIN= 1.39; SMAX= 9.24; SK= .000]
00075 [InterEventTime= 12.00]
00076 # R066-C0011-----DtmIn-ID-NHYD-----AREHA-QPEARms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
00077 ADD HYD 5.0 02INF-West_1 14.27 .406 1968.0817, 5:45 210.47 n/a .000
00078 + 5.0 02INF-West_2 20.14 .522 1968.0817, 6:55 210.47 n/a .000
00079 + 5.0 02INF-West_3 14.01 .226 1968.0817, 6:40 210.47 n/a .000
00080 SUM 5.0 01INF-West-T 48.42 .112 1967.0921, 18:35 197.58 n/a .000
00081 # END OF RUN : 67
00082 # Summary file: C:\Temp\20240306-Pre-Dev\BCD_WEST-PRE_v03.sum
00083 # User comments:
00084 # 1:
00085 # 2:
00086 # 3:
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00795 # 712:
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00797 # 714:
00798 # 715:
00799 # 716:
00800 # 717:
00801 # 718:
00802 # 719:
00803 # 720:
00804 # 721:
00805 # 722:
00806 # 723:
00807 # 724:
00808 # 725:
00809 # 726:
00810 # 727:
00811 # 728:
00812 # 729:
00813 # 730:
00814 # 731:
00815 # 732:
00816 # 733:
00817 # 734:
00818 # 735:
00819 # 736:
00820 # 737:
00821 # 738:
00822 # 739:
00823 # 740:
00824 # 741:
00825 # 742:
00826 # 743:
00827 # 744:
00828 # 745:
00829 # 746:
00830 # 747:
00831 # 748:
00832 # 749:
00833 # 750:
00834 # 751:
00835 # 752:
00836 # 753:
00837 # 754:
00838 # 755:
00839 # 756:
00840 # 757:
00841 # 758:
00842 # 759:
00843 # 760:
00844 # 761:
00845 # 762:
00846 # 763:
00847 # 764:
00848 # 765:
00849 # 766:
00850 # 767:
00851 # 768:
00852 # 769:
00853 # 770:
00854 # 771:
00855 # 772:
00856 # 773:
00857 # 774:
00858 # 775:
00859 # 776:
00860 # 777:
00861 # 778

00361> # CONTINUOUS RAINFALL DATA
00362> #####
00363> ** END OF RUN : 69
00364>
00365>
00366>
00367>
00368>
00369>
00370>
00371> RUN# COMMANDS
00372> R0701-C0001
00373> START
00374> [ZERO = .00 hrs on 1970101]
00375> [METRPS = 2 (Impperial, 2-metric output)]
00376> [INSTORM = 0]
00377> [RUM = 0]
00378> #####
00379> # SWMHYD Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00380> #####
00381> # Project Name: Barhoven Conservancy Development
00382> # Project Number: 1474
00383> # Date : 2021/Oct/18
00384> # Modifier : J.Burnett, P.Eng.
00385> # Updated : 2022/Dec/07 [J]
00386> # Updated : 2022/Dec/13 [LP]
00387> # Updated : 2024/Mar/14 [JBS]
00388> # Company : J.F. Sabourin and Associates
00389> # License # : 2582634
00390> #
00391> # Ottawa International Airport (1967 - 2003)
00392> #####
00393> # READ A&S DATA
00394> [Filename = YOM_1967_2007_123]
00395> [Start_date = 1970.0101; End_date = 1970.1231]
00396> [Dw= 60,min; Length= 8760; hrs; WtHrs= 3731; DryHrs= 8387; PTO= 558.90]
00397> #####
00398> # Maximum average rainfall intensities over
00399> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 36 hrs 48 hrs 72 hrs
00400> 35.30 18.30 12.20 6.10 3.63 1.81 1.21 1.46 .99 mm/hr
00401> 35.30 36.40 36.60 36.60 43.50 43.50 65.90 71.20 ==
00402> #####
00403> # Number of rainfall events per following increment time
00404> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00405> 148 127 109 84 72 60 54 41 30
00406> #####
00407> # Number of events with at least the following durations
00408> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00409> 147 79 46 15 3 0 0 0 0
00410> R0701-C0003
00411> #####
00412> # COMPUTE API
00413> [API= 50.00; APIKty= 9000; APIKdx= 9956]
00414> [APImax= 76.00; APIAry= 15.84; APIDim= .07]
00415> #####
00416> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00417> #####
00418> # R0701-C0004-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00419> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .193 1970.0926.22:00 52.85 095 .000
00420> [Cm= 12.0; R= 3.00; Tpe= 1.24]
00421> [ISAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
00422> [InterEventTime= 12.00]
00423> R0701-C0005-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00424> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .282 1970.0926.22:05 60.26 n/a .000
00425> [Cm= 12.0; R= 3.00; Tpe= 1.24]
00426> [ISAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
00427> [InterEventTime= 12.00]
00428> R0701-C0006-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00429> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .108 1970.0926.22:55 51.48 092 .000
00430> [Cm= 12.0; R= 3.00; Tpe= 1.24]
00431> [ISAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
00432> [InterEventTime= 12.00]
00433> R0701-C0007-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00434> ADD HYD + 5.0 02:West_1 14.27 .193 1970.0926.22:00 52.85 n/a .000
00435> + 5.0 02:West_2 20.14 .282 1970.0926.22:05 60.26 n/a .000
00436> + 5.0 02:West_3 14.01 .108 1970.0926.22:55 51.48 n/a .000
00437> + 5.0 01:West-Total 48.42 .562 1970.0926.22:10 155.53 n/a .000
00438> #####
00439> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00440> #####
00441> # R0701-C0008-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00442> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .436 1970.0926.21:50 178.67 320 .000
00443> [Cm= 12.0; R= 3.00; Tpe= 1.24]
00444> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00445> [InterEventTime= 12.00]
00446> R0701-C0009-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00447> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .563 1970.0926.21:55 178.67 320 .000
00448> [Cm= 12.0; R= 3.00; Tpe= 1.24]
00449> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00450> [InterEventTime= 12.00]
00451> R0701-C0010-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00452> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .247 1970.0926.22:45 178.67 320 .000
00453> [Cm= 12.0; R= 3.00; Tpe= 1.24]
00454> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00455> [InterEventTime= 12.00]
00456> R0701-C0011-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00457> ADD HYD + 5.0 02:West_1 14.27 .436 1970.0926.21:50 178.67 n/a .000
00458> + 5.0 02:West_2 20.14 .563 1970.0926.21:55 178.67 n/a .000
00459> + 5.0 02:West_3 14.01 .247 1970.0926.22:45 178.67 n/a .000
00460> + 5.0 01:West-Total 48.42 1.199 1970.0926.22:00 178.67 n/a .000
00461> #####
00462> # CONTINUOUS RAINFALL DATA
00463> #####
00464> ** END OF RUN : 70
00465>
00466>
00467>
00468>
00469>
00470>
00471> RUN# COMMANDS
00472> R0701-C0001
00473> START
00474> [ZERO = .00 hrs on 1970101]
00475> [METRPS = 2 (Impperial, 2-metric output)]
00476> [INSTORM = 0]
00477> [RUM = 0]
00478> #####
00479> # SWMHYD Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00480> #####
00481> # Project Name: Barhoven Conservancy Development
00482> # Project Number: 1474
00483> # Date : 2021/Oct/18
00484> # Modifier : J.Burnett, P.Eng.
00485> # Updated : 2022/Dec/07 [J]
00486> # Updated : 2022/Dec/13 [LP]
00487> # Updated : 2024/Mar/14 [JBS]
00488> # Company : J.F. Sabourin and Associates
00489> # License # : 2582634
00490> #
00491> # Ottawa International Airport (1967 - 2003)
00492> #####
00493> # READ A&S DATA
00494> [Filename = YOM_1967_2007_123]
00495> [Start_date = 1970.0101; End_date = 1970.1231]
00496> [Dw= 60,min; Length= 8760; hrs; WtHrs= 4121; DryHrs= 8348; PTO= 522.10]
00497> #####
00498> # Maximum average rainfall intensities over
00499> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 36 hrs 48 hrs 72 hrs
00500> 24.60 16.60 11.67 6.13 3.09 1.56 1.06 .79 .54 mm/hr
00501> 24.60 31.20 35.00 36.80 37.10 37.40 38.00 38.00 38.90 ==
00502> #####
00503> # Number of rainfall events per following increment time
00504> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00505> 156 123 113 93 72 61 42 33
00506> #####
00507> # Number of events with at least the following durations
00508> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00509> 155 81 59 22 2 0 0 0 0
00510> R0701-C0003
00511> #####
00512> # COMPUTE API
00513> [API= 50.00; APIKty= 9000; APIKdx= 9956]
00514> [APImax= 62.22; APIAry= 14.84; APIDim= .36]
00515> #####
00516> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00517> #####
00518> # R0701-C0004-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00519> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .140 1971.0810.16:30 39.74 076 .000
00520> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00521> [ISAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
00522> [InterEventTime= 12.00]
00523> R0701-C0005-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00524> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .212 1971.0810.16:35 45.48 .087 .000
00525> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00526> [ISAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
00527> [InterEventTime= 12.00]
00528> R0701-C0006-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00529> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .085 1971.0810.17:20 38.68 074 .000
00530> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00531> [ISAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
00532> [InterEventTime= 12.00]
00533> R0701-C0007-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00534> ADD HYD + 5.0 02:West_1 14.27 .140 1971.0810.16:30 39.74 n/a .000
00535> + 5.0 02:West_2 20.14 .212 1971.0810.16:35 45.48 n/a .000
00536> + 5.0 02:West_3 14.01 .085 1971.0810.17:20 38.68 n/a .000
00537> + 5.0 01:West-Total 48.42 .425 1971.0810.16:35 112.82 n/a .000
00538> #####
00539> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00540> #####
00541> # R0701-C0008-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00542> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .507 1972.0807.23:35 305.45 389 .000
00543> [Cm= 12.0; R= 3.00; Tpe= 1.41]
00544> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00545> [InterEventTime= 12.00]
00546> R0701-C0009-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00547> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .663 1972.0807.23:40 305.45 389 .000
00548> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00549> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00550> [InterEventTime= 12.00]
00551> R0701-C0010-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00552> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .307 1972.0808.03:30 305.45 389 .000
00553> [Cm= 12.0; R= 3.00; Tpe= 2.07]
00554> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00555> [InterEventTime= 12.00]
00556> R0701-C0011-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00557> ADD HYD + 5.0 02:West_1 14.27 .507 1972.0807.23:35 305.45 n/a .000
00558> + 5.0 02:West_2 20.14 .663 1972.0807.23:40 305.45 n/a .000
00559> + 5.0 02:West_3 14.01 .307 1972.0808.03:30 305.45 n/a .000
00560> + 5.0 01:West-Total 48.42 1.429 1972.0807.23:45 305.45 n/a .000
00561> #####
00562> # CONTINUOUS RAINFALL DATA
00563> #####
00564> ** END OF RUN : 72
00565>
00566>
00567>
00568>
00569>
00570>
00571> RUN# COMMANDS
00572> R0701-C0001
00573> START
00574> [ZERO = .00 hrs on 1970101]
00575> [METRPS = 2 (Impperial, 2-metric output)]
00576> [INSTORM = 0]
00577> [RUM = 0]
00578> #####
00579> # SWMHYD Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00580> #####
00581> # Project Name: Barhoven Conservancy Development
00582> # Project Number: 1474
00583> # Date : 2021/Oct/18
00584> # Modifier : J.Burnett, P.Eng.
00585> # Updated : 2022/Dec/07 [J]
00586> # Updated : 2022/Dec/13 [LP]
00587> # Updated : 2024/Mar/14 [JBS]
00588> # Company : J.F. Sabourin and Associates
00589> # License # : 2582634
00590> #
00591> # Ottawa International Airport (1967 - 2003)
00592> #####
00593> # READ A&S DATA
00594> [Filename = YOM_1967_2007_123]
00595> [Start_date = 1970.0101; End_date = 1970.1230]
00596> [Dw= 60,min; Length= 8760; hrs; WtHrs= 489; DryHrs= 8271; PTO= 784.30]
00597> #####
00598> # Maximum average rainfall intensities over
00599> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00600> 37.30 19.15 12.97 6.15 4.50 2.53 2.00 1.71 1.17 mm/hr
00601> 37.30 38.30 38.90 48.90 54.00 60.70 72.10 82.20 84.20 ==
00602> #####
00603> # Number of rainfall events per following increment time
00604> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00605> 170 133 122 86 76 60 45 41 31
00606> #####
00607> # Number of events with at least the following durations
00608> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00609> 169 94 93 0 0 0 0 0 0
00610> R0701-C0003
00611> #####
00612> # COMPUTE API
00613> [API= 50.00; APIKty= 9000; APIKdx= 9956]
00614> [APImax= 108.88; APIAry= 21.70; APIDim= .00]
00615> #####
00616> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00617> #####
00618> # R0701-C0004-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00619> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .278 1972.0807.23:45 121.97 156 .000
00620> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00621> [ISAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
00622> [InterEventTime= 12.00]
00623> R0701-C0005-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00624> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .402 1972.0807.23:50 136.80 174 .000
00625> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00626> [ISAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
00627> [InterEventTime= 12.00]
00628> R0701-C0006-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00629> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .164 1972.0808.03:55 119.16 152 .000
00630> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00631> [ISAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
00632> [InterEventTime= 12.00]
00633> R0701-C0007-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00634> ADD HYD + 5.0 02:West_1 14.27 .278 1972.0807.23:45 121.97 n/a .000
00635> + 5.0 02:West_2 20.14 .402 1972.0807.23:50 136.80 n/a .000
00636> + 5.0 02:West_3 14.01 .164 1972.0808.03:55 119.16 n/a .000
00637> + 5.0 01:West-Total 48.42 814 1972.0807.23:55 127.32 n/a .000
00638> #####
00639> # Barhoven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00640> #####
00641> # R0701-C0008-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00642> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .507 1972.0807.23:35 305.45 389 .000
00643> [Cm= 12.0; R= 3.00; Tpe= 1.41]
00644> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00645> [InterEventTime= 12.00]
00646> R0701-C0009-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00647> CONTINUOUS NASHYD 5.0 01:West_2 20.14 .663 1972.0807.23:40 305.45 389 .000
00648> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00649> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00650> [InterEventTime= 12.00]
00651> R0701-C0010-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00652> CONTINUOUS NASHYD 5.0 01:West_3 14.01 .307 1972.0808.03:30 305.45 389 .000
00653> [Cm= 12.0; R= 3.00; Tpe= 2.07]
00654> [ISAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
00655> [InterEventTime= 12.00]
00656> R0701-C0011-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00657> ADD HYD + 5.0 02:West_1 14.27 .507 1972.0807.23:35 305.45 n/a .000
00658> + 5.0 02:West_2 20.14 .663 1972.0807.23:40 305.45 n/a .000
00659> + 5.0 02:West_3 14.01 .307 1972.0808.03:30 305.45 n/a .000
00660> + 5.0 01:West-Total 48.42 1.429 1972.0807.23:45 305.45 n/a .000
00661> #####
00662> # CONTINUOUS RAINFALL DATA
00663> #####
00664> ** END OF RUN : 72
00665>
00666>
00667>
00668>
00669>
00670>
00671> RUN# COMMANDS
00672> R0701-C0001
00673> START
00674> [ZERO = .00 hrs on 1970101]
00675> [METRPS = 2 (Impperial, 2-metric output)]
00676> [INSTORM = 0]
00677> [RUM = 0]
00678> #####
00679> # SWMHYD Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00680> #####
00681> # Project Name: Barhoven Conservancy Development
00682> # Project Number: 1474
00683> # Date : 2021/Oct/18
00684> # Modifier : J.Burnett, P.Eng.
00685> # Updated : 2022/Dec/07 [J]
00686> # Updated : 2022/Dec/13 [LP]
00687> # Updated : 2024/Mar/14 [JBS]
00688> # Company : J.F. Sabourin and Associates
00689> # License # : 2582634
00690> #
00691> # Ottawa International Airport (1967 - 2003)
00692> #####
00693> # READ A&S DATA
00694> [Filename = YOM_1967_2007_123]
00695> [Start_date = 1970.0101; End_date = 1973.1231]
00696> [Dw= 60,min; Length= 8760; hrs; WtHrs= 549; DryHrs= 8211; PTO= 744.90]
00697> #####
00698> # Maximum average rainfall intensities over
00699> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00700> 30.00 17.25 12.33 10.10 3.63 1.89 1.28 .96 .96 mm/hr
00701> 30.00 34.50 37.00 42.60 43.60 45.40 46.00 46.00 69.20 ==
00702> #####
00703> # Number of rainfall events per following increment time
00704> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00705> 200 164 145 108 79 61 54 43 37
00706> #####
00707> # Number of events with at least the following durations
00708> 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00709> 199 100 100 0 0 0 0 0 0
00710> R0701-C0003
00711> #####
00712> # COMPUTE API
00713> [API= 50.00; APIKty= 9000; APIKdx= 9956]
00714> [APImax= 78.26; APIAry= 20.56; APIDim= .06]
00715> #####
00716> # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00717> #####
00718> # R0701-C0004-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs
00719> CONTINUOUS NASHYD 5.0 01:West_1 14.27 .228 1973.0808.20:50 89.43 120 .000
00720> [Cm= 12.0; R= 3.00; Tpe= 1.26]
00721> [ISAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
00722> [InterEventTime= 12.00]
00723> R0701-C0005-----DRAIN-ID:HYD-----AREHA-QPEARMS-TPeakDate_hh:mm-----RUM-R-C-----DWPMs

00721# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .336 1973.0808.21:00 101.49 .136 .000
00722# [Cm=76.0; W=3.00; Tpe=1.24]
00723# [IAREC=6.00; SMIN=32.46; SMAX=216.39; SK= .030]
00724# [InterEventTime=12.00]
00725# R073#C00004-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00726# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .132 1973.0808.21:45 87.18 .117 .000
00727# [Cm=76.0; W=3.00; Tpe=1.24]
00728# [IAREC=6.00; SMIN=41.38; SMAX=275.84; SK= .030]
00729# [InterEventTime=12.00]
00730# R073#C00007-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00731# ADD HYD + 5.0 02:West_1 14.27 .228 1973.0808.20:50 89.43 n/a .000
00732# + 5.0 02:West_2 20.14 .336 1973.0808.21:00 101.49 n/a .000
00733# + 5.0 02:West_3 14.01 .132 1973.0808.21:45 87.18 n/a .000
00734# SPM= 5.0 01:West-Total 48.42 .674 1973.0808.21:00 93.79 n/a .000
00735# *****
00736# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00737# *****
00738# # Set infiltration to 0 (CM = 99.99) for water balance analysis
00739# *****
00740# R074#C00008-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00741# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .497 1973.0808.20:35 275.63 370 .000
00742# [Cm=100.0; W=3.00; Tpe=1.24]
00743# [IAREC=6.00; SMIN=1.39; SMAX= 9.24; SK= .000]
00744# [InterEventTime=12.00]
00745# R073#C00010-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00746# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .650 1973.0808.20:45 275.63 370 .000
00747# [Cm=100.0; W=3.00; Tpe=1.24]
00748# [IAREC=6.00; SMIN=1.39; SMAX= 9.24; SK= .000]
00749# [InterEventTime=12.00]
00750# R073#C00011-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00751# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .300 1973.0808.21:30 275.63 370 .000
00752# [Cm=100.0; W=3.00; Tpe=1.24]
00753# [IAREC=6.00; SMIN=1.39; SMAX= 9.24; SK= .000]
00754# [InterEventTime=12.00]
00755# R073#C00012-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00756# ADD HYD + 5.0 02:INF-West_1 14.27 .497 1973.0808.20:35 275.63 n/a .000
00757# + 5.0 02:INF-West_2 20.14 .650 1973.0808.20:45 275.63 n/a .000
00758# + 5.0 02:INF-West_3 14.01 .300 1973.0808.21:30 275.63 n/a .000
00759# SPM= 5.0 01:INF-West-? 48.42 .1401 1973.0808.20:45 275.63 n/a .000
00760# *****
00761# ***** CONTINUOUS RAINFALL DATA *****
00762# *****
00763# ** END OF RUN : 73 *****
00764#
00765#
00766#
00767#
00768#
00769#
00770#
00771# RUN# COMMANDS
00772# R073#C00013-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00773# START
00774# [ZERO = .00 hrs on 19740101]
00775# [METW= 2 (Imperial, 2-metric output)]
00776# [NFORM= 0]
00777# [RUN= 0017]
00778# *****
00779# # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00780# # *****
00781# # Project Name: Barhaven Conservancy Development
00782# # Project Number: 1474
00783# # Date : 2021/Oct/18
00784# # Modeler : J.Burnett, P.Eng.
00785# # Updated : 2022/Dec/07 [IS]
00786# # Updated : 2022/Dec/13 [LP]
00787# # Updated : 2024/Jan/14 [JFS]
00788# # Company : J.F. Sabourin and Associates
00789# # License # : 2582634
00790# # *****
00791# # Ottawa International Airport (1957 - 2003)
00792# R074#C00014-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00793# # READ AREA DATA
00794# [FileName = YOM_1967_2007_123]
00795# [Start_Date = 1974.0101; End_Date = 1974.1231]
00796# [Dw= 60; min; Length= 8760; hrs; WetRsn= 320; DryRsn= 8440; PTO= 386.20]
00797# Maximum average rainfall intensities over
00798# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00799# 20.60 15.40 10.37 5.18 2.98 1.63 1.08 .81 .54 mm/hr
00800# 20.60 31.80 31.10 31.10 35.70 39.00 39.00 39.00 39.00
00801# 19740718 19740719 19740720 19740721 19740722 19740723 19740724 19740725 19740726 19740727 19740728 19740729 19740730 19740731
00802# Number of rainfall events per following intervenc time
00803# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
00804# 129 105 93 77 63 40 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# 128 66 44 32 10 3 0 0 0
00808# R074#C00015-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00809# COMPUTE API
00810# [APIIn= 50.00; APIKdy= 9000; APIKdx= 9956]
00811# [ADImax= 52.93; ADIPavg= 11.36; ADIPmin= .00]
00812# *****
00813# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00814# *****
00815# R074#C00016-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00816# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .085 1974.0719. 1:40 24.04 .062 .000
00817# [Cm=76.0; W=3.00; Tpe=1.24]
00818# [IAREC=6.00; SMIN=39.75; SMAX=264.99; SK= .030]
00819# [InterEventTime=12.00]
00820# R074#C00017-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00821# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .130 1974.0719. 1:45 27.61 .072 .000
00822# [Cm=76.0; W=3.00; Tpe=1.24]
00823# [IAREC=6.00; SMIN=32.46; SMAX=216.39; SK= .030]
00824# [InterEventTime=12.00]
00825# R074#C00018-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00826# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .050 1974.0719. 2:30 23.38 .061 .000
00827# [Cm=76.0; W=3.00; Tpe=1.24]
00828# [IAREC=6.00; SMIN=41.38; SMAX=275.84; SK= .030]
00829# [InterEventTime=12.00]
00830# R073#C00019-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00831# ADD HYD + 5.0 02:West_1 14.27 .085 1974.0719. 1:40 24.04 n/a .000
00832# + 5.0 02:West_2 20.14 .130 1974.0719. 1:45 27.61 n/a .000
00833# + 5.0 02:West_3 14.01 .050 1974.0719. 2:30 23.38 n/a .000
00834# SPM= 5.0 01:West-Total 48.42 .257 1974.0719. 1:45 25.33 n/a .000
00835# *****
00836# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
00837# *****
00838# # Set infiltration to 0 (CM = 99.99) for water balance analysis
00839# *****
00840# R074#C00019-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00841# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .310 1974.0719. 1:20 95.45 247 .000
00842# [Cm=100.0; W=3.00; Tpe=1.24]
00843# [IAREC=6.00; SMIN=1.39; SMAX= 9.24; SK= .000]
00844# [InterEventTime=12.00]
00845# R074#C00020-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00846# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .408 1974.0719. 1:30 95.45 n/a .000
00847# [Cm=100.0; W=3.00; Tpe=1.24]
00848# [IAREC=6.00; SMIN=1.39; SMAX= 9.24; SK= .000]
00849# [InterEventTime=12.00]
00850# R074#C00021-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00851# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .189 1974.0719. 2:10 95.45 247 .000
00852# [Cm=100.0; W=3.00; Tpe=1.24]
00853# [IAREC=6.00; SMIN=1.39; SMAX= 9.24; SK= .000]
00854# [InterEventTime=12.00]
00855# R074#C00022-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00856# ADD HYD + 5.0 02:INF-West_1 14.27 .310 1974.0719. 1:20 95.45 n/a .000
00857# + 5.0 02:INF-West_2 20.14 .408 1974.0719. 1:30 95.45 n/a .000
00858# + 5.0 02:INF-West_3 14.01 .189 1974.0719. 2:10 95.45 n/a .000
00859# SPM= 5.0 01:INF-West-? 48.42 .880 1974.0719. 1:30 95.45 n/a .000
00860# *****
00861# ***** CONTINUOUS RAINFALL DATA *****
00862# *****
00863# ** END OF RUN : 74 *****
00864#
00865#
00866#
00867#
00868#
00869#
00870#
00871# RUN# COMMANDS
00872# R073#C00023-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00873# START
00874# [ZERO = .00 hrs on 19750101]
00875# [METW= 2 (Imperial, 2-metric output)]
00876# [NFORM= 0]
00877# [RUN= 0017]
00878# *****
00879# # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00880# # *****
00881# # Project Name: Barhaven Conservancy Development
00882# # Project Number: 1474
00883# # Date : 2021/Oct/18
00884# # Modeler : J.Burnett, P.Eng.
00885# # Updated : 2022/Dec/07 [IS]
00886# # Updated : 2022/Dec/13 [LP]
00887# # Updated : 2024/Jan/14 [JFS]
00888# # Company : J.F. Sabourin and Associates
00889# # License # : 2582634
00890# # *****
00891# # Ottawa International Airport (1957 - 2003)
00892# R075#C00024-----OtmIn-ID-NHVD-----AREHA-QPEARCS-TpeAdate_hh:mm-----Rvm-R-C-----DWPMOS
00893# # READ AREA DATA
00894# [FileName = YOM_1967_2007_123]
00895# [Start_Date = 1975.0101; End_Date = 1975.1231]
00896# [Dw= 60; min; Length= 8760; hrs; WetRsn= 344; DryRsn= 8416; PTO= 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 12.53 6.32 3.33 1.73 1.15 .87 .62 mm/hr
00900# 34.80 36.80 37.60 37.90 40.00 41.40 41.50 41.80 44.40

01081 # Project Name: Barhaven Conservancy Development
01082 # Project Number: 1474
01083 # Date: 2021/Oct/18
01084 # Modeler: J.Burnett, P.Eng.
01085 # Updated: 2022/Dec/07 [18]
01086 # Updated: 2022/Dec/13 [1P]
01087 # Updated: 2024/Mar/14 [38]
01088 # Company: J.F. Sabourin and Associates
01089 # License #: 2862634
01090 #####
01091 # Ottawa International Airport (1967 - 2003)
01092 R077-C0002#####
01093 # READ AES DATA
01094 [Filename = YOM_1967_2007_123]
01095 [Start_Date = 1977.0101 End_Date = 1977.1231]
01096 [Dw 60_min Length= 8014.6hrs WetHrs= 5121 DryHrs= 7504 PTO= 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 21.30 15.20 10.40 6.53 3.30 1.66 1.40 1.06 .75
01100 21.30 15.20 10.40 6.53 3.30 1.66 1.40 1.06 .75 mm
01101 1977017 1977017 1977017 1977017 1977017 1977017 1977017 1977017 1977017 date
01102 Number of rainfall events per following increment time
01103 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01104 172 142 126 99 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 171 141 125 98 77 62 52 41 29
01108 R0077-C0003#####
01109 COMPUTE AP
01110 [APInfil= 50.00; APIDkty= 9000; APIDkt= 9956]
01111 [APInmax= 74.80; APIDavg= 20.42; APIDmin= 1.63]
01112 #####
01113 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01114 # *****
01115 R077-C0004-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01116 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .145 1977.0901.23:50 70.59 104 .000
01117 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01118 [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01119 [InterEventTime= 12.00]
01120 R077-C0006-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01121 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .217 1977.0901.23:55 80.37 119 .000
01122 [Cm= 72.0; R= 3.00; Tpe= 1.26]
01123 [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01124 [InterEventTime= 12.00]
01125 R077-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01126 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .085 1977.0902.0:40 68.77 101 .000
01127 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01128 [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01129 [InterEventTime= 12.00]
01130 R077-C0007-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01131 ADD HYD + 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 + 5.0 02:West_3 14.01 .085 1977.0902.0:40 68.77 n/a .000
01134 SPM= 5.0 01:West-Total 48.42 .436 1977.0901.23:55 74.33 n/a .000
01135 # *****
01136 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01137 # *****
01138 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01139 # *****
01140 R077-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01141 CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .364 1977.0901.23:55 229.46 339 .000
01142 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01143 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01144 [InterEventTime= 12.00]
01145 R077-C0009-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01146 CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .481 1977.0901.23:40 229.47 339 .000
01147 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01148 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01149 [InterEventTime= 12.00]
01150 R077-C0010-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01151 CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .234 1977.0902.0:20 229.46 339 .000
01152 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01153 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01154 [InterEventTime= 12.00]
01155 R077-C0011-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01156 ADD HYD + 5.0 02:INF-West_1 14.27 .364 1977.0901.23:55 229.46 n/a .000
01157 + 5.0 02:INF-West_2 20.14 .481 1977.0901.23:40 229.46 n/a .000
01158 + 5.0 02:INF-West_3 14.01 .234 1977.0902.0:20 229.46 n/a .000
01159 SPM= 5.0 01:INF-West-? 48.42 1.054 1977.0901.23:40 229.46 n/a .000
01160 #####
01161 # CONTINUOUS RAINFALL DATA
01162 #####
01163 ** END OF RUN : 77
01164 #####
01165 #####
01166 #####
01167 #####
01168 #####
01169 #####
01170 #####
01171 RNN-COMMANDS
01172 R077-C0001#####
01173 START
01174 [ZERO = .00 hrs on 19780101]
01175 [NETDTS = 2 (Impregial, 2-metric output)]
01176 [NDRMS = 0]
01177 [RNN =]
01178 # *****
01179 # SWMHYMO Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
01180 # *****
01181 # Project Name: Barhaven Conservancy Development
01182 # Project Number: 1474
01183 # Date: 2021/Oct/18
01184 # Modeler: J.Burnett, P.Eng.
01185 # Updated: 2022/Dec/07 [18]
01186 # Updated: 2022/Dec/13 [1P]
01187 # Updated: 2024/Mar/14 [38]
01188 # Company: J.F. Sabourin and Associates
01189 # License #: 2862634
01190 #####
01191 # Ottawa International Airport (1967 - 2003)
01192 R078-C0002#####
01193 # READ AES DATA
01194 [Filename = YOM_1967_2007_123]
01195 [Start_Date = 1978.0101 End_Date = 1978.1231]
01196 [Dw 60_min Length= 8040.6hrs WetHrs= 4099 DryHrs= 7631 PTO= 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 36.00 36.30 36.30 36.50 39.40 40.60 41.60 41.60
01200 1978018 1978018 1978018 1978018 1978018 1978018 1978018 1978018 1978018 date
01201 Number of rainfall events per following increment time
01202 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01203 154 128 118 97 79 62 49 44 28
01204 Number of events with at least the following durations
01205 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01206 154 128 118 97 79 62 49 44 28
01207 154 128 118 97 79 62 49 44 28
01208 R0078-C0003#####
01209 COMPUTE AP
01210 [APInfil= 50.00; APIDkty= 9000; APIDkt= 9956]
01211 [APInmax= 65.36; APIDavg= 19.25; APIDmin= .25]
01212 #####
01213 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01214 # *****
01215 R078-C0004-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01216 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .180 1978.0618.17:55 53.70 084 .000
01217 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01218 [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01219 [InterEventTime= 12.00]
01220 R078-C0006-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01221 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .264 1978.0618.18:05 61.75 096 .000
01222 [Cm= 72.0; R= 3.00; Tpe= 1.26]
01223 [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01224 [InterEventTime= 12.00]
01225 R078-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01226 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .098 1978.0618.18:50 52.22 081 .000
01227 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01228 [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01229 [InterEventTime= 12.00]
01230 R078-C0007-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01231 ADD HYD + 5.0 02:West_1 14.27 .180 1978.0618.17:55 53.70 n/a .000
01232 + 5.0 02:West_2 20.14 .264 1978.0618.18:05 61.75 n/a .000
01233 + 5.0 02:West_3 14.01 .098 1978.0618.18:50 52.22 n/a .000
01234 SPM= 5.0 01:West-Total 48.42 .523 1978.0618.18:05 56.62 n/a .000
01235 # *****
01236 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01237 # *****
01238 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01239 # *****
01240 R078-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01241 CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .441 1978.0618.17:45 214.53 334 .000
01242 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01243 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01244 [InterEventTime= 12.00]
01245 R078-C0009-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01246 CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .568 1978.0618.17:55 214.53 334 .000
01247 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01248 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01249 [InterEventTime= 12.00]
01250 R078-C0010-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01251 CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .247 1978.0618.18:40 214.53 334 .000
01252 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01253 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01254 [InterEventTime= 12.00]
01255 R078-C0011-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01256 ADD HYD + 5.0 02:INF-West_1 14.27 .441 1978.0618.17:45 214.53 n/a .000
01257 + 5.0 02:INF-West_2 20.14 .568 1978.0618.17:55 214.53 n/a .000
01258 + 5.0 02:INF-West_3 14.01 .247 1978.0618.18:40 214.53 n/a .000
01259 SPM= 5.0 01:INF-West-? 48.42 1.209 1978.0618.17:55 214.53 n/a .000
01260 #####
01261 # CONTINUOUS RAINFALL DATA
01262 #####
01263 ** END OF RUN : 78
01264 #####
01265 #####
01266 #####
01267 #####
01268 #####
01269 #####
01270 #####
01271 RNN-COMMANDS
01272 R079-C0001#####
01273 START
01274 [ZERO = .00 hrs on 19790101]
01275 [NETDTS = 2 (Impregial, 2-metric output)]
01276 [NDRMS = 0]
01277 [RNN =]
01278 # *****
01279 # SWMHYMO Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
01280 # *****
01281 # Project Name: Barhaven Conservancy Development
01282 # Project Number: 1474
01283 # Date: 2021/Oct/18
01284 # Modeler: J.Burnett, P.Eng.
01285 # Updated: 2022/Dec/07 [18]
01286 # Updated: 2022/Dec/13 [1P]
01287 # Updated: 2024/Mar/14 [38]
01288 # Company: J.F. Sabourin and Associates
01289 # License #: 2862634
01290 #####
01291 # Ottawa International Airport (1967 - 2003)
01292 R079-C0002#####
01293 # READ AES DATA
01294 [Filename = YOM_1967_2007_123]
01295 [Start_Date = 1979.0101 End_Date = 1979.1231]
01296 [Dw 60_min Length= 8760.6hrs WetHrs= 546; DryHrs= 8214; PTO= 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
01300 34.90 22.00 14.67 7.33 5.14 2.63 1.75 1.31 .88 mm
01301 1979016 1979016 1979016 1979016 1979016 1979016 1979016 1979016 1979016 date
01302 Number of rainfall events per following increment time
01303 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01304 188 147 129 103 86 60 53 43 36
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 187 147 129 103 86 60 53 43 36
01308 R0079-C0003#####
01309 COMPUTE AP
01310 [APInfil= 50.00; APIDkty= 9000; APIDkt= 9956]
01311 [APInmax= 78.42; APIDavg= 23.13; APIDmin= .13]
01312 #####
01313 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01314 # *****
01315 R079-C0004-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01316 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .252 1979.0616.14:55 141.56 163 .000
01317 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01318 [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01319 [InterEventTime= 12.00]
01320 R079-C0006-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01321 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .367 1979.0616.15:00 159.06 184 .000
01322 [Cm= 72.0; R= 3.00; Tpe= 1.26]
01323 [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01324 [InterEventTime= 12.00]
01325 R079-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01326 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .139 1979.0616.15:45 138.25 160 .000
01327 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01328 [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01329 [InterEventTime= 12.00]
01330 R079-C0007-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01331 ADD HYD + 5.0 02:West_1 14.27 .252 1979.0616.14:55 141.56 n/a .000
01332 + 5.0 02:West_2 20.14 .367 1979.0616.15:00 159.06 n/a .000
01333 + 5.0 02:West_3 14.01 .139 1979.0616.15:45 138.25 n/a .000
01334 SPM= 5.0 01:West-Total 48.42 731 1979.0616.15:00 147.88 n/a .000
01335 # *****
01336 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01337 # *****
01338 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01339 # *****
01340 R079-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01341 CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .561 1979.0616.14:40 372.09 429 .000
01342 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01343 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01344 [InterEventTime= 12.00]
01345 R079-C0009-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01346 CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .725 1979.0616.14:45 372.09 429 .000
01347 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01348 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01349 [InterEventTime= 12.00]
01350 R079-C0010-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01351 CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .318 1979.0616.15:35 372.09 429 .000
01352 [Cm= 10.0; R= 3.00; Tpe= 1.07]
01353 [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01354 [InterEventTime= 12.00]
01355 R079-C0011-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01356 ADD HYD + 5.0 02:INF-West_1 14.27 .561 1979.0616.14:40 372.09 n/a .000
01357 + 5.0 02:INF-West_2 20.14 .725 1979.0616.14:45 372.09 n/a .000
01358 + 5.0 02:INF-West_3 14.01 .318 1979.0616.15:35 372.09 n/a .000
01359 SPM= 5.0 01:INF-West-? 48.42 1.548 1979.0616.14:40 372.09 n/a .000
01360 #####
01361 # CONTINUOUS RAINFALL DATA
01362 #####
01363 ** END OF RUN : 79
01364 #####
01365 #####
01366 #####
01367 #####
01368 #####
01369 #####
01370 #####
01371 RNN-COMMANDS
01372 R080-C0001#####
01373 START
01374 [ZERO = .00 hrs on 19800101]
01375 [NETDTS = 2 (Impregial, 2-metric output)]
01376 [NDRMS = 0]
01377 [RNN =]
01378 # *****
01379 # SWMHYMO Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
01380 # *****
01381 # Project Name: Barhaven Conservancy Development
01382 # Project Number: 1474
01383 # Date: 2021/Oct/18
01384 # Modeler: J.Burnett, P.Eng.
01385 # Updated: 2022/Dec/07 [18]
01386 # Updated: 2022/Dec/13 [1P]
01387 # Updated: 2024/Mar/14 [38]
01388 # Company: J.F. Sabourin and Associates
01389 # License #: 2862634
01390 #####
01391 # Ottawa International Airport (1967 - 2003)
01392 R080-C0002#####
01393 # READ AES DATA
01394 [Filename = YOM_1967_2007_123]
01395 [Start_Date = 1980.0101 End_Date = 1980.1230]
01396 [Dw 60_min Length= 8760.6hrs WetHrs= 427; DryHrs= 8333; PTO= 622.00]
01397 Maximum average rainfall intensities over
01398 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01399 15.00 9.20 6.50 4.72 3.57 1.97 1.35 1.01 .86
01400 15.00 9.20 6.50 4.72 3.57 1.97 1.35 1.01 .86 mm
01401 1980030 1980030 19801025 19801025 19801026 19801026 19801027 19801027 1980092 date
01402 Number of rainfall events per following increment time
01403 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01404 151 125 112 93 79 62 49 44 28
01405 Number of events with at least the following durations
01406 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01407 150 85 54 46 4 0 0 0 0
01408 R0080-C0003#####
01409 COMPUTE AP
01410 [APInfil= 50.00; APIDkty= 9000; APIDkt= 9956]
01411 [APInmax= 68.72; APIDavg= 17.50; APIDmin= .06]
01412 #####
01413 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01414 # *****
01415 R080-C0004-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01416 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .080 1980.1026.0:30 58.50 094 .000
01417 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01418 [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01419 [InterEventTime= 12.00]
01420 R080-C0006-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01421 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .122 1980.1026.0:35 66.79 107 .000
01422 [Cm= 76.0; R= 3.00; Tpe= 1.26]
01423 [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01424 [InterEventTime= 12.00]
01425 R080-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01426 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .061 1980.1026.1:10 56.97 092 .000
01427 [Cm= 72.0; R= 3.00; Tpe= 1.24]
01428 [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01429 [InterEventTime= 12.00]
01430 R080-C0007-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs
01431 ADD HYD + 5.0 02:West_1 14.27 .080 1980.1026.0:30 58.50 n/a .000
01432 + 5.0 02:West_2 20.14 .122 1980.1026.0:35 66.79 n/a .000
01433 + 5.0 02:West_3 14.01 .061 1980.1026.1:10 56.97 n/a .000
01434 SPM= 5.0 01:West-Total 48.42 260 1980.1026.0:35 61.50 n/a .000
01435 # *****
01436 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01437 # *****
01438 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01439 # *****
01440 R080-C0008-----U-----AREHA-QPEAFCms-TpeakDate_hh:mm-----Rvm-R-C-----DWPMs

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01441 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .167 1980.0901.21:10 202.99 .326 .000
01442 [CIN=10.0; Ws=3.0; Tpe=1.26]
01443 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01444 [InterEventTime=12.00]
01445 RO8081C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01446 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .221 1980.0901.21:15 202.99 .326 .000
01447 [CIN=10.0; Ws=3.0; Tpe=1.26]
01448 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01449 [InterEventTime=12.00]
01450 RO8081C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01451 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .133 1980.0321.16:10 202.99 .326 .000
01452 [CIN=10.0; Ws=3.0; Tpe=1.26]
01453 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01454 [InterEventTime=12.00]
01455 RO8081C0011-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01456 ADD HYD + 5.0 02:West_1 14.27 .167 1980.0901.21:10 202.99 n/a .000
01457 [CIN=10.0; Ws=3.0; Tpe=1.26]
01458 + 5.0 02:West_2 20.14 .221 1980.0901.21:15 202.99 n/a .000
01459 + 5.0 02:West_3 14.01 .133 1980.0321.16:10 202.99 n/a .000
01460 + 5.0 02:West-Total 48.42 .391 1980.0321.15:30 202.99 n/a .000
01461 ***** CONTINUOUS RAINFALL DATA *****
01462 [CIN=100.0; Ws=3.0; Tpe=2.07]
01463 ** END OF RUN : 80 *****
01464 *****
01465 *****
01466 *****
01467 *****
01468 *****
01469 *****
01470 *****
01471 RUM:COMMANDS
01472 RO81C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01473 START [ZERO = .00 hrs on 19810101]
01474 [ZERO = .00 hrs on 19810101]
01475 [METRO= 2 (Linear, 2-metric output)]
01476 [METRO= 0]
01477 [RUM = 002]
01478 *****
01479 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01480 *****
01481 # Project Name: Barhaven Conservancy Development
01482 # Project Number: 1474
01483 # Date : 2021/Oct/18
01484 # Modeler : J.Burnett, P.Eng.
01485 # Updated : 2022/Dec/07 [B]
01486 # Updated : 2022/Dec/13 [P]
01487 # Updated : 2024/Mar/18 [S]
01488 # Company : J.F. Sabourin and Associates
01489 # License # : 2582634
01490 *****
01491 # Ottawa International Airport (1957 - 2003)
01492 *****
01493 # READ A&S DATA
01494 [FileName = YOM_1967_2007_123 ]
01495 [Start_Date = 1967-01-01; End_Date = 1981.1231]
01496 [Dw= 60; min Length= 8760; hrs; WetHrs= 641; DryHrs= 8119; PTO= 936.40]
01497 *****
01498 # Maximum average rainfall intensities over
01499 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01500 35.30 31.85 26.20 18.15 9.27 4.88 3.22 2.41 1.62
01501 1981005 1981005 1981005 1981005 1981005 1981005 1981005 1981005 1981005 date
01502 *****
01503 # Number of rainfall events per following interval time
01504 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01505 .226 171 136 109 83 68 59 47 30
01506 *****
01507 # Number of events with at least the following durations
01508 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01509 228 128 81 56 38 28 20 15 9
01510 *****
01511 # COMPUTE API
01512 [API= 50.00; APIkdy= 9000; APIkdt= 9956]
01513 [APImax=123.48; APIavg= 25.89; APImin= .26]
01514 *****
01515 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01516 *****
01517 RO81C0004-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01518 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .785 1981.0805.2:55 179.64 1.92 .000
01519 [CIN=10.0; Ws=3.0; Tpe=1.26]
01520 [IAREC=6.0; SMIN=39.75; SMAX=264.99; SK=0.30]
01521 [InterEventTime=12.00]
01522 RO81C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01523 CONTINUOUS NASHVD 5.0 01:West_2 20.14 1.116 1981.0805.3:05 196.98 2.10 .000
01524 [CIN=10.0; Ws=3.0; Tpe=1.26]
01525 [IAREC=6.0; SMIN=32.46; SMAX=216.39; SK=0.30]
01526 [InterEventTime=12.00]
01527 RO81C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01528 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .557 1981.0805.4:25 176.32 1.88 .000
01529 [CIN=10.0; Ws=3.0; Tpe=1.26]
01530 [IAREC=6.0; SMIN=41.38; SMAX=275.84; SK=0.30]
01531 [InterEventTime=12.00]
01532 RO81C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01533 ADD HYD + 5.0 02:West_1 14.27 .785 1981.0805.2:55 179.64 n/a .000
01534 [CIN=10.0; Ws=3.0; Tpe=1.26]
01535 + 5.0 02:West_2 20.14 1.116 1981.0805.3:05 196.98 n/a .000
01536 + 5.0 02:West_3 14.01 .557 1981.0805.4:25 176.32 n/a .000
01537 + 5.0 02:West-Total 48.42 2.359 1981.0805.3:10 185.89 n/a .000
01538 *****
01539 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01540 *****
01541 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01542 *****
01543 RO81C0008-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01544 CONTINUOUS NASHVD 5.0 01:West_1 14.27 1.007 1981.0805.2:35 380.70 1.407 .000
01545 [CIN=10.0; Ws=3.0; Tpe=1.26]
01546 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01547 [InterEventTime=12.00]
01548 RO81C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01549 CONTINUOUS NASHVD 5.0 01:West_2 20.14 1.352 1981.0805.2:40 380.71 1.407 .000
01550 [CIN=10.0; Ws=3.0; Tpe=1.26]
01551 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01552 [InterEventTime=12.00]
01553 RO81C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01554 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .710 1981.0805.3:45 380.70 1.407 .000
01555 [CIN=10.0; Ws=3.0; Tpe=1.26]
01556 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01557 [InterEventTime=12.00]
01558 RO81C0011-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01559 ADD HYD + 5.0 02:West_1 14.27 1.007 1981.0805.2:35 380.70 n/a .000
01560 [CIN=10.0; Ws=3.0; Tpe=1.26]
01561 + 5.0 02:West_2 20.14 1.352 1981.0805.2:40 380.71 n/a .000
01562 + 5.0 02:West_3 14.01 .710 1981.0805.3:45 380.70 n/a .000
01563 + 5.0 02:West-Total 48.42 2.967 1981.0805.2:45 380.70 n/a .000
01564 *****
01565 # CONTINUOUS RAINFALL DATA *****
01566 [CIN=100.0; Ws=3.0; Tpe=2.07]
01567 ** END OF RUN : 81 *****
01568 *****
01569 *****
01570 *****
01571 RUM:COMMANDS
01572 RO82C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01573 START [ZERO = .00 hrs on 19820101]
01574 [ZERO = .00 hrs on 19820101]
01575 [METRO= 2 (Linear, 2-metric output)]
01576 [METRO= 0]
01577 [RUM = 004]
01578 *****
01579 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01580 *****
01581 # Project Name: Barhaven Conservancy Development
01582 # Project Number: 1474
01583 # Date : 2021/Oct/18
01584 # Modeler : J.Burnett, P.Eng.
01585 # Updated : 2022/Dec/07 [B]
01586 # Updated : 2022/Dec/13 [P]
01587 # Updated : 2024/Mar/18 [S]
01588 # Company : J.F. Sabourin and Associates
01589 # License # : 2582634
01590 *****
01591 # Ottawa International Airport (1957 - 2003)
01592 *****
01593 # READ A&S DATA
01594 [FileName = YOM_1967_2007_123 ]
01595 [Start_Date = 1967-01-01; End_Date = 1982.1231]
01596 [Dw= 60; min Length= 8760; hrs; WetHrs= 436; DryHrs= 8324; PTO= 596.10]
01597 *****
01598 # Maximum average rainfall intensities over
01599 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01600 19.80 17.50 22.80 35.00 40.10 40.10 46.30 57.30
01601 1982001 1982001 1982001 1982001 1982001 1982001 1982001 1982001 1982001 date
01602 *****
01603 # Number of rainfall events per following interval time
01604 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01605 .134 110 98 78 66 48 41 33
01606 *****
01607 # Number of events with at least the following durations
01608 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01609 123 81 56 38 28 20 15 9
01610 *****
01611 # COMPUTE API
01612 [API= 50.00; APIkdy= 9000; APIkdt= 9956]
01613 [APImax= 56.66; APIavg= 16.78; APImin= .03]
01614 *****
01615 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01616 *****
01617 RO82C0004-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01618 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .102 1982.0825.12:15 47.17 0.79 .000
01619 [CIN=10.0; Ws=3.0; Tpe=1.26]
01620 [IAREC=6.0; SMIN=39.75; SMAX=264.99; SK=0.30]
01621 [InterEventTime=12.00]
01622 RO82C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01623 ADD HYD + 5.0 02:West_1 14.27 .102 1982.0825.12:15 47.17 n/a .000
01624 [CIN=10.0; Ws=3.0; Tpe=1.26]
01625 + 5.0 02:West_2 20.14 .358 1982.0825.11:40 182.36 3.06 .000
01626 + 5.0 02:West_3 14.01 .100 1982.1005.17:50 50.45 0.86 .000
01627 + 5.0 02:West-Total 48.42 419 1982.1005.16:45 54.37 n/a .000
01628 *****
01629 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01630 *****
01631 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01632 *****
01633 RO82C0008-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01634 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .264 1982.0825.11:35 182.36 n/a .000
01635 [CIN=100.0; Ws=3.0; Tpe=2.07]
01636 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01637 [InterEventTime=12.00]
01638 RO82C0009-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01639 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .358 1982.0825.11:40 182.36 3.06 .000
01640 [CIN=100.0; Ws=3.0; Tpe=2.07]
01641 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01642 [InterEventTime=12.00]
01643 RO82C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01644 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .196 1982.0825.12:45 182.36 3.06 .000
01645 [CIN=100.0; Ws=3.0; Tpe=2.07]
01646 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01647 [InterEventTime=12.00]
01648 RO82C0011-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01649 ADD HYD + 5.0 02:West_1 14.27 .264 1982.0825.11:35 182.36 n/a .000
01650 [CIN=100.0; Ws=3.0; Tpe=2.07]
01651 + 5.0 02:West_2 20.14 .358 1982.0825.11:40 182.36 n/a .000
01652 + 5.0 02:West_3 14.01 .196 1982.0825.12:45 182.36 n/a .000
01653 + 5.0 02:West-Total 48.42 794 1982.0825.11:50 182.36 n/a .000
01654 *****
01655 # CONTINUOUS RAINFALL DATA *****
01656 [CIN=100.0; Ws=3.0; Tpe=2.07]
01657 ** END OF RUN : 82 *****
01658 *****
01659 *****
01660 *****
01661 *****
01662 *****
01663 *****
01664 *****
01665 *****
01666 *****
01667 *****
01668 *****
01669 *****
01670 *****
01671 RUM:COMMANDS
01672 RO83C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01673 START [ZERO = .00 hrs on 19830101]
01674 [ZERO = .00 hrs on 19830101]
01675 [METRO= 2 (Linear, 2-metric output)]
01676 [METRO= 0]
01677 [RUM = 002]
01678 *****
01679 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01680 *****
01681 # Project Name: Barhaven Conservancy Development
01682 # Project Number: 1474
01683 # Date : 2021/Oct/18
01684 # Modeler : J.Burnett, P.Eng.
01685 # Updated : 2022/Dec/07 [B]
01686 # Updated : 2022/Dec/13 [P]
01687 # Updated : 2024/Mar/18 [S]
01688 # Company : J.F. Sabourin and Associates
01689 # License # : 2582634
01690 *****
01691 # Ottawa International Airport (1957 - 2003)
01692 *****
01693 # READ A&S DATA
01694 [FileName = YOM_1967_2007_123 ]
01695 [Start_Date = 1967-01-01; End_Date = 1983.1231]
01696 [Dw= 60; min Length= 8760; hrs; WetHrs= 462; DryHrs= 8298; PTO= 587.50]
01697 *****
01698 # Maximum average rainfall intensities over
01699 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01700 10.40 9.70 7.50 5.43 3.18 2.36 1.68 1.32 .92
01701 1983104 1983104 1983104 1983104 1983104 1983104 1983104 1983104 1983104 date
01702 *****
01703 # Number of rainfall events per following interval time
01704 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01705 143 115 107 85 70 55 50 45 35
01706 *****
01707 # Number of events with at least the following durations
01708 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01709 142 87 56 38 28 20 15 9
01710 *****
01711 # COMPUTE API
01712 [API= 50.00; APIkdy= 9000; APIkdt= 9956]
01713 [APImax= 79.86; APIavg= 16.57; APImin= .05]
01714 *****
01715 # Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01716 *****
01717 RO83C0004-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01718 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .132 1983.1005.16:30 51.78 0.88 .000
01719 [CIN=10.0; Ws=3.0; Tpe=1.26]
01720 [IAREC=6.0; SMIN=39.75; SMAX=264.99; SK=0.30]
01721 [InterEventTime=12.00]
01722 RO83C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01723 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .202 1983.1005.16:35 58.94 1.00 .000
01724 [CIN=10.0; Ws=3.0; Tpe=1.26]
01725 [IAREC=6.0; SMIN=32.46; SMAX=216.39; SK=0.30]
01726 [InterEventTime=12.00]
01727 RO83C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01728 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .100 1983.1005.17:50 50.45 0.86 .000
01729 [CIN=10.0; Ws=3.0; Tpe=1.26]
01730 [IAREC=6.0; SMIN=41.38; SMAX=275.84; SK=0.30]
01731 [InterEventTime=12.00]
01732 RO83C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01733 ADD HYD + 5.0 02:West_1 14.27 .132 1983.1005.16:30 51.78 n/a .000
01734 [CIN=10.0; Ws=3.0; Tpe=1.26]
01735 + 5.0 02:West_2 20.14 .202 1983.1005.16:35 58.94 n/a .000
01736 + 5.0 02:West_3 14.01 .100 1983.1005.17:50 50.45 n/a .000
01737 + 5.0 02:West-Total 48.42 419 1983.1005.16:45 54.37 n/a .000
01738 *****
01739 # Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01740 *****
01741 # Set infiltration to 0 (CN = 99.99) for water balance analysis
01742 *****
01743 RO83C0008-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01744 CONTINUOUS NASHVD 5.0 01:West_1 14.27 .252 1983.1005.16:00 172.99 2.94 .000
01745 [CIN=100.0; Ws=3.0; Tpe=2.07]
01746 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01747 [InterEventTime=12.00]
01748 RO83C0009-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01749 CONTINUOUS NASHVD 5.0 01:West_2 20.14 .339 1983.1005.16:10 172.99 2.94 .000
01750 [CIN=100.0; Ws=3.0; Tpe=2.07]
01751 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01752 [InterEventTime=12.00]
01753 RO83C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01754 CONTINUOUS NASHVD 5.0 01:West_3 14.01 .184 1983.1005.17:20 172.99 2.94 .000
01755 [CIN=100.0; Ws=3.0; Tpe=2.07]
01756 [IAREC=6.0; SMIN=1.39; SMAX=9.24; SK=0.00]
01757 [InterEventTime=12.00]
01758 RO83C0011-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01759 ADD HYD + 5.0 02:West_1 14.27 .252 1983.1005.16:00 172.99 n/a .000
01760 [CIN=100.0; Ws=3.0; Tpe=2.07]
01761 + 5.0 02:West_2 20.14 .339 1983.1005.16:10 172.99 n/a .000
01762 + 5.0 02:West_3 14.01 .184 1983.1005.17:20 172.99 n/a .000
01763 + 5.0 02:West-Total 48.42 746 1983.1005.16:15 172.99 n/a .000
01764 *****
01765 # CONTINUOUS RAINFALL DATA *****
01766 [CIN=100.0; Ws=3.0; Tpe=2.07]
01767 ** END OF RUN : 83 *****
01768 *****
01769 *****
01770 *****
01771 RUM:COMMANDS
01772 RO84C0001-----Othm-ID:INHDY-----AREHA-QPEACms-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
01773 START [ZERO = .00 hrs on 19840101]
01774 [ZERO = .00 hrs on 19840101]
01775 [METRO= 2 (Linear, 2-metric output)]
01776 [METRO= 0]
01777 [RUM = 004]
01778 *****
01779 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01780 *****
01781 # Project Name: Barhaven Conservancy Development
01782 # Project Number: 1474
01783 # Date : 2021/Oct/18
01784 # Modeler : J.Burnett, P.Eng.
01785 # Updated : 2022/Dec/07 [B]
01786 # Updated : 2022/Dec/13 [P]
01787 # Updated : 2024/Mar/18 [S]
01788 # Company : J.F. Sabourin and Associates
01789 # License # : 2582634
01790 *****
01791 # Ottawa International Airport (1957 - 2003)
01792 *****
01793 # READ A&S DATA
01794 [FileName = YOM_1967_2007_123 ]
01795 [Start_Date = 1967-01-01; End_Date = 1984.1230]
01796 [Dw= 60; min Length= 8760; hrs; WetHrs= 308; DryHrs= 8452; PTO= 459.40]
01797 *****
01798 # Maximum average rainfall intensities over
01799 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
01800 17.80 19.40 22.70 26.00 30.10 44.30 57.00 67.00 72.00

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01801# 19840812 19840812 19840812 19840806 19840812 19840813 19840813 19840814 19840815 date
01802# Number of rainfall events per following increment 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 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 27 13 8 4 2 0 0
01808# R0884:C00003-----
01809# COMPUTE API
01810# [APItime= 50.00; APIkdy= 9000; APIkdt= 9956]
01811# [APImax= 86.83; APIavg= 13.22; APImin= .00]
01812# *****
01813# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01814# *****
01815# R0884:C00004-----
01816# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .112 1984.0813_7:05 49.92 109 .000
01817# [CN= 72.0; H= 3.00; Tpe= 1.26]
01818# [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01819# [InterEventTime= 12.00]
01820# R0884:C00005-----
01821# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .162 1984.0813_7:15 56.90 124 .000
01822# [CN= 76.0; H= 3.00; Tpe= 1.26]
01823# [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01824# [InterEventTime= 12.00]
01825# R0884:C00006-----
01826# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .073 1984.0813_8:35 48.62 106 .000
01827# [CN= 72.0; H= 3.00; Tpe= 1.26]
01828# [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01829# [InterEventTime= 12.00]
01830# R0884:C00007-----
01831# ADD HYD + 5.0 02:West_1 14.27 .112 1984.0813_7:05 49.92 n/a .000
01832# + 5.0 02:West_2 20.14 .162 1984.0813_7:15 56.90 n/a .000
01833# + 5.0 02:West_3 14.01 .073 1984.0813_8:35 48.62 n/a .000
01834# SPM 5.0 01:West-Total 48.42 .332 1984.0813_7:20 32.45 n/a .000
01835# *****
01836# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01837# *****
01838# # Set infiltration to 0 (CN = 99.99) for water balance analysis
01839# *****
01840# R0884:C00008-----
01841# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .223 1984.0812_7:45 167.70 365 .000
01842# [CN=100.0; H= 3.00; Tpe= 1.07]
01843# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01844# [InterEventTime= 12.00]
01845# R0884:C00009-----
01846# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .287 1984.0812_7:50 167.70 365 .000
01847# [CN=100.0; H= 3.00; Tpe= 1.07]
01848# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01849# [InterEventTime= 12.00]
01850# R0884:C00010-----
01851# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .142 1984.0807_0:00 167.70 365 .000
01852# [CN=100.0; H= 3.00; Tpe= 1.07]
01853# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01854# [InterEventTime= 12.00]
01855# R0884:C00011-----
01856# ADD HYD + 5.0 02:INF-West_1 14.27 .223 1984.0812_7:45 167.70 n/a .000
01857# + 5.0 02:INF-West_2 20.14 .287 1984.0812_7:50 167.70 n/a .000
01858# + 5.0 02:INF-West_3 14.01 .142 1984.0807_0:00 167.70 n/a .000
01859# SPM 5.0 01:INF-West-? 48.42 .428 1984.0806_23:25 167.70 n/a .000
01860# *****
01861# ***** CONTINUOUS RAINFALL DATA *****
01862# *****
01863# ** END OF RUN : 84 *****
01864# *****
01865# *****
01866# *****
01867# *****
01868# *****
01869# *****
01870# *****
01871# RUN COMMANDS *****
01872# R0884:C00012-----
01873# START [ZERO = .00 hrs on 19850101]
01874# [METOUT= 2 (1=imperial, 2=metric output)]
01875# [INFOFMS= 0]
01876# [RUM= 0]
01877# *****
01878# *****
01879# *****
01880# *****
01881# SWMHYM Ver:3.02/Jan 2001 <BETA> / INPUT DATA FILE *****
01882# *****
01883# Project Name: Barhaven Conservancy Development
01884# Project Number: 1474
01885# Date : 2021/Oct/18
01886# Modeler : J.Burnett, P.Eng.
01887# Updated : 2022/Dec/07 [L]
01888# Updated : 2022/Dec/13 [LP]
01889# Updated : 2024/Mar/14 [L]
01890# Company : J.F. Sabourin and Associates
01891# License # : 2662634
01892# *****
01893# Ottawa International Airport (1957 - 2003)
01894# *****
01895# R0884:C00013-----
01896# READ A&S DATA
01897# [Filename = YOR_1967_2007_123 ]
01898# [Start_date= 1967_0101; End_date= 1986_1231]
01899# [Dw= 60; min; Length= 8040; hrs; Wethrs= 520; Dryhrs= 7520; PTO? = 849.40]
01900# Maximum average rainfall intensities over
01901# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01902# 18.30 17.80 15.57 .07 4.84 2.89 2.42 1.85 1.31 mm/hr
01903# 18.30 15.60 15.70 42.40 58.10 65.10 87.00 88.60 94.40
01904# 1980729 1980729 1980729 1980729 1980729 1980729 1980729 1980729 1980729 date
01905# Number of rainfall events per following increment time
01906# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01907# 178 144 131 104 80 63 53 48 33
01908# Number of events with at least the following durations
01909# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01910# 127 108 92 74 2 0 0 0 0
01911# *****
01912# R0884:C00014-----
01913# COMPUTE API
01914# [APItime= 50.00; APIkdy= 9000; APIkdt= 9956]
01915# [APImax=102.23; APIavg= 25.30; APImin= .17]
01916# *****
01917# *****
01918# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01919# *****
01920# R0884:C00015-----
01921# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .258 1986.0911_2:40 146.75 173 .000
01922# [CN= 100.0; H= 3.00; Tpe= 1.41]
01923# [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
01924# [InterEventTime= 12.00]
01925# R0884:C00016-----
01926# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .376 1986.0911_2:45 163.14 192 .000
01927# [CN= 100.0; H= 3.00; Tpe= 1.26]
01928# [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
01929# [InterEventTime= 12.00]
01930# R0884:C00017-----
01931# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .190 1986.0912_0:30 143.62 169 .000
01932# [CN= 100.0; H= 3.00; Tpe= 1.26]
01933# [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
01934# [InterEventTime= 12.00]
01935# R0884:C00018-----
01936# ADD HYD + 5.0 02:West_1 14.27 .258 1986.0911_2:40 146.75 n/a .000
01937# + 5.0 02:West_2 20.14 .376 1986.0911_2:45 163.14 n/a .000
01938# + 5.0 02:West_3 14.01 .190 1986.0912_0:30 143.62 n/a .000
01939# SPM 5.0 01:West-Total 48.42 .807 1986.0911_2:50 152.66 n/a .000
01940# *****
01941# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
01942# *****
01943# # Set infiltration to 0 (CN = 99.99) for water balance analysis
01944# *****
01945# R0884:C00019-----
01946# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .422 1986.0729_15:40 340.34 401 .000
01947# [CN=100.0; H= 3.00; Tpe= 1.41]
01948# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01949# [InterEventTime= 12.00]
01950# R0884:C00020-----
01951# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .560 1986.0729_15:50 340.34 401 .000
01952# [CN=100.0; H= 3.00; Tpe= 1.26]
01953# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01954# [InterEventTime= 12.00]
01955# R0884:C00021-----
01956# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .275 1986.0729_16:40 340.34 401 .000
01957# [CN=100.0; H= 3.00; Tpe= 2.07]
01958# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
01959# [InterEventTime= 12.00]
01960# R0884:C00022-----
01961# ADD HYD + 5.0 02:INF-West_1 14.27 .422 1986.0729_15:40 340.34 n/a .000
01962# + 5.0 02:INF-West_2 20.14 .560 1986.0729_15:50 340.34 n/a .000
01963# + 5.0 02:INF-West_3 14.01 .275 1986.0729_16:40 340.34 n/a .000
01964# SPM 5.0 01:INF-West-? 48.42 .123 1986.0729_15:55 340.34 n/a .000
01965# *****
01966# ***** CONTINUOUS RAINFALL DATA *****
01967# *****
01968# ** END OF RUN : 86 *****
01969# *****
01970# *****
01971# RUN COMMANDS *****
01972# R0884:C00023-----
01973# START [ZERO = .00 hrs on 19870101]
01974# [METOUT= 2 (1=imperial, 2=metric output)]
01975# [INFOFMS= 0]
01976# [RUM= 0]
01977# *****
01978# *****
01979# *****
01980# *****
01981# SWMHYM Ver:3.02/Jan 2001 <BETA> / INPUT DATA FILE *****
01982# *****
01983# Project Name: Barhaven Conservancy Development
01984# Project Number: 1474
01985# Date : 2021/Oct/18
01986# Modeler : J.Burnett, P.Eng.
01987# Updated : 2022/Dec/07 [L]
01988# Updated : 2022/Dec/13 [LP]
01989# Updated : 2024/Mar/14 [L]
01990# Company : J.F. Sabourin and Associates
01991# License # : 2662634
01992# *****
01993# Ottawa International Airport (1957 - 2003)
01994# *****
01995# R0884:C00024-----
01996# READ A&S DATA
01997# [Filename = YOR_1967_2007_123 ]
01998# [Start_date= 1967_0101; End_date= 1987_1231]
01999# [Dw= 60; min; Length= 7344; hrs; Wethrs= 492; Dryhrs= 6852; PTO? = 640.10]
02000# Maximum average rainfall intensities over
02001# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02002# 20.00 19.90 14.03 7.05 4.87 2.46 1.84 1.40 93 mm/hr
02003# 20.00 27.80 42.10 42.10 58.40 59.00 66.40 67.00 67.00
02004# 19870724 19870724 19870724 19870724 19870724 19870725 19870725 19870726 19870726 date
02005# Number of rainfall events per following increment time
02006# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02007# 180 142 128 93 74 55 49 41 28
02008# Number of events with at least the following durations
02009# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02010# 139 9 0 0 0 0 0 0 0
02011# *****
02012# R0884:C00025-----
02013# COMPUTE API
02014# [APItime= 50.00; APIkdy= 9000; APIkdt= 9956]
02015# [APImax= 75.76; APIavg= 21.41; APImin= 1.18]
02016# *****
02017# *****
02018# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02019# *****
02020# R0884:C00026-----
02021# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .183 1987.0724_15:40 68.56 107 .000
02022# [CN= 100.0; H= 3.00; Tpe= 1.41]
02023# [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
02024# [InterEventTime= 12.00]
02025# R0884:C00027-----
02026# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .274 1987.0724_15:45 77.04 120 .000
02027# [CN= 76.0; H= 3.00; Tpe= 2.07]
02028# [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
02029# [InterEventTime= 12.00]
02030# R0884:C00028-----
02031# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .115 1987.0724_16:25 66.97 105 .000
02032# [CN= 76.0; H= 3.00; Tpe= 1.26]
02033# [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
02034# [InterEventTime= 12.00]
02035# R0884:C00029-----
02036# ADD HYD + 5.0 02:West_1 14.27 .183 1987.0724_15:40 68.56 n/a .000
02037# + 5.0 02:West_2 20.14 .274 1987.0724_15:45 77.04 n/a .000
02038# + 5.0 02:West_3 14.01 .115 1987.0724_16:25 66.97 n/a .000
02039# SPM 5.0 01:West-Total 48.42 .560 1987.0724_15:45 71.63 n/a .000
02040# *****
02041# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02042# *****
02043# # Set infiltration to 0 (CN = 99.99) for water balance analysis
02044# *****
02045# R0884:C00030-----
02046# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .382 1987.0724_15:20 195.07 305 .000
02047# [CN=100.0; H= 3.00; Tpe= 1.41]
02048# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
02049# [InterEventTime= 12.00]
02050# R0884:C00031-----
02051# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .516 1987.0724_15:25 195.07 305 .000
02052# [CN=100.0; H= 3.00; Tpe= 1.26]
02053# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
02054# [InterEventTime= 12.00]
02055# R0884:C00032-----
02056# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .266 1987.0724_16:05 195.07 305 .000
02057# [CN= 100.0; H= 3.00; Tpe= 2.07]
02058# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
02059# [InterEventTime= 12.00]
02060# R0884:C00033-----
02061# ADD HYD + 5.0 02:INF-West_1 14.27 .382 1987.0724_15:20 195.07 n/a .000
02062# + 5.0 02:INF-West_2 20.14 .516 1987.0724_15:25 195.07 n/a .000
02063# + 5.0 02:INF-West_3 14.01 .266 1987.0724_16:05 195.07 n/a .000
02064# SPM 5.0 01:INF-West-? 48.42 .141 1987.0724_15:30 195.07 n/a .000
02065# *****

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01981# Project Name: Barhaven Conservancy Development
01982# Project Number: 1474
01983# Date : 2021/Oct/18
01984# Modeler : J.Burnett, P.Eng.
01985# Updated : 2022/Dec/07 [L]
01986# Updated : 2022/Dec/13 [LP]
01987# Updated : 2024/Mar/14 [L]
01988# Company : J.F. Sabourin and Associates
01989# License # : 2662634
01990# *****
01991# Ottawa International Airport (1957 - 2003)
01992# *****
01993# READ A&S DATA
01994# [Filename = YOR_1967_2007_123 ]
01995# [Start_date= 1967_0101; End_date= 1986_1231]
01996# [Dw= 60; min; Length= 8040; hrs; Wethrs= 520; Dryhrs= 7520; PTO? = 849.40]
01997# Maximum average rainfall intensities over
01998# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
01999# 18.30 17.80 15.57 .07 4.84 2.89 2.42 1.85 1.31 mm/hr
02000# 18.30 15.60 15.70 42.40 58.10 65.10 87.00 88.60 94.40
02001# 1980729 1980729 1980729 1980729 1980729 1980729 1980729 1980729 1980729 date
02002# Number of rainfall events per following increment time
02003# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02004# 178 144 131 104 80 63 53 48 33
02005# Number of events with at least the following durations
02006# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02007# 127 108 92 74 2 0 0 0 0
02008# *****
02009# R0884:C00013-----
02010# COMPUTE API
02011# [APItime= 50.00; APIkdy= 9000; APIkdt= 9956]
02012# [APImax=102.23; APIavg= 25.30; APImin= .17]
02013# *****
02014# *****
02015# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02016# *****
02017# R0884:C00014-----
02018# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .258 1986.0911_2:40 146.75 173 .000
02019# [CN= 100.0; H= 3.00; Tpe= 1.41]
02020# [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
02021# [InterEventTime= 12.00]
02022# R0884:C00015-----
02023# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .376 1986.0911_2:45 163.14 192 .000
02024# [CN= 100.0; H= 3.00; Tpe= 1.26]
02025# [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
02026# [InterEventTime= 12.00]
02027# R0884:C00016-----
02028# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .190 1986.0912_0:30 143.62 169 .000
02029# [CN= 100.0; H= 3.00; Tpe= 1.26]
02030# [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
02031# [InterEventTime= 12.00]
02032# R0884:C00017-----
02033# ADD HYD + 5.0 02:West_1 14.27 .258 1986.0911_2:40 146.75 n/a .000
02034# + 5.0 02:West_2 20.14 .376 1986.0911_2:45 163.14 n/a .000
02035# + 5.0 02:West_3 14.01 .190 1986.0912_0:30 143.62 n/a .000
02036# SPM 5.0 01:West-Total 48.42 .807 1986.0911_2:50 152.66 n/a .000
02037# *****
02038# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02039# *****
02040# # Set infiltration to 0 (CN = 99.99) for water balance analysis
02041# *****
02042# R0884:C00018-----
02043# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .422 1986.0729_15:40 340.34 401 .000
02044# [CN=100.0; H= 3.00; Tpe= 1.41]
02045# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
02046# [InterEventTime= 12.00]
02047# R0884:C00019-----
02048# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .560 1986.0729_15:50 340.34 401 .000
02049# [CN=100.0; H= 3.00; Tpe= 1.26]
02050# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
02051# [InterEventTime= 12.00]
02052# R0884:C00020-----
02053# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .275 1986.0729_16:40 340.34 401 .000
02054# [CN=100.0; H= 3.00; Tpe= 2.07]
02055# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; SK= .000]
02056# [InterEventTime= 12.00]
02057# R0884:C00021-----
02058# ADD HYD + 5.0 02:INF-West_1 14.27 .422 1986.0729_15:40 340.34 n/a .000
02059# + 5.0 02:INF-West_2 20.14 .560 1986.0729_15:50 340.34 n/a .000
02060# + 5.0 02:INF-West_3 14.01 .275 1986.0729_16:40 340.34 n/a .000
02061# SPM 5.0 01:INF-West-? 48.42 .123 1986.0729_15:55 340.34 n/a .000
02062# *****
02063# ***** CONTINUOUS RAINFALL DATA *****
02064# *****
02065# ** END OF RUN : 86 *****
02066# *****
02067# *****
02068# *****
02069# *****
02070# *****
02071# RUN COMMANDS *****
02072# R0884:C00022-----
02073# START [ZERO = .00 hrs on 19870101]
02074# [METOUT= 2 (1=imperial, 2=metric output)]
02075# [INFOFMS= 0]
02076# [RUM= 0]
02077# *****
02078# *****
02079# *****
02080# *****
02081# SWMHYM Ver:3.02/Jan 2001 <BETA> / INPUT DATA FILE *****
02082# *****
02083# Project Name: Barhaven Conservancy Development
02084# Project Number: 1474
02085# Date : 2021/Oct/18
02086# Modeler : J.Burnett, P.Eng.
02087# Updated : 2022/Dec/07 [L]
02088# Updated : 2022/Dec/13 [LP]
02089# Updated : 2024/Mar/14 [L]
02090# Company : J.F. Sabourin and Associates
02091# License # : 2662634
02092# *****
02093# Ottawa International Airport (1957 - 2003)
02094# *****
02095# R0884:C00023-----
02096# READ A&S DATA
02097# [Filename = YOR_1967_2007_123 ]
02098# [Start_date= 1967_0101; End_date= 1987_1231]
02099# [Dw= 60; min; Length= 7344; hrs; Wethrs= 492; Dryhrs= 6852; PTO? = 640.10]
02100# Maximum average rainfall intensities over
02101# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02102# 20.00 19.90 14.03 7.05 4.87 2.46 1.84 1.40 93 mm/hr
02103# 20.00 27.80 42.10 42.10 58.40 59.00 66.40 67.00 67.00
02104# 19870724 19870724 19870724 19870724 19870725 19870725 19870726 19870726 19870726 date
02105# Number of rainfall events per following increment time
02106# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02107# 180 142 128 93 74 55 49 41 28
02108# Number of events with at least the following durations
02109# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02110# 139 9 0 0 0 0 0 0 0
02111# *****
02112# R0884:C00024-----
02113# COMPUTE API
02114# [APItime= 50.00; APIkdy= 9000; APIkdt= 9956]
02115# [APImax= 75.76; APIavg= 21.41; APImin= 1.18]
02116# *****
02117# *****
02118# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02119# *****
02120# R0884:C00025-----
02121# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .183 1987.0724_15:40 68.56 107 .000
02122# [CN= 100.0; H= 3.00; Tpe= 1.41]
02123# [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; SK= .030]
02124# [InterEventTime= 12.00]
02125# R0884:C00026-----
02126# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .274 1987.0724_15:45 77.04 120 .000
02127# [CN= 76.0; H= 3.00; Tpe= 2.07]
02128# [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; SK= .030]
02129# [InterEventTime= 12.00]
02130# R0884:C00027-----
02131# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .115 1987.0724_16:25 66.97 105 .000
02132# [CN= 76.0; H= 3.00; Tpe= 1.26]
02133# [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; SK= .030]
02134# [InterEventTime= 12.00]
02135# R0884:C00028
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02161 # CONTINUOUS RAINFALL DATA
02162 #####
02163 ** END OF RUN : 87
02164
02165
02166
02167
02168
02169
02170
02171 RUN#COMMANDS
02172 RO98#C0002#####
02173 START
02174 [ZERO = .00 hrs on 1988101]
02175 [METRIC = 2 (Imperial, S-metric output)]
02176 [INSTORM = 0]
02177 [RUM = 000]
02178 #####
02179 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02180 # *****
02181 # Project Name: Barhoven Conservancy Development
02182 # Project Number: 1474
02183 # Date : 2021/Oct/18
02184 # Modifier : J.Burnett, P.Eng.
02185 # Updated : 2022/Dec/07 [B]
02186 # Updated : 2022/Dec/13 [LP]
02187 # Updated : 2024/Mar/14 [S]
02188 # Company : J.F. Sabourin and Associates
02189 # License # : 2582634
02190 # *****
02191 # Ottawa International Airport (1967 - 2003)
02192 RO98#C0002#####
02193 # READ AES DATA
02194 [FileName = YOM_1967_2007_123 ]
02195 [Start_Date = 1968-01-01; End_Date = 1988-12-31]
02196 [Dw: 60,min: Length= 8760; hrs: WetHrs= 487; DryHrs= 8273; PTO= 643.80]
02197 #####
02198 Maximum average rainfall intensities over
02199 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02200 25.50 36.40 38.30 44.20 45.40 45.80 45.80 47.60 47.60
02201 19890727 19890726 19890625 19890625 19890625 19890625 19890625 19890625 19890625 date
02202 Number of rainfall events per following increment time
02203 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02204 165 130 109 80 66 46 49 42 26
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 164 102 81 59 5 0 0 0
02208 RO98#C0003#####
02209 COMPUTE APD
02210 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02211 [AP1max= 66.04; AP1avg= 18.06; AP1min= .0]
02212 #####
02213 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02214 RO98#C0004#####
02215 CONTINUOUS RAINFALL DATA
02216 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02217 [Dw: 60,min: Length= 7344; hrs: WetHrs= 618; DryHrs= 6726; PTO= 727.80]
02218 #####
02219 Maximum average rainfall intensities over
02220 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02221 20.60 12.25 9.60 9.58 4.43 2.25 1.90 1.23 1.06
02222 19900720 19900720 19900828 19900828 19900720 19900720 19900720 19900720 19900720 date
02223 Number of rainfall events per following increment time
02224 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02225 204 156 141 107 84 66 36 47 33
02226 Number of events with at least the following durations
02227 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02228 203 114 95 6 1 0 0
02229 RO98#C0003#####
02230 COMPUTE APD
02231 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02232 [AP1max= 75.10; AP1avg= 23.47; AP1min= 3.10]
02233 #####
02234 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02235 RO98#C0004#####
02236 CONTINUOUS RAINFALL DATA
02237 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02238 [Dw: 60,min: Length= 7344; hrs: WetHrs= 618; DryHrs= 6726; PTO= 727.80]
02239 #####
02240 Maximum average rainfall intensities over
02241 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02242 20.60 12.25 9.60 9.58 4.43 2.25 1.90 1.23 1.06
02243 19900720 19900720 19900828 19900828 19900720 19900720 19900720 19900720 19900720 date
02244 Number of rainfall events per following increment time
02245 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02246 204 156 141 107 84 66 36 47 33
02247 Number of events with at least the following durations
02248 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02249 203 114 95 6 1 0 0
02250 RO98#C0003#####
02251 COMPUTE APD
02252 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02253 [AP1max= 75.10; AP1avg= 23.47; AP1min= 3.10]
02254 #####
02255 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02256 RO98#C0004#####
02257 CONTINUOUS RAINFALL DATA
02258 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02259 [Dw: 60,min: Length= 7344; hrs: WetHrs= 618; DryHrs= 6726; PTO= 727.80]
02260 #####
02261 Maximum average rainfall intensities over
02262 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02263 20.60 12.25 9.60 9.58 4.43 2.25 1.90 1.23 1.06
02264 19900720 19900720 19900828 19900828 19900720 19900720 19900720 19900720 19900720 date
02265 Number of rainfall events per following increment time
02266 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02267 204 156 141 107 84 66 36 47 33
02268 Number of events with at least the following durations
02269 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02270 203 114 95 6 1 0 0
02271 RUN#COMMANDS
02272 RO98#C0001#####
02273 START
02274 [ZERO = .00 hrs on 1989101]
02275 [METRIC = 2 (Imperial, S-metric output)]
02276 [INSTORM = 0]
02277 [RUM = 000]
02278 #####
02279 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02280 # *****
02281 # Project Name: Barhoven Conservancy Development
02282 # Project Number: 1474
02283 # Date : 2021/Oct/18
02284 # Modifier : J.Burnett, P.Eng.
02285 # Updated : 2022/Dec/07 [B]
02286 # Updated : 2022/Dec/13 [LP]
02287 # Updated : 2024/Mar/14 [S]
02288 # Company : J.F. Sabourin and Associates
02289 # License # : 2582634
02290 # *****
02291 # Ottawa International Airport (1967 - 2003)
02292 RO98#C0001#####
02293 # READ AES DATA
02294 [FileName = YOM_1967_2007_123 ]
02295 [Start_Date = 1968-01-01; End_Date = 1988-12-31]
02296 [Dw: 60,min: Length= 8040; hrs: WetHrs= 422; DryHrs= 7618; PTO= 523.20]
02297 #####
02298 Maximum average rainfall intensities over
02299 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02300 22.70 12.60 8.93 5.75 3.03 1.69 1.14 .86 .59
02301 19890727 19890727 19890727 19890727 19891020 19891021 19891022 19891022 19891022 date
02302 Number of rainfall events per following increment time
02303 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02304 151 125 108 89 67 43 37 29
02305 Number of events with at least the following durations
02306 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02307 150 81 59 5 0 0 0
02308 RO98#C0003#####
02309 COMPUTE APD
02310 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02311 [AP1max= 55.10; AP1avg= 16.03; AP1min= .0]
02312 #####
02313 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02314 RO98#C0004#####
02315 CONTINUOUS RAINFALL DATA
02316 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02317 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02318 #####
02319 Maximum average rainfall intensities over
02320 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02321 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02322 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02323 Number of rainfall events per following increment time
02324 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02325 10503 8250 6313 4271 2824 1824 1284 924 576
02326 Number of events with at least the following durations
02327 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02328 10506 6313 4271 102 63 52 45 38
02329 RO98#C0003#####
02330 COMPUTE APD
02331 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02332 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02333 #####
02334 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02335 RO98#C0004#####
02336 CONTINUOUS RAINFALL DATA
02337 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02338 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02339 #####
02340 Maximum average rainfall intensities over
02341 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02342 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02343 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02344 Number of rainfall events per following increment time
02345 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02346 10503 8250 6313 4271 2824 1824 1284 924 576
02347 Number of events with at least the following durations
02348 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02349 10506 6313 4271 102 63 52 45 38
02350 RO98#C0003#####
02351 COMPUTE APD
02352 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02353 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02354 #####
02355 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02356 RO98#C0004#####
02357 CONTINUOUS RAINFALL DATA
02358 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02359 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02360 #####
02361 Maximum average rainfall intensities over
02362 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02363 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02364 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02365 Number of rainfall events per following increment time
02366 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02367 10503 8250 6313 4271 2824 1824 1284 924 576
02368 Number of events with at least the following durations
02369 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02370 10506 6313 4271 102 63 52 45 38
02371 RUN#COMMANDS
02372 RO98#C0001#####
02373 START
02374 [ZERO = .00 hrs on 19910101]
02375 [METRIC = 2 (Imperial, S-metric output)]
02376 [INSTORM = 0]
02377 [RUM = 000]
02378 #####
02379 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02380 # *****
02381 # Project Name: Barhoven Conservancy Development
02382 # Project Number: 1474
02383 # Date : 2021/Oct/18
02384 # Modifier : J.Burnett, P.Eng.
02385 # Updated : 2022/Dec/07 [B]
02386 # Updated : 2022/Dec/13 [LP]
02387 # Updated : 2024/Mar/14 [S]
02388 # Company : J.F. Sabourin and Associates
02389 # License # : 2582634
02390 # *****
02391 # Ottawa International Airport (1967 - 2003)
02392 RO98#C0001#####
02393 # READ AES DATA
02394 [FileName = YOM_1967_2007_123 ]
02395 [Start_Date = 1968-01-01; End_Date = 1991-12-31]
02396 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02397 #####
02398 Maximum average rainfall intensities over
02399 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02400 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02401 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02402 Number of rainfall events per following increment time
02403 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02404 10503 8250 6313 4271 2824 1824 1284 924 576
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 10506 6313 4271 102 63 52 45 38
02408 RO98#C0003#####
02409 COMPUTE APD
02410 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02411 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02412 #####
02413 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02414 RO98#C0004#####
02415 CONTINUOUS RAINFALL DATA
02416 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02417 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02418 #####
02419 Maximum average rainfall intensities over
02420 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02421 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02422 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02423 Number of rainfall events per following increment time
02424 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02425 10503 8250 6313 4271 2824 1824 1284 924 576
02426 Number of events with at least the following durations
02427 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02428 10506 6313 4271 102 63 52 45 38
02429 RO98#C0003#####
02430 COMPUTE APD
02431 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02432 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02433 #####
02434 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02435 RO98#C0004#####
02436 CONTINUOUS RAINFALL DATA
02437 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02438 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02439 #####
02440 Maximum average rainfall intensities over
02441 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02442 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02443 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02444 Number of rainfall events per following increment time
02445 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02446 10503 8250 6313 4271 2824 1824 1284 924 576
02447 Number of events with at least the following durations
02448 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02449 10506 6313 4271 102 63 52 45 38
02450 RO98#C0003#####
02451 COMPUTE APD
02452 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02453 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02454 #####
02455 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02456 RO98#C0004#####
02457 CONTINUOUS RAINFALL DATA
02458 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02459 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02460 #####
02461 Maximum average rainfall intensities over
02462 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02463 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02464 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02465 Number of rainfall events per following increment time
02466 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02467 10503 8250 6313 4271 2824 1824 1284 924 576
02468 Number of events with at least the following durations
02469 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02470 10506 6313 4271 102 63 52 45 38
02471 RUN#COMMANDS
02472 RO98#C0001#####
02473 START
02474 [ZERO = .00 hrs on 19910101]
02475 [METRIC = 2 (Imperial, S-metric output)]
02476 [INSTORM = 0]
02477 [RUM = 000]
02478 #####
02479 # SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02480 # *****
02481 # Project Name: Barhoven Conservancy Development
02482 # Project Number: 1474
02483 # Date : 2021/Oct/18
02484 # Modifier : J.Burnett, P.Eng.
02485 # Updated : 2022/Dec/07 [B]
02486 # Updated : 2022/Dec/13 [LP]
02487 # Updated : 2024/Mar/14 [S]
02488 # Company : J.F. Sabourin and Associates
02489 # License # : 2582634
02490 # *****
02491 # Ottawa International Airport (1967 - 2003)
02492 RO98#C0001#####
02493 # READ AES DATA
02494 [FileName = YOM_1967_2007_123 ]
02495 [Start_Date = 1968-01-01; End_Date = 1991-12-31]
02496 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02497 #####
02498 Maximum average rainfall intensities over
02499 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02500 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02501 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02502 Number of rainfall events per following increment time
02503 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02504 10503 8250 6313 4271 2824 1824 1284 924 576
02505 Number of events with at least the following durations
02506 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02507 10506 6313 4271 102 63 52 45 38
02508 RO98#C0003#####
02509 COMPUTE APD
02510 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02511 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02512 #####
02513 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02514 RO98#C0004#####
02515 CONTINUOUS RAINFALL DATA
02516 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02517 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02518 #####
02519 Maximum average rainfall intensities over
02520 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02521 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02522 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02523 Number of rainfall events per following increment time
02524 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02525 10503 8250 6313 4271 2824 1824 1284 924 576
02526 Number of events with at least the following durations
02527 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02528 10506 6313 4271 102 63 52 45 38
02529 RO98#C0003#####
02530 COMPUTE APD
02531 [AP1= 50.00; AP1kdy= 9000; AP1kdt= 9956]
02532 [AP1max= 72.80; AP1avg= 16.88; AP1min= .26]
02533 #####
02534 # Barhoven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02535 RO98#C0004#####
02536 CONTINUOUS RAINFALL DATA
02537 [Start_Date = 1988-01-01; End_Date = 1988-12-31]
02538 [Dw: 60,min: Length= 8040; hrs: WetHrs= 486; DryHrs= 7554; PTO= 556.00]
02539 #####
02540 Maximum average rainfall intensities over
02541 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
02542 11.30 9.90 6.87 4.10 2.53 1.72 1.28 1.08 .79
02543 19910409 19910409 19910409 19910409 19911016 19910422 19910410 19910410 19910423 date
02544 Number of rainfall events per following increment time
02545 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02546 10503 8250 6313 4271 2824 1824 1284 924 576
02547 Number of events with at least the following durations
02548 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02549 10506 6313 4271 102 63 52 45 38

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02521# CONTINUOUS MASHVD 5.0 01:West_2 20.14 .125 1991.0410.4:05 52.68 .095 .000
02522# [Cm:76.00:Rm:3.00:Tp:1.14]
02523# [IaRC:6.00:SMIN:32.46:SMAX:216.39:SK:030]
02524# [InterEventTime:12.00]
02525# R091#C00001-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02526# CONTINUOUS MASHVD 5.0 01:West_3 14.01 .049 1991.0410.4:55 44.92 .081 .000
02527# [Cm:76.00:Rm:3.00:Tp:1.14]
02528# [IaRC:6.00:SMIN:41.38:SMAX:275.84:SK:030]
02529# [InterEventTime:12.00]
02530# R091#C00007-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02531# ADD HYD + 5.0 02:West_1 14.27 .085 1991.0410.4:00 46.13 n/a .000
02532# + 5.0 02:West_2 20.14 .125 1991.0410.4:05 52.68 n/a .000
02533# + 5.0 02:West_3 14.01 .049 1991.0410.4:55 44.92 n/a .000
02534# SPM = 5.0 01:West-Total 48.42 .252 1991.0410.4:10 48.50 n/a .000
02535# *****
02536# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02537# *****
02538# Set infiltration to 0 (CN = 99.99) for water balance analysis
02539# R091#C00008-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02540# CONTINUOUS MASHVD 5.0 01:INF-West_1 14.27 .175 1991.0409.1:40 159.83 .287 .000
02541# [Cm:100.00:Rm:3.00:Tp:1.14]
02542# [IaRC:6.00:SMIN:1.39:SMAX:9.24:SK:000]
02543# [InterEventTime:12.00]
02544# R091#C00009-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02545# CONTINUOUS MASHVD 5.0 01:INF-West_2 20.14 .228 1991.0409.1:50 159.83 .287 .000
02546# [Cm:100.00:Rm:3.00:Tp:1.14]
02547# [IaRC:6.00:SMIN:1.39:SMAX:9.24:SK:000]
02548# [InterEventTime:12.00]
02549# R091#C00010-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02550# CONTINUOUS MASHVD 5.0 01:INF-West_3 14.01 .105 1991.0409.2:45 159.83 .287 .000
02551# [Cm:100.00:Rm:3.00:Tp:1.14]
02552# [IaRC:6.00:SMIN:1.39:SMAX:9.24:SK:000]
02553# [InterEventTime:12.00]
02554# R091#C00011-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02555# ADD HYD + 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 1991.0409.1:50 159.83 n/a .000
02557# + 5.0 02:INF-West_3 14.01 .105 1991.0409.2:45 159.83 n/a .000
02558# SPM = 5.0 01:INF-West-? 48.42 .480 1991.0409.1:50 159.83 n/a .000
02559# *****
02560# *****
02561# *****
02562# *****
02563# ** END OF RUN : 91
02564# *****
02565# *****
02566# *****
02567# *****
02568# *****
02569# *****
02570# *****
02571# RNN#COMMANDS
02572# R093#C00001-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02573# START [ZERO = .00 hrs on 19910101]
02574# [METW:2 (1=Imperial, 2=metric output)]
02575# [INFORM:0]
02576# [RNN:009]
02577# *****
02578# *****
02579# SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02580# *****
02581# Project Name: Barhaven Conservancy Development
02582# Project Number: 1474
02583# Date: 2021/Oct/18
02584# Modeler: J.Burnett, P.Eng.
02585# Updated: 2022/Dec/07 [LIP]
02586# Updated: 2022/Dec/13 [LIP]
02587# Updated: 2024/Jan/18 [LIP]
02588# Company: J.F. Sabourin and Associates
02589# License #: 2582434
02590# *****
02591# Ottawa International Airport (1957 - 2003)
02592# R093#C00002-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02593# READ AS DATA
02594# [FileName = YOM_1967_2007_123 ]
02595# [Start_Date = 1991.0101:End_Date = 1991.1230]
02596# [Dw:60,min:Length=8760:hrs:WetHrs=551:DryHrs=8209:PTOT=732.80]
02597# Maximum average rainfall intensities over:
02598# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 36 hrs 48 hrs 72 hrs mm/hr
02599# 31.50 36.00 39.90 43.30 49.70 54.20 54.20 72.60 73.60
02600# 1992004 1992004 1992004 1992004 1992004 1992004 1992004 1992004 1992004 date
02601# Number of events with at least the following durations:
02602# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02603# 190 151 132 100 84 64 48 39 38
02604# Number of events with least the following durations:
02605# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02606# 189 109 82 51 31 0 0 0
02607# *****
02608# R093#C00003-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02609# COMPUTE API
02610# [APIIn:50.00:APIKdy:9000:APIKdx:9956]
02611# [APIMax:97.62:APIAve:20.33:APIMin:1.07]
02612# *****
02613# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02614# R091#C00004-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02615# CONTINUOUS MASHVD 5.0 01:West_1 14.27 .293 1992.0717.19:20 94.75 .129 .000
02616# [Cm:76.00:Rm:3.00:Tp:1.14]
02617# [IaRC:6.00:SMIN:39.75:SMAX:264.99:SK:030]
02618# [InterEventTime:12.00]
02619# R091#C00005-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02620# CONTINUOUS MASHVD 5.0 01:West_2 20.14 .432 1992.0717.19:25 106.69 .146 .000
02621# [Cm:76.00:Rm:3.00:Tp:1.14]
02622# [IaRC:6.00:SMIN:32.46:SMAX:216.39:SK:030]
02623# [InterEventTime:12.00]
02624# R091#C00006-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02625# CONTINUOUS MASHVD 5.0 01:West_3 14.01 .191 1992.0717.20:15 92.50 .126 .000
02626# [Cm:76.00:Rm:3.00:Tp:1.14]
02627# [IaRC:6.00:SMIN:41.38:SMAX:275.84:SK:030]
02628# [InterEventTime:12.00]
02629# R091#C00007-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02630# ADD HYD + 5.0 02:West_1 14.27 .293 1992.0717.19:20 94.75 n/a .000
02631# + 5.0 02:West_2 20.14 .432 1992.0717.19:25 106.69 n/a .000
02632# + 5.0 02:West_3 14.01 .191 1992.0717.20:15 92.50 n/a .000
02633# SPM = 5.0 01:West-Total 48.42 .890 1992.0717.19:30 99.07 n/a .000
02634# *****
02635# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
02636# *****
02637# *****
02638# Set infiltration to 0 (CN = 99.99) for water balance analysis
02639# R091#C00008-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02640# CONTINUOUS MASHVD 5.0 01:INF-West_1 14.27 .486 1992.0717.19:20 266.21 .363 .000
02641# [Cm:100.00:Rm:3.00:Tp:1.14]
02642# [IaRC:6.00:SMIN:1.39:SMAX:9.24:SK:000]
02643# [InterEventTime:12.00]
02644# R091#C00009-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02645# CONTINUOUS MASHVD 5.0 01:INF-West_2 20.14 .650 1992.0717.19:10 266.21 .363 .000
02646# [Cm:100.00:Rm:3.00:Tp:1.14]
02647# [IaRC:6.00:SMIN:1.39:SMAX:9.24:SK:000]
02648# [InterEventTime:12.00]
02649# R091#C00010-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02650# CONTINUOUS MASHVD 5.0 01:INF-West_3 14.01 .327 1992.0717.20:00 266.21 .363 .000
02651# [Cm:100.00:Rm:3.00:Tp:1.14]
02652# [IaRC:6.00:SMIN:1.39:SMAX:9.24:SK:000]
02653# [InterEventTime:12.00]
02654# R091#C00011-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02655# ADD HYD + 5.0 02:INF-West_1 14.27 .486 1992.0717.19:20 266.21 n/a .000
02656# + 5.0 02:INF-West_2 20.14 .650 1992.0717.19:10 266.21 n/a .000
02657# + 5.0 02:INF-West_3 14.01 .327 1992.0717.20:00 266.21 n/a .000
02658# SPM = 5.0 01:INF-West-? 48.42 1.420 1992.0717.19:15 266.21 n/a .000
02659# *****
02660# *****
02661# *****
02662# *****
02663# ** END OF RUN : 92
02664# *****
02665# *****
02666# *****
02667# *****
02668# *****
02669# *****
02670# *****
02671# RNN#COMMANDS
02672# R093#C00001-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02673# START [ZERO = .00 hrs on 19910101]
02674# [METW:2 (1=Imperial, 2=metric output)]
02675# [INFORM:0]
02676# [RNN:009]
02677# *****
02678# *****
02679# SWMHYM Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02680# *****
02681# Project Name: Barhaven Conservancy Development
02682# Project Number: 1474
02683# Date: 2021/Oct/18
02684# Modeler: J.Burnett, P.Eng.
02685# Updated: 2022/Dec/07 [LIP]
02686# Updated: 2022/Dec/13 [LIP]
02687# Updated: 2024/Jan/18 [LIP]
02688# Company: J.F. Sabourin and Associates
02689# License #: 2582434
02690# *****
02691# Ottawa International Airport (1957 - 2003)
02692# R093#C00002-----OtmIn-ID:INVD-----AREHA-QPEAcm-TpeaDate_hh:mm-----Rvm-R-C-----DWPMs
02693# READ AS DATA
02694# [FileName = YOM_1967_2007_123 ]
02695# [Start_Date = 1991.0101:End_Date = 1991.1231]
02696# [Dw:60,min:Length=8760:hrs:WetHrs=585:DryHrs=8175:PTOT=721.30]
02697# Maximum average rainfall intensities over:
02698# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 36 hrs 48 hrs 72 hrs mm/hr
02699# 12.60 6.60 4.80 3.72 3.58 2.31 1.61 1.21 .81
02700# 12.60 13.20 14.50 22.30 43.00 58.10 58.10 58.10

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03241# CONTINUOUS NASHVD 5.0 01:West-1 14.27 .176 1998.0627, 1:50 127.31 .289 .000
03242# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03243# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03244# [InterEventTime: 12.00]
03245# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03246# CONTINUOUS NASHVD 5.0 01:West-2 20.14 .242 1999.0927, 3:20 127.31 .289 .000
03247# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03248# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03249# [InterEventTime: 12.00]
03250# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03251# CONTINUOUS NASHVD 5.0 01:West-3 14.01 .135 1999.0927, 3:20 127.31 .289 .000
03252# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03253# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03254# [InterEventTime: 12.00]
03255# R0100-C0011#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03256# ADD HYD + 5.0 02:INP-West-1 14.27 .176 1998.0627, 1:50 127.31 n/a .000
03257# + 5.0 02:INP-West-2 20.14 .242 1999.0927, 3:20 127.31 n/a .000
03258# + 5.0 02:INP-West-3 14.01 .135 1999.0927, 3:20 127.31 n/a .000
03259# SSM - 5.0 01:West-Total 48.42 .444 1999.0927, 3:20 127.31 n/a .000
03260# ***** CONTINUOUS RAINFALL DATA *****
03261# ***** END OF RUN : 98 *****
03262# *****
03263# *****
03264# *****
03265# *****
03266# *****
03267# *****
03268# *****
03269# *****
03270# *****
03271# RNN:COMMANDS
03272# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03273# START
03274# [ZERO = .00 hrs on 19990101]
03275# [METRO: 2 (1=Imperial, 2=metric output)]
03276# [NORM: 0]
03277# [RNN = 010]
03278# *****
03279# SWMHYM Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
03280# *****
03281# Project Name: Barhaven Conservancy Development
03282# Project Number: 1474
03283# Date : 2021/Oct/18
03284# Modeller : J.Burnett, P.Eng.
03285# Updated : 2022/Oct/07 [IS]
03286# Updated : 2022/Dec/13 [LP]
03287# Updated : 2024/Mar/18 [SI]
03288# Company : J.F. Sabourin and Associates
03289# License # : 2582634
03290# *****
03291# Ottawa International Airport (1967 - 2003)
03292# R0100-C0002#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03293# READ AES DATA
03294# [Filename = YOM_1967_2007_123]
03295# [Start_Date = 1967-01-01: End_Date = 1999-12-31]
03296# [Dw: 60, min: Length: 4440, hrs: WetHrs: 247] DryHrs: 4193: PTO: 424.40]
03297# Maximum average rainfall intensities over
03298# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
03299# 17.50 10.10 9.03 6.57 3.91 1.65 1.45 1.22 .97
03300# 17.50 21.20 17.10 19.40 39.70 39.70 52.20 56.60 69.50 mm
03301# 19990717 19990717 19990906 19990906 19990906 19990906 19990907 19990908 19990908 date
03302# Number of rainfall events per following interval time
03303# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03304# 102 80 70 63 56 36 28 18
03305# Number of events with at least the following durations
03306# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03307# 101 97 91 82 72 52 41 31 22
03308# R0100-C0003#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03309# COMPUTE API
03310# [API: 50.00: APIkdy: 9000: APIkdt: 9956]
03311# [APImax: 69.51: APIave: 23.97: APImin: 1.93]
03312# *****
03313# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03314# R0100-C0004#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03315# CONTINUOUS NASHVD 5.0 01:West-1 14.27 .092 1999.0906, 10:15 33.50 .079 .000
03316# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03317# [IAREC: 6.00: SMIN: 39.75: SMAX: 264.99: SK: .030]
03318# [InterEventTime: 12.00]
03319# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03320# CONTINUOUS NASHVD 5.0 01:West-2 20.14 .146 1999.0906, 10:20 38.58 .091 .000
03321# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03322# [IAREC: 6.00: SMIN: 32.46: SMAX: 216.39: SK: .030]
03323# [InterEventTime: 12.00]
03324# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03325# CONTINUOUS NASHVD 5.0 01:West-3 14.01 .069 1999.0906, 11:05 32.57 .077 .000
03326# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03327# [IAREC: 6.00: SMIN: 41.38: SMAX: 275.84: SK: .030]
03328# [InterEventTime: 12.00]
03329# R0100-C0007#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03330# ADD HYD + 5.0 02:West-1 14.27 .092 1999.0906, 10:15 33.50 n/a .000
03331# + 5.0 02:West-2 20.14 .146 1999.0906, 10:20 38.58 n/a .000
03332# + 5.0 02:West-3 14.01 .069 1999.0906, 11:05 32.57 n/a .000
03333# SSM - 5.0 01:West-Total 48.42 .302 1999.0906, 11:05 35.34 n/a .000
03334# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03335# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03336# [InterEventTime: 12.00]
03337# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03338# *****
03339# Set infiltration to 0 (CN = 99.99) for water balance analysis
03340# R0100-C0008#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03341# CONTINUOUS NASHVD 5.0 01:West-1 14.27 .277 1999.0906, 9:05 131.43 .310 .000
03342# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03343# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03344# [InterEventTime: 12.00]
03345# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03346# CONTINUOUS NASHVD 5.0 01:West-2 20.14 .377 1999.0906, 9:15 131.43 .310 .000
03347# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03348# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03349# [InterEventTime: 12.00]
03350# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03351# CONTINUOUS NASHVD 5.0 01:West-3 14.01 .209 1999.0906, 10:20 131.43 .310 .000
03352# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03353# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03354# [InterEventTime: 12.00]
03355# R0100-C0011#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03356# ADD HYD + 5.0 02:INP-West-1 14.27 .277 1999.0906, 9:05 131.43 n/a .000
03357# + 5.0 02:INP-West-2 20.14 .377 1999.0906, 9:15 131.43 n/a .000
03358# + 5.0 02:INP-West-3 14.01 .209 1999.0906, 10:20 131.43 n/a .000
03359# SSM - 5.0 01:INP-West-Total 48.42 .486 1999.0906, 9:20 131.43 n/a .000
03360# ***** CONTINUOUS RAINFALL DATA *****
03361# ***** END OF RUN : 99 *****
03362# *****
03363# *****
03364# *****
03365# *****
03366# *****
03367# *****
03368# *****
03369# *****
03370# *****
03371# RNN:COMMANDS
03372# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03373# START
03374# [ZERO = .00 hrs on 20000101]
03375# [METRO: 2 (1=Imperial, 2=metric output)]
03376# [NORM: 0]
03377# [RNN = 010]
03378# *****
03379# SWMHYM Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
03380# *****
03381# Project Name: Barhaven Conservancy Development
03382# Project Number: 1474
03383# Date : 2021/Oct/18
03384# Modeller : J.Burnett, P.Eng.
03385# Updated : 2022/Oct/07 [IS]
03386# Updated : 2022/Dec/13 [LP]
03387# Updated : 2024/Mar/18 [SI]
03388# Company : J.F. Sabourin and Associates
03389# License # : 2582634
03390# *****
03391# Ottawa International Airport (1967 - 2003)
03392# R0100-C0002#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03393# READ AES DATA
03394# [Filename = YOM_1967_2007_123]
03395# [Start_Date = 2000-01-01: End_Date = 2000-12-31]
03396# [Dw: 60, min: Length: 5160, hrs: WetHrs: 401] DryHrs: 4759: PTO: 535.90]
03397# Maximum average rainfall intensities over
03398# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
03399# 14.70 9.60 8.03 6.43 3.89 1.95 1.30 1.03 .84
03400# 14.70 19.20 24.10 18.60 46.70 46.70 46.80 49.30 60.40 mm
03401# 20000625 20000625 20000625 20000625 20000625 20000625 20000626 20000626 20000626 date
03402# Number of rainfall events per following interval time
03403# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03404# 156 125 110 86 67 46 34 30 23
03405# Number of events with at least the following durations
03406# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03407# 155 124 107 82 63 46 34 30 23
03408# R0100-C0003#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03409# COMPUTE API
03410# [API: 50.00: APIkdy: 9000: APIkdt: 9956]
03411# [APImax: 76.65: APIave: 25.66: APImin: 5.70]
03412# *****
03413# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03414# R0100-C0004#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03415# CONTINUOUS NASHVD 5.0 01:West-1 14.27 .207 2000.0625, 10:40 56.28 .105 .000
03416# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03417# [IAREC: 6.00: SMIN: 39.75: SMAX: 264.99: SK: .030]
03418# [InterEventTime: 12.00]
03419# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03420# CONTINUOUS NASHVD 5.0 01:West-2 20.14 .439 2000.0625, 10:35 172.01 .321 .000
03421# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03422# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03423# [InterEventTime: 12.00]
03424# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03425# CONTINUOUS NASHVD 5.0 01:West-3 14.01 .135 2000.0625, 10:45 63.91 n/a .000
03426# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03427# [IAREC: 6.00: SMIN: 41.38: SMAX: 275.84: SK: .030]
03428# [InterEventTime: 12.00]
03429# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03430# ADD HYD + 5.0 02:West-1 14.27 .207 2000.0625, 10:40 56.28 n/a .000
03431# + 5.0 02:West-2 20.14 .439 2000.0625, 10:35 172.01 n/a .000
03432# + 5.0 02:West-3 14.01 .135 2000.0625, 10:45 63.91 n/a .000
03433# SSM - 5.0 01:West-Total 48.42 .631 2000.0625, 10:50 59.04 n/a .000
03434# [CNE:10.0 hrs 3.00: Tpe: 2.07]
03435# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03436# [InterEventTime: 12.00]
03437# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03438# *****
03439# Set infiltration to 0 (CN = 99.99) for water balance analysis
03440# R0100-C0008#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03441# CONTINUOUS NASHVD 5.0 01:INP-West-1 14.27 .327 2000.0625, 10:30 172.01 .321 .000
03442# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03443# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03444# [InterEventTime: 12.00]
03445# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03446# CONTINUOUS NASHVD 5.0 01:INP-West-2 20.14 .439 2000.0625, 10:35 172.01 .321 .000
03447# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03448# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03449# [InterEventTime: 12.00]
03450# R0100-C0011#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03451# CONTINUOUS NASHVD 5.0 01:INP-West-3 14.01 .237 2000.0625, 11:10 172.01 .321 .000
03452# [CNE:10.0 hrs 3.00: Tpe: 2.07]
03453# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03454# [InterEventTime: 12.00]
03455# R0100-C0011#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03456# ADD HYD + 5.0 02:INP-West-1 14.27 .327 2000.0625, 10:30 172.01 n/a .000
03457# + 5.0 02:INP-West-2 20.14 .439 2000.0625, 10:35 172.01 n/a .000
03458# + 5.0 02:INP-West-3 14.01 .237 2000.0625, 11:10 172.01 n/a .000
03459# SSM - 5.0 01:INP-West-Total 48.42 .987 2000.0625, 10:35 172.01 n/a .000
03460# ***** CONTINUOUS RAINFALL DATA *****
03461# ***** END OF RUN : 101 *****
03462# *****
03463# *****
03464# *****
03465# *****
03466# *****
03467# *****
03468# *****
03469# *****
03470# *****
03471# RNN:COMMANDS
03472# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03473# START
03474# [ZERO = .00 hrs on 20020101]
03475# [METRO: 2 (1=Imperial, 2=metric output)]
03476# [NORM: 0]
03477# [RNN = 010]
03478# *****
03479# SWMHYM Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
03480# *****
03481# Project Name: Barhaven Conservancy Development
03482# Project Number: 1474
03483# Date : 2021/Oct/18
03484# Modeller : J.Burnett, P.Eng.
03485# Updated : 2022/Oct/07 [IS]
03486# Updated : 2022/Dec/13 [LP]
03487# Updated : 2024/Mar/18 [SI]
03488# Company : J.F. Sabourin and Associates
03489# License # : 2582634
03490# *****
03491# Ottawa International Airport (1967 - 2003)
03492# R0100-C0002#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03493# READ AES DATA
03494# [Filename = YOM_1967_2007_123]
03495# [Start_Date = 2002-01-01: End_Date = 2002-12-31]
03496# [Dw: 60, min: Length: 5088, hrs: WetHrs: 304] DryHrs: 4784: PTO: 551.50]
03497# Maximum average rainfall intensities over
03498# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
03499# 45.00 26.75 16.40 9.48 4.74 2.48 2.08 1.56 1.04
03500# 45.00 53.50 55.20 56.30 56.30 59.50 74.90 74.90 74.90 mm
03501# 20020627 20020627 20020627 20020627 20020627 20020627 20020628 20020628 20020628 date
03502# Number of rainfall events per following interval time
03503# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03504# 100 76 56 47 41 36 34 25
03505# Number of events with at least the following durations
03506# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03507# 100 59 31 0 0 0 0 0
03508# R0100-C0003#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03509# COMPUTE API
03510# [API: 50.00: APIkdy: 9000: APIkdt: 9956]
03511# [APImax: 114.06: APIave: 26.37: APImin: 4.40]
03512# *****
03513# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03514# R0100-C0004#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03515# CONTINUOUS NASHVD 5.0 01:West-1 14.27 .455 2002.0627, 14:50 103.15 .187 .000
03516# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03517# [IAREC: 6.00: SMIN: 39.75: SMAX: 264.99: SK: .030]
03518# [InterEventTime: 12.00]
03519# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03520# CONTINUOUS NASHVD 5.0 01:West-2 20.14 .645 2002.0627, 15:00 114.49 .208 .000
03521# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03522# [IAREC: 6.00: SMIN: 32.46: SMAX: 216.39: SK: .030]
03523# [InterEventTime: 12.00]
03524# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03525# CONTINUOUS NASHVD 5.0 01:West-3 14.01 .260 2002.0627, 15:50 100.99 .183 .000
03526# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03527# [IAREC: 6.00: SMIN: 41.38: SMAX: 275.84: SK: .030]
03528# [InterEventTime: 12.00]
03529# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03530# ADD HYD + 5.0 02:West-1 14.27 .455 2002.0627, 14:50 103.15 n/a .000
03531# + 5.0 02:West-2 20.14 .645 2002.0627, 15:00 114.49 n/a .000
03532# + 5.0 02:West-3 14.01 .260 2002.0627, 15:50 100.99 n/a .000
03533# SSM - 5.0 01:West-Total 48.42 .611 2002.0627, 15:00 107.24 n/a .000
03534# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03535# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03536# [InterEventTime: 12.00]
03537# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03538# *****
03539# Set infiltration to 0 (CN = 99.99) for water balance analysis
03540# R0100-C0008#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03541# CONTINUOUS NASHVD 5.0 01:INP-West-1 14.27 .736 2002.0627, 14:45 243.89 .442 .000
03542# [CNE:10.0 hrs 3.00: Tpe: 1.41]
03543# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03544# [InterEventTime: 12.00]
03545# R0100-C0009#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03546# CONTINUOUS NASHVD 5.0 01:INP-West-2 20.14 .953 2002.0627, 14:50 243.89 .442 .000
03547# [CNE:10.0 hrs 3.00: Tpe: 1.26]
03548# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03549# [InterEventTime: 12.00]
03550# R0100-C0011#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03551# CONTINUOUS NASHVD 5.0 01:INP-West-3 14.01 .425 2002.0627, 15:40 243.89 .442 .000
03552# [CNE:10.0 hrs 3.00: Tpe: 2.07]
03553# [IAREC: 6.00: SMIN: 1.39: SMAX: 9.24: SK: .030]
03554# [InterEventTime: 12.00]
03555# R0100-C0011#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03556# ADD HYD + 5.0 02:INP-West-1 14.27 .736 2002.0627, 14:45 243.89 n/a .000
03557# + 5.0 02:INP-West-2 20.14 .953 2002.0627, 14:50 243.89 n/a .000
03558# + 5.0 02:INP-West-3 14.01 .425 2002.0627, 15:40 243.89 n/a .000
03559# SSM - 5.0 01:INP-West-Total 48.42 2.034 2002.0627, 14:50 243.89 n/a .000
03560# ***** CONTINUOUS RAINFALL DATA *****
03561# ***** END OF RUN : 102 *****
03562# *****
03563# *****
03564# *****
03565# *****
03566# *****
03567# *****
03568# *****
03569# *****
03570# *****
03571# RNN:COMMANDS
03572# R0100-C0001#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03573# START
03574# [ZERO = .00 hrs on 20030101]
03575# [METRO: 2 (1=Imperial, 2=metric output)]
03576# [NORM: 0]
03577# [RNN = 010]
03578# *****
03579# SWMHYM Ver:5.02/Jan 2001 -CBETA / INPUT DATA FILE
03580# *****
03581# Project Name: Barhaven Conservancy Development
03582# Project Number: 1474
03583# Date : 2021/Oct/18
03584# Modeller : J.Burnett, P.Eng.
03585# Updated : 2022/Oct/07 [IS]
03586# Updated : 2022/Dec/13 [LP]
03587# Updated : 2024/Mar/18 [SI]
03588# Company : J.F. Sabourin and Associates
03589# License # : 2582634
03590# *****
03591# Ottawa International Airport (1967 - 2003)
03592# R0100-C0002#-----Othrn-ID:INSHVD-----AREHA-QPEACms-TpeAdate_hh:mm-----Rvm-R-C-----DWPMs
03593# READ AES DATA
03594# [Filename = YOM_1967_2007_123]
03595# [Start_Date = 2003-01-01: End_Date = 2003-12-31]
03596# [Dw: 60, min: Length: 4440, hrs: WetHrs: 406] DryHrs: 4034: PTO: 554.60]
03597# Maximum average rainfall intensities over
03598# 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs mm/hr
03599# 15.10 10.00 7.15 4.28 3.18 1.86 1.25 .94 .81
03600# 15.10 20.00 21.40 28.70 38.20 44.60 44.90 45.10 58.20 mm

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03601# 20030711 20030711 20030711 20030711 20031021 20031015 20030525 20030526 20030527 date
03602# Number of rainfall events per following increment time
03603# 1 hr 2 hrs 3 hrs 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 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
03607# 144 130 110 84 64 45 38 25 15
03608# R0103:C00003-----
03609# COMPUTE API
03610# [APImin= 50.00; APIkdy= 9000; APIkdt= 9956]
03611# [APImax= 72.10; APIavg= 28.54; APImin= 4.70]
03612# -----
03613# Barhaven Conservancy West Developments (WITH INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03614# -----
03615# R0103:C00004-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03616# CONTINUOUS NASHVD 5.0 01:West_1 14.27 .149 2003.0711.17:45 76.16 137 .000
03617# [CN= 12.0; R= 3.00; TP= 1.14]
03618# [IAREC= 6.00; SMIN= 39.75; SMAX=264.99; EK= .030]
03619# [InterEventTime= 12.00]
03620# R0103:C00005-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03621# CONTINUOUS NASHVD 5.0 01:West_2 20.14 .221 2003.0711.17:50 86.07 155 .000
03622# [CN= 12.0; R= 3.00; TP= 1.28]
03623# [IAREC= 6.00; SMIN= 32.46; SMAX=216.39; EK= .030]
03624# [InterEventTime= 12.00]
03625# R0103:C00006-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03626# CONTINUOUS NASHVD 5.0 01:West_3 14.01 .091 2003.1021.9:50 74.30 134 .000
03627# [CN= 12.0; R= 3.00; TP= 1.07]
03628# [IAREC= 6.00; SMIN= 41.38; SMAX=275.84; EK= .030]
03629# [InterEventTime= 12.00]
03630# R0103:C00007-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03631# ADD HYD 5.0 02:West_1 14.27 .149 2003.0711.17:45 76.16 n/a .000
03632# + 5.0 02:West_2 20.14 .221 2003.0711.17:50 86.07 n/a .000
03633# + 5.0 02:West_3 14.01 .091 2003.1021.9:50 74.30 n/a .000
03634# SIM= 5.0 01:West-Total 48.42 .444 2003.0711.17:55 99.74 n/a .000
03635# -----
03636# Barhaven Conservancy West Developments (WITHOUT INFILTRATION) - PRE DEVELOPMENT CONDITIONS
03637# -----
03638# # Set infiltration to 0 (CN = 99.99) for water balance analysis
03639# -----
03640# R0103:C00008-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03641# CONTINUOUS NASHVD 5.0 01:INF-West_1 14.27 .307 2003.0711.17:35 204.68 369 .000
03642# [CN=10.0; R= 3.00; TP= 1.14]
03643# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
03644# [InterEventTime= 12.00]
03645# R0103:C00009-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03646# CONTINUOUS NASHVD 5.0 01:INF-West_2 20.14 .403 2003.0711.17:40 204.68 369 .000
03647# [CN=10.0; R= 3.00; TP= 1.28]
03648# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
03649# [InterEventTime= 12.00]
03650# R0103:C00010-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03651# CONTINUOUS NASHVD 5.0 01:INF-West_3 14.01 .191 2003.0711.18:20 204.68 369 .000
03652# [CN=10.0; R= 3.00; TP= 1.07]
03653# [IAREC= 6.00; SMIN= 1.39; SMAX= 9.24; EK= .000]
03654# [InterEventTime= 12.00]
03655# R0103:C00011-----DRAIN-ID:INVD-----AREHA-QPEAGMs-TpeakDate_hh:mm-----SvNm-R.C-----DWFoms
03656# ADD HYD 5.0 02:INF-West_1 14.27 .307 2003.0711.17:35 204.68 n/a .000
03657# + 5.0 02:INF-West_2 20.14 .403 2003.0711.17:40 204.68 n/a .000
03658# + 5.0 02:INF-West_3 14.01 .191 2003.0711.18:20 204.68 n/a .000
03659# SIM= 5.0 01:INF-West-T 48.42 .876 2003.0711.17:40 204.68 n/a .000
03660# #####
03661# # CONTINUOUS RAINFALL DATA
03662# #####
03663# R0103:C00002-----
03664# FINISH
03665# -----
03666# -----
03667# WARNINGS / ERRORS / NOTES
03668# -----
03669# R0107:C00002 READ AER DATA
03670# ** WARNING: Requested start date is less than start date in file.
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: Requested start date is less than start date in file.
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: Missing rainfall increments were set to 0.
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: Requested start date is less than start date in file.
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 Pervious 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 Pervious 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),

```

```

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 *%-----|-----

```

```

161 *Development With LIDs
162 ADD HYD          NHYDsum=["BCD-PH3-LID"], NHYDs to
add=["W1-LID-Out", "W2-LID-Out", "W3-LID-Out", "W4-LID-Out", "W5-LID-Out", "W6-LID-Out"]
163 *%-----|-----
-----|
164 *#*****
*****
165 *#          Barrhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) -
POST DEVELOPMENT CONDITIONS
166 *#*****
*****
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),
MNP=[0.250], SCP=[0] (min),
174 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[196] (m),
MNI=[0.013], SCI=[0] (min),
175 Continuous simulation parameters:
176 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
177 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
178 *%-----|-----
-----|
179 CONTINUOUS STANDHYD NHYD=["INF-W2"], DT=[5] (min), AREA=[8.51] (ha)
180 XIMP=[0.50], TIMP=[0.60], DWF=[0] (cms),
181 LOSS=[2]: SCS curve number CN=[99.99],
182 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
183 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[238] (m),
MNI=[0.013], SCI=[0] (min),
184 Continuous simulation parameters:
185 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
186 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
187 *%-----|-----
-----|
188 CONTINUOUS STANDHYD NHYD=["INF-W3"], DT=[5] (min), AREA=[10.03] (ha)
189 XIMP=[0.66], TIMP=[0.76], DWF=[0] (cms),
190 LOSS=[2]: SCS curve number CN=[99.99],
191 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
192 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[259] (m),
MNI=[0.013], SCI=[0] (min),
193 Continuous simulation parameters:
194 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
195 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
196 *%-----|-----
-----|
197 CONTINUOUS STANDHYD NHYD=["INF-W4"], DT=[5] (min), AREA=[10.11] (ha)
198 XIMP=[0.60], TIMP=[0.70], DWF=[0] (cms),
199 LOSS=[2]: SCS curve number CN=[99.99],
200 Pervious areas: IAper=[4.67] (mm), SLPP=[2.0] (%), LGP=[40] (m),
MNP=[0.250], SCP=[0] (min),
201 Impervious areas: IAimp=[1.57] (mm), SLPI=[0.5] (%), LGI=[260] (m),
MNI=[0.013], SCI=[0] (min),
202 Continuous simulation parameters:
203 IaREcper=[6] (hrs), IaREcimp=[1.5] (hrs),
204 SMIN=[-1] (mm), SMAX=[-1] (mm), SK=[0.00]/(mm),
InterEventTime=[12] (hrs), END=-1
205 *%-----|-----
-----|
206 CONTINUOUS STANDHYD NHYD=["INF-W5"], DT=[5] (min), AREA=[6.20] (ha)

```



```
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
```


00721 [SMIN= 1.39; SMAK= 9.24; SK= .000] -----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00722 CONTINUOUS STANDRD 5.0 0.11NF-W4 10.11 .559 1969.0818.22100 343.93 603 .000
00723 [XIMP= 60;TIMP= 70]
00724 [LQSS= 2;CN=100.0]
00725 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00726 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 203.0MNI= .013;SICI= .0]
00727 [IARClamp= 1.50; IARECape= 6.00]
00728 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00729 R0709:R07010016-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00730 CONTINUOUS STANDRD 5.0 0.11NF-W5 6.20 .343 1969.0818.22100 337.04 591 .000
00731 [XIMP= 50;TIMP= 60]
00732 [LQSS= 2;CN=100.0]
00733 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00734 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 203.0MNI= .013;SICI= .0]
00735 [IARClamp= 1.50; IARECape= 6.00]
00736 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00737 R0709:R069:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00738 CONTINUOUS STANDRD 5.0 0.11NF-W4 7.81 .443 1969.0818.22100 369.49 648 .000
00739 [XIMP= 60;TIMP= 70]
00740 [LQSS= 2;CN=100.0]
00741 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00742 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00743 [IARClamp= 1.50; IARECape= 6.00]
00744 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00745 R0709:R069:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00746 ADD HYD + 5.0 0.02NF-W2 8.51 .462 1969.0818.22100 321.07 n/a .000
00747 + 5.0 0.02NF-W3 10.03 .561 1969.0818.22100 337.79 n/a .000
00748 + 5.0 0.02NF-W4 10.11 .559 1969.0818.22100 343.93 n/a .000
00749 + 5.0 0.02NF-W5 6.20 .343 1969.0818.22100 337.04 n/a .000
00750 + 5.0 0.02NF-W6 7.81 .443 1969.0818.22100 369.49 n/a .000
00751 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1969.0818.22100 344.91 n/a .000
00752 [XIMP= 50;TIMP= 60]
00753 [LQSS= 2;CN=100.0]
00754 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00755 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
00756 [IARClamp= 1.50; IARECape= 6.00]
00757 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00758 *****
00759 ** END OF RUN : 69
00760
00761
00762
00763
00764 RVM:COMMAND#
00765 R0707:CO0001
00766 START
00767 [ITERNO = .00 hrs on 19701011]
00768 [MOUTP= 2 (Imperial, 2=metric output)]
00769 [MTRNO= 0]
00770 [NRUN = 0071]
00771
00772
00773 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00774 # Project Name: Barhavan Conservancy Development
00775 # Project Number: 1474
00776 # Date : 2021/Oct/18
00777 # Modeler : J.Burnett, P.Eng.
00778 # Updated : 2024/Mar/14 [P]
00779 # Company : J.F. Salazar and Associates
00780 # License # : 2582634
00781 *****
00782 # Ottawa International Airport (1967 - 2003)
00783 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00784 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
00785 [XIMP= 50;TIMP= 60]
00786 [LQSS= 2;CN=100.0]
00787 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00788 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
00789 [IARClamp= 1.50; IARECape= 6.00]
00790 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00791 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00792 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
00793 [XIMP= 50;TIMP= 60]
00794 [LQSS= 2;CN=100.0]
00795 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00796 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00797 [IARClamp= 1.50; IARECape= 6.00]
00798 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00799 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00800 ADD HYD + 5.0 0.02NF-W1 9.76 .526 1970.0926.21100 325.35 n/a .000
00801 + 5.0 0.02NF-W2 10.03 .561 1970.0926.21100 337.79 n/a .000
00802 + 5.0 0.02NF-W3 10.11 .559 1970.0926.21100 343.93 n/a .000
00803 + 5.0 0.02NF-W4 6.20 .343 1970.0926.21100 337.04 n/a .000
00804 + 5.0 0.02NF-W5 7.81 .443 1970.0926.21100 369.49 n/a .000
00805 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1970.0926.21100 344.91 n/a .000
00806 [XIMP= 50;TIMP= 60]
00807 [LQSS= 2;CN=100.0]
00808 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00809 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00810 [IARClamp= 1.50; IARECape= 6.00]
00811 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00812 *****
00813 ** END OF RUN : 70
00814
00815
00816
00817
00818
00819 RVM:COMMAND#
00820 R0707:CO0001
00821 START
00822 [ITERNO = .00 hrs on 19701011]
00823 [MOUTP= 2 (Imperial, 2=metric output)]
00824 [MTRNO= 0]
00825 [NRUN = 0071]
00826
00827
00828 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00829 # Project Name: Barhavan Conservancy Development
00830 # Project Number: 1474
00831 # Date : 2021/Oct/18
00832 # Modeler : J.Burnett, P.Eng.
00833 # Updated : 2024/Mar/14 [P]
00834 # Company : J.F. Salazar and Associates
00835 # License # : 2582634
00836 *****
00837 # Ottawa International Airport (1967 - 2003)
00838 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00839 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
00840 [XIMP= 50;TIMP= 60]
00841 [LQSS= 2;CN=100.0]
00842 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00843 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
00844 [IARClamp= 1.50; IARECape= 6.00]
00845 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00846 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00847 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
00848 [XIMP= 50;TIMP= 60]
00849 [LQSS= 2;CN=100.0]
00850 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00851 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00852 [IARClamp= 1.50; IARECape= 6.00]
00853 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00854 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00855 ADD HYD + 5.0 0.02NF-W1 9.76 .526 1970.0926.21100 325.35 n/a .000
00856 + 5.0 0.02NF-W2 10.03 .561 1970.0926.21100 337.79 n/a .000
00857 + 5.0 0.02NF-W3 10.11 .559 1970.0926.21100 343.93 n/a .000
00858 + 5.0 0.02NF-W4 6.20 .343 1970.0926.21100 337.04 n/a .000
00859 + 5.0 0.02NF-W5 7.81 .443 1970.0926.21100 369.49 n/a .000
00860 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1970.0926.21100 344.91 n/a .000
00861 [XIMP= 50;TIMP= 60]
00862 [LQSS= 2;CN=100.0]
00863 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00864 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00865 [IARClamp= 1.50; IARECape= 6.00]
00866 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00867 *****
00868 ** END OF RUN : 70
00869
00870
00871
00872
00873
00874 RVM:COMMAND#
00875 R0707:CO0001
00876 START
00877 [ITERNO = .00 hrs on 19701011]
00878 [MOUTP= 2 (Imperial, 2=metric output)]
00879 [MTRNO= 0]
00880 [NRUN = 0071]
00881
00882
00883 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00884 # Project Name: Barhavan Conservancy Development
00885 # Project Number: 1474
00886 # Date : 2021/Oct/18
00887 # Modeler : J.Burnett, P.Eng.
00888 # Updated : 2024/Mar/14 [P]
00889 # Company : J.F. Salazar and Associates
00890 # License # : 2582634
00891 *****
00892 # Ottawa International Airport (1967 - 2003)
00893 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00894 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
00895 [XIMP= 50;TIMP= 60]
00896 [LQSS= 2;CN=100.0]
00897 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00898 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
00899 [IARClamp= 1.50; IARECape= 6.00]
00900 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00901 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00902 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
00903 [XIMP= 50;TIMP= 60]
00904 [LQSS= 2;CN=100.0]
00905 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00906 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00907 [IARClamp= 1.50; IARECape= 6.00]
00908 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00909 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00910 ADD HYD + 5.0 0.02NF-W1 9.76 .526 1970.0926.21100 325.35 n/a .000
00911 + 5.0 0.02NF-W2 10.03 .561 1970.0926.21100 337.79 n/a .000
00912 + 5.0 0.02NF-W3 10.11 .559 1970.0926.21100 343.93 n/a .000
00913 + 5.0 0.02NF-W4 6.20 .343 1970.0926.21100 337.04 n/a .000
00914 + 5.0 0.02NF-W5 7.81 .443 1970.0926.21100 369.49 n/a .000
00915 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1970.0926.21100 344.91 n/a .000
00916 [XIMP= 50;TIMP= 60]
00917 [LQSS= 2;CN=100.0]
00918 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00919 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00920 [IARClamp= 1.50; IARECape= 6.00]
00921 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00922 *****
00923 ** END OF RUN : 70
00924
00925
00926
00927
00928
00929 RVM:COMMAND#
00930 R0707:CO0001
00931 START
00932 [ITERNO = .00 hrs on 19701011]
00933 [MOUTP= 2 (Imperial, 2=metric output)]
00934 [MTRNO= 0]
00935 [NRUN = 0071]
00936
00937
00938 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00939 # Project Name: Barhavan Conservancy Development
00940 # Project Number: 1474
00941 # Date : 2021/Oct/18
00942 # Modeler : J.Burnett, P.Eng.
00943 # Updated : 2024/Mar/14 [P]
00944 # Company : J.F. Salazar and Associates
00945 # License # : 2582634
00946 *****
00947 # Ottawa International Airport (1967 - 2003)
00948 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00949 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
00950 [XIMP= 50;TIMP= 60]
00951 [LQSS= 2;CN=100.0]
00952 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00953 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
00954 [IARClamp= 1.50; IARECape= 6.00]
00955 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00956 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00957 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
00958 [XIMP= 50;TIMP= 60]
00959 [LQSS= 2;CN=100.0]
00960 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00961 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00962 [IARClamp= 1.50; IARECape= 6.00]
00963 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00964 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
00965 ADD HYD + 5.0 0.02NF-W1 9.76 .526 1970.0926.21100 325.35 n/a .000
00966 + 5.0 0.02NF-W2 10.03 .561 1970.0926.21100 337.79 n/a .000
00967 + 5.0 0.02NF-W3 10.11 .559 1970.0926.21100 343.93 n/a .000
00968 + 5.0 0.02NF-W4 6.20 .343 1970.0926.21100 337.04 n/a .000
00969 + 5.0 0.02NF-W5 7.81 .443 1970.0926.21100 369.49 n/a .000
00970 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1970.0926.21100 344.91 n/a .000
00971 [XIMP= 50;TIMP= 60]
00972 [LQSS= 2;CN=100.0]
00973 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
00974 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
00975 [IARClamp= 1.50; IARECape= 6.00]
00976 [SMIN= 1.39; SMAK= 9.24; SK= .000]
00977 *****
00978 ** END OF RUN : 70
00979
00980
00981
00982
00983
00984 RVM:COMMAND#
00985 R0707:CO0001
00986 START
00987 [ITERNO = .00 hrs on 19701011]
00988 [MOUTP= 2 (Imperial, 2=metric output)]
00989 [MTRNO= 0]
00990 [NRUN = 0071]
00991
00992
00993 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00994 # Project Name: Barhavan Conservancy Development
00995 # Project Number: 1474
00996 # Date : 2021/Oct/18
00997 # Modeler : J.Burnett, P.Eng.
00998 # Updated : 2024/Mar/14 [P]
00999 # Company : J.F. Salazar and Associates
01000 # License # : 2582634
01001 *****
01002 # Ottawa International Airport (1967 - 2003)
01003 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01004 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
01005 [XIMP= 50;TIMP= 60]
01006 [LQSS= 2;CN=100.0]
01007 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01008 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
01009 [IARClamp= 1.50; IARECape= 6.00]
01010 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01011 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01012 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
01013 [XIMP= 50;TIMP= 60]
01014 [LQSS= 2;CN=100.0]
01015 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01016 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
01017 [IARClamp= 1.50; IARECape= 6.00]
01018 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01019 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01020 ADD HYD + 5.0 0.02NF-W1 9.76 .526 1970.0926.21100 325.35 n/a .000
01021 + 5.0 0.02NF-W2 10.03 .561 1970.0926.21100 337.79 n/a .000
01022 + 5.0 0.02NF-W3 10.11 .559 1970.0926.21100 343.93 n/a .000
01023 + 5.0 0.02NF-W4 6.20 .343 1970.0926.21100 337.04 n/a .000
01024 + 5.0 0.02NF-W5 7.81 .443 1970.0926.21100 369.49 n/a .000
01025 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1970.0926.21100 344.91 n/a .000
01026 [XIMP= 50;TIMP= 60]
01027 [LQSS= 2;CN=100.0]
01028 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01029 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
01030 [IARClamp= 1.50; IARECape= 6.00]
01031 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01032 *****
01033 ** END OF RUN : 70
01034
01035
01036
01037
01038
01039 RVM:COMMAND#
01040 R0707:CO0001
01041 START
01042 [ITERNO = .00 hrs on 19701011]
01043 [MOUTP= 2 (Imperial, 2=metric output)]
01044 [MTRNO= 0]
01045 [NRUN = 0071]
01046
01047
01048 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01049 # Project Name: Barhavan Conservancy Development
01050 # Project Number: 1474
01051 # Date : 2021/Oct/18
01052 # Modeler : J.Burnett, P.Eng.
01053 # Updated : 2024/Mar/14 [P]
01054 # Company : J.F. Salazar and Associates
01055 # License # : 2582634
01056 *****
01057 # Ottawa International Airport (1967 - 2003)
01058 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01059 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
01060 [XIMP= 50;TIMP= 60]
01061 [LQSS= 2;CN=100.0]
01062 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01063 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
01064 [IARClamp= 1.50; IARECape= 6.00]
01065 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01066 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01067 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
01068 [XIMP= 50;TIMP= 60]
01069 [LQSS= 2;CN=100.0]
01070 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01071 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
01072 [IARClamp= 1.50; IARECape= 6.00]
01073 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01074 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01075 ADD HYD + 5.0 0.02NF-W1 9.76 .526 1970.0926.21100 325.35 n/a .000
01076 + 5.0 0.02NF-W2 10.03 .561 1970.0926.21100 337.79 n/a .000
01077 + 5.0 0.02NF-W3 10.11 .559 1970.0926.21100 343.93 n/a .000
01078 + 5.0 0.02NF-W4 6.20 .343 1970.0926.21100 337.04 n/a .000
01079 + 5.0 0.02NF-W5 7.81 .443 1970.0926.21100 369.49 n/a .000
01080 SIM= 5.0 0.11NF-WCD-PH 48.42 2.485 1970.0926.21100 344.91 n/a .000
01081 [XIMP= 50;TIMP= 60]
01082 [LQSS= 2;CN=100.0]
01083 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01084 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
01085 [IARClamp= 1.50; IARECape= 6.00]
01086 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01087 *****
01088 ** END OF RUN : 70
01089
01090
01091
01092
01093
01094 RVM:COMMAND#
01095 R0707:CO0001
01096 START
01097 [ITERNO = .00 hrs on 19701011]
01098 [MOUTP= 2 (Imperial, 2=metric output)]
01099 [MTRNO= 0]
01100 [NRUN = 0071]
01101
01102
01103 # SWMAYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01104 # Project Name: Barhavan Conservancy Development
01105 # Project Number: 1474
01106 # Date : 2021/Oct/18
01107 # Modeler : J.Burnett, P.Eng.
01108 # Updated : 2024/Mar/14 [P]
01109 # Company : J.F. Salazar and Associates
01110 # License # : 2582634
01111 *****
01112 # Ottawa International Airport (1967 - 2003)
01113 R0707:CO0002-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01114 CONTINUOUS STANDRD 5.0 0.11NF-W5 8.51 .751 1970.0926.21100 311.41 557 .000
01115 [XIMP= 50;TIMP= 60]
01116 [LQSS= 2;CN=100.0]
01117 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01118 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 196.0MNI= .013;SICI= .0]
01119 [IARClamp= 1.50; IARECape= 6.00]
01120 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01121 R0709:R0707:CO0023-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm-----Rvm-R.C-----DWfms
01122 CONTINUOUS STANDRD 5.0 0.11NF-W5 7.81 .736 1970.0926.21100 361.56 647 .000
01123 [XIMP= 50;TIMP= 60]
01124 [LQSS= 2;CN=100.0]
01125 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 40.0MNF=250;SCF= .0]
01126 [Impervious area: IAlmp= 1.57;SLFP= .50;LGI= 228.0MNI= .013;SICI= .0]
01127 [IARClamp= 1.50; IARECape= 6.00]
01128 [SMIN= 1.39; SMAK= 9.24; SK= .000]
01129 R0709:R0707:CO0024-----DtmIn-ID:INVD-----AREAA-GFEARms-TpeaDate_hhm

02161 [METOUT= 2 (Imperial, Zmetric output)]
02162 [NOTURN= 0]
02163 [NUN = 0076]
02164 *****
02165 # SWEHYD Ver:02/Jan 2001 <BETA> - INPUT DATA FILE
02166 *****
02167 # Project Name: Barhavan Conservancy Development
02168 # Project Number: 1474
02169 # Date : 2/21/Oct/19
02170 # Modeler : J.F. Sabourin, F.Eng.
02171 # Updated : 2/24/Mar/14 [P]
02172 # Company : J.F. Sabourin and Associates
02173 # License # : 2382634
02174 *****
02175 # Ottawa International Airport (1967 - 2003)
02176 # R076:CD0002-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02177 # READ ARE DATA
02178 [Filename = YOM_1967_2003.123]
02179 [Start_date= 1976.0101; EndDate= 1976.1230]
02180 [LTS= 60; min; Length= 864; hrs; Metres= 390; DvYrs= 7674; PTD= 493.20]
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 6.43 4.65 2.25 1.39 0.97 0.99 0.80 mm/hr
02184 14.00 17.80 19.30 27.90 28.20 33.30 35.10 47.60 37.50
02185 1976028 1976028 1976028 1976028 1976028 1976028 1976028 1976028 1976028 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 164 133 117 89 72 62 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 163 80 47 15 2 0 0 0 0
02192 # R076:CD0003-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02193 # COMPUTE API
02194 [APIIn= 50.00; APIKey= 9000; APIkdc= 9956]
02195 [APITime= 59.46; APIFrac= 35.31; APIFrac= 190.59]
02196 *****
02197 # Barhavan Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
02198 *****
02199 # R076:CD0004-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02200 # CONTINUOUS STANDBY
02201 [XIMP= 5.0;TIMP= 6.0]
02202 [LDS= 2 ;CN= 71.0]
02203 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02204 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02205 [IARCS= 1.50; IARECP= 6.00]
02206 [SMN= 41.38; SMA= 275.84; SK= 030]
02207 # LID for Outlet W6 (14 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 = 96 m^3
02210 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02211 # R076:CD0005-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02212 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 209.98 n/a .000
02213 # overlow <= 5.0 01M6-LID-Out 1.66 .001 1976.0331.1510 209.98 n/a .000
02214 # overlow <= 5.0 03M6-LID-Out 8.10 .124 1976.0828.1900 209.98 n/a .000
02215 # (MdtOscd= 1929E-01 m3, TotOVVol= 8135E+01 m3, N-Ovrs= 124, TotDvYrs= 143 hrs)
02216 # R076:CD0006-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02217 # CONTINUOUS STANDBY
02218 [XIMP= 5.0;TIMP= 6.0]
02219 [LDS= 2 ;CN= 71.0]
02220 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02221 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 238;MNI= 0.03;SCT= 0]
02222 [IARCS= 1.50; IARECP= 6.00]
02223 [SMN= 41.38; SMA= 275.84; SK= 030]
02224 # LID for Outlet W2 (19 catchbasins, 30 m long trench each)
02225 # Assumed 370 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02226 # Total Volume provided by LID = 131 m^3
02227 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02228 # R076:CD0007-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02229 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 193.59 n/a .000
02230 # overlow <= 5.0 01M6-LID-Out 8.11 .001 1976.0331.1510 193.59 n/a .000
02231 # overlow <= 5.0 03M6-LID-Out 6.33 .165 1976.0828.1900 193.59 n/a .000
02232 # (MdtOscd= 1108E-01 m3, TotOVVol= 11681E+01 m3, N-Ovrs= 124, TotDvYrs= 143 hrs)
02233 # R076:CD0008-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02234 # CONTINUOUS STANDBY
02235 [XIMP= 5.0;TIMP= 6.0]
02236 [LDS= 2 ;CN= 71.0]
02237 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02238 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 259;MNI= 0.03;SCT= 0]
02239 [IARCS= 1.50; IARECP= 6.00]
02240 [SMN= 41.38; SMA= 275.84; SK= 030]
02241 # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
02242 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02243 # Total Volume provided by LID = 193 m^3
02244 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02245 # R076:CD0009-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02246 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 243.72 n/a .000
02247 # overlow <= 5.0 01M6-LID-Out 7.06 .255 1976.0828.1900 243.72 n/a .000
02248 # overlow <= 5.0 03M6-LID-Out 7.06 .255 1976.0828.1900 243.72 n/a .000
02249 # (MdtOscd= 1929E-01 m3, TotOVVol= 1720E+01 m3, N-Ovrs= 114, TotDvYrs= 143 hrs)
02250 # R076:CD0010-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02251 # CONTINUOUS STANDBY
02252 [XIMP= 5.0;TIMP= 6.0]
02253 [LDS= 2 ;CN= 71.0]
02254 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02255 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 260;MNI= 0.03;SCT= 0]
02256 [IARCS= 1.50; IARECP= 6.00]
02257 [SMN= 41.38; SMA= 275.84; SK= 030]
02258 # LID for Outlet W4 (27 catchbasins, 30 m long trench each)
02259 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02260 # Total Volume provided by LID = 186 m^3
02261 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02262 # R076:CD0011-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02263 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 224.84 n/a .000
02264 # overlow <= 5.0 01M6-LID-Out 3.94 .001 1976.0331.1510 224.84 n/a .000
02265 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 224.84 n/a .000
02266 # (MdtOscd= 1859E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 121, TotDvYrs= 143 hrs)
02267 # R076:CD0012-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02268 # CONTINUOUS STANDBY
02269 [XIMP= 5.0;TIMP= 6.0]
02270 [LDS= 2 ;CN= 71.0]
02271 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02272 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 259;MNI= 0.03;SCT= 0]
02273 [IARCS= 1.50; IARECP= 6.00]
02274 [SMN= 41.38; SMA= 275.84; SK= 030]
02275 # LID for Outlet W3 (18 catchbasins, 30 m long trench each)
02276 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02277 # Total Volume provided by LID = 186 m^3
02278 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02279 # R076:CD0013-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02280 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 259.60 n/a .000
02281 # overlow <= 5.0 01M6-LID-Out 1.87 .001 1976.0331.1510 259.60 n/a .000
02282 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 259.60 n/a .000
02283 # (MdtOscd= 1108E-01 m3, TotOVVol= 9331E+01 m3, N-Ovrs= 120, TotDvYrs= 143 hrs)
02284 # R076:CD0014-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02285 # CONTINUOUS STANDBY
02286 [XIMP= 5.0;TIMP= 6.0]
02287 [LDS= 2 ;CN= 71.0]
02288 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02289 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 228;MNI= 0.03;SCT= 0]
02290 [IARCS= 1.50; IARECP= 6.00]
02291 [SMN= 41.38; SMA= 275.84; SK= 030]
02292 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02293 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02294 # Total Volume provided by LID = 125 m^3
02295 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02296 # R076:CD0015-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02297 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 259.60 n/a .000
02298 # overlow <= 5.0 01M6-LID-Out 2.35 .001 1976.0331.1510 259.60 n/a .000
02299 # overlow <= 5.0 03M6-LID-Out 5.46 .215 1976.0828.1900 259.60 n/a .000
02300 # (MdtOscd= 1450E-01 m3, TotOVVol= 1419E+01 m3, N-Ovrs= 121, TotDvYrs= 137 hrs)
02301 # R076:CD0016-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02302 # ADD HYD
02303 + 5.0 02186 10.03 1.24 1976.0828.1900 209.98 n/a .000
02304 + 5.0 02186 10.03 1.24 1976.0828.1900 243.72 n/a .000
02305 + 5.0 02186 10.03 1.24 1976.0828.1900 215.45 n/a .000
02306 + 5.0 02186 10.03 1.24 1976.0828.1900 215.45 n/a .000
02307 + 5.0 02186 10.03 1.24 1976.0828.1900 259.60 n/a .000
02308 + 5.0 01M6-LID-Out 2.35 .001 1976.0331.1510 259.60 n/a .000
02309 + 5.0 03M6-LID-Out 5.46 .215 1976.0828.1900 259.60 n/a .000
02310 + 5.0 01M6-LID-Out 4.33 .213 1976.0828.1900 224.84 n/a .000
02311 + 5.0 03M6-LID-Out 7.06 .255 1976.0828.1900 243.72 n/a .000
02312 + 5.0 01M6-LID-Out 4.33 .213 1976.0828.1900 224.84 n/a .000
02313 + 5.0 03M6-LID-Out 7.06 .255 1976.0828.1900 243.72 n/a .000
02314 + 5.0 01M6-LID-Out 4.33 .213 1976.0828.1900 224.84 n/a .000
02315 + 5.0 03M6-LID-Out 7.06 .255 1976.0828.1900 243.72 n/a .000
02316 + 5.0 01M6-LID-Out 4.33 .213 1976.0828.1900 224.84 n/a .000
02317 + 5.0 03M6-LID-Out 7.06 .255 1976.0828.1900 243.72 n/a .000
02318 # Barhavan Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
02319 # Set Infiltration Rates to (CN = 99.99) for water balance analysis
02320 *****
02321 # R076:CD0018-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02322 # CONTINUOUS STANDBY
02323 [XIMP= 5.0;TIMP= 6.0]
02324 [LDS= 2 ;CN= 100.0]
02325 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02326 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 196;MNI= 0.03;SCT= 0]
02327 [IARCS= 1.50; IARECP= 6.00]
02328 [SMN= 41.38; SMA= 275.84; SK= 030]
02329 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02330 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02331 # Total Volume provided by LID = 110 m^3
02332 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02333 # R076:CD0019-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02334 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 255.68 n/a .000
02335 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 255.68 n/a .000
02336 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 255.68 n/a .000
02337 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02338 # R076:CD0020-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02339 # CONTINUOUS STANDBY
02340 [XIMP= 5.0;TIMP= 6.0]
02341 [LDS= 2 ;CN= 100.0]
02342 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02343 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02344 [IARCS= 1.50; IARECP= 6.00]
02345 [SMN= 41.38; SMA= 275.84; SK= 030]
02346 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02347 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02348 # Total Volume provided by LID = 110 m^3
02349 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02350 # R076:CD0021-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02351 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02352 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02353 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02354 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02355 # R076:CD0022-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02356 # CONTINUOUS STANDBY
02357 [XIMP= 5.0;TIMP= 6.0]
02358 [LDS= 2 ;CN= 100.0]
02359 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02360 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02361 [IARCS= 1.50; IARECP= 6.00]
02362 [SMN= 41.38; SMA= 275.84; SK= 030]
02363 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02364 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02365 # Total Volume provided by LID = 110 m^3
02366 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02367 # R076:CD0023-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02368 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02369 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02370 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02371 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02372 # R076:CD0024-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02373 # CONTINUOUS STANDBY
02374 [XIMP= 5.0;TIMP= 6.0]
02375 [LDS= 2 ;CN= 100.0]
02376 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02377 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02378 [IARCS= 1.50; IARECP= 6.00]
02379 [SMN= 41.38; SMA= 275.84; SK= 030]
02380 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02381 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02382 # Total Volume provided by LID = 110 m^3
02383 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02384 # R076:CD0025-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02385 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02386 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02387 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02388 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02389 # R076:CD0026-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02390 # CONTINUOUS STANDBY
02391 [XIMP= 5.0;TIMP= 6.0]
02392 [LDS= 2 ;CN= 100.0]
02393 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02394 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02395 [IARCS= 1.50; IARECP= 6.00]
02396 [SMN= 41.38; SMA= 275.84; SK= 030]
02397 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02398 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02399 # Total Volume provided by LID = 110 m^3
02400 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02401 # R076:CD0027-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02402 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02403 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02404 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02405 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02406 # R076:CD0028-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02407 # CONTINUOUS STANDBY
02408 [XIMP= 5.0;TIMP= 6.0]
02409 [LDS= 2 ;CN= 100.0]
02410 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02411 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02412 [IARCS= 1.50; IARECP= 6.00]
02413 [SMN= 41.38; SMA= 275.84; SK= 030]
02414 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02415 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02416 # Total Volume provided by LID = 110 m^3
02417 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02418 # R076:CD0029-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02419 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02420 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02421 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02422 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02423 # R076:CD0030-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02424 # CONTINUOUS STANDBY
02425 [XIMP= 5.0;TIMP= 6.0]
02426 [LDS= 2 ;CN= 100.0]
02427 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02428 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02429 [IARCS= 1.50; IARECP= 6.00]
02430 [SMN= 41.38; SMA= 275.84; SK= 030]
02431 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02432 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02433 # Total Volume provided by LID = 110 m^3
02434 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02435 # R076:CD0031-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02436 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02437 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02438 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02439 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02440 # R076:CD0032-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02441 # CONTINUOUS STANDBY
02442 [XIMP= 5.0;TIMP= 6.0]
02443 [LDS= 2 ;CN= 100.0]
02444 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02445 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02446 [IARCS= 1.50; IARECP= 6.00]
02447 [SMN= 41.38; SMA= 275.84; SK= 030]
02448 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02449 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02450 # Total Volume provided by LID = 110 m^3
02451 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02452 # R076:CD0033-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02453 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000
02454 # overlow <= 5.0 01M6-LID-Out 1.62 .001 1976.0331.1510 289.67 n/a .000
02455 # overlow <= 5.0 03M6-LID-Out 4.33 .213 1976.0828.1900 289.67 n/a .000
02456 # (MdtOscd= 1108E-01 m3, TotOVVol= 1590E+01 m3, N-Ovrs= 122, TotDvYrs= 211 hrs)
02457 # R076:CD0034-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02458 # CONTINUOUS STANDBY
02459 [XIMP= 5.0;TIMP= 6.0]
02460 [LDS= 2 ;CN= 100.0]
02461 [Previous area: IArea= 4.67;SLFP=2.00;LGF= 4.0;MNP= 250;SCP= 0]
02462 [Impervious area: IArea= 1.57;SLFP= 1.50;LGI= 203;MNI= 0.03;SCT= 0]
02463 [IARCS= 1.50; IARECP= 6.00]
02464 [SMN= 41.38; SMA= 275.84; SK= 030]
02465 # LID for Outlet W6 (14 catchbasins, 30 m long trench each)
02466 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02467 # Total Volume provided by LID = 110 m^3
02468 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02469 # R076:CD0035-----Otain:ID:INHDV-----AREAA-GFEARCS-TpeakDate_hh:mm-----RvM-R.C-----DWFCMS
02470 # ROUTE RESERVOIR -> 5.0 02186 10.03 1.24 1976.0828.1900 289.67 n/a .000


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02881 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616 19790616
02882 # Number of following increment time
02883 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02884 188 147 129 103 86 60 53 43 36
02885 # Number of events with least the following duration
02886 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
02887 187 97 68 25 6 2 1 0 0
02888 R0079.C0002-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02889 [XMP:50:71MP:60]
02890 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02891 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
02892 [IARCSlope: 1.50: IARCSpec: 6.00]
02893 [SMN: 41.38: SMAK=275.84: SK= .030]
02894 # Lid for Outlet W1 (14 catchbasins, 30 m long trench each)
02895 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02896 # Total Volume provided by LID = 186 m3
02897 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02898 R0079.C0001-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02899 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 455.94 n/a .000
02900 out <= 5.0 03:18-LID 1.94 .001 1979.0101:19:45 455.95 n/a .000
02901 overflow <= 5.0 03:18-LID 0.72 .411 1979.0616:14:00 455.94 n/a .000
02902 [MstOfUsed=.9599E-02 m3, TotOfVol=.2151E+01 m3, N-OfV= 119, TotDurOfV= 213 hrs]
02903 R0079.C0000-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02904 CONTINUOUS STANDBYD 5.0 01:182 8.51 .578 1979.0616:14:00 425.51 491.000
02905 [XMP:50:71MP:60]
02906 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02907 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
02908 [IARCSlope: 1.50: IARCSpec: 6.00]
02909 [SMN: 41.38: SMAK=275.84: SK= .030]
02910 # Lid for Outlet W1 (14 catchbasins, 30 m long trench each)
02911 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02912 # Total Volume provided by LID = 186 m3
02913 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02914 R0079.C0001-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02915 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 455.94 n/a .000
02916 out <= 5.0 03:18-LID 1.94 .001 1979.0101:19:45 455.95 n/a .000
02917 overflow <= 5.0 03:18-LID 0.72 .411 1979.0616:14:00 455.94 n/a .000
02918 [MstOfUsed=.1309E-01 m3, TotOfVol=.2966E+01 m3, N-OfV= 124, TotDurOfV= 214 hrs]
02919 R0079.C0000-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02920 CONTINUOUS STANDBYD 5.0 01:182 8.51 .578 1979.0616:14:00 425.51 491.000
02921 [XMP:50:71MP:60]
02922 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02923 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
02924 [IARCSlope: 1.50: IARCSpec: 6.00]
02925 [SMN: 41.38: SMAK=275.84: SK= .030]
02926 # Lid for Outlet W2 (18 catchbasins, 30 m long trench each)
02927 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02928 # Total Volume provided by LID = 193 m3
02929 # Soil infiltration rates assumed 9mm/hr with a safety factor of 2.5
02930 R0079.C0009-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02931 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 425.51 n/a .000
02932 out <= 5.0 03:18-LID 1.92 .001 1979.0101:19:45 516.68 n/a .000
02933 overflow <= 5.0 03:18-LID 0.81 .767 1979.0616:14:00 516.68 n/a .000
02934 [MstOfUsed=.1309E-01 m3, TotOfVol=.4192E+01 m3, N-OfV= 124, TotDurOfV= 212 hrs]
02935 R0079.C0010-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02936 CONTINUOUS STANDBYD 5.0 01:184 10.11 .793 1979.0616:14:00 482.39 557.000
02937 [XMP:60:71MP:70]
02938 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02939 [Impervious area: IArea= 1.57:SIFF= .50:LI= 260.0:MI=.013:SI= .0]
02940 [IARCSlope: 1.50: IARCSpec: 6.00]
02941 [SMN: 41.38: SMAK=275.84: SK= .030]
02942 # Lid for Outlet W2 (18 catchbasins, 30 m long trench each)
02943 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02944 # Total Volume provided by LID = 193 m3
02945 # Soil infiltration rates assumed 9mm/hr with a safety factor of 2.5
02946 R0079.C0009-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02947 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 425.51 n/a .000
02948 out <= 5.0 03:18-LID 1.92 .001 1979.0101:19:45 516.68 n/a .000
02949 overflow <= 5.0 03:18-LID 0.81 .767 1979.0616:14:00 516.68 n/a .000
02950 [MstOfUsed=.1309E-01 m3, TotOfVol=.4192E+01 m3, N-OfV= 124, TotDurOfV= 212 hrs]
02951 R0079.C0010-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02952 CONTINUOUS STANDBYD 5.0 01:184 10.11 .793 1979.0616:14:00 482.39 557.000
02953 [XMP:60:71MP:70]
02954 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02955 [Impervious area: IArea= 1.57:SIFF= .50:LI= 260.0:MI=.013:SI= .0]
02956 [IARCSlope: 1.50: IARCSpec: 6.00]
02957 [SMN: 41.38: SMAK=275.84: SK= .030]
02958 # Lid for Outlet W2 (18 catchbasins, 30 m long trench each)
02959 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02960 # Total Volume provided by LID = 186 m3
02961 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02962 R0079.C0011-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02963 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 482.39 n/a .000
02964 out <= 5.0 03:18-LID 1.92 .001 1979.0101:19:45 482.39 n/a .000
02965 overflow <= 5.0 03:18-LID 0.81 .767 1979.0616:14:00 482.39 n/a .000
02966 [MstOfUsed=.1309E-01 m3, TotOfVol=.2966E+01 m3, N-OfV= 124, TotDurOfV= 214 hrs]
02967 R0079.C0012-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02968 CONTINUOUS STANDBYD 5.0 01:185 6.20 .468 1979.0616:14:00 465.26 537.000
02969 [XMP:60:71MP:70]
02970 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02971 [Impervious area: IArea= 1.57:SIFF= .50:LI= 260.0:MI=.013:SI= .0]
02972 [IARCSlope: 1.50: IARCSpec: 6.00]
02973 [SMN: 41.38: SMAK=275.84: SK= .030]
02974 # Lid for Outlet W2 (18 catchbasins, 30 m long trench each)
02975 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02976 # Total Volume provided by LID = 110 m3
02977 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02978 R0079.C0013-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02979 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 465.26 n/a .000
02980 out <= 5.0 03:18-LID 1.92 .001 1979.0101:19:45 465.26 n/a .000
02981 overflow <= 5.0 03:18-LID 0.81 .767 1979.0616:14:00 465.26 n/a .000
02982 [MstOfUsed=.1100E-01 m3, TotOfVol=.2334E+01 m3, N-OfV= 117, TotDurOfV= 209 hrs]
02983 R0079.C0014-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02984 CONTINUOUS STANDBYD 5.0 01:186 7.81 .657 1979.0616:14:00 545.65 630.000
02985 [XMP:60:71MP:70]
02986 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
02987 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
02988 [IARCSlope: 1.50: IARCSpec: 6.00]
02989 [SMN: 41.38: SMAK=275.84: SK= .030]
02990 # Lid for Outlet W2 (18 catchbasins, 30 m long trench each)
02991 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
02992 # Total Volume provided by LID = 186 m3
02993 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
02994 R0079.C0015-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
02995 ROUTE RESERVOIR -> 5.0 02:18 5.76 .431 1979.0616:14:00 545.65 n/a .000
02996 out <= 5.0 03:18-LID 1.93 .001 1979.0101:19:45 545.65 n/a .000
02997 overflow <= 5.0 03:18-LID 0.82 .637 1979.0616:14:00 545.65 n/a .000
02998 [MstOfUsed=.1649E-01 m3, TotOfVol=.3428E+01 m3, N-OfV= 124, TotDurOfV= 209 hrs]
02999 R0079.C0016-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03000 CONTINUOUS STANDBYD 5.0 01:187 8.51 .578 1979.0616:14:00 455.94 n/a .000
03001 ADD HYD + 5.0 02:18 8.51 .578 1979.0616:14:00 455.94 n/a .000
03002 + 5.0 02:18 8.51 .578 1979.0616:14:00 455.94 n/a .000
03003 + 5.0 02:18 10.11 .793 1979.0616:14:00 482.39 n/a .000
03004 + 5.0 02:18 10.11 .793 1979.0616:14:00 465.26 n/a .000
03005 + 5.0 02:18 7.81 .657 1979.0616:14:00 545.65 n/a .000
03006 + 5.0 02:18 7.81 .657 1979.0616:14:00 545.65 n/a .000
03007 + 5.0 02:18 7.81 .657 1979.0616:14:00 482.39 n/a .000
03008 + 5.0 02:18 7.81 .657 1979.0616:14:00 482.39 n/a .000
03009 + 5.0 02:18 7.81 .657 1979.0616:14:00 465.26 n/a .000
03010 + 5.0 02:18 7.81 .657 1979.0616:14:00 465.26 n/a .000
03011 + 5.0 02:18 7.81 .657 1979.0616:14:00 465.26 n/a .000
03012 + 5.0 02:18 7.81 .657 1979.0616:14:00 465.26 n/a .000
03013 + 5.0 02:18 7.81 .657 1979.0616:14:00 465.26 n/a .000
03014 # Barhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
03015 [XMP:50:71MP:60]
03016 # Set infiltration to 0 (CM = 99.99) for water balance analysis
03017 # *****
03018 R0079.C0018-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03019 CONTINUOUS STANDBYD 5.0 01:187W4 5.76 .438 1979.0616:14:00 577.15 666.000
03020 [XMP:50:71MP:60]
03021 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
03022 [Impervious area: IArea= 1.57:SIFF= .50:LI= 196.0:MI=.013:SI= .0]
03023 [IARCSlope: 1.50: IARCSpec: 6.00]
03024 [SMN: 1.39: SMAK= 9.24: SK= .000]
03025 R0079.C0019-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03026 CONTINUOUS STANDBYD 5.0 01:187W2 8.51 .780 1979.0616:14:00 557.82 644.000
03027 [XMP:50:71MP:60]
03028 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
03029 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
03030 [IARCSlope: 1.50: IARCSpec: 6.00]
03031 [SMN: 1.39: SMAK= 9.24: SK= .000]
03032 R0079.C0020-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03033 CONTINUOUS STANDBYD 5.0 01:187W3 5.03 .649 1979.0616:14:00 610.15 704.000
03034 [XMP:66:71MP:76]
03035 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
03036 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
03037 [IARCSlope: 1.50: IARCSpec: 6.00]
03038 [SMN: 1.39: SMAK= 9.24: SK= .000]
03039 R0079.C0021-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03040 CONTINUOUS STANDBYD 5.0 01:187W4 10.11 .939 1979.0616:14:00 590.39 681.000
03041 [XMP:60:71MP:70]
03042 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
03043 [Impervious area: IArea= 1.57:SIFF= .50:LI= 260.0:MI=.013:SI= .0]
03044 [IARCSlope: 1.50: IARCSpec: 6.00]
03045 [SMN: 1.39: SMAK= 9.24: SK= .000]
03046 R0079.C0022-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03047 CONTINUOUS STANDBYD 5.0 01:187W5 6.20 .468 1979.0616:14:00 580.57 670.000
03048 [XMP:50:71MP:60]
03049 [Previous area: IArea= 4.67:SIFFP=2.00:LG= 40.0:MP=250:SCP= .0]
03050 [Impervious area: IArea= 1.57:SIFF= .50:LI= 238.0:MI=.013:SI= .0]
03051 [IARCSlope: 1.50: IARCSpec: 6.00]
03052 [SMN: 1.39: SMAK= 9.24: SK= .000]
03053 R0079.C0023-----DtnIn-ID:INVD-----AREHA-QFEARCS-TpeakDate_hh:mm-----Rvm-R-C-----DWFCMS
03054 CONTINUOUS STANDBYD 5.0 01:187W6 7.81 .741 1979.0616:14:00 626.86 723.000
03055 [XMP:60:71MP:70]

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03961 [SMIN= 1.39; SMAX= 9.24; SK= 000]-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03962 R0881C00019-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03963 CONTINUOUS STANDBY 5.0 01:1NF-W6 10.03 .268 1983.1005.15.00 366.59 624 .000
03964 [XMP= 66:71MP= 76]
03965 [LOGS= 2 :CN= 100.0]
03966 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
03967 [Impervious area: IArea= 1.57:SLFP= .50:LG= 259.0MN= .013:SCI= .0]
03968 [IARClcimp= 1.50; IARECpepe= 6.00]
03969 [SMIN= 1.39; SMAX= 9.24; SK= 000]
03970 R0881C00019-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03971 CONTINUOUS STANDBY 5.0 01:1NF-W4 10.11 .268 1983.1005.15.00 350.25 596 .000
03972 [XMP= 67:71MP= 70]
03973 [LOGS= 2 :CN= 100.0]
03974 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
03975 [Impervious area: IArea= 1.57:SLFP= .50:LG= 260.0MN= .013:SCI= .0]
03976 [IARClcimp= 1.50; IARECpepe= 6.00]
03977 [SMIN= 1.39; SMAX= 9.24; SK= 000]
03978 R0881C00022-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03979 CONTINUOUS STANDBY 5.0 01:1NF-W6 6.20 .164 1983.1005.15.00 342.14 582 .000
03980 [XMP= 57:71MP= 81]
03981 [LOGS= 2 :CN= 100.0]
03982 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
03983 [Impervious area: IArea= 1.57:SLFP= .50:LG= 203.0MN= .013:SCI= .0]
03984 [IARClcimp= 1.50; IARECpepe= 6.00]
03985 [SMIN= 1.39; SMAX= 9.24; SK= 000]
03986 R0881C00023-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03987 CONTINUOUS STANDBY 5.0 01:1NF-W6 7.81 .211 1983.1005.15.00 380.42 648 .000
03988 [XMP= 71:71MP= 81]
03989 [LOGS= 2 :CN= 100.0]
03990 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
03991 [Impervious area: IArea= 1.57:SLFP= .50:LG= 228.0MN= .013:SCI= .0]
03992 [IARClcimp= 1.50; IARECpepe= 6.00]
03993 [SMIN= 1.39; SMAX= 9.24; SK= 000]
03994 R0881C00024-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
03995 ADD HYD 5.76 .153 1983.1005.15.00 339.17 n/a .000
03996 + 5.0 02:1NF-W2 8.51 .222 1983.1005.15.00 323.35 n/a .000
03997 + 5.0 02:1NF-W3 10.03 .268 1983.1005.15.00 366.59 n/a .000
03998 + 5.0 02:1NF-W4 10.11 .268 1983.1005.15.00 350.25 n/a .000
03999 + 5.0 02:1NF-W5 6.20 .164 1983.1005.15.00 342.14 n/a .000
04000 + 5.0 02:1NF-W6 7.81 .211 1983.1005.15.00 380.42 n/a .000
04001 SUM= 6.20 1.28 1983.1005.15.00 351.42 n/a .000
04002 *****
04003 # CONTINUOUS RAINFALL DATA
04004 *****
04005 ** END OF RUN # 83
04006 *****
04007 *****
04008 *****
04009 *****
04010 *****
04011 *****
04012 *****
04013 RvM#;COMMAND#
04014 RvM#;COMMAND#
04015 [TERZO = .00 hrs on 1980101]
04016 [NETOUT = 2 (Imperial, 2-metric output)]
04017 [NRUN = 0085]
04018 [NRUN = 0084]
04019 *****
04020 *****
04021 # SWHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
04022 *****
04023 # Project Name: Barhaven Conservancy Development
04024 # Project Number: 1474
04025 # Date : 2/22/02/18
04026 # Modeler : J.Burnett, P.Eng.
04027 # Updated : 2/22/02/18 [IP]
04028 # Company : J.F. Sabourin and Associates
04029 # License : 2582634
04030 *****
04031 # Ottawa International Airport (1967 - 2003)
04032 R0881C00022-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04033 READ AES DATA
04034 [Filename = YOM_1967_2007_123]
04035 [Start_date = 1967-01-01; End_date = 1984-12-30]
04036 [DT= 60;min; Length= 8760;hrs; WetHrs= 308; DryHrs= 8452; PTO= 459.40]
04037 Maximum average rainfall intensities over:
04038 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04039 19.00 13.60 11.73 6.60 3.30 1.65 1.11 .89 .72 mm/hr
04040 17.80 12.40 10.70 6.00 3.00 1.50 1.00 0.75 0.63 mm
04041 1948012 1948012 1948012 1948012 1948012 1948012 1948012 1948012 1948012 date
04042 *****
04043 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04044 98 80 75 63
04045 Number of events with at least the following durations 40 34 26
04046 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04047 97 58 39 11 3 1 0
04048 R0881C00023-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04049 COMPUTE API
04050 [APInsk= 50.00; APfVsk= 9000; APfKsk= 9956]
04051 [APfVsk= 86.83; APfVsk= 13.22; APfVsk= .00]
04052 *****
04053 # Barhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
04054 R0881C00004-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04055 CONTINUOUS STANDBY 5.0 01:1NF 5.76 .184 1984.0812.7:00 224.78 489 .000
04056 [XMP= 23:50:71MP= 66]
04057 [LOGS= 2 :CN= 71.0]
04058 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04059 [Impervious area: IArea= 1.57:SLFP= .50:LG= 196.0MN= .013:SCI= .0]
04060 [IARClcimp= 1.50; IARECpepe= 6.00]
04061 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04062 # LID for Outlet W1 (14 catchbasins, 30 m long trench each)
04063 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04064 # Total Volume provided by LID = 186 m^3
04065 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04066 R0881C00019-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04067 ROUTE RESERVOIR -> 5.0 02:1NF 5.76 .184 1984.0812.7:00 224.78 n/a .000
04068 ROUTE RESERVOIR -> 5.0 02:1NF 1.28 .001 1984.0812.9:00 224.79 n/a .000
04069 overflow <= 5.0 01:1NF-LID 1.89 .001 1984.0812.9:00 224.78 n/a .000
04070 [MxStoUse= .9596E-02 m3; TotDvVol= 1.008E+01 m3; N-Ov= 89; TotDvDv= 144.hrs]
04071 R0881C00019-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04072 CONTINUOUS STANDBY 5.0 01:1NF 8.51 .251 1984.0812.7:00 208.10 453 .000
04073 [XMP= 50:71MP= 60]
04074 [LOGS= 2 :CN= 71.0]
04075 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04076 [Impervious area: IArea= 1.57:SLFP= .50:LG= 238.0MN= .013:SCI= .0]
04077 [IARClcimp= 1.50; IARECpepe= 6.00]
04078 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04079 # LID for Outlet W2 (19 catchbasins, 30 m long trench each)
04080 # Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04081 # Total Volume provided by LID = 110 m^3
04082 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04083 R0881C00009-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04084 ROUTE RESERVOIR -> 5.0 02:1NF 8.51 .251 1984.0812.7:00 208.10 n/a .000
04085 overflow <= 5.0 01:1NF-LID 1.89 .001 1984.0812.9:00 208.10 n/a .000
04086 [MxStoUse= .1310E-01 m3; TotDvVol= 1.377E+01 m3; N-Ov= 89; TotDvDv= 144.hrs]
04087 R0881C00008-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04088 CONTINUOUS STANDBY 5.0 01:1NF 10.03 .364 1984.0812.7:00 258.62 563 .000
04089 [XMP= 66:71MP= 76]
04090 [LOGS= 2 :CN= 71.0]
04091 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04092 [Impervious area: IArea= 1.57:SLFP= .50:LG= 259.0MN= .013:SCI= .0]
04093 [IARClcimp= 1.50; IARECpepe= 6.00]
04094 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04095 # LID for Outlet W3 (28 catchbasins, 30 m long trench each)
04096 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04097 # Total Volume provided by LID = 193 m^3
04098 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04099 R0881C00009-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04100 ROUTE RESERVOIR -> 5.0 02:1NF 10.03 .364 1984.0812.7:00 208.10 n/a .000
04101 overflow <= 5.0 01:1NF-LID 2.30 .001 1984.0812.9:00 258.62 n/a .000
04102 [MxStoUse= .1310E-01 m3; TotDvVol= 2.000E+01 m3; N-Ov= 88; TotDvDv= 142.hrs]
04103 R0881C00010-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04104 CONTINUOUS STANDBY 5.0 01:1NF 10.11 .340 1984.0812.7:00 239.62 522 .000
04105 [XMP= 60:71MP= 70]
04106 [LOGS= 2 :CN= 71.0]
04107 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04108 [Impervious area: IArea= 1.57:SLFP= .50:LG= 260.0MN= .013:SCI= .0]
04109 [IARClcimp= 1.50; IARECpepe= 6.00]
04110 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04111 # LID for Outlet W4 (27 catchbasins, 30 long trench each)
04112 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04113 # Total Volume provided by LID = 186 m^3
04114 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04115 R0881C00011-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04116 ROUTE RESERVOIR -> 5.0 02:1NF 10.11 .340 1984.0812.7:00 239.62 n/a .000
04117 overflow <= 5.0 01:1NF-LID 2.34 .001 1984.0812.9:00 239.62 n/a .000
04118 [MxStoUse= .1310E-01 m3; TotDvVol= 1.621E+01 m3; N-Ov= 88; TotDvDv= 142.hrs]
04119 R0881C00012-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04120 CONTINUOUS STANDBY 5.0 01:1NF 6.20 .202 1984.0812.7:00 230.18 501 .000
04121 [XMP= 57:71MP= 67]
04122 [LOGS= 2 :CN= 71.0]
04123 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04124 [Impervious area: IArea= 1.57:SLFP= .50:LG= 203.0MN= .013:SCI= .0]
04125 [IARClcimp= 1.50; IARECpepe= 6.00]
04126 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04127 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
04128 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04129 # Total Volume provided by LID = 110 m^3
04130 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04131 R0881C00013-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04132 ROUTE RESERVOIR -> 5.0 02:1NF 6.20 .202 1984.0812.7:00 230.18 n/a .000
04133 overflow <= 5.0 01:1NF-LID 4.76 .199 1984.0812.7:00 230.18 n/a .000
04134 [MxStoUse= .1099E-01 m3; TotDvVol= 1.096E+01 m3; N-Ov= 91; TotDvDv= 140.hrs]
04135 R0881C00014-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04136 CONTINUOUS STANDBY 5.0 01:1NF 7.81 .251 1984.0812.7:00 274.64 598 .000
04137 [XMP= 71:71MP= 81]
04138 [LOGS= 2 :CN= 71.0]
04139 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04140 [Impervious area: IArea= 1.57:SLFP= .50:LG= 259.0MN= .013:SCI= .0]
04141 [IARClcimp= 1.50; IARECpepe= 6.00]
04142 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04143 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
04144 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04145 # Total Volume provided by LID = 163 m^3
04146 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04147 R0881C00015-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04148 ROUTE RESERVOIR -> 5.0 02:1NF 7.81 .251 1984.0812.7:00 274.64 n/a .000
04149 overflow <= 5.0 01:1NF-LID 1.82 .001 1984.0812.9:00 274.64 n/a .000
04150 [MxStoUse= .1099E-01 m3; TotDvVol= 1.096E+01 m3; N-Ov= 88; TotDvDv= 140.hrs]
04151 R0881C00016-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04152 CONTINUOUS STANDBY 5.0 01:1NF-W2 37.36 .625 1984.07:12:00 200.60 n/a .000
04153 [LOGS= 2 :CN= 100.0]
04154 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04155 [Impervious area: IArea= 1.57:SLFP= .50:LG= 196.0MN= .013:SCI= .0]
04156 [IARClcimp= 1.50; IARECpepe= 6.00]
04157 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04158 ADD HYD 5.76 .184 1984.0812.7:00 224.78 n/a .000
04159 + 5.0 02:1NF 8.51 .251 1984.0812.7:00 208.10 n/a .000
04160 + 5.0 02:1NF 10.03 .364 1984.0812.7:00 258.62 n/a .000
04161 + 5.0 02:1NF 10.11 .340 1984.0812.7:00 239.62 n/a .000
04162 + 5.0 02:1NF 6.20 .202 1984.0812.7:00 230.18 n/a .000
04163 + 5.0 02:1NF 7.81 .251 1984.0812.7:00 274.64 n/a .000
04164 SUM= 5.76 0.0182C-PH3 48.42 1.641 1984.0812.7:00 240.69 n/a .000
04165 R0881C00017-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04166 ADD HYD 5.76 .184 1984.0812.7:00 224.78 n/a .000
04167 + 5.0 02:1NF-LID 4.48 .181 1984.0812.7:00 224.78 n/a .000
04168 + 5.0 02:1NF-LID 4.76 .198 1984.0812.7:00 230.18 n/a .000
04169 + 5.0 02:1NF-LID 7.77 .335 1984.0812.7:00 239.62 n/a .000
04170 + 5.0 02:1NF-LID 4.76 .198 1984.0812.7:00 230.18 n/a .000
04171 + 5.0 02:1NF-LID 5.99 .297 1984.0812.7:00 274.64 n/a .000
04172 SUM= 5.76 0.0182C-PH3 37.36 .625 1984.07:12:00 200.60 n/a .000
04173 *****
04174 # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
04175 *****
04176 # Set infiltration to 0 (CN = 99.99) for water balance analysis
04177 *****
04178 R0881C00018-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04179 CONTINUOUS STANDBY 5.0 01:1NF-W4 5.76 .253 1984.0812.7:00 289.40 630 .000
04180 [XMP= 57:71MP= 66]
04181 [LOGS= 2 :CN= 100.0]
04182 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04183 [Impervious area: IArea= 1.57:SLFP= .50:LG= 196.0MN= .013:SCI= .0]
04184 [IARClcimp= 1.50; IARECpepe= 6.00]
04185 [SMIN= 1.39; SMAX= 9.24; SK= 000]
04186 R0881C00019-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04187 CONTINUOUS STANDBY 5.0 01:1NF-W2 8.51 .357 1984.0812.7:00 377.94 605 .000
04188 [XMP= 50:71MP= 60]
04189 [LOGS= 2 :CN= 100.0]
04190 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04191 [Impervious area: IArea= 1.57:SLFP= .50:LG= 238.0MN= .013:SCI= .0]
04192 [IARClcimp= 1.50; IARECpepe= 6.00]
04193 [SMIN= 1.39; SMAX= 9.24; SK= 000]
04194 R0881C00020-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04195 CONTINUOUS STANDBY 5.0 01:1NF-W4 10.03 .448 1984.0812.7:00 388.99 673 .000
04196 [XMP= 66:71MP= 76]
04197 [LOGS= 2 :CN= 100.0]
04198 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04199 [Impervious area: IArea= 1.57:SLFP= .50:LG= 259.0MN= .013:SCI= .0]
04200 [IARClcimp= 1.50; IARECpepe= 6.00]
04201 [SMIN= 1.39; SMAX= 9.24; SK= 000]
04202 R0881C00021-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04203 CONTINUOUS STANDBY 5.0 01:1NF-W4 10.11 .441 1984.0812.7:00 297.26 647 .000
04204 [XMP= 60:71MP= 70]
04205 [LOGS= 2 :CN= 100.0]
04206 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04207 [Impervious area: IArea= 1.57:SLFP= .50:LG= 260.0MN= .013:SCI= .0]
04208 [IARClcimp= 1.50; IARECpepe= 6.00]
04209 [SMIN= 1.39; SMAX= 9.24; SK= 000]
04210 R0881C00022-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04211 CONTINUOUS STANDBY 5.0 01:1NF-W6 6.20 .270 1984.0812.7:00 291.44 634 .000
04212 [XMP= 57:71MP= 66]
04213 [LOGS= 2 :CN= 100.0]
04214 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04215 [Impervious area: IArea= 1.57:SLFP= .50:LG= 238.0MN= .013:SCI= .0]
04216 [IARClcimp= 1.50; IARECpepe= 6.00]
04217 [SMIN= 1.39; SMAX= 9.24; SK= 000]
04218 R0881C00023-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04219 CONTINUOUS STANDBY 5.0 01:1NF-W6 7.81 .358 1984.0812.7:00 318.96 694 .000
04220 [XMP= 67:71MP= 81]
04221 [LOGS= 2 :CN= 100.0]
04222 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04223 [Impervious area: IArea= 1.57:SLFP= .50:LG= 228.0MN= .013:SCI= .0]
04224 [IARClcimp= 1.50; IARECpepe= 6.00]
04225 [SMIN= 1.39; SMAX= 9.24; SK= 000]
04226 R0881C00024-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04227 ADD HYD 5.76 .184 1984.0812.7:00 224.78 n/a .000
04228 + 5.0 02:1NF-W2 8.51 .357 1984.0812.7:00 277.94 n/a .000
04229 + 5.0 02:1NF-W3 10.03 .448 1984.0812.7:00 308.99 n/a .000
04230 + 5.0 02:1NF-W4 10.11 .441 1984.0812.7:00 297.26 n/a .000
04231 + 5.0 02:1NF-W5 6.20 .270 1984.0812.7:00 291.44 n/a .000
04232 + 5.0 02:1NF-W6 7.81 .358 1984.0812.7:00 318.96 n/a .000
04233 SUM= 5.76 0.0182C-PH 48.42 1.217 1984.0812.7:00 298.11 n/a .000
04234 *****
04235 # CONTINUOUS RAINFALL DATA
04236 *****
04237 ** END OF RUN # 84
04238 *****
04239 *****
04240 *****
04241 *****
04242 *****
04243 *****
04244 *****
04245 RvM#;COMMAND#
04246 RvM#;COMMAND#
04247 [TERZO = .00 hrs on 19850101]
04248 [NETOUT = 2 (Imperial, 2-metric output)]
04249 [NRUN = 0085]
04250 [NRUN = 0085]
04251 *****
04252 *****
04253 # SWHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
04254 *****
04255 # Project Name: Barhaven Conservancy Development
04256 # Project Number: 1474
04257 # Date : 2/22/02/18
04258 # Modeler : J.Burnett, P.Eng.
04259 # Updated : 2/22/02/18 [IP]
04260 # Company : J.F. Sabourin and Associates
04261 # License : 2582634
04262 *****
04263 # Ottawa International Airport (1967 - 2003)
04264 R0881C00022-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04265 READ AES DATA
04266 [Filename = YOM_1967_2007_123]
04267 [Start_date = 1967-01-01; End_date = 1984-12-30]
04268 [DT= 60;min; Length= 8760;hrs; WetHrs= 354; DryHrs= 8406; PTO= 559.90]
04269 Maximum average rainfall intensities over:
04270 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04271 19.00 13.60 11.73 6.60 3.30 1.65 1.11 .89 .72 mm/hr
04272 19.00 13.60 11.73 6.60 3.30 1.65 1.11 .89 .72 mm
04273 1985016 1985016 1985016 1985016 1985016 1985016 1985016 1985016 1985016 date
04274 Number of rainfall events per following interval time
04275 108 88 84 74 69 56 49 43 32
04276 108 88 84 74 69 56 49 43 32
04277 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
04278 127 70 43 13 4 1 0 0 0
04279 *****
04280 R0881C00023-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04281 COMPUTE API
04282 [APInsk= 50.00; APfVsk= 9000; APfKsk= 9956]
04283 [APfVsk= 57.29; APfVsk= 15.86; APfVsk= .20]
04284 *****
04285 # Barhaven Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
04286 R0881C00004-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04287 CONTINUOUS STANDBY 5.0 01:1NF 5.76 .178 1985.07:14:00 274.48 490 .000
04288 [XMP= 50:71MP= 66]
04289 [LOGS= 2 :CN= 71.0]
04290 [Previous area: IArea= 4.67:SLFP= 2.00:LG= 40.0MN= 250:SCP= .0]
04291 [Impervious area: IArea= 1.57:SLFP= .50:LG= 196.0MN= .013:SCI= .0]
04292 [IARClcimp= 1.50; IARECpepe= 6.00]
04293 [SMIN= 41.38; SMAX= 275.84; SK= 030]
04294 # LID for Outlet W1 (14 catchbasins, 30 m long trench each)
04295 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
04296 # Total Volume provided by LID = 186 m^3
04297 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
04298 R0881C00019-----DtmIn-IDrHYD-----AREHAh-QFAERks-TpeakDate_hh:mm-----RvM-R.C-----DWfms
04299 ROUTE RESERVOIR -> 5.0 02:1NF 5.76 .184 1984.0812.7:00 224.78 n/a .000
04300 overflow <= 5.0 01:1NF-LID 1.27 .001 1985.02:12:00 274.49 n/a .000
04301

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042311 R0885C00008-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042312 CONTINUOUS STANDRD 5.0 0.11NF 10.03 .363 1985.0716.14:00 318.25 3.669 .000
042313 [XIMP=66:TIMP=76]
042324 [LOGS=2 :CNM=71.0]
042325 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042326 [Impervious area: IArea= 1.57:SLIP= .50:IG= 258.0:MN= .013:SCI= .0]
042327 [IARCLC= 1.50: IARECP= 6.00]
042328 [SMIN= 41.38: SMAK=275.84: SK= .030]
042329 # LID for Outlet W8 (28 catchbasins, 30 m long trench each)
042330 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042331 # Total Volume provided by LID = 193 m3
042332 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042333 R0885C00009-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042334 ROUTE RESERVOIR -> 5.0 0.02R3 10.03 .363 1985.0716.14:00 318.25 n/a .000
042335 out <= 5.0 0.01NF-LID 2.27 .001 1985.0222.12:30 293.85 n/a .000
042336 overflow <= 5.0 0.03NF-LID-Out 7.78 .359 1985.0716.14:00 318.25 n/a .000
042337 [MtdtOfsead=1190E-01 m3, TotOfVol=2470E+01 m3, N-Ov= 59, TotDUOfV= 144 hrs]
042338 R0885C00010-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042339 CONTINUOUS STANDRD 5.0 0.11NF 10.11 .336 1985.0716.14:00 293.85 3.525 .000
042340 [XIMP=60:TIMP=70]
042341 [LOGS=2 :CNM=71.0]
042342 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042343 [Impervious area: IArea= 1.57:SLIP= .50:IG= 260.0:MN= .013:SCI= .0]
042344 [IARCLC= 1.50: IARECP= 6.00]
042345 [SMIN= 41.38: SMAK=275.84: SK= .030]
042346 # LID for Outlet W6 (27 catchbasins, 30 m long trench each)
042347 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042348 # Total Volume provided by LID = 186 m3
042349 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042350 R0885C00011-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042351 ROUTE RESERVOIR -> 5.0 0.02R4 10.11 .336 1985.0716.14:00 293.85 n/a .000
042352 out <= 5.0 0.01NF-LID 2.33 .001 1985.0222.12:30 293.85 n/a .000
042353 overflow <= 5.0 0.03NF-LID-Out 7.78 .327 1985.0716.14:00 293.85 n/a .000
042354 [MtdtOfsead=1160E-01 m3, TotOfVol=2207E+01 m3, N-Ov= 74, TotDUOfV= 148 hrs]
042355 R0885C00012-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042356 CONTINUOUS STANDRD 5.0 0.11NF 6.20 .198 1985.0716.14:00 281.65 3.503 .000
042357 [XIMP=67:TIMP=67]
042358 [LOGS=2 :CNM=71.0]
042359 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042360 [Impervious area: IArea= 1.57:SLIP= .50:IG= 228.0:MN= .013:SCI= .0]
042361 [IARCLC= 1.50: IARECP= 6.00]
042362 [SMIN= 41.38: SMAK=275.84: SK= .030]
042363 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
042364 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042365 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042366 R0885C00013-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042367 ROUTE RESERVOIR -> 5.0 0.02R5 10.11 .336 1985.0716.14:00 281.65 n/a .000
042368 out <= 5.0 0.01NF-LID 1.43 .001 1985.0222.12:30 281.65 n/a .000
042369 overflow <= 5.0 0.03NF-LID-Out 4.77 .195 1985.0716.14:00 281.65 n/a .000
042370 [MtdtOfsead=1100E-01 m3, TotOfVol=1143E+01 m3, N-Ov= 85, TotDUOfV= 145 hrs]
042371 R0885C00014-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042372 CONTINUOUS STANDRD 5.0 0.11NF 7.81 .306 1985.0716.14:00 338.94 4.605 .000
042373 [XIMP=71:TIMP=81]
042374 [LOGS=2 :CNM=71.0]
042375 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042376 [Impervious area: IArea= 1.57:SLIP= .50:IG= 228.0:MN= .013:SCI= .0]
042377 [IARCLC= 1.50: IARECP= 6.00]
042378 [SMIN= 41.38: SMAK=275.84: SK= .030]
042379 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
042380 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
042381 # Total Volume provided by LID = 181 m3
042382 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
042383 R0885C00015-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042384 ROUTE RESERVOIR -> 5.0 0.02R6 8.51 .240 1985.0716.14:00 253.27 n/a .000
042385 out <= 5.0 0.01NF-LID 1.80 .001 1985.0222.12:30 253.27 n/a .000
042386 overflow <= 5.0 0.03NF-LID-Out 4.77 .195 1985.0716.14:00 253.27 n/a .000
042387 [MtdtOfsead=1649E-01 m3, TotOfVol=2038E+01 m3, N-Ov= 82, TotDUOfV= 145 hrs]
042388 R0885C00016-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042389 ADD HYD + 5.0 0.02R2 8.51 .240 1985.0716.14:00 253.27 n/a .000
042390 + 5.0 0.02R3 10.03 .363 1985.0716.14:00 318.25 n/a .000
042391 + 5.0 0.02R4 10.11 .336 1985.0716.14:00 293.85 n/a .000
042392 + 5.0 0.02R5 6.20 .198 1985.0716.14:00 281.65 n/a .000
042393 + 5.0 0.02R6 7.81 .306 1985.0716.14:00 338.94 n/a .000
042394 + 5.0 0.02R7 8.51 .240 1985.0716.14:00 253.27 n/a .000
042395 + 5.0 0.02R8 10.03 .363 1985.0716.14:00 318.25 n/a .000
042396 + 5.0 0.02R9 10.11 .336 1985.0716.14:00 293.85 n/a .000
042397 + 5.0 0.02R10 6.20 .198 1985.0716.14:00 281.65 n/a .000
042398 + 5.0 0.02R11 7.81 .306 1985.0716.14:00 338.94 n/a .000
042399 + 5.0 0.02R12 8.51 .240 1985.0716.14:00 253.27 n/a .000
042400 + 5.0 0.02R13 10.03 .363 1985.0716.14:00 318.25 n/a .000
042401 + 5.0 0.02R14 10.11 .336 1985.0716.14:00 293.85 n/a .000
042402 + 5.0 0.02R15 6.20 .198 1985.0716.14:00 281.65 n/a .000
042403 + 5.0 0.02R16 7.81 .306 1985.0716.14:00 338.94 n/a .000
042404 + 5.0 0.02R17 8.51 .240 1985.0716.14:00 253.27 n/a .000
042405 + 5.0 0.02R18 10.03 .363 1985.0716.14:00 318.25 n/a .000
042406 + 5.0 0.02R19 10.11 .336 1985.0716.14:00 293.85 n/a .000
042407 + 5.0 0.02R20 6.20 .198 1985.0716.14:00 281.65 n/a .000
042408 # Set infiltration to 0 (CN = 99.99) for water balance analysis
042409 *****
042410 R0885C00018-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042411 CONTINUOUS STANDRD 5.0 0.11NF-W1 5.76 .254 1985.0716.14:00 361.80 4.646 .000
042412 [XIMP=58:TIMP=66]
042413 [LOGS=2 :CNM=100.0]
042414 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042415 [Impervious area: IArea= 1.57:SLIP= .50:IG= 196.0:MN= .013:SCI= .0]
042416 [IARCLC= 1.50: IARECP= 6.00]
042417 [SMIN= 41.38: SMAK=275.84: SK= .030]
042418 R0885C00019-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042419 CONTINUOUS STANDRD 5.0 0.11NF-W2 8.51 .350 1985.0716.14:00 347.74 4.621 .000
042420 [XIMP=50:TIMP=60]
042421 [LOGS=2 :CNM=100.0]
042422 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042423 [Impervious area: IArea= 1.57:SLIP= .50:IG= 238.0:MN= .013:SCI= .0]
042424 [IARCLC= 1.50: IARECP= 6.00]
042425 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042426 R0885C00020-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042427 CONTINUOUS STANDRD 5.0 0.11NF-W3 10.03 .456 1985.0716.14:00 386.27 4.690 .000
042428 [XIMP=66:TIMP=76]
042429 [LOGS=2 :CNM=100.0]
042430 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042431 [Impervious area: IArea= 1.57:SLIP= .50:IG= 258.0:MN= .013:SCI= .0]
042432 [IARCLC= 1.50: IARECP= 6.00]
042433 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042434 R0885C00021-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042435 CONTINUOUS STANDRD 5.0 0.11NF-W4 10.11 .442 1985.0716.14:00 371.72 4.664 .000
042436 [XIMP=60:TIMP=70]
042437 [LOGS=2 :CNM=100.0]
042438 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042439 [Impervious area: IArea= 1.57:SLIP= .50:IG= 260.0:MN= .013:SCI= .0]
042440 [IARCLC= 1.50: IARECP= 6.00]
042441 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042442 R0885C00022-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042443 CONTINUOUS STANDRD 5.0 0.11NF-W5 6.20 .274 1985.0716.14:00 364.50 4.651 .000
042444 [XIMP=57:TIMP=67]
042445 [LOGS=2 :CNM=100.0]
042446 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042447 [Impervious area: IArea= 1.57:SLIP= .50:IG= 203.0:MN= .013:SCI= .0]
042448 [IARCLC= 1.50: IARECP= 6.00]
042449 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042450 R0885C00023-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042451 CONTINUOUS STANDRD 5.0 0.11NF-W6 7.81 .372 1985.0716.14:00 398.56 4.712 .000
042452 [XIMP=61:TIMP=71]
042453 [LOGS=2 :CNM=100.0]
042454 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042455 [Impervious area: IArea= 1.57:SLIP= .50:IG= 228.0:MN= .013:SCI= .0]
042456 [IARCLC= 1.50: IARECP= 6.00]
042457 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042458 R0885C00024-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042459 ADD HYD + 5.0 0.02NF-W1 5.76 .254 1985.0716.14:00 361.80 n/a .000
042460 + 5.0 0.02NF-W2 8.51 .350 1985.0716.14:00 347.74 n/a .000
042461 + 5.0 0.02NF-W3 10.03 .456 1985.0716.14:00 386.27 n/a .000
042462 + 5.0 0.02NF-W4 10.11 .442 1985.0716.14:00 371.72 n/a .000
042463 + 5.0 0.02NF-W5 6.20 .274 1985.0716.14:00 364.50 n/a .000
042464 + 5.0 0.02NF-W6 7.81 .372 1985.0716.14:00 398.56 n/a .000
042465 + 5.0 0.02NF-W7 8.51 .350 1985.0716.14:00 347.74 n/a .000
042466 *****
042467 *****
042468 *****
042469 *****
042470 *****
042471 *****
042472 *****
042473 *****
042474 *****
042475 *****
042476 *****
042477 RIN:CSMANS
042478 R0886C00001
042479 START
042480 ITERS= 00 hrs on 19860101
042481 [MOUT= 2 (1 imperial, 2 metric output)]
042482 [NITORS= 0]
042483 [NUN= .008]
042484 *****
042485 # SMMYND Ver: 02/Jan 2001 <BETA> / INPUT DATA FILE
042486 *****
042487 *****
042488 # Project Name: 2021/Oct/16
042489 # Date: 2021/Oct/16
042490 # Modeler: J. B. Burrell, P. Eng.
042491 # Updated: 2024/Mar/14 [P]
042492 # Company: J. B. Burrell & Associates
042493 # License #: 2382634
042494 *****
042495 # Ottawa International Airport (1967 - 2003)
042496 R0886C00002-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042497 CONTINUOUS STANDRD 5.0 0.11NF-W4 10.11 .495 1986.0729.15:00 364.94 6.653 .000
042498 [XIMP=60:TIMP=70]
042499 [LOGS=2 :CNM=100.0]
042500 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042501 [Impervious area: IArea= 1.57:SLIP= .50:IG= 260.0:MN= .013:SCI= .0]
042502 [IARCLC= 1.50: IARECP= 6.00]
042503 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042504 R0886C00003-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042505 CONTINUOUS STANDRD 5.0 0.11NF-W5 6.20 .274 1986.0729.15:00 354.85 4.633 .000
042506 [XIMP=57:TIMP=67]
042507 [LOGS=2 :CNM=100.0]
042508 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042509 [Impervious area: IArea= 1.57:SLIP= .50:IG= 203.0:MN= .013:SCI= .0]
042510 [IARCLC= 1.50: IARECP= 6.00]
042511 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042512 R0886C00004-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042513 CONTINUOUS STANDRD 5.0 0.11NF-W6 7.81 .372 1986.0729.15:00 398.29 4.689 .000
042514 [XIMP=61:TIMP=71]
042515 [LOGS=2 :CNM=100.0]
042516 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042517 [Impervious area: IArea= 1.57:SLIP= .50:IG= 228.0:MN= .013:SCI= .0]
042518 [IARCLC= 1.50: IARECP= 6.00]
042519 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042520 R0886C00005-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042521 CONTINUOUS STANDRD 5.0 0.11NF-W7 8.51 .350 1986.0729.15:00 347.74 4.621 .000
042522 [XIMP=50:TIMP=60]
042523 [LOGS=2 :CNM=100.0]
042524 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042525 [Impervious area: IArea= 1.57:SLIP= .50:IG= 238.0:MN= .013:SCI= .0]
042526 [IARCLC= 1.50: IARECP= 6.00]
042527 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042528 R0886C00006-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042529 CONTINUOUS STANDRD 5.0 0.11NF-W8 10.03 .456 1986.0729.15:00 386.27 4.690 .000
042530 [XIMP=66:TIMP=76]
042531 [LOGS=2 :CNM=100.0]
042532 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042533 [Impervious area: IArea= 1.57:SLIP= .50:IG= 258.0:MN= .013:SCI= .0]
042534 [IARCLC= 1.50: IARECP= 6.00]
042535 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042536 R0886C00007-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042537 CONTINUOUS STANDRD 5.0 0.11NF-W9 10.11 .442 1986.0729.15:00 371.72 4.664 .000
042538 [XIMP=60:TIMP=70]
042539 [LOGS=2 :CNM=100.0]
042540 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042541 [Impervious area: IArea= 1.57:SLIP= .50:IG= 260.0:MN= .013:SCI= .0]
042542 [IARCLC= 1.50: IARECP= 6.00]
042543 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042544 R0886C00008-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042545 CONTINUOUS STANDRD 5.0 0.11NF-W10 6.20 .274 1986.0729.15:00 364.50 4.651 .000
042546 [XIMP=57:TIMP=67]
042547 [LOGS=2 :CNM=100.0]
042548 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042549 [Impervious area: IArea= 1.57:SLIP= .50:IG= 203.0:MN= .013:SCI= .0]
042550 [IARCLC= 1.50: IARECP= 6.00]
042551 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042552 R0886C00009-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042553 CONTINUOUS STANDRD 5.0 0.11NF-W11 7.81 .372 1986.0729.15:00 398.29 4.689 .000
042554 [XIMP=61:TIMP=71]
042555 [LOGS=2 :CNM=100.0]
042556 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042557 [Impervious area: IArea= 1.57:SLIP= .50:IG= 228.0:MN= .013:SCI= .0]
042558 [IARCLC= 1.50: IARECP= 6.00]
042559 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042560 R0886C00010-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042561 CONTINUOUS STANDRD 5.0 0.11NF-W12 8.51 .350 1986.0729.15:00 347.74 4.621 .000
042562 [XIMP=50:TIMP=60]
042563 [LOGS=2 :CNM=100.0]
042564 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042565 [Impervious area: IArea= 1.57:SLIP= .50:IG= 238.0:MN= .013:SCI= .0]
042566 [IARCLC= 1.50: IARECP= 6.00]
042567 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042568 R0886C00011-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042569 CONTINUOUS STANDRD 5.0 0.11NF-W13 10.03 .456 1986.0729.15:00 386.27 4.690 .000
042570 [XIMP=66:TIMP=76]
042571 [LOGS=2 :CNM=100.0]
042572 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042573 [Impervious area: IArea= 1.57:SLIP= .50:IG= 258.0:MN= .013:SCI= .0]
042574 [IARCLC= 1.50: IARECP= 6.00]
042575 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042576 R0886C00012-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042577 CONTINUOUS STANDRD 5.0 0.11NF-W14 10.11 .442 1986.0729.15:00 371.72 4.664 .000
042578 [XIMP=60:TIMP=70]
042579 [LOGS=2 :CNM=100.0]
042580 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042581 [Impervious area: IArea= 1.57:SLIP= .50:IG= 260.0:MN= .013:SCI= .0]
042582 [IARCLC= 1.50: IARECP= 6.00]
042583 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042584 R0886C00013-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042585 CONTINUOUS STANDRD 5.0 0.11NF-W15 6.20 .274 1986.0729.15:00 364.50 4.651 .000
042586 [XIMP=57:TIMP=67]
042587 [LOGS=2 :CNM=100.0]
042588 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042589 [Impervious area: IArea= 1.57:SLIP= .50:IG= 203.0:MN= .013:SCI= .0]
042590 [IARCLC= 1.50: IARECP= 6.00]
042591 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042592 R0886C00014-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042593 CONTINUOUS STANDRD 5.0 0.11NF-W16 7.81 .372 1986.0729.15:00 398.29 4.689 .000
042594 [XIMP=61:TIMP=71]
042595 [LOGS=2 :CNM=100.0]
042596 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042597 [Impervious area: IArea= 1.57:SLIP= .50:IG= 228.0:MN= .013:SCI= .0]
042598 [IARCLC= 1.50: IARECP= 6.00]
042599 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042600 R0886C00015-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042601 CONTINUOUS STANDRD 5.0 0.11NF-W17 8.51 .350 1986.0729.15:00 347.74 4.621 .000
042602 [XIMP=50:TIMP=60]
042603 [LOGS=2 :CNM=100.0]
042604 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042605 [Impervious area: IArea= 1.57:SLIP= .50:IG= 238.0:MN= .013:SCI= .0]
042606 [IARCLC= 1.50: IARECP= 6.00]
042607 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042608 R0886C00016-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042609 CONTINUOUS STANDRD 5.0 0.11NF-W18 10.03 .456 1986.0729.15:00 386.27 4.690 .000
042610 [XIMP=66:TIMP=76]
042611 [LOGS=2 :CNM=100.0]
042612 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042613 [Impervious area: IArea= 1.57:SLIP= .50:IG= 258.0:MN= .013:SCI= .0]
042614 [IARCLC= 1.50: IARECP= 6.00]
042615 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042616 R0886C00017-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042617 CONTINUOUS STANDRD 5.0 0.11NF-W19 10.11 .442 1986.0729.15:00 371.72 4.664 .000
042618 [XIMP=60:TIMP=70]
042619 [LOGS=2 :CNM=100.0]
042620 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042621 [Impervious area: IArea= 1.57:SLIP= .50:IG= 260.0:MN= .013:SCI= .0]
042622 [IARCLC= 1.50: IARECP= 6.00]
042623 [SMIN= 1.39: SMAK= 9.24: SK= .000]
042624 R0886C00018-----DRAIN-ID:HWY-----AREHA-GFEARMS-TpeaDate_hh:mm-----RvM-R-C-----DWFOCS
042625 CONTINUOUS STANDRD 5.0 0.11NF-W20 6.20 .274 1986.0729.15:00 364.50 4.651 .000
042626 [XIMP=57:TIMP=67]
042627 [LOGS=2 :CNM=100.0]
042628 [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0:MP=250:SCP= .0]
042629 [Impervious area: IArea= 1.57:SLIP= .50:IG= 203.
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05041 [SMIN: 41.38; SMAx:275.84; SK= .030]
05042 # LID for Outlet W4 (67 catchbasins, 30 m long trench each)
05043 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05044 # Total Volume provided by LID = 186 m³
05045 # Soil infiltration rates assumed at 5mm/hr with a safety factor of 2.5
05046 ROUTE RESEVOIR -> 5.0 021M6 10.11 .480 1989.0726.1300 314.93 n/a .000
05047 overflow out = 5.0 01M3-LID-Out 7.34 .471 1989.0726.1300 314.93 n/a .000
05048 (MstOfUse=1480E-01 m3, TotOfVol=2313E+01 m3, N-OfV= 124, TotDurOfV= 163.hrs)
05049 [IARcImp: 1.50; IARcCp: 6.00]
05050 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 203;MNI: 013;SIC: .0]
05051 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05052 CONTINUOUS STANDBY 5.0 01INF-W4 6.20 .285 1989.0726.1300 302.40 470 .000
05053 [XIMP: 57;TIMP: 67]
05054 [LGS: 2 ICM: 71.0]
05055 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05056 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 203;MNI: 013;SIC: .0]
05057 [IARcImp: 1.50; IARcCp: 6.00]
05058 [SMIN: 41.38; SMAx:275.84; SK= .030]
05059 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
05060 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05061 # Total Volume provided by LID = 110 m³
05062 # Soil infiltration rates assumed at 5mm/hr with a safety factor of 2.5
05063 ROUTE RESEVOIR -> 5.0 021M6 6.20 .285 1989.0726.1300 302.40 n/a .000
05064 overflow out = 5.0 01M3-LID-Out 4.50 .279 1989.0726.1300 302.40 n/a .000
05065 (MstOfUse=1098E-01 m3, TotOfVol=1362E+01 m3, N-OfV= 122, TotDurOfV= 159.hrs)
05066 [IARcImp: 1.50; IARcCp: 6.00]
05067 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05068 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05069 CONTINUOUS STANDBY 5.0 01INF-W5 7.81 .426 1989.0726.1300 361.38 561 .000
05070 [XIMP: 71;TIMP: 81]
05071 [LGS: 2 ICM: 71.0]
05072 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05073 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 228;MNI: 013;SIC: .0]
05074 [IARcImp: 1.50; IARcCp: 6.00]
05075 [SMIN: 41.38; SMAx:275.84; SK= .030]
05076 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
05077 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05078 # Total Volume provided by LID = 165 m³
05079 # Soil infiltration rates assumed at 5mm/hr with a safety factor of 2.5
05080 ROUTE RESEVOIR -> 5.0 021M6 7.81 .426 1989.0726.1300 361.38 n/a .000
05081 overflow out = 5.0 01M3-LID-Out 5.66 .419 1989.0726.1300 361.38 n/a .000
05082 (MstOfUse=1147E-01 m3, TotOfVol=2045E+01 m3, N-OfV= 127, TotDurOfV= 162.hrs)
05083 [IARcImp: 1.50; IARcCp: 6.00]
05084 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05085 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05086 CONTINUOUS STANDBY 5.0 01INF-W6 8.42 .278 1989.0726.1300 314.26 484 .000
05087 [XIMP: 66;TIMP: 76]
05088 [LGS: 2 ICM: 71.0]
05089 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05090 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 240;MNI: 013;SIC: .0]
05091 [IARcImp: 1.50; IARcCp: 6.00]
05092 [SMIN: 41.38; SMAx:275.84; SK= .030]
05093 # LID for Outlet W7 (27 catchbasins, 30 m long trench each)
05094 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05095 # Total Volume provided by LID = 186 m³
05096 # Soil infiltration rates assumed at 5mm/hr with a safety factor of 2.5
05097 ROUTE RESEVOIR -> 5.0 021M6 10.11 .429 1989.0727.1500 250.63 n/a .000
05098 overflow out = 5.0 01M3-LID-Out 7.28 .422 1989.0727.1500 250.63 n/a .000
05099 (MstOfUse=1480E-01 m3, TotOfVol=2313E+01 m3, N-OfV= 91, TotDurOfV= 162.hrs)
05100 [IARcImp: 1.50; IARcCp: 6.00]
05101 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05102 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05103 CONTINUOUS STANDBY 5.0 01INF-W7 5.76 .358 1989.0917.1900 373.38 590 .000
05104 [XIMP: 55;TIMP: 66]
05105 [LGS: 2 ICM: 100.0]
05106 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05107 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 196;MNI: 013;SIC: .0]
05108 [IARcImp: 1.50; IARcCp: 6.00]
05109 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05110 CONTINUOUS STANDBY 5.0 01INF-W8 5.76 .358 1989.0917.1900 373.38 590 .000
05111 [XIMP: 50;TIMP: 60]
05112 [LGS: 2 ICM: 100.0]
05113 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05114 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 238;MNI: 013;SIC: .0]
05115 [IARcImp: 1.50; IARcCp: 6.00]
05116 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05117 CONTINUOUS STANDBY 5.0 01INF-W9 10.03 .643 1989.0917.1900 401.25 623 .000
05118 [XIMP: 66;TIMP: 76]
05119 [LGS: 2 ICM: 100.0]
05120 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05121 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 259;MNI: 013;SIC: .0]
05122 [IARcImp: 1.50; IARcCp: 6.00]
05123 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05124 CONTINUOUS STANDBY 5.0 01INF-W10 10.11 .632 1989.0917.1900 384.68 598 .000
05125 [XIMP: 67;TIMP: 77]
05126 [LGS: 2 ICM: 100.0]
05127 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05128 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 263;MNI: 013;SIC: .0]
05129 [IARcImp: 1.50; IARcCp: 6.00]
05130 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05131 CONTINUOUS STANDBY 5.0 01INF-W11 10.11 .632 1989.0917.1900 384.68 598 .000
05132 [XIMP: 67;TIMP: 77]
05133 [LGS: 2 ICM: 100.0]
05134 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05135 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 263;MNI: 013;SIC: .0]
05136 [IARcImp: 1.50; IARcCp: 6.00]
05137 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05138 CONTINUOUS STANDBY 5.0 01INF-W12 6.20 .386 1989.0917.1900 376.49 585 .000
05139 [XIMP: 47;TIMP: 47]
05140 [LGS: 2 ICM: 100.0]
05141 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05142 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 203;MNI: 013;SIC: .0]
05143 [IARcImp: 1.50; IARcCp: 6.00]
05144 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05145 CONTINUOUS STANDBY 5.0 01INF-W13 7.81 .514 1989.0917.1900 415.36 645 .000
05146 [XIMP: 71;TIMP: 81]
05147 [LGS: 2 ICM: 100.0]
05148 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05149 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 228;MNI: 013;SIC: .0]
05150 [IARcImp: 1.50; IARcCp: 6.00]
05151 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05152 CONTINUOUS STANDBY 5.0 01INF-W14 6.20 .386 1989.0917.1900 376.49 585 .000
05153 [XIMP: 47;TIMP: 47]
05154 [LGS: 2 ICM: 100.0]
05155 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05156 [Impervious area: IAPar: 1.57;SIFP: 5.0;LGI: 263;MNI: 013;SIC: .0]
05157 [IARcImp: 1.50; IARcCp: 6.00]
05158 [SMIN: 1.39; SMAx: 9.24; SK= .000]
05159 CONTINUOUS STANDBY 5.0 01INF-W15 6.20 .386 1989.0917.1900 376.49 585 .000
05160 [XIMP: 47;TIMP: 47]
05161 [LGS: 2 ICM: 100.0]
05162 [Impervious area: IAPar: 4.67;SIFP:2.00;LGP: 40;MNP: 250;SCP: .0]
05163 # CONTINUOUS RAINFALL DATA
05164 ***** END OF RUN *****
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050401 [LGS2 2 C&N=100]
050402 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050403 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 238.0MN=.013:SCI= .0]
050404 [IAREClamp= 1.50: IARECPer= 6.00]
050405 [SMIN= 1.39: SMA= 9.24: SK= .000]
050406 R0909C0002-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050407 [XIMP=66:TIMP=76]
050408 [LGS2 2 C&N=100]
050409 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050410 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 238.0MN=.013:SCI= .0]
050411 [IAREClamp= 1.50: IARECPer= 6.00]
050412 [SMIN= 1.39: SMA= 9.24: SK= .000]
050413 # SMHYMO Ver:02/Jan 2001 <BETA> / INPUT DATA FILE
050414 # *****
050415 # Project Name: Barhaves Conservancy Development
050416 # Project Number: 1474
050417 # Date : 2/02/2024
050418 # Modeler : J.Burnett, P.Eng.
050419 # Updated : 2/02/Mar/14 [EP]
050420 # Company : J.F. Burdick and Associates
050421 # License # : 2282634
050422 # *****
050423 # Ottawa International Airport (1967 - 2003)
050424 R0909C0002-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050425 # READ AREA DATA
050426 [Filename = YOM_1967_2007_123
050427 [Start_date= 1990.0101; End_Date= 1990.1231]
050428 [DTr= 60;min: Length= 7344; hrs: WetHrs= 678; DryHrs= 727;80]
050429 # Maximum average rainfall intensities over
050430 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
050431 20.60 12.25 9.60 5.58 4.43 2.25 1.50 1.23 1.06 mm/hr
050432 20.40 12.50 9.80 5.70 4.50 2.30 1.60 1.30 1.10
050433 19900720 19900828 19900828 19900720 19900720 19900720 19900723 date
050434 # Number of rainfall events per following interevent time
050435 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
050436 204 156 141 107 84 66 56 47 33
050437 # Number of events with at least the following durations
050438 1 hr 2 hrs 3 hrs 6 hrs 12 hrs 24 hrs 36 hrs 48 hrs 72 hrs
050439 203 116 75 31 6 1 0 0 0
050440 R0909C0003-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050441 # COMPUTE API
050442 [AFIn=50:00: AFIdky= 9000: AFIDat= 9956]
050443 [AFIn= 75:10: AFIDat= 23:47: AFIDat= 3:10]
050444 # *****
050445 # Barhaves Conservancy Development Phase 3 (WITH INFILTRATION) - POST DEVELOPMENT CONDITIONS
050446 # *****
050447 R0909C0004-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050448 # CONTINUOUS STANDBY 5.0 0.01M1 5.76 .205 1990.0720.5:00 343.46 1472 .000
050449 [XIMP=55:TIMP=66]
050450 [LGS2 2 C&N=71.0]
050451 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050452 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 196.0MN=.013:SCI= .0]
050453 [IAREClamp= 1.50: IARECPer= 6.00]
050454 [SMIN= 41.38: SMA=275.84: SK= .030]
050455 # LID for Outlet W5 (14 catchbasins, 30 m long trench each)
050456 # Assumed 420 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050457 # Total Volume provided by LID = 96 m³
050458 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050459 R0909C0005-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050460 # ROUTE RESERVOIR -> 5.0 0.02M3 10.03 .401 1990.0720.5:00 343.46 n/a .000
050461 out <= 5.0 01M1-LID 1.38 .001 1990.0312.17:15 343.46 n/a .000
050462 overlow <= 5.0 03M3-LID-Out 7.53 .405 1990.0720.5:00 343.46 n/a .000
050463 [MstOfsed=.960E-02 m3, TotDurVol=.1506E+01 m3, N-Ovr= 133, TotDurOvr= 230.hrs]
050464 R0909C0006-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050465 # CONTINUOUS STANDBY 5.0 0.01M1 4.51 .479 1990.0720.5:00 318.93 438 .000
050466 [XIMP=50:TIMP=60]
050467 [LGS2 2 C&N=71.0]
050468 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050469 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 238.0MN=.013:SCI= .0]
050470 [IAREClamp= 1.50: IARECPer= 6.00]
050471 [SMIN= 41.38: SMA=275.84: SK= .030]
050472 # LID for Outlet W6 (19 catchbasins, 30 m long trench each)
050473 # Assumed 570 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050474 # Total Volume provided by LID = 131 m³
050475 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050476 R0909C0007-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050477 # ROUTE RESERVOIR -> 5.0 0.02M3 10.03 .401 1990.0720.5:00 318.94 n/a .000
050478 out <= 5.0 01M1-LID 2.04 .001 1990.0312.17:20 318.94 n/a .000
050479 overlow <= 5.0 03M3-LID-Out 6.47 .273 1990.0720.5:00 318.93 n/a .000
050480 [MstOfsed=.960E-02 m3, TotDurVol=.2063E+01 m3, N-Ovr= 116, TotDurOvr= 226.hrs]
050481 R0909C0008-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050482 # CONTINUOUS STANDBY 5.0 0.01M1 10.03 .401 1990.0720.5:00 393.94 1541 .000
050483 [XIMP=66:TIMP=76]
050484 [LGS2 2 C&N=71.0]
050485 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050486 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 258.0MN=.013:SCI= .0]
050487 [IAREClamp= 1.50: IARECPer= 6.00]
050488 [SMIN= 41.38: SMA=275.84: SK= .030]
050489 # LID for Outlet W8 (28 catchbasins, 30 m long trench each)
050490 # Assumed 840 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050491 # Total Volume provided by LID = 193 m³
050492 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050493 R0909C0009-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050494 # ROUTE RESERVOIR -> 5.0 0.02M3 10.03 .401 1990.0720.5:00 393.94 n/a .000
050495 out <= 5.0 01M1-LID 2.50 .001 1990.0312.17:15 393.93 n/a .000
050496 overlow <= 5.0 03M3-LID-Out 7.53 .405 1990.0720.5:00 393.94 n/a .000
050497 [MstOfsed=.960E-02 m3, TotDurVol=.2965E+01 m3, N-Ovr= 125, TotDurOvr= 223.hrs]
050498 R0909C0010-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050499 # CONTINUOUS STANDBY 5.0 0.01M1 10.11 .383 1990.0720.5:00 365.69 1502 .000
050500 [XIMP=60:TIMP=70]
050501 [LGS2 2 C&N=71.0]
050502 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050503 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 260.0MN=.013:SCI= .0]
050504 [IAREClamp= 1.50: IARECPer= 6.00]
050505 [SMIN= 41.38: SMA=275.84: SK= .030]
050506 # LID for Outlet W9 (27 catchbasins, 30 m long trench each)
050507 # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050508 # Total Volume provided by LID = 186 m³
050509 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050510 R0909C0011-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050511 # ROUTE RESERVOIR -> 5.0 0.02M3 10.11 .383 1990.0720.5:00 365.69 n/a .000
050512 out <= 5.0 01M1-LID 2.50 .001 1990.0312.17:20 365.73 n/a .000
050513 overlow <= 5.0 03M3-LID-Out 7.57 .377 1990.0720.5:00 365.69 n/a .000
050514 [MstOfsed=.960E-02 m3, TotDurVol=.2768E+01 m3, N-Ovr= 122, TotDurOvr= 228.hrs]
050515 R0909C0012-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050516 # CONTINUOUS STANDBY 5.0 0.01M1 10.11 .383 1990.0720.5:00 351.63 1483 .000
050517 [XIMP=60:TIMP=70]
050518 [LGS2 2 C&N=71.0]
050519 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050520 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 203.0MN=.013:SCI= .0]
050521 [IAREClamp= 1.50: IARECPer= 6.00]
050522 [SMIN= 38.38: SMA=275.84: SK= .030]
050523 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
050524 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050525 # Total Volume provided by LID = 185 m³
050526 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050527 R0909C0013-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050528 # ROUTE RESERVOIR -> 5.0 0.02M3 10.11 .383 1990.0720.5:00 351.63 n/a .000
050529 out <= 5.0 01M1-LID 1.56 .001 1990.0312.17:20 351.62 n/a .000
050530 overlow <= 5.0 03M3-LID-Out 6.44 .222 1990.0720.5:00 351.63 n/a .000
050531 [MstOfsed=.1100E-01 m3, TotDurVol=.1632E+01 m3, N-Ovr= 115, TotDurOvr= 225.hrs]
050532 R0909C0014-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050533 # CONTINUOUS STANDBY 5.0 0.01M1 7.81 .341 1990.0720.5:00 417.73 1574 .000
050534 [XIMP=71:TIMP=81]
050535 [LGS2 2 C&N=71.0]
050536 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050537 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 228.0MN=.013:SCI= .0]
050538 [IAREClamp= 1.50: IARECPer= 6.00]
050539 [SMIN= 41.38: SMA=275.84: SK= .030]
050540 # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
050541 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050542 # Total Volume provided by LID = 145 m³
050543 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050544 R0909C0015-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050545 # ROUTE RESERVOIR -> 5.0 0.02M3 10.11 .341 1990.0720.5:00 417.73 n/a .000
050546 out <= 5.0 01M1-LID 1.99 .001 1990.0312.17:15 417.73 n/a .000
050547 overlow <= 5.0 03M3-LID-Out 5.82 .237 1990.0720.5:00 417.73 n/a .000
050548 [MstOfsed=.1650E-01 m3, TotDurVol=.2433E+01 m3, N-Ovr= 120, TotDurOvr= 227.hrs]
050549 R0909C0016-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050550 # ADD HYD + 5.0 0.02M2 8.51 .279 1990.0720.5:00 318.93 n/a .000
050551 + 5.0 0.02M2 10.03 .401 1990.0720.5:00 393.94 n/a .000
050552 + 5.0 0.02M3 10.11 .383 1990.0720.5:00 365.69 n/a .000
050553 + 5.0 0.02M4 6.20 .226 1990.0720.5:00 351.63 n/a .000
050554 + 5.0 0.02M5 7.81 .341 1990.0720.5:00 417.73 n/a .000
050555 + 5.0 0.02M6 10.11 .383 1990.0720.5:00 365.69 n/a .000
050556 + 5.0 0.02M7 6.20 .226 1990.0720.5:00 351.63 n/a .000
050557 + 5.0 0.02M8 7.81 .341 1990.0720.5:00 417.73 n/a .000
050558 + 5.0 0.02M9 10.11 .383 1990.0720.5:00 365.69 n/a .000
050559 + 5.0 0.02M10-LID-Out 4.38 .202 1990.0720.5:00 343.46 n/a .000
050560 + 5.0 0.02M11-LID-Out 6.47 .273 1990.0720.5:00 318.93 n/a .000
050561 + 5.0 0.02M12-LID-Out 7.53 .405 1990.0720.5:00 393.94 n/a .000
050562 + 5.0 0.02M13-LID-Out 7.57 .377 1990.0720.5:00 365.69 n/a .000
050563 + 5.0 0.02M14-LID-Out 5.82 .237 1990.0720.5:00 417.73 n/a .000
050564 + 5.0 0.02M15-LID-Out 5.82 .237 1990.0720.5:00 417.73 n/a .000
050565 + 5.0 0.02M16-PH3-LID 36.41 .1816 1990.0720.5:00 367.30 n/a .000
050566 # *****
050567 # Barhaves Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
050568 # *****
050569 # Set infiltration to 0 (CN = 99.99) for water balance analysis
050570 R0909C0018-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050571 # CONTINUOUS STANDBY 5.0 0.01M1M1 5.76 .299 1990.0720.5:00 434.49 1597 .000
050572 [XIMP=55:TIMP=66]
050573 [LGS2 2 C&N=100.0]
050574 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050575 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 203.0MN=.013:SCI= .0]
050576 [IAREClamp= 1.50: IARECPer= 6.00]
050577 [SMIN= 41.38: SMA=275.84: SK= .030]
050578 # LID for Outlet W5 (16 catchbasins, 30 m long trench each)
050579 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050580 # Total Volume provided by LID = 131 m³
050581 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050582 R0909C0019-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050583 # ROUTE RESERVOIR -> 5.0 0.02M3 10.11 .341 1990.0720.5:00 294.64 n/a .000
050584 out <= 5.0 01M1-LID 1.99 .001 1990.0312.17:15 294.64 n/a .000
050585 overlow <= 5.0 03M3-LID-Out 6.92 .227 1990.0720.5:00 294.64 n/a .000
050586 [MstOfsed=.180E-01 m3, TotDurVol=.2048E+01 m3, N-Ovr= 109, TotDurOvr= 189.hrs]
050587 R0909C0020-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050588 # CONTINUOUS STANDBY 5.0 0.01M1 10.11 .220 1990.0410.3:00 269.85 485 .000
050589 [XIMP=60:TIMP=70]
050590 [LGS2 2 C&N=71.0]
050591 [Previous area: IArea= 4.67:SLFP=2.00:LGP= 40.0MN=250:SCP= .0]
050592 [Impervious area: IArea= 1.57:SLFP= .50:LGI= 196.0MN=.013:SCI= .0]
050593 [IAREClamp= 1.50: IARECPer= 6.00]
050594 [SMIN= 41.38: SMA=275.84: SK= .030]
050595 # LID for Outlet W4 (15 catchbasins, 30 m long trench each)
050596 # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
050597 # Total Volume provided by LID = 186 m³
050598 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
050599 R0909C0021-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050600 # ROUTE RESERVOIR -> 5.0 0.02M3 10.03 .401 1990.0720.5:00 393.94 n/a .000
050601 out <= 5.0 01M1-LID 1.38 .001 1990.0312.17:15 393.93 n/a .000
050602 overlow <= 5.0 03M3-LID-Out 7.53 .405 1990.0720.5:00 393.94 n/a .000
050603 [MstOfsed=.960E-02 m3, TotDurVol=.1506E+01 m3, N-Ovr= 133, TotDurOvr= 230.hrs]
050604 R0909C0022-----Dtain-ID:INVD-----AREAA-GFEARms-TpeakData_hhm-----Rvm-R.C-----DWFms
050605 # CONTINUOUS STANDBY 5.0 0.01M1M2 8.51 .424 1990.0720.5:00 417.09 1573 .000
050606 [XIMP=50:TIMP=60]
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05761 over <= 5.0 01:INF-LID 1.95 .001 1991.0302.645 288.64 n/a .000
05762 over <= 5.0 02:INF-LID 1.95 .001 1991.0302.645 288.64 n/a .000
05763 (MstOfsed=1100E-01 m3, TotOfVol=1100E+01 m3, N-OfV= 113, TotDurOfV= 185 hrs)
05764 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05765 [XIMP=71:TMP=81]
05766 [LOS2=2:CNM=71.0]
05767 [LOGS2=2:CNM=71.0]
05768 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05769 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05770 [IAREClmp= 1.50: IARECP= 6.00]
05771 [SMM= 1.39: SMAX= 9.24: SK= .000]
05772 # LID for Outlet #6 (14 catchbasins, 30 m long trench each)
05773 # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
05774 # Total Volume provided by LID = 165 m3
05775 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
05776 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
ROUTE RESERVOIR --> 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05777 over <= 5.0 01:INF-LID 2.45 .001 1991.0302.645 288.64 n/a .000
05778 over <= 5.0 03:INF-LID-Out 5.36 .188 1991.0410.3100 311.27 n/a .000
05779 (MstOfsed=110E-01 m3, TotOfVol=110E+01 m3, N-OfV= 108, TotDurOfV= 185 hrs)
05780 ADD HYD + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05781 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
ADD HYD + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05782 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05783 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05784 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05785 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05786 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05787 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05788 SIM= 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05789 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
ADD HYD + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05790 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05791 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05792 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05793 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05794 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05795 + 5.0 02:INF 5.76 .373 1992.0804.1400 331.08 n/a .000
05796 SIM= 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05797 [XIMP=50:TMP=60]
05798 # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) POST DEVELOPMENT CONDITIONS
05799 # Set Infiltration to (CN = 99.99) for water balance analysis
05800 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05801 [XIMP=55:TMP=66]
05802 [LOS2=2:CNM=100.0]
05803 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05804 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05805 [IAREClmp= 1.50: IARECP= 6.00]
05806 [SMM= 1.39: SMAX= 9.24: SK= .000]
05807 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05808 [XIMP=50:TMP=60]
05809 [LOGS2=2:CNM=100.0]
05810 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05811 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05812 [IAREClmp= 1.50: IARECP= 6.00]
05813 [SMM= 1.39: SMAX= 9.24: SK= .000]
05814 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05815 [XIMP=50:TMP=60]
05816 [LOGS2=2:CNM=100.0]
05817 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05818 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05819 [IAREClmp= 1.50: IARECP= 6.00]
05820 [SMM= 1.39: SMAX= 9.24: SK= .000]
05821 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05822 [XIMP=50:TMP=60]
05823 [LOGS2=2:CNM=100.0]
05824 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05825 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05826 [IAREClmp= 1.50: IARECP= 6.00]
05827 [SMM= 1.39: SMAX= 9.24: SK= .000]
05828 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05829 [XIMP=50:TMP=60]
05830 [LOGS2=2:CNM=100.0]
05831 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05832 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05833 [IAREClmp= 1.50: IARECP= 6.00]
05834 [SMM= 1.39: SMAX= 9.24: SK= .000]
05835 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05836 [XIMP=50:TMP=60]
05837 [LOGS2=2:CNM=100.0]
05838 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05839 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05840 [IAREClmp= 1.50: IARECP= 6.00]
05841 [SMM= 1.39: SMAX= 9.24: SK= .000]
05842 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05843 [XIMP=50:TMP=60]
05844 [LOGS2=2:CNM=100.0]
05845 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05846 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05847 [IAREClmp= 1.50: IARECP= 6.00]
05848 [SMM= 1.39: SMAX= 9.24: SK= .000]
05849 R091C001101-----Dtlm-ID:INHYD-----AREAh-QFEARs-TpaeDate_bhIm-----RvM-R-C-----DWfMS
CONTINUOUS STANDHYD 5.0 01:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05850 [XIMP=50:TMP=60]
05851 [LOGS2=2:CNM=100.0]
05852 [Previous area: IApex= 4.67:SLFP=2.00:LGP= 40.0:INP=250:SCP= .0]
05853 [Impervious area: IAlmp= 1.57:SLP= .50:LIG= 238.0:IMV=.013:ICI= .0]
05854 [IAREClmp= 1.50: IARECP= 6.00]
05855 [SMM= 1.39: SMAX= 9.24: SK= .000]
05856 + 5.0 02:INF-W6 7.81 .192 1991.0410.3100 311.27 n/a .000
05857 [XIMP=55:TMP=66]
05858 #####
05859 # CONTINUOUS RAINFALL DATA
05860 # *****
05861 # END OF RUN : 91
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06481+ + 5.0 021M4 10.11 .436 1994.0629.13100 272.94 n/a .000
06482+ + 5.0 021M4 6.20 1.20 .259 1994.0629.13100 262.21 n/a .000
06483+ + 5.0 021M4 7.81 .385 1994.0629.13100 312.81 n/a .000
06484+ SIM# 5.0 01:INFC-PH3 48.42 .232 1994.0629.13100 274.20 n/a .000
06485# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06486# ADD HYD + 5.0 02:INFD-W2 4.41 .231 1994.0629.13100 256.11 n/a .000
06487# + 5.0 02:INFD-W2 4.49 .234 1994.0629.13100 237.25 n/a .000
06488# + 5.0 02:INFD-W2 7.57 .458 1994.0629.13100 294.56 n/a .000
06489# + 5.0 02:INFD-W2 7.61 .428 1994.0629.13100 272.94 n/a .000
06490# + 5.0 02:INFD-W2 4.86 .254 1994.0629.13100 262.21 n/a .000
06491# + 5.0 02:INFD-W2 5.86 .389 1994.0629.13100 312.81 n/a .000
06492# SIM# 5.0 01:INFC-PH3 36.60 .266 1994.0629.13100 274.20 n/a .000
06493#-----
06494# # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
06495# # Set infiltration to 0 (CN = 99.99) for water balance analysis
06496# #-----
06497# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06498# CONTINUOUS STANDRDY 5.0 01:INFC-W2 5.76 .310 1994.0629.13100 325.37 .602 .000
06499# [XIMP:57:TIMP=60]
06500# [LOGS:2:CN=100.0]
06501# [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0MP:250:SCP= .0]
06502# [Impervious area: IAImp= 1.57:SLIP= .50:IM= 196.0MM:013:SCI= .0]
06503# [IARcImp= 1.50: IAREC= 6.00]
06504# [SMN= 1.39: SMAX= 9.24: SK= .000]
06505# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06506# CONTINUOUS STANDRDY 5.0 01:INFC-W2 6.51 .440 1994.0629.13100 311.75 .577 .000
06507# [XIMP:50:TIMP=60]
06508# [LOGS:2:CN=100.0]
06509# [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0MP:250:SCP= .0]
06510# [Impervious area: IAImp= 1.57:SLIP= .50:IM= 238.0MM:013:SCI= .0]
06511# [IARcImp= 1.50: IAREC= 6.00]
06512# [SMN= 1.39: SMAX= 9.24: SK= .000]
06513# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06514# CONTINUOUS STANDRDY 5.0 01:INFC-W2 10.03 .361 1994.0629.13100 348.77 .646 .000
06515# [XIMP:66:TIMP=76]
06516# [LOGS:2:CN=100.0]
06517# [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0MP:250:SCP= .0]
06518# [Impervious area: IAImp= 1.57:SLIP= .50:IM= 259.0MM:013:SCI= .0]
06519# [IARcImp= 1.50: IAREC= 6.00]
06520# [SMN= 1.39: SMAX= 9.24: SK= .000]
06521# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06522# CONTINUOUS STANDRDY 5.0 01:INFC-W4 10.11 .548 1994.0629.13100 334.76 .620 .000
06523# [XIMP:60:TIMP=70]
06524# [LOGS:2:CN=100.0]
06525# [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0MP:250:SCP= .0]
06526# [Impervious area: IAImp= 1.57:SLIP= .50:IM= 260.0MM:013:SCI= .0]
06527# [IARcImp= 1.50: IAREC= 6.00]
06528# [SMN= 1.39: SMAX= 9.24: SK= .000]
06529# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06530# CONTINUOUS STANDRDY 5.0 01:INFC-W4 6.20 .335 1994.0629.13100 327.82 .607 .000
06531# [XIMP:57:TIMP=60]
06532# [LOGS:2:CN=100.0]
06533# [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0MP:250:SCP= .0]
06534# [Impervious area: IAImp= 1.57:SLIP= .50:IM= 203.0MM:013:SCI= .0]
06535# [IARcImp= 1.50: IAREC= 6.00]
06536# [SMN= 1.39: SMAX= 9.24: SK= .000]
06537# R0094:IC0002-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06538# CONTINUOUS STANDRDY 5.0 01:INFC-W4 7.81 .449 1994.0629.13100 360.68 .668 .000
06539# [XIMP:57:TIMP=60]
06540# [LOGS:2:CN=100.0]
06541# [Previous area: IArea= 4.67:SLFP=2.00:LG= 40.0MP:250:SCP= .0]
06542# [Impervious area: IAImp= 1.57:SLIP= .50:IM= 228.0MM:013:SCI= .0]
06543# [IARcImp= 1.50: IAREC= 6.00]
06544# [SMN= 1.39: SMAX= 9.24: SK= .000]
06545# R0094:IC0001-----Dtain-ID:INHD-----AREAh-QFEARcms-TpeakDate_hh:mm-----Rvm-R.C-----DWfms
06546# CONTINUOUS STANDRDY 5.0 01:INFC-W2 8.51 .440 1994.0629.13100 311.75 n/a .000
06547# ADD HYD + 5.0 02:INFD-W2 10.03 .561 1994.0629.13100 348.77 n/a .000
06548# + 5.0 02:INFD-W2 10.11 .548 1994.0629.13100 334.76 n/a .000
06549# + 5.0 02:INFD-W2 6.20 .335 1994.0629.13100 327.83 n/a .000
06550# + 5.0 02:INFD-W2 7.81 .449 1994.0629.13100 360.68 n/a .000
06551# SIM# 5.0 01:INFC-PH3 48.42 .263 1994.0629.13100 335.79 n/a .000
06552# + 5.0 02:INFD-W2 4.41 .231 1994.0629.13100 256.11 n/a .000
06553# + 5.0 02:INFD-W2 4.49 .234 1994.0629.13100 237.25 n/a .000
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070201 [SMIN= 1.39; SMAX= 9.24; SW= .000]-----AREAha-GFAEAcms-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
070202 CONTINUOUS STANDBYD 5.0 0.01INF-W2 8.51 .239 1997.0622, 4:00 243.46 1562 .000
070203 [XIMP= 50;TIMP= 60]
070204 [Previous area: IApex= 4.67;SLP=2.00;LGP= 40;IMNP= 250;SCF= .0]
070205 [Impervious area: IAlmp= 1.57;SLP= .50;LGI= 238;MNI= .013;SCI= .0]
070206 [IARECimp= 1.50; IARECpex= 6.00]
070208 [SMIN= 1.39; SMAX= 9.24; SW= .000]
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07381 # Total Volume provided by LID = 110 m3
07382 # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
07383 ROUTE RESERVOIR -> 5.0 02HW 6.20 .170 1998.0627, 1:00 198.22 n/a .000
07384 overlow <= 5.0 02HW-LID 6.20 .170 1998.0627, 1:00 198.22 n/a .000
07385 overlow <= 5.0 03HW-LID-out 4.47 .168 1998.0627, 1:00 198.22 n/a .000
07386 [MstOfsed=.110E-01 m3, TotDurVol=.86E+02 m3, N-OvF= 92, TotDurOvF= 104 hrs]
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07556 # *****
07557 # *****
07558 # *****
07559 # *****
07560 # *****
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08281 | (Mdt=0.05ed=1930E-01 m3, TotDvVol=2355E+01 m3, N-Ovr= 100, TotDvOvr= 164.hrs)
08282 | R0103:C00015-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08283 | CONTINUOUS STANDHYD 5.0 01:IN4 10.11 .328 2003.0711.17:00 289.96 .523 .000
08284 | [XMP=50:TIM=70]
08285 | [LOSS= 2 :CN=71.0]
08286 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08287 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 203.:MNI=.013:SCI= .0]
08288 | [IARCLimp= 1.50: IARCPep= 6.00]
08289 | [SMIN= 41.38: SMAX=275.84: SK= .030]
08290 | # LID for Outlet W5 (27 catchbasins, 30 m long trench each)
08291 | # Assumed 810 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
08292 | # Total Volume provided by LID = 186 m³
08293 | # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
08294 | R0103:C00011-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08295 | ROUTE RESERVOIR -> 5.0 02:IN5 6.20 .198 2003.0711.17:00 279.28 n/a .000
08296 | out <= 5.0 01:IN4-LID 2.49 .001 2003.0501.10:25 289.97 n/a .000
08297 | overflow <= 5.0 01:IN4-LID 7.62 .322 2003.0711.17:00 289.96 n/a .000
08298 | (Mdt=0.05ed=1860E-01 m3, TotDvVol=2209E+01 m3, N-Ovr= 96, TotDvOvr= 163.hrs)
08299 | R0103:C00012-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08300 | CONTINUOUS STANDHYD 5.0 01:IN6 6.20 .198 2003.0711.17:00 279.28 .504 .000
08301 | [XMP=57:TIM=67]
08302 | [LOSS= 2 :CN=71.0]
08303 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08304 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 203.:MNI=.013:SCI= .0]
08305 | [IARCLimp= 1.50: IARCPep= 6.00]
08306 | [SMIN= 41.38: SMAX=275.84: SK= .030]
08307 | # LID for Outlet W6 (16 catchbasins, 30 m long trench each)
08308 | # Assumed 480 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
08309 | # Total Volume provided by LID = 110 m³
08310 | # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
08311 | R0103:C00013-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08312 | ROUTE RESERVOIR -> 5.0 02:IN5 6.20 .198 2003.0711.17:00 279.28 n/a .000
08313 | out <= 5.0 01:IN5-LID 1.52 .001 2003.0501.10:25 279.27 n/a .000
08314 | overflow <= 5.0 01:IN5-LID-Out 4.68 .193 2003.0711.17:00 279.28 n/a .000
08315 | (Mdt=0.05ed=1100E-01 m3, TotDvVol=1306E+01 m3, N-Ovr= 94, TotDvOvr= 161.hrs)
08316 | R0103:C00014-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08317 | CONTINUOUS STANDHYD 5.0 01:IN6 7.81 .279 2003.0711.17:00 329.94 .594 .000
08318 | [XMP=71:TIM=81]
08319 | [LOSS= 2 :CN=71.0]
08320 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08321 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 228.:MNI=.013:SCI= .0]
08322 | [IARCLimp= 1.50: IARCPep= 6.00]
08323 | [SMIN= 41.38: SMAX=275.84: SK= .030]
08324 | # LID for Outlet W6 (24 catchbasins, 30 m long trench each)
08325 | # Assumed 720 m long trench, 1.25 m wide by 0.40 m deep, porosity of 0.40 with 250 mm diameter perforated pipe
08326 | # Total Volume provided by LID = 145 m³
08327 | # Soil infiltration rates assumed at 9mm/hr with a safety factor of 2.5
08328 | R0103:C00015-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08329 | ROUTE RESERVOIR -> 5.0 02:IN5 7.81 .279 2003.0711.17:00 329.94 n/a .000
08330 | out <= 5.0 01:IN6-LID 1.96 .001 2003.0501.10:20 329.94 n/a .000
08331 | overflow <= 5.0 01:IN6-LID-Out 5.85 .275 2003.0711.17:00 329.94 n/a .000
08332 | (Mdt=0.05ed=1100E-01 m3, N-Ovr= 99, TotDvOvr= 162.hrs)
08333 | R0103:C00016-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08334 | ADD HYD + 5.0 02:IN1 5.76 .182 2003.0711.17:00 273.32 n/a .000
08335 | + 5.0 02:IN2 8.31 .253 2003.0711.17:00 284.44 n/a .000
08336 | + 5.0 02:IN3 10.03 .343 2003.0711.17:00 311.42 n/a .000
08337 | + 5.0 02:IN4 10.11 .328 2003.0711.17:00 289.96 n/a .000
08338 | + 5.0 02:IN5 6.20 .198 2003.0711.17:00 279.28 n/a .000
08339 | + 5.0 02:IN6 7.81 .279 2003.0711.17:00 329.94 n/a .000
08340 | SIM= 5.0 01:INCD-PH3 48.42 .183 2003.0711.17:00 281.20 n/a .000
08341 | R0103:C00017-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08342 | ADD HYD + 5.0 02:IN1 4.41 .178 2003.0711.17:00 273.32 n/a .000
08343 | + 5.0 02:IN2-LID-Out 6.52 .247 2003.0711.17:00 284.44 n/a .000
08344 | + 5.0 02:IN3-LID-Out 7.56 .337 2003.0711.17:00 311.42 n/a .000
08345 | + 5.0 02:IN4-LID-Out 7.62 .322 2003.0711.17:00 289.96 n/a .000
08346 | + 5.0 02:IN5-LID-Out 4.68 .193 2003.0711.17:00 279.28 n/a .000
08347 | + 5.0 02:IN6-LID-Out 5.85 .275 2003.0711.17:00 329.94 n/a .000
08348 | SIM= 5.0 01:INCD-PH3-LI 36.64 .151 2003.0711.17:00 291.02 n/a .000
08349 | #
08350 | # Barhaven Conservancy Development Phase 3 (WITHOUT INFILTRATION) - POST DEVELOPMENT CONDITIONS
08351 | #
08352 | # Set infiltration rates to 0.000 for CCR ballroom analysis
08353 | #
08354 | R0103:C00018-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08355 | CONTINUOUS STANDHYD 5.0 01:IN4-W5 9.76 .228 2003.0711.17:00 341.42 .616 .000
08356 | [XMP=55:TIM=66]
08357 | [LOSS= 2 :CN=100.0]
08358 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08359 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 196.:MNI=.013:SCI= .0]
08360 | [IARCLimp= 1.50: IARCPep= 6.00]
08361 | [SMIN= 1.39: SMAX= 9.24: SK= .000]
08362 | R0103:C00019-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08363 | CONTINUOUS STANDHYD 5.0 01:IN4-W2 8.51 .331 2003.0711.17:00 328.44 .592 .000
08364 | [XMP=50:TIM=60]
08365 | [LOSS= 2 :CN=100.0]
08366 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08367 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 238.:MNI=.013:SCI= .0]
08368 | [IARCLimp= 1.50: IARCPep= 6.00]
08369 | [SMIN= 1.39: SMAX= 9.24: SK= .000]
08370 | R0103:C00020-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08371 | CONTINUOUS STANDHYD 5.0 01:IN4-W3 10.03 .400 2003.0711.17:00 364.17 .657 .000
08372 | [XMP=60:TIM=75]
08373 | [LOSS= 2 :CN=100.0]
08374 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08375 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 255.:MNI=.013:SCI= .0]
08376 | [IARCLimp= 1.50: IARCPep= 6.00]
08377 | [SMIN= 1.29: SMAX= 9.24: SK= .000]
08378 | R0103:C00021-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08379 | CONTINUOUS STANDHYD 5.0 01:IN4-W4 10.11 .399 2003.0711.17:00 350.68 .632 .000
08380 | [XMP=60:TIM=70]
08381 | [LOSS= 2 :CN=100.0]
08382 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08383 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 260.:MNI=.013:SCI= .0]
08384 | [IARCLimp= 1.50: IARCPep= 6.00]
08385 | [SMIN= 1.39: SMAX= 9.24: SK= .000]
08386 | R0103:C00022-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08387 | CONTINUOUS STANDHYD 5.0 01:IN4-W5 6.20 .245 2003.0711.17:00 343.98 .620 .000
08388 | [XMP=57:TIM=67]
08389 | [LOSS= 2 :CN=100.0]
08390 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08391 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 203.:MNI=.013:SCI= .0]
08392 | [IARCLimp= 1.50: IARCPep= 6.00]
08393 | [SMIN= 1.39: SMAX= 9.24: SK= .000]
08394 | R0103:C00023-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08395 | CONTINUOUS STANDHYD 5.0 01:IN4-W6 7.81 .315 2003.0711.17:00 375.60 .677 .000
08396 | [XMP=71:TIM=81]
08397 | [LOSS= 2 :CN=100.0]
08398 | [Fervious area: IArea= 4.67:SLPF=2.00:IGP= 40.:MNF=250:SCF= .0]
08399 | [Impervious area: IArea= 1.57:SLP= .50:IGI= 228.:MNI=.013:SCI= .0]
08400 | [IARCLimp= 1.50: IARCPep= 6.00]
08401 | [SMIN= 1.39: SMAX= 9.24: SK= .000]
08402 | R0103:C00024-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08403 | ADD HYD + 5.0 02:IN4-W1 5.76 .228 2003.0711.17:00 341.42 n/a .000
08404 | + 5.0 02:IN4-W2 8.51 .331 2003.0711.17:00 328.44 n/a .000
08405 | + 5.0 02:IN4-W3 10.03 .400 2003.0711.17:00 364.17 n/a .000
08406 | + 5.0 02:IN4-W4 10.11 .399 2003.0711.17:00 350.68 n/a .000
08407 | + 5.0 02:IN4-W5 6.20 .245 2003.0711.17:00 343.98 n/a .000
08408 | + 5.0 02:IN4-W6 7.81 .315 2003.0711.17:00 375.60 n/a .000
08409 | SIM= 5.0 01:IN4-WCD-PH 48.42 .183 2003.0711.17:00 351.63 n/a .000
08410 | #####
08411 | # CONTINUOUS RAINFALL DATA
08412 | #####
08413 | R0103:C00025-----Dtain-ID:INVD-----AREAb-QFEARqns-TpeakDate_hh:mm-----RvMn-R.C-----DWFCms
08414 | FINISH
08415 |
08416 | #####
08417 | # WARNINGS / ERRORS / NOTES
08418 | #
08419 | R0103:C00025 READ ARE DATA
08420 | ** WARNING: Requested start date is less than start date in file.
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: Requested start date is less than start date in file.
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: Missing rainfall increments were set to 0.
08442 | ** WARNING: Requested start date is less than start date in file.
08443 | ** WARNING: Missing rainfall increments were set to 0.
08444 | ** WARNING: Missing rainfall increments were set to 0.
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: Missing rainfall increments were set to 0.
08449 | ** WARNING: Missing rainfall increments were set to 0.
08450 | ** WARNING: Missing rainfall increments were set to 0.
08451 | ** WARNING: Missing rainfall increments were set to 0.
08452 | ** WARNING: Missing rainfall increments were set to 0.
08453 | ** WARNING: Requested start date is less than start date in file.
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.

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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 | #####
08468 |

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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