# STORMWATER MANAGEMENT

# BRIEF

## PROJECT: COLD CREEK SUBDIVISION PHASE 1

LOCATED IN PICTON,

THE CORPORATION OF THE COUNTY OF PRINCE EDWARD

**DATED:** April 2024

Rev.01 May 2025

**PREPARED FOR:**

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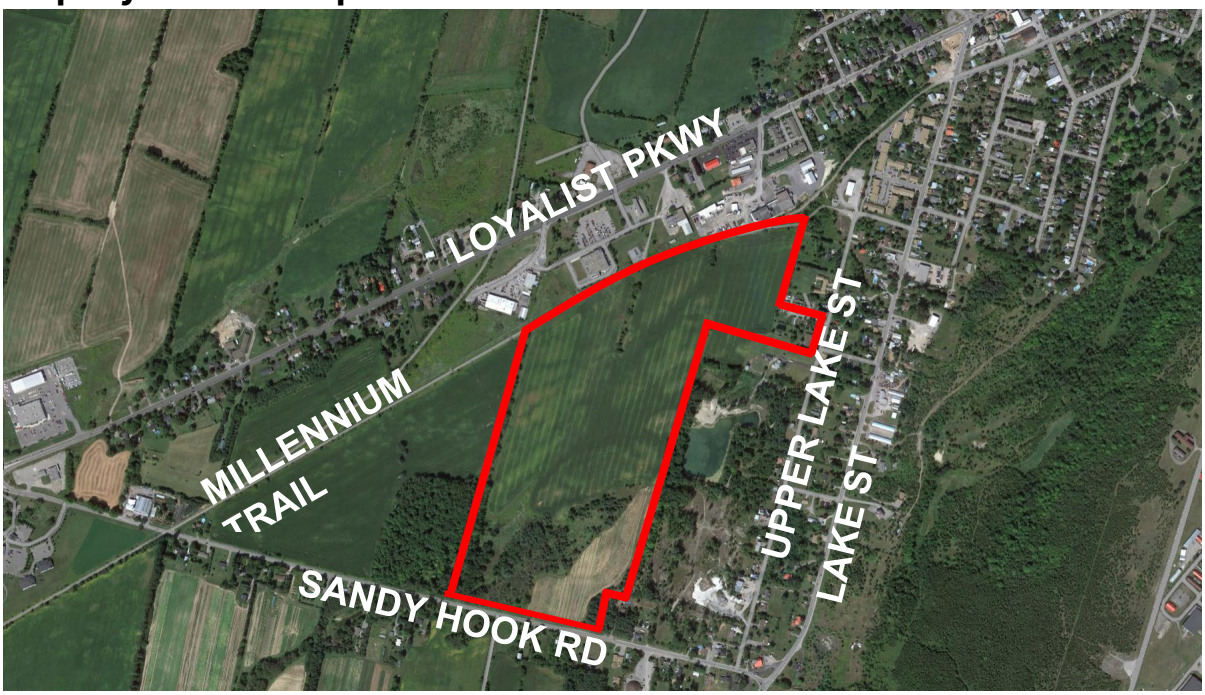
## 1.0 INTRODUCTION

This Report has been prepared in support of a pre-servicing agreement and registration of the Cold Creek Subdivision development, located in Picton within the Corporation of the County of Prince Edward. The purpose of this report is to discuss the stormwater management of the proposed subdivision.

The proposed development has an overall site area of 35 hectares and is generally located between Sandy Hook Road and Millennium Trail, and east of Upper Lake Street as illustrated in the Property Location Map below.

As shown in Figure 1: Phasing Plan, the proposed subdivision includes municipal road networks, a pump station block, a stormwater pond, parkland, and protected open space to support the residential development. The subdivision includes 870 units comprised of: 84 back-to-back townhouses, 136 townhouses, 436 stacked townhouses, 40 single lots, 24 semi-detached dwellings and 150 apartment units.

**Property Location Map**




This Brief has been prepared in support of the proposed development to demonstrate how the stormwater drainage conforms with the Prince Edward County Guidelines. The stormwater management design has been prepared in collaboration with JFSA who completed the hydraulic modeling. It should be noted that changes may materialize during the detailed design process with the building permit applications.

## 1.1 DEVELOPMENT PHASING

The development is proposed to be constructed in multiple phases over nine years as summarized in Figure 1: Phasing Plan. The first phase of construction is anticipated to be completed in 2026 and will include the reconstruction of Hineman Street and the construction of 152 townhouses and a condominium block anticipated to support 32 stacked townhouses, which will be subject to site plan control. The entire subdivision is anticipated to be completed in 2035.

## 1.2 BACKGROUND STUDIES

This Report considers the following Studies completed in support of Draft Plan Approval of the development:

1. Cold Creek Subdivision Final Geotechnical Investigations Report dated January 31 2024 prepared by Ainley Group.

Based on findings of the geotechnical report, the site soils can be expected to be a layer of topsoil overlying sand with silt overlying weathered limestone bedrock. Weathered limestone bedrock was encountered in test pits located in the northwest section of the site, with depths ranging from 1.05 m to 2.10m below existing grades.

2. Environmental Impact Study (EIS) dated April 2024, prepared by Michalski Nielsen Associates Ltd.

The subject lands are located within the Waring's Creek watershed. Based on the findings of the EIS, the upstream drainage from the development contributes to the headwaters of Waring's Creek, making high level protection a requirement. Recommendations for the proposed stormwater management strategy include:

- Provide peak flow attenuation to pre-development levels up to the 100-year storm event.
- Provide Enhanced level of quality treatment.
- The mitigation strategy for protection of the drainage feature within the wetland communities also considers both the recharge and cooling of flows being conveyed across these lands.
- Review opportunities with the County and Quinte Conservation on proposed protection measures including buffering for the wetland to maintain and improve upon the long-term health of Waring's Creek.
- Implement a comprehensive sediment and erosion control program during construction.

3. Phase 1 – Hydrogeological Assessment & Water Balance prepared by Blumetric dated May 2025

The detailed design of the infiltration galleries has been sized to meet the water balance requirements as set out in the report. Site grading, servicing and design of the SWM pond have been designed in consideration of the ground water readings and conclusions provided.

## 2.0 STORMWATER MANAGEMENT CRITERIA

### 2.1 OBJECTIVES

Based on the Secondary Plan Policies related to the Waring's Creek Watershed and the Prince Edward County Storm Design Manual, the stormwater management design meets the following objectives:

- Post development flows cannot exceed pre-development peak flow rates (up to the 100-year storm event).
- Enhanced Level 1 (80% TSS removal)
- Major system flow routes must be unobstructed with continuous slopes such as no sags or low points exceeding their permissible depths, leading to a stormwater management facility, outlet structure or receiving watercourse.
- Overland flows can be safely conveyed from the ROW to a S.W.M facility or open channel without flooding adjacent private properties.
- There are no known capacity constraints downstream of the site requiring offsite mitigation measures.

### 2.2 DESIGN GUIDELINES

Stormwater Management and Low Impact Design for the proposed development has considered the following Guidelines:

- Prince Edward County Storm Design Manual (Final Draft)
- MECP Stormwater Management Planning and Design Manual
- MECP draft LID Stormwater Management Guidance Manual 2022
- LID Stormwater Planning and Design Guide (CVC/TRCA 2010)
- The Grey to Green Low Impact Development Residential Retrofits Guide, released by CVC

- The Sustainable Technologies Evaluation Program (STEP) wiki page for Low Impact Development Planning and Design (from Quinte Conservation's list of Technical Resources)

## 3.0 PRE-DEVELOPMENT DRAINAGE

The existing subject lands are mostly vacant, with farmland, forested areas, and some residential properties. Site drainage was reviewed using the topographic survey completed in 2023 and 2024 by IBW Surveyors, Lidar mapping and onsite review of field conditions by INSITE staff. Figure 2: Pre-Development Storm Drainage Plan summarizes our findings. Based on our analysis, the lands generally flow towards the southwest to the wetland and wooded area. The following additional external areas drain into the development lands:

- Area ID EXT 1, 1.16 m3/s (for the 100-yr storm event): Lands north of Millenium Trail drain into the development through twin culverts crossing Millenium Trail
- Area ID EXT 2, 2.27 ha C = 0.45: Existing residential properties located east of the development and west of Upper Lake Street
- Area ID EXT 3, 0.13 ha C = 0.25: Land east of the proposed George Wright Boulevard north of Sandy Hook Road connection
- Area ID EXT 4, 0.35 ha C = 0.85: Future extension of George Wright Boulevard, north of Millennium Trail.
- Area ID EXT 4B, 0.24 ha C = 0.85: Future development, west of future George Wright Boulevard extension
- Area ID EXT 5, 0.23 ha C = 0.35: Open space along Millenium Trail, east of future George Wright Boulevard extension.
- Area ID EXT 6, 0.21 ha C = 0.35: Open space along Millenium Trail, west of future George Wright Boulevard extension.
- Area ID EXT 7, 0.85 ha C = 0.35: Open space along Millenium Trail, south of Upper Lake Street.

## 4.0 POST- DEVELOPMENT STORMWATER MANAGEMENT

### 4.1 PROPOSED SITE GRADING

A preliminary grading design for the development (Figure 3) has been prepared for the ultimate development with the following considerations:

- Existing elevations of lands adjacent to and within the proposed development
- Safe conveyance of major system flows and overland flow routes

- Findings of the project Hydrogeological Report
- Design and elevations for the proposed stormwater management pond;
- Minimum cover over the proposed sanitary and storm sewer services.

The lots within the proposed subdivision will convey flows to the roads by sheet drainage or collected through rear yard catchbasins to discharge to the proposed storm sewer system within the municipal road network. Some rear yard areas will be conveyed directly to the wetland through the vegetated buffer. The medium density blocks will collect storm drainage internally and also discharge to the proposed municipal storm sewer system. The proposed storm drainage flow patterns are based on the preliminary subdivision grading design.

## 4.2 MINOR SYSTEM AND STORM SEWER TRUNKS

A network of storm sewer trunks within the municipal roadway will be required to convey subdivision flows as well as external flows to the proposed stormwater pond, as illustrated in Figure 4: Storm Trunks. The proposed storm sewer system is adequately sized to convey the 5-year storm event flows using the Rational Method with the City of Belleville IDF Curves.

## 4.3 MAJOR SYSTEM FLOWS

The stormwater management system is designed to safely convey major storm events (flows in excess of the storm sewer system including the Regional Storm event) within the municipal roadways to the proposed stormwater management pond. The overland flow routes are illustrated in Figure 5: Post Development Drainage Plan. Rear yard swales and catchbasins within private property will also be used to convey the major system.

In accordance with municipal design guidelines, the major system flow route shall be designed so that the maximum water elevation has a vertical separation (i.e. freeboard) of 150 mm below the finished elevation of the building or below the top of foundation for homes. The maximum depth of overland flow in the roads shall be 0.15m above the crown of road.

The proposed road networks consist of a curb and gutter system within the municipal right of way which will provide storage for excess flows to drain overland. The overland flow will be routed over the curb and boulevard into the stormwater management pond facility.

## 4.4 SUB-CATCHMENT AREAS

### 4.4.1 External Areas

Based on the topographic survey and Lidar mapping, the following upstream drainage areas were delineated:

- **The commercial area north of the Millennium Trail (ID EXT 1)** includes drainage from the commercial developments' stormwater management pond, and a commercial development with no apparent onsite stormwater management controls. This external drainage is conveyed into the northeast end of the site through twin culverts. The proposed subdivision will capture and convey this drainage to the stormwater management pond within the storm sewer system.
- **The residential area to the east (ID EXT 2)** includes large residential lots fronting Upper Lake Street. The proposed drainage design will capture these lands via rear yard catchbasins connected to the storm sewer system.
- **The open space at the south end (ID EXT 3)** located at the rear of a residential lot fronting Sandy Hook Road. The proposed drainage design will capture these lands via rear yard catchbasins connected to the storm sewer system.
- **The future extension of George Wright Blvd (EXT 4 and 4B)** north of Millennium Trail will drain southerly into the subdivision road. The major and minor system flows will be conveyed within the municipal road and storm sewer system.
- **Millenium Trail open space (EXT 5, 6 and 7)** includes open space along the corridor to be captured and conveyed into SWM pond via the subdivision storm sewer system along with the flows discharging from the existing culvert.

### 4.4.2 Drainage Areas to Proposed Stormwater Pond

The majority of the subdivision flows will be conveyed to the proposed stormwater pond for quantity and quality control. Post development flows conveyed along the municipal road infrastructure includes drainage from external lands and most residential lands, except for clean water from the lower rear yards, as described in the section below.

### 4.4.3 Rear Lot Drainage to Wetland

Lower rear yards of lots adjacent to the wetland buffer will be sheet drain clean roof drainage towards the wetland. Future drainage from the Parkland Block will also convey clean stormwater flows to the wetland. The wetland will continue to convey flows in a southerly direction to the south property limits.

## 4.5 STORMWATER POND DESIGN

Water Quantity and Quality controls objectives (set out in the MOE Stormwater Management Planning and Design Manual) are met with the use of a wet stormwater management pond. JFSA completed the hydraulic modeling to develop targets for existing conditions and post-development runoff in order to determine appropriate mitigation measures and required storage volumes for the proposed stormwater pond. Their results are provided in *Appendix A* of this report. The proposed Pond Block is based on the pond design to meet the quality and quantity control requirements. The pond block will accommodate a 3.0m wide maintenance road as well as an infiltration area at the south end.

# 5.0 LOW IMPACT DEVELOPMENT (LID) DESIGN

Given the large size of this municipal subdivision, stormwater management retrofits employing a range of Low Impact Development (LID) Best Management Practices (BMP) in concert with the conventional stormwater management pond and storm sewer systems is appropriate.

Implementation of LID mechanisms are incorporated throughout the design. Figure 6: Green Infrastructure and LIDs illustrates various infiltration mechanisms for the proposed development. The proposed Low Impact Development design incorporates a series of BMPs in a 'treatment train' approach to provide integrated treatment of runoff from the site and to mitigate the excess runoff up to the 100-yr storm event.

## 5.1 OPPORTUNITIES FOR IMPLEMENTATION OF LID PRACTICES

To promote infiltration, implementation of Low Impact Development (LID) opportunities within the proposed subdivision were reviewed in consideration to the following:

- The Prince Edward County Design Guidelines, including permissible LID infrastructure.
- the LID Manuals and Guidelines issued by MECP, CVC, and Quinte Conservation.
- Existing drainage patterns and existing topography.
- Existing soil conditions; Soil infiltration testing was completed as part of the Hydrogeological Assessment by Blumetric and used to calculate the infiltration rate.
- Size of drainage areas appropriate to LID mechanisms.

LID stormwater management practices include source controls and conveyance controls. Low Impact Development stormwater management BMPs are listed in Table 1.3 of the MECP Draft LID Guidance Manual 2022 below, including their general location as either a source control, conveyance control or both and their control mechanisms. Source controls include physical measures that retain runoff, encourage the infiltration of water into the ground and reduce runoff volumes before water enters the subsurface or surface drainage systems.

**MECP Draft Guidance Manual 2022**
**Table 1.3 - LID Practices, Location and Control Mechanisms**

| LID Practices | Lot or Source | Conveyance | Infiltration (Retention) | ET (Retention) | Reuse (Retention) | Filtration | Detention |
|---|---|---|---|---|---|---|---|
| Rain water harvesting (irrigation) | ✓ | ✓ | ☑ | ☑ | ☑ | x | x |
| Rain water harvesting (other reuse) | ✓ | ✓ | x | x | ☑ | x | x |
| Green Roofs | ✓ | | x | ☑ | x | ☑ | ☑ |
| Downspout disconnection | ✓ | | ☑ | ☑ | x | ☑ | ☑ |
| Foundation drain disconnection | ✓ | | ☑ | ☑ | x | ☑ | ☑ |
| Soakaways, Infiltration Trenches and Chambers | ✓ | ✓ | ☑ | x | x | x | ☑ |
| Bioretention (rain gardens) | ✓ | ✓ | ☑ | ☑ | x | ☑ | ☑ |
| Vegetated Filter Strips | ✓ | ✓ | ☑ | ☑ | x | ☑ | ☑ |
| Permeable Pavements | ✓ | ✓ | ☑ | x | x | ☑ | ☑ |
| Enhanced Grass Swales (vegetated swales) | ✓ | ✓ | ☑ | ☑ | x | ☑ | ☑ |
| Dry Swales (bioswales) | ✓ | ✓ | ☑ | ☑ | x | ☑ | ☑ |
| Perforated Pipe Systems | | ✓ | ☑ | x | x | x | ☑ |
| Tree BMPs | ✓ | ✓ | ☑ | ☑ | x | ☑ | ☑ |
| Soil Amendments | ✓ | ✓ | ☑ | ☑ | x | ☑ | ☑ |

Notes: ET – Evapotranspiration, ✓ or ☑ – Yes, x – No

Analysis of the proposed mechanisms demonstrate their effectiveness in offsetting the effects of increased imperviousness and that they do not create unintended consequences such as increased flooding.

### 5.1.1 Opportunities for infiltration within municipal subdivision blocks.

The proposed subdivision plan includes a municipal road network, pond block and parkland to support development of freehold townhouses, medium density and apartment buildings. Opportunities for LID practices within the pond and parkland blocks include soakaways, infiltration trenches and chambers and plantings to promote infiltration recommended for recharge of the wetland as discussed in the EIS.

### 5.1.2 Opportunities for infiltration within private property.

To assist with green infrastructure, private property owners can implement cost effective landscaped features and other techniques that help reduce basement flood risks, clean and store stormwater, promote infiltration and help residents conserve water.

Opportunities for LID practices within the freehold townhouse blocks include rainwater harvesting, disconnection of downspout and foundation drains, permeable pavements, enhanced grassed swales and planting of trees.

As the medium density and apartment buildings will include grassed areas where rooftop drainage will be conveyed, opportunities for LID practices will include all of the mechanisms included in the MECP Guidance table above.

## 5.2 INFILTRATION REQUIREMENTS AND PROPOSED LID

In accordance with recommendations from the Hydrogeological Assessment by Blumetric, infiltration mechanisms are required to maintain pre-development infiltration rates.

Modeling of the site runoff, infiltration rates and target post-development LID infiltration storage volumes are detailed in Appendix A. To meet the resulting infiltration requirements, LID infiltration galleries have been designed downstream of the SWM Pond outlet and within the Condominium Blocks. Sizing calculations are provided in *Appendix B*.

### 5.2.1 Vegetated Wetland Buffer

The wetland buffer will remain undisturbed and will have vegetated cover. Proposed lots with rear yards that back onto the wetland area will be vegetated and gently slope towards the wetland buffer. The lots will convey clean roof drainage to the wetland through the vegetated buffer. The gentle sloping and vegetation will slow runoff to promote infiltration of stormwater, reducing flows to the wetland.

### 5.2.2 SWM Pond and Infiltration Gallery

The proposed subdivision layout, including the location and linear shape of the stormwater management pond, has been fitted to the existing terrain which will reduce the amount of clearing and grading required. An area between the proposed pond sloping and the wetland buffer is available for dispersing and infiltrating the flows at the pond outlet. An infiltration gallery consisting of perforated pipes wrapped in geotextile fabric and clear stone is proposed. This mechanism would act as temporary storage of stormwater runoff and promote infiltration.

Based on the groundwater readings provided in the Hydrogeological Assessment by Blumetric, the highest groundwater level recorded in the vicinity of the SWM Pond (MW24-13 where existing surface elevation is 90.28), was 90.06 in April 2025 in response to a rainfall event, with water levels returning to static conditions below 89.4 within a few days. The proposed underside of the stone infiltration gallery is above existing ground elevation, resulting in a spatial separation close to 1.0m above static groundwater level conditions during peak high rainfall season. As the infiltration gallery is intended to promote infiltration outside peak rainfall season when groundwater levels are lower, the underside of the LIDs will be more than 1.0m above the groundwater levels.

A level spreader is also incorporated along the downstream grading of the pond block discharging that portion of routine flows from the stormwater facility which cannot be infiltrated through the infiltration gallery. The level spreader is an earthen berm which broadly distributes such flows across the protected wetland buffer, allowing for some further infiltration occur through the ground layer/vegetation thatch of this riparian area. Native plantings within the pond block area will also aid in both capturing and 'soaking up' rainwater which can help improve water quality.

### 5.2.3 Municipal Parkland Area

The municipal parkland area will be vegetated and gently slope towards the wetland to promote infiltration of stormwater. Future design of the parkland should consider incorporating appropriate LID and infiltration measures.

### 5.2.4 Disconnected Roof Leaders

Roof leaders are disconnected from the stormwater collection system and redirected to vegetated areas. This will promote infiltration of the runoff within the conveyance swales and open spaces.

### 5.2.5 Simple Grass Swales within private lots and condominium blocks

The proposed subdivision design includes grass swales to convey drainage from the disconnected roof leaders, which will reduce flows and improve water quality by encouraging settling and promote infiltration. Clean roof water from residential lots and blocks will be directed to the proposed linear swales along the rear and side yards with gentle sloping to slow water to allow for infiltration. The cross section is triangular with maximum side slope of 3H:1V. To enhance infiltration opportunities, rock check dams could be added where longitudinal slopes exceed 1%, although residents will likely remove them for low maintenance.

During construction of lot grading, compost mixed into existing soils could enhance the soil properties to reduce runoff and improve water quality.

### 5.2.6 Infiltration Trench and Soakaway Pit in Private Condominium Blocks

The areas of open space within the Condominium Blocks are suitable to implement infiltration trenches and soakaway pits. These mechanisms are constructed with trenches or pits filled with void forming granular material to collect and transport clean water from roof downspouts and are generally landscaped with river stone and native plants to allow water to drain into the surrounding ground within 24 hrs. Infiltration galleries need to be constructed a minimum of 4m from proposed building footprints.

Three Infiltration galleries consisting of stone and infiltration pipes are proposed within the Condominium Block of Phase 1. Based on the groundwater readings provided in the Hydrogeological Assessment by Blumetric, the highest groundwater levels recorded in this vicinity ranged from 93.0 to 94.0. Based on the preliminary grading of this block, the underside of the stone infiltration galleries will be approximately 96.0, resulting in a spatial separation over 3.0m from the highest groundwater level conditions during peak high rainfall season.

To offset the water balance deficit, infiltration galleries will be required within the future condominium blocks. A conceptual layout is illustrated in Figure 6.

### 5.2.7 Green Roofs within private condominium blocks

Green roofs, sometimes referred to as 'eco-roofs', 'vegetated roofs', or 'living roofs' maximize evapotranspiration to partially achieve water balance and erosion control objectives. They are commonly used for amenity space on medium- and high-rise residential developments.

## 5.3 PROPOSED COOLING OF STORMWATER

As the quality of stormwater treatment must also protect against adverse thermal impacts on downgradient Waring's Creek, the following measures are incorporated:

- infiltration opportunities within residential yard areas of the subdivision (as described in the above section)
- designing the stormwater management pond in order to outlet colder water with effective use of planting for shading, lengthen the flow path of the stormwater management pond (maximize the length to width ratio) and incorporating a bottom draw outlet into the stormwater management pond.

# 6.0 OPERATION AND MAINTENANCE

## 6.1 MUNICIPAL SWM POND

Municipal ownership, including inspection and maintenance of the stormwater management pond and associated infrastructure including the infiltration galleries shall follow Best Management Practices, included in the following industry guidelines:

- MECP's Stormwater Management Planning and Design Manual
- MNR's Stormwater Management Pond Clean-out Best Management Practices
- TRCA's Inspection and Maintenance Guide for Stormwater Management Ponds and Constructed Wetlands

## 6.2 PRIVATE SYSTEMS

During winter months, the parking lot and driveway drainage will continue to function with conventional snow clearing of the traffic areas.

As the LID controls will be located within private property, the property owners will be responsible for performing all inspection, maintenance and repair/rehabilitation, and associated record keeping for BMPs. The property owner will be responsible for maintaining an inventory of all BMPs they own and record keeping related to inspection, maintenance and repair, including results from periodic inspections to verify performance. An annual report could be submitted by the property owner to the municipality verifying that the required maintenance activities as defined within the operations manual has been completed and the facility(ies) are functional and meet the designed performance target.

The owner's consulting engineer should supervise and certify construction, which will minimize O&M activities related to improper construction or installation. The Monitoring Plan will include background information, including detailed design and a monitoring plan schedule.

## 7.0 EROSION AND SEDIMENT CONTROL

An Erosion and Sediment Control Plan has been prepared with the project detailed engineering drawings, in accordance with recommendations from the project EIS, Hydrogeological Report and Industry Guidelines including TRCA's Erosion and Sediment Control Guide For Urban Construction. A multi-barrier approach to erosion and sediment control includes staging of construction and mitigation measures to protect the downstream watershed from sediment impacts.

## 8.0 CONCLUSIONS

- The proposed 35 ha municipal subdivision is located in Picton, between Sandy Hook Road and Millenium Trail, and east of Upper Lake Street. The subdivision will create 904 residential units, including a mix of housing types including townhouses, single lots, semi-detached dwellings and apartments.
- The first phase of construction will include the reconstruction of Hineman Street and the construction of 152 townhouses and a condominium block anticipated to support 32 stacked townhouses.
- The stormwater management design meets the objectives set out in the Secondary Plan Policies related to the Waring's Creek Watershed, as well as the Prince Edward County Storm Design Manual including MECP criteria.
- The existing subject lands are mostly vacant, with farmland, forested areas, and some residential properties. External areas drain towards the development, including commercial developments north of Millennium Trail, residential lands to the east, a small open space area to the southeast and the open space corridor along Millenium Trail. Within the development, the lands generally flow southerly into a vegetated wetland area.
- The proposed subdivision will include a block for provision of a wet stormwater management pond to meet the water quantity and quality control objectives; Enhanced Level 1 (80% TSS removal) will be provided, and post development flows will not exceed pre-development peak flow rates (up to the 100-year storm event).
- A network of municipal storm sewer trunks sized to accommodate the 5-year storm event within the roadways will be required to convey subdivision flows as

well as external flows ultimately discharging to the proposed stormwater management pond located within the proposed subdivision.

- The proposed municipal road networks will consist of a curb and gutter system which will provide storage for excess flows to drain overland. The overland flow will be routed over the curb and boulevard into the stormwater management pond facility.
- Clean water from the rear yard lots and parkland adjacent to the wetland area will drain directly to the wetland buffer, while the remainder of the subdivision will drain to the proposed stormwater pond for quantity and quality control.
- Opportunities for Low Impact Development (LID) practices were reviewed to promote infiltration recommended for recharge of the wetland in consideration to site constraints.
- The proposed stormwater management strategy has incorporated various methodologies to promote infiltration, including an infiltration gallery and level spreader within the stormwater pond block, maintaining a vegetated wetland buffer, disconnected roof leaders, grass swales and soakaway pits within the private residential blocks.
- To protect against adverse thermal impacts on downgradient Waring's Creek, the stormwater management system will include cooling of upgradient runoff through various infiltration mechanisms and strategic design of the stormwater management pond and plantings.
- Stormwater management controls located within private residential lands will require maintenance by the property owners who will be responsible for performing all inspection, maintenance and repair/rehabilitation, and associated record keeping for Best Management Practices.

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## 9.0 REPORT LIMITATIONS

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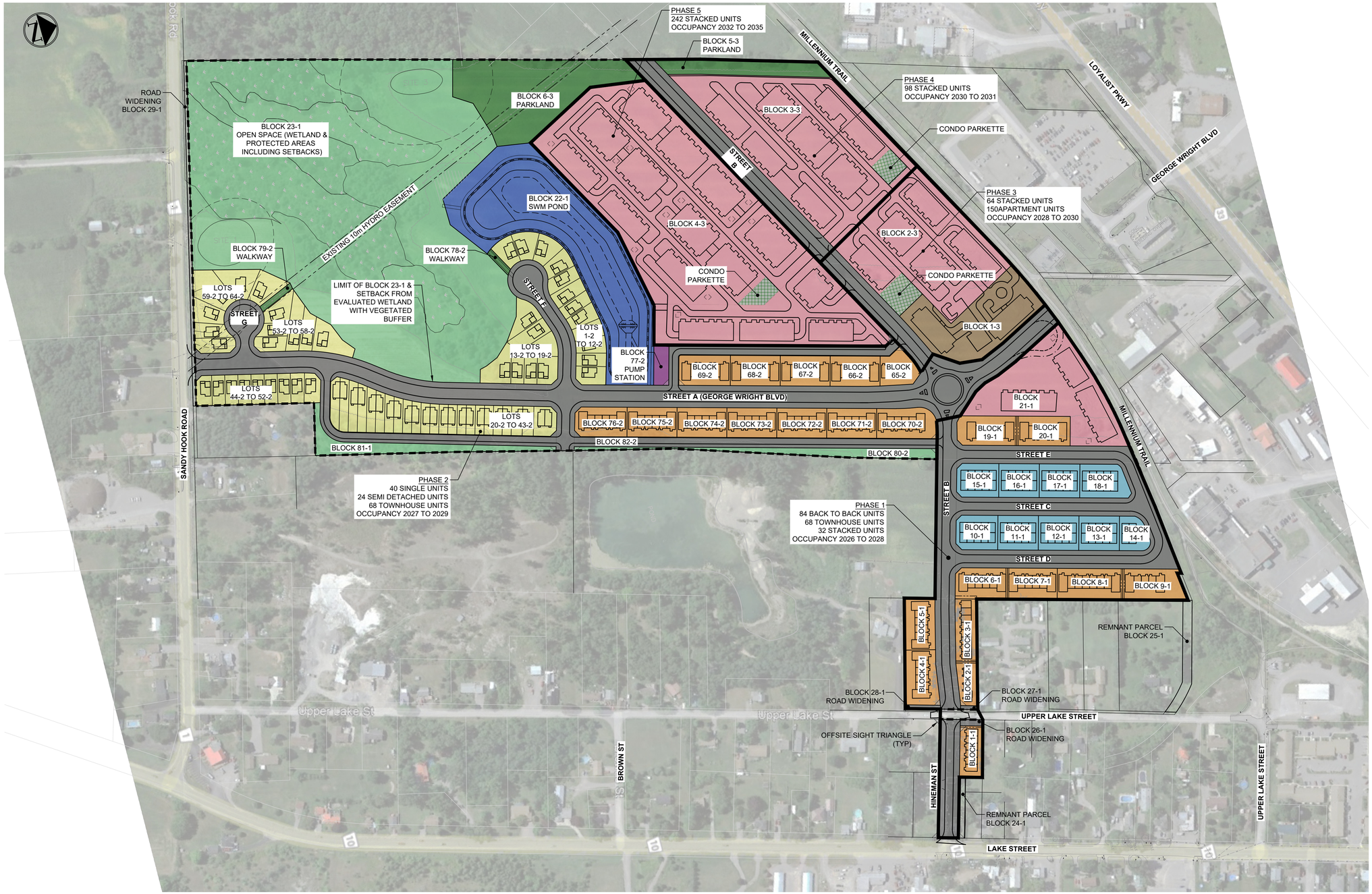
# FIGURES




NOTE:
1. AERIAL IMAGE OBTAINED FROM GOOGLE EARTH.
2. EXISTING PROPERTY BOUNDARIES AND TOPOGRAPHIC ELEVATIONS OBTAINED FROM IBW SURVEYORS.

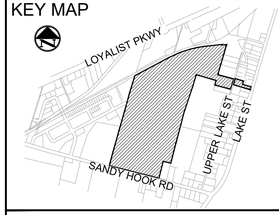
CLIENT

Port Picton HOMES

PROJECT 23-108

# COLD CREEK SUBDIVISION

KEY MAP




LEGEND

- PHASE BOUNDARY
- SINGLE LOTS
- BACK-TO-BACK TOWNHOUSES
- STACKED TOWNHOUSES
- SEMIS AND/OR TOWNHOUSES
- APARTMENTS
- ROAD RIGHT OF WAY

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REVISIONS

| # | M/D/Y | BY | ISSUED FOR |
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| 1 | 05/20/25 | N.D | CLIENT |

DRAWING TITLE

## PHASING PLAN

SCALE 1:2000

SIZE ANSI D (22"X34")

DWG. NO. FIG 1

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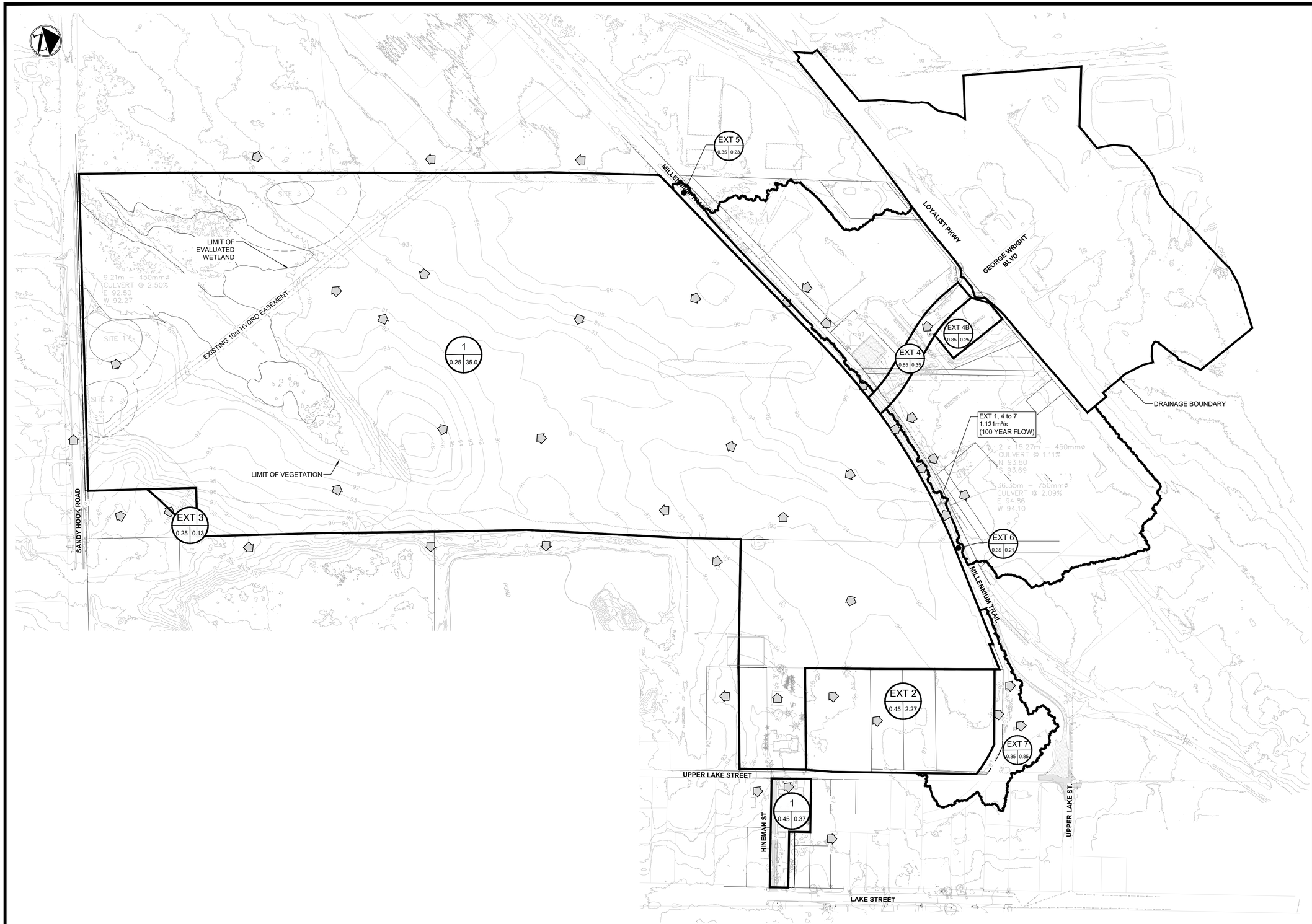


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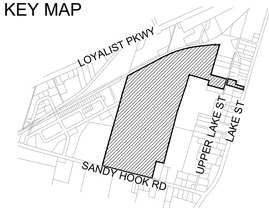
CLIENT

Port Picton HOMES

PROJECT 23-108

# COLD CREEK SUBDIVISION

KEY MAP




LEGEND

- DRAINAGE BOUNDARY
- EXISTING CONTOUR & ELEVATION
- EXISTING OVERLAND FLOW
- LIMIT OF VEGETATION
- EXISTING CULVERT
- ID (R / A) DRAINAGE ID RUNOFF COEFFICIENT / AREA

INSITE PROJECT CONSULTING INC.

DRAWN BY: No.DIONNE

DESIGNED BY: N.DIONNE, P.ENG

REVISIONS

| # | M/D/Y | BY | ISSUED FOR |
|---|---|---|---|
| | | | |
| | | | |
| 2 | 05/23/25 | N.D | PRE-SERVICING AGREEMENT |
| 1 | 03/2024 | N.D | ZONING & DRAFT PLAN APPROVAL |

DRAWING TITLE

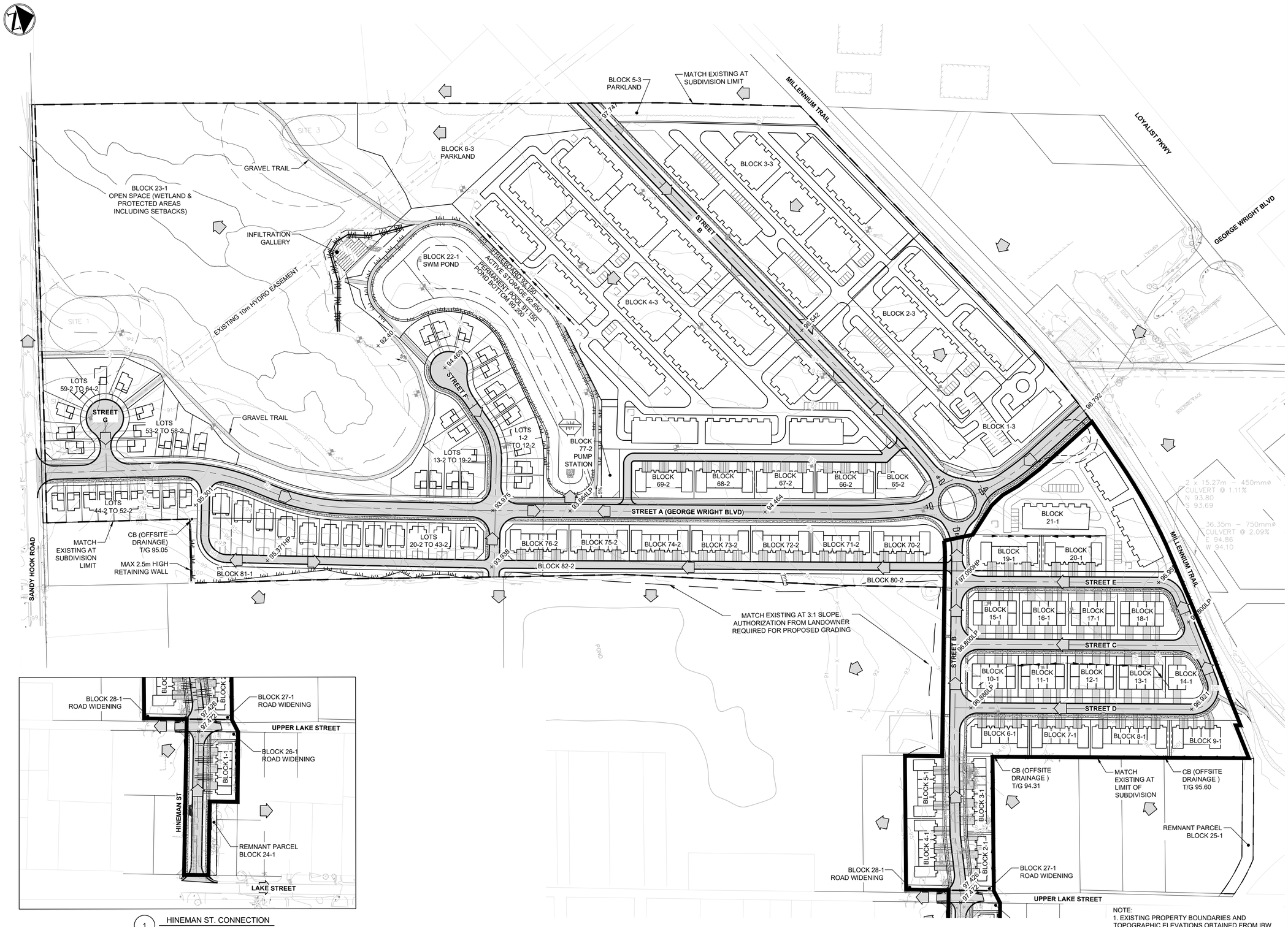
# PRE DEVELOPMENT DRAINAGE PLAN

SCALE 1:2000

SIZE ANSI D (22"X34")

DWG. NO.

**FIG 2**







1 HINEMAN ST. CONNECTION
SCALE: 1:1500

NOTE:
1. EXISTING PROPERTY BOUNDARIES AND TOPOGRAPHIC ELEVATIONS OBTAINED FROM IBW SURVEYORS.

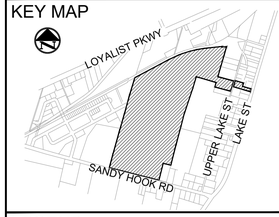
CLIENT

Port Picton HOMES

PROJECT 23-108

# COLD CREEK SUBDIVISION

KEY MAP




LEGEND

- SUBDIVISION BOUNDARY
- PHASE 1 BOUNDARY
- EXISTING CONTOUR & ELEVATION
- × 95.878 PROPOSED SPOT ELEVATION
- OVERLAND FLOW ROUTE

INSITE PROJECT CONSULTING INC.

DRAWN BY: D.YIN

DESIGNED BY: N.DIONNE, P.ENG

REVISIONS

| # | M/D/Y | BY | ISSUED FOR |
|---|---|---|---|
| | | | |
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| 2 | 05/23/25 | N.D | PRE-SERVICING AGREEMENT |
| 1 | 03/2024 | N.D | ZONING & DRAFT PLAN APPROVAL |

DRAWING TITLE

# PRELIMINARY GRADING

SCALE 1:1500

SIZE ANSI D (22"X34")

DWG. NO. FIG 3

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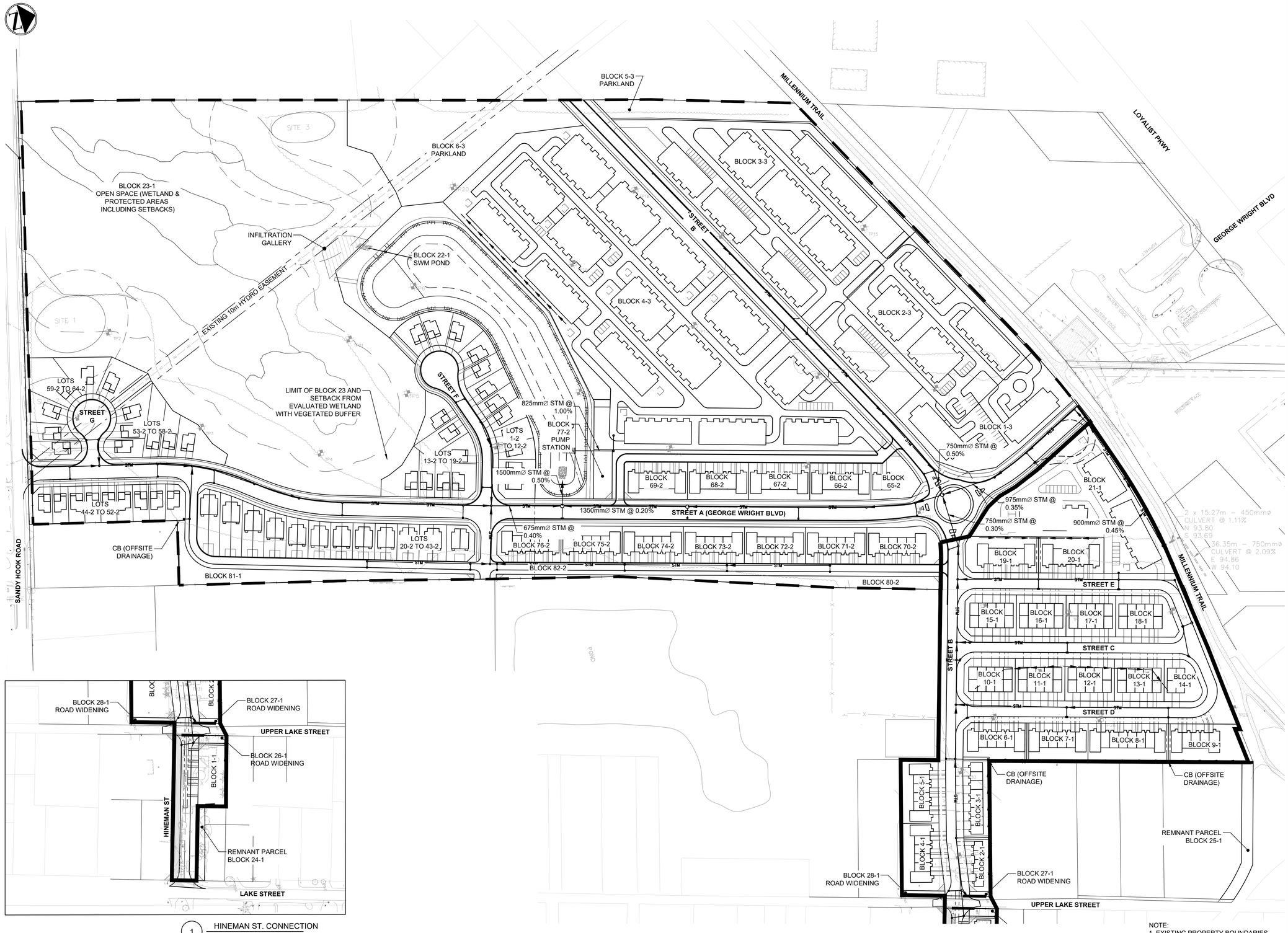






1 HINEMAN ST. CONNECTION
SCALE: 1:1500

NOTE:
1. EXISTING PROPERTY BOUNDARIES AND TOPOGRAPHIC ELEVATIONS OBTAINED FROM IBW SURVEYORS.

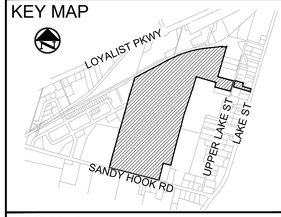
CLIENT

Port Picton HOMES

PROJECT 23-108

# COLD CREEK SUBDIVISION

KEY MAP




LEGEND

- SUBDIVISION BOUNDARY
- STM — PROPOSED STORM SEWER
- PROPOSED FLOW DIRECTION
- EXISTING CULVERT

INSITE PROJECT CONSULTING INC.

DRAWN BY: No.DIONNE
DESIGNED BY: N.DIONNE, P.ENG

REVISIONS

| # | M/D/Y | BY | ISSUED FOR |
|---|---|---|---|
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| | | | |
| 2 | 05/23/25 | N.D | PRE-SERVICING AGREEMENT |
| 1 | 03/2024 | N.D | ZONING & DRAFT PLAN APPROVAL |

DRAWING TITLE

## STORM TRUNKS

SCALE 1:1500
SIZE ANSI D (22"X34")
DWG. NO. FIG 4

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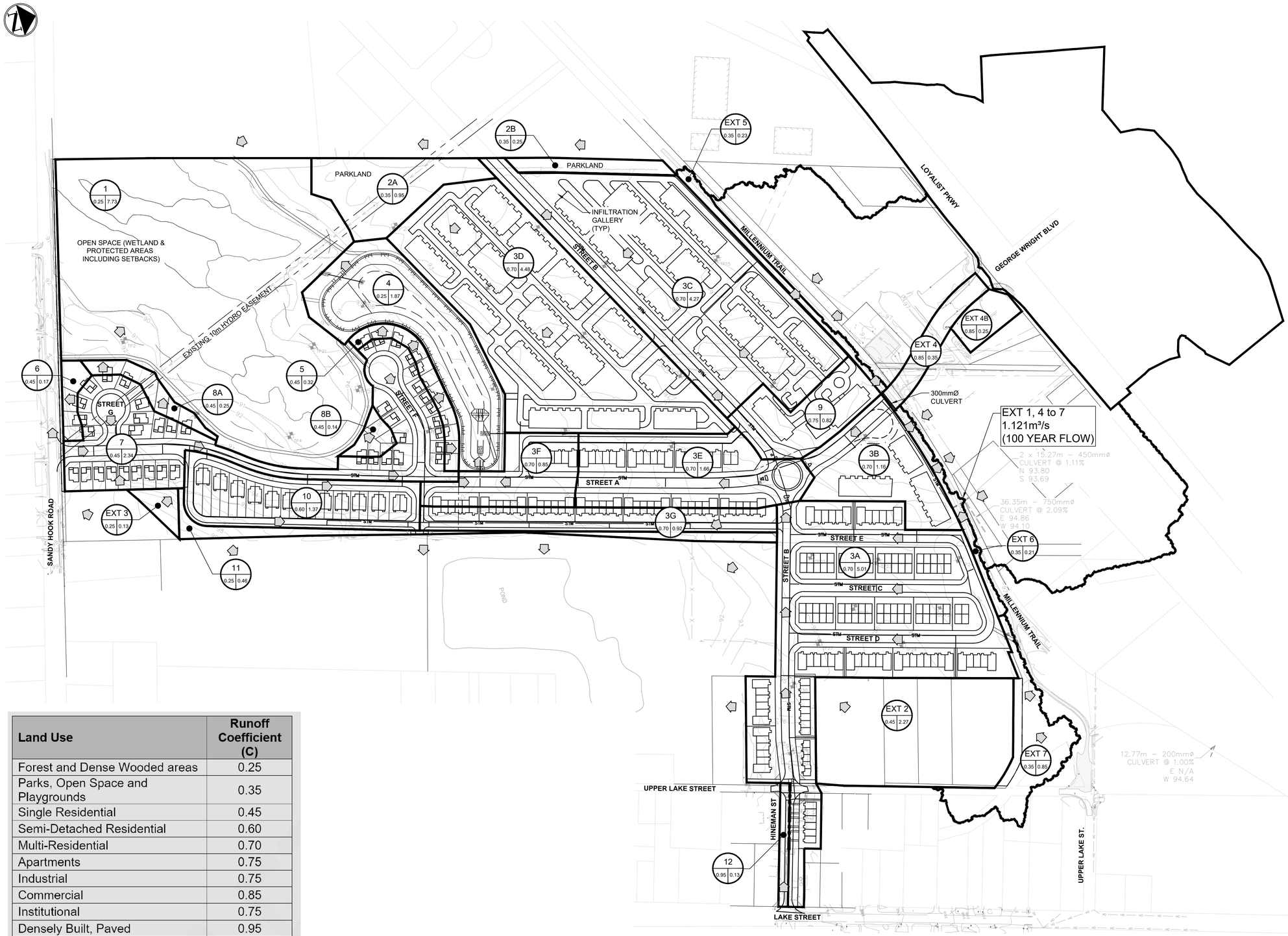



| Land Use | Runoff Coefficient (C) |
|---|---|
| Forest and Dense Wooded areas | 0.25 |
| Parks, Open Space and Playgrounds | 0.35 |
| Single Residential | 0.45 |
| Semi-Detached Residential | 0.60 |
| Multi-Residential | 0.70 |
| Apartments | 0.75 |
| Industrial | 0.75 |
| Commercial | 0.85 |
| Institutional | 0.75 |
| Densely Built, Paved | 0.95 |
| Asphalt, Concrete, Roof areas | 0.95 |

**Runoff Coefficients (C)**

NOTE:
1. EXISTING PROPERTY BOUNDARIES OBTAINED FROM IBW SURVEYORS.

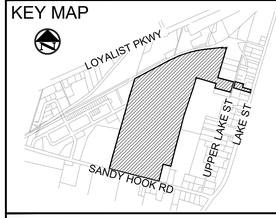
CLIENT

Port Picton HOMES

PROJECT 23-108

# COLD CREEK SUBDIVISION

KEY MAP




LEGEND

- DRAINAGE BOUNDARY
- 99 EXISTING CONTOUR & ELEVATION
- ID / R / A DRAINAGE ID RUNOFF COEFFICIENT / AREA
- PROPOSED OVERLAND FLOW
- EXISTING CULVERT

INSITE PROJECT CONSULTING INC.

DRAWN BY: No.DIONNE
DESIGNED BY: N.DIONNE, P.ENG

REVISIONS

| # | M/D/Y | BY | ISSUED FOR |
|---|---|---|---|
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| | | | |
| 2 | 05/23/25 | N.D | PRE-SERVICING AGREEMENT |
| 1 | 03/2024 | N.D | ZONING & DRAFT PLAN APPROVAL |

DRAWING TITLE

## POST DEVELOPMENT DRAINAGE

SCALE 1:2000
SIZE ANSI D (22"X34")
DWG. NO. FIG 5

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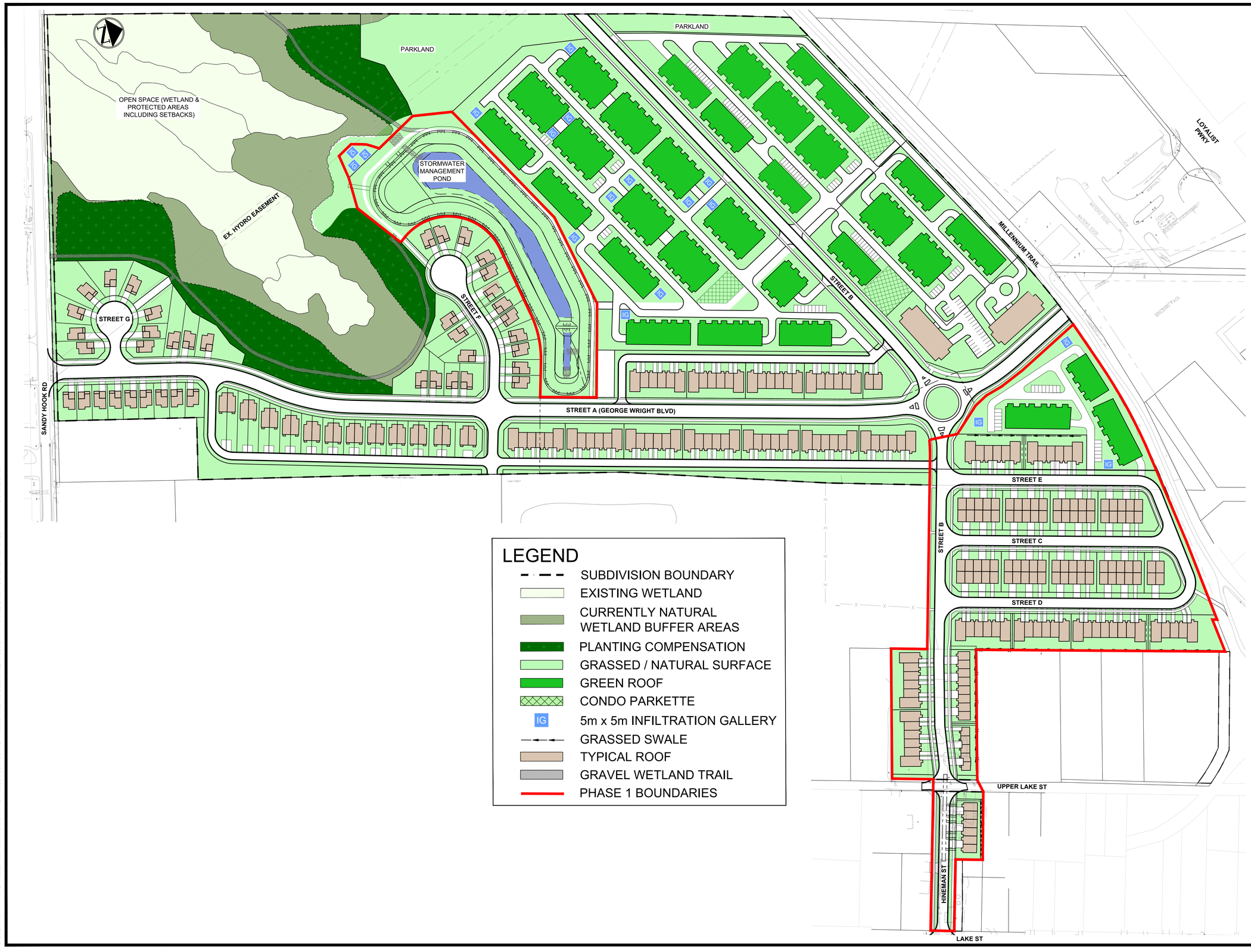



## LEGEND

- SUBDIVISION BOUNDARY
- EXISTING WETLAND
- CURRENTLY NATURAL WETLAND BUFFER AREAS
- PLANTING COMPENSATION
- GRASSED / NATURAL SURFACE
- GREEN ROOF
- CONDO PARKETTE
- IG — 5m x 5m INFILTRATION GALLERY
- GRASSED SWALE
- TYPICAL ROOF
- GRAVEL WETLAND TRAIL
- PHASE 1 BOUNDARIES

C:\USERS\NOAH\PINSITE PROJECT CONSULTING INC\INSITE PROJECT CONSULTING - PROJECTS\23-108 COLD CREEK SUBD\DRAWING FOLDER\03 FIGURES\23-108 - GREEN INFRASTRUCTURE.DWG

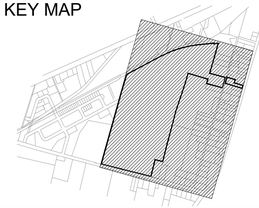
CLIENT

Port Picton HOMES

PROJECT 23-108

**COLD CREEK SUBDIVISION**

KEY MAP



LEGEND

INSITE PROJECT CONSULTING INC.

DRAWN BY: D.YIN

DESIGNED BY: N.DIONNE, P.ENG

REVISIONS

| # | M/D/Y | BY | ISSUED FOR |
|---|---|---|---|
| 1 | 05/23/25 | | PRE-SERVICING AGREEMENT |

DRAWING TITLE

**GREEN INFRASTRUCTURE AND LIDS**

SCALE **1:1500**

SIZE ANSI D (22"X34")

DWG. NO.

**FIG 6**

# APPENDIX A

Detailed SWM Pond & LID Analysis,

dated May 2025 prepared by JFSA

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jfsa.com

May 23, 2025 Project Number: 2528

INSITE Project Consulting Inc
72 Richardson Drive
Kingston, Ontario
K7M 2T1

**Attention:** **Nancy Dionne, P.Eng**

**Subject:** **Cold Creek: Detailed SWM Pond & LID Analysis**

# INTRODUCTION

This memo builds upon the JFSA Canada Inc. "Preliminary Design for Stormwater Management Pond in Cold Creek Subdivision Report" from March 2024. Since that report, INSITE Project Consulting has advanced the design of the stormwater management pond and provided JFSA with detailed stage-storage curves for the proposed SWM pond. This document incorporates these additional design details to ensure the latest design meets all regulatory requirements.

Additionally, a preliminary Low Impact Development (LID) analysis for the site has been completed. This analysis incorporates field infiltration testing conducted by BluMetric and utilizes detailed continuous hydrologic modelling to simulate the effectiveness of the proposed LIDs in restoring the groundwater recharge deficit produced by the increase in impervious surface and ultimately determines the minimum required LID storage volume for the site.

# SWM POND ANALYSIS

INSITE has provided JFSA with detailed stage-storage curves for the proposed SWM pond included in **Table A0 in Attachment A**. This curve has been incorporated into the post development hydrologic model developed as a part of the preliminary SWM analysis completed in March 2024. This model has also been updated to include the Visual-OTTHYMO model produced by The Odan Detech Group Inc. as a part of their November 2023, Proposed Retail Pads B & C 13311 Loyalist Parkway. (Hwy. #33) Report. **Figure A1 & A2 in Attachment A** provide an overview of the updated pre- and post-development drainage areas used in this analysis. Full modelling input and summary files have also been provided in **Attachment A.**

The SWM pond outlet structure has been sized to ensure that peak flows downstream of the site do not exceed pre-development rates for all return periods. **Table 1** below outlines these results, which show that post-development peak flow is less than pre-development conditions for all return periods.

Table 1: Pre- and Post-Development Peak Flow Downstream of Site

| Design Storm | Pre-Dev (95.24 ha) Peak Flow ($m^3/s$) | Post-Dev (98.92 ha) Peak Flow ($m^3/s$) | Peak Flow Difference ($m^3/s$) |
|---|---|---|---|
| 25mm 4Hr CHI | 0.191 | 0.154 | -0.037 |
| 2-Yr 4Hr CHI | 0.359 | 0.301 | -0.058 |
| 5-Yr 4Hr CHI | 0.611 | 0.565 | -0.046 |
| 10-Yr 4Hr CHI | 0.830 | 0.767 | -0.063 |
| 25-Yr 4Hr CHI | 1.110 | 1.025 | -0.085 |
| 50-Yr 4Hr CHI | 1.361 | 1.288 | -0.073 |
| 100-Yr 4Hr CHI | 1.611 | 1.568 | -0.043 |
| 2-Yr 12Hr SCS | 0.549 | 0.498 | -0.051 |
| 5-Yr 12Hr SCS | 0.968 | 0.880 | -0.088 |
| 10-Yr 12Hr SCS | 1.302 | 1.216 | -0.086 |
| 25-Yr 12Hr SCS | 1.747 | 1.682 | -0.065 |
| 50-Yr 12Hr SCS | 2.102 | 2.008 | -0.094 |
| 100-Yr 12Hr SCS | 2.483 | 2.315 | -0.168 |

**Table 2** outlines the peak flows into and out of the SWM pond, as well as the active storage volume used in the pond, including the peak water level for each event. Based on this analysis the maximum storage volume required in the SWM pond is **17,400 m³** which equates to a maximum water level in the pond of **92.79 m**, for the 100-Year SCS 12 hr event. This maximum water level ensures a freeboard greater than 0.30m from the top of the pond. Additional calculations regarding the required and provided permanent pool volume, as well as the drawdown time calculations and detailed outlet structure details, and forebay design checks have been provided in **Tables A0-A6 in Attachment A**. Based on this analysis it is concluded that the proposed SWM pond is in accordance with all regulatory requirements.

Table 2: SWM Pond Operational Summary

| Design Storm | Peak Inflow (47.41 ha) [2] ($m^3/s$) | Peak Outflow (47.41 ha) ($m^3/s$) | Storage Volume Used ($m^3$) | Pond Water Level (m) |
|---|---|---|---|---|
| 25mm 4Hr CHI | 1.359 | 0.078 | 3,992 | 91.61 |
| 2-Yr 4Hr CHI | 2.056 | 0.156 | 5,798 | 91.79 |
| 5-Yr 4Hr CHI | 3.045 | 0.305 | 7,610 | 91.97 |
| 10-Yr 4Hr CHI | 3.790 | 0.400 | 8,923 | 92.09 |
| 25-Yr 4Hr CHI | 4.820 | 0.534 | 10,700 | 92.25 |
| 50-Yr 4Hr CHI | 5.498 | 0.690 | 11,970 | 92.36 |
| 100-Yr 4Hr CHI | 6.319 | 0.847 | 13,160 | 92.46 |
| 2-Yr 12Hr SCS | 2.520 | 0.261 | 7,183 | 91.93 |
| 5-Yr 12Hr SCS | 3.850 | 0.444 | 9,734 | 92.16 |
| 10-Yr 12Hr SCS | 4.790 | 0.640 | 11,590 | 92.33 |
| 25-Yr 12Hr SCS | 6.098 | 0.893 | 13,750 | 92.51 |
| 50-Yr 12Hr SCS | 7.143 | 1.038 | 15,560 | 92.65 |
| 100-Yr 12Hr SCS | 8.048 | 1.159 | 17,400 | 92.79 |

[1] Analysis assumes free outlet conditions

[2] Total drainage area to the SWM Pond includes 18.73 ha of land north of the site above Millennium Trail that is conveyed to the SWM pond via a storm sewer pipe within the site (28.68 ha + 18.73 ha = 47.41 ha).

[3] Storage Volume Used refers to Active storage volume only.

[4] According to the BQRAP SWM Guidelines, the Regional Storm in the Quinte Conservation Authority jurisdiction is the 100-year storm.

# LID ANALYSIS

In May 2025, BluMetric Environmental Inc. conducted on-site soil infiltration testing using a Guelph permeameter. Field-saturated hydraulic conductivity (KFS) values were obtained for various locations across the site. JFSA subsequently converted these values to soil infiltration rates (mm/hr) based on Table C1 in Appendix C of the Credit Valley Conservation - *Low Impact Development Stormwater Management Planning and Design Guide*[1]. An inverse distance weighting interpolation was then applied to these points to generate an approximate soil infiltration rate map for the entire site. This map is presented in **Figure B1 in Attachment B**.

Due to the variation in measured soil infiltration rates across the site, a safety correction factor is applied to determine the design infiltration rate for the proposed Low Impact Development (LID) measures. This factor accounts for potential reductions in soil permeability over time and uncertainties in measurements. For this site, the safety factor is based on the ratio of the measured infiltration rate at the proposed bottom of the LID to the rate in the least permeable soil layer within 1.5 meters below. As per Table C2 in Appendix C of the CVC Low Impact Development Stormwater Management Planning and Design Guide, a safety factor of 3.5 was deemed appropriate for this analysis. The design infiltration rate is calculated by dividing the measured infiltration rate by the selected safety correction factor. **Figure B2 in Attachment B** illustrates the design infiltration rate map for the entire site. Since the exact locations of the LIDs for the full site have not yet been finalized, a spatially averaged design infiltration rate for the site was used in the analysis. Based on this analysis, the average design infiltration rate was determined to be **31 mm/hr**.

A continuous hydrologic model of the site under post-development conditions was developed to simulate annual runoff. The proposed condition model utilizes hourly rainfall data from the Kingston Airport (1982-2003) and the Kingston Climate Centre (2008-2024). The hourly rainfall data used is a heavily reviewed and vetted product from Environment Canada. It is important to note that this product includes only rainfall data and excludes any snowfall during this period. Additionally, for some years, the gauge was only operational for partial durations, and was not operational at all during 1995, 1996, 1997, 2000, 2001, 2004, 2006, 2007, 2011, and 2018. Despite these limitations, the model was run for 30 years using the available hourly rainfall data and is considered a reasonable representation of the site's runoff and the proposed LID measures' efficacy over the year.

BluMetric have completed a water budget analysis for the site under pre and post development conditions, which indicates that for Phase 1 without LIDs, there will be a deficit in annual infiltration volume of -48% compared to pre-development conditions. Under full build-out, the infiltration deficit will be -33% from pre-development conditions. To offset these deficits, produced by the impervious surfaces, LIDs are proposed for the site to capture and infiltrate this additional runoff. For the analysis, a conceptual LID unit with a depth of 0.8 m and a porosity of 0.4 was assumed. The area/volume of the LID was iteratively adjusted until the average percentage of the annual runoff volume captured and infiltrated by the LIDs exceeded the deficits outlined above. To maintain consistency with the analysis, it is expected that the final LID design will reflect these assumptions. Refer to INSITE's design for the precise shape and location of the proposed LIDs in each development phase. **Table B1 and B2** provide a full breakdown of the annual rainfall, runoff and infiltration volume for the site under Phase 1 and full build out, respectively. Full modelling input and summary files have also been provided in **Attachment B.**

[1] www.sustainabletechnologies.ca/app/uploads/2013/02/LID-SWM-Guide-v1.0_2010_4_Appendix-C_Site-Evaluation-and-Soil-Testing-Protocol.pdf

Based on this analysis it was determined that for Phase 1, at least **160 m³** of storage volume must be provided by LIDs to offset the infiltration deficit caused by impervious surfaces within the development. Under ultimate conditions (full build-out), the site will require at least **350 m³** of storage volume within LIDs to offset the deficit.

## CONCLUSION

Based on the detailed analysis incorporating updated stage-storage curves and hydrologic modelling, the proposed stormwater management pond design meets all regulatory requirements, ensuring post-development peak flows downstream do not exceed pre-development rates for all design storms. Furthermore, the Low Impact Development analysis, utilizing site-specific infiltration testing and continuous modelling, determined that a minimum of **160 m³** of LID storage is required for Phase 1, increasing to **350 m³** for full build-out, to effectively offset the groundwater recharge deficit caused by increased impervious surfaces.

Yours truly,
**JFSA Canada Inc.**

Paulo Pickart, B.Eng, P.Eng
Senior Water Resources Engineer

Jonathon Burnett, B.Eng, P.Eng
Senior Water Resources Engineer

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

**Tables**

Table 1: Pre- and Post-Development Peak Flow Downstream of Site
Table 2: SWM Pond Operational Summary

**Attachments**

Attachment A: SWM Pond Analysis
Attachment B: LID Analysis

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# Attachment A

SWM Pond Analysis

N

## Legend

Drainage Area
[Name]
[Area]

SCALE: 1:6000

0 100 200 m

JFSA CANADA INC.
WATER RESOURCE ENGINEERING, ENVIRONMENTAL MANAGEMENT AND LAND PLANNING CONSULTANTS

INSITE PROJECT CONSULTING INC.

Coldwater Creek Subdivision

Figure A1: Pre-Development Drainage Areas

| | |
|---|---|
| PROJECT | 2528-23 |
| DRAWN | JB |
| DATE | MAY 2025 |

C:\Users\JonathonBurnett\J.F. Sabourin and Associates Inc\JFSA-OTTAWA-SERVER - Documents\PROJ\2528-23\Design\GIS\20250414-Updated SWM Sizing Report

```
00001> 20    Metric units / ID numbers OFF
00002> *#*****************************************************************************
00003> *#  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *#*****************************************************************************
00005> *#  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00006> *#  Date         : 2023-10
00007> *#  Modeller     : [JB]
00008> *#  Updated             : 2025-04 [PP]
00009> *#  Company      : JFSA Ottawa
00010> *#  License #    : 2549237
00011> *#*****************************************************************************
00012> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[001]
00013>                     ["25mmBell.stm"] <--storm filename, one per line for NSTORM time
00014> *%-----------------|-------------------------------------------------------------|
00015> READ STORM          STORM_FILENAME=["STORM.001"]
00016> *%-----------------|-------------------------------------------------------------|
00017> ******************************************************************************
00018> * PRE-DEVELOPMENT CONDITIONS
00019> ******************************************************************************
00020> * Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
00021> * Improvements and New Urban Retail Development - In SWMHYMO
00022> *%-----------------|-------------------------------------------------------------|
00023> CALIB STANDHYD      NHYD=["HIGHWAY33"], DT=[1](min), AREA=[8.39](ha), XIMP=[0.76], TIMP=[0.86], DWF=[0.](cms),
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00025>                     Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
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00032>                                     (cms) - (ha-m)
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00037>                                   [  0.33   ,  0.31066   ]
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00041>                                   [  0.51   ,  0.3687   ]
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00045> *%-----------------|-------------------------------------------------------------|
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00047> *%-----------------|-------------------------------------------------------------|
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00049>                     CHLGTH=[  327     ](m),  CHSLOPE=[  0.92 ](%), FPSLOPE=[  0.92 ](%),
00050>                     SECNUM=[ 1  ],       NSEG=[ 3   ]
00051>                     ( SEGROUGH, SEGDIST (m))=[ 0.05, 6.1, 0.035,10.17, 0.05,16.27] NSEG times
00052>                     ( DISTANCE (m), ELEVATION (m))=[
00053>                                                 0 , 97.75
00054>                                                 3.56 , 97.67
00055>                                                 6.1 , 97.65
00056>                                                 7.63 , 97.08
00057>                                                 8.13 , 96.85
00058>                                                 8.64 , 96.8
00059>                                                 9.15 , 96.89
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00061>                                                 10.17 , 97.23
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00069> *%-----------------|-------------------------------------------------------------|
00070> *#*****************************************************************************
00071> *# Replication of the OTTHYMO model for the Choice Properties REIT
00072> *# development as per the November 2023 'Proposed Retails Pads B & C
00073> *# 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00074> *# Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00075> *# Notes:
00076> *# - DT changed from 5 min to 1 min
00077> *# - Reservoir Overflows added to the downstream node for all reservoirs
00078> *#*****************************************************************************
00079> *# 0003
00080> *#*****************************************************************************
00081> CALIB STANDHYD      NHYD=["0003"], DT=[1](min), AREA=[0.24](ha), XIMP=[0.90], TIMP=[0.90], DWF=[0.](cms),
00082>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00083>                     Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00084>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[40](m), MNI=[0.013], SCI=[0](min),
00085>                     RAINFALL=[ ,  ,  -1](mm/hr)
00086> *#*****************************************************************************
00087> *# 0002
00088> *#*****************************************************************************
00089> CALIB STANDHYD      NHYD=["0002"], DT=[1](min), AREA=[0.07](ha), XIMP=[0.99], TIMP=[0.99], DWF=[0.](cms),
00090>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00091>                     Pervious   areas: IAper=[1](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00092>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[21.6](m), MNI=[0.013], SCI=[0](min),
```

```
00093>                    RAINFALL=[ ,  ,  -1](mm/hr)
00094> *#*************************************************************************
00095> *# 0001
00096> *#*************************************************************************
00097> CALIB STANDHYD      NHYD=["0001"], DT=[1](min), AREA=[0.93](ha), XIMP=[0.85], TIMP=[0.85], DWF=[0.](cms),
00098>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00099>                    Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00100>                    Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[78.7](m), MNI=[0.013], SCI=[0](min),
00101>                    RAINFALL=[ ,  ,  -1](mm/hr)
00102> *#*************************************************************************
00103> *# 0006
00104> *#*************************************************************************
00105> CALIB STANDHYD      NHYD=["0006"], DT=[1](min), AREA=[0.24](ha), XIMP=[0.99], TIMP=[0.99], DWF=[0.](cms),
00106>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00107>                    Pervious   areas: IAper=[1](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00108>                    Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[40](m), MNI=[0.013], SCI=[0](min),
00109>                    RAINFALL=[ ,  ,  -1](mm/hr)
00110> *#*************************************************************************
00111> *# 0007
00112> *#*************************************************************************
00113> CALIB STANDHYD      NHYD=["0007"], DT=[1](min), AREA=[0.38](ha), XIMP=[0.90], TIMP=[0.90], DWF=[0.](cms),
00114>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00115>                    Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00116>                    Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[50.3](m), MNI=[0.013], SCI=[0](min),
00117>                    RAINFALL=[ ,  ,  -1](mm/hr)
00118> *#*************************************************************************
00119> *# 0044
00120> *#*************************************************************************
00121> CALIB STANDHYD      NHYD=["0044"], DT=[1](min), AREA=[0.54](ha), XIMP=[0.95], TIMP=[0.95], DWF=[0.](cms),
00122>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00123>                    Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00124>                    Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[60](m), MNI=[0.013], SCI=[0](min),
00125>                    RAINFALL=[ ,  ,  -1](mm/hr)
00126> *#*************************************************************************
00127> *# 0005
00128> *#*************************************************************************
00129> CALIB STANDHYD      NHYD=["0005"], DT=[1](min), AREA=[0.16](ha), XIMP=[0.99], TIMP=[0.99], DWF=[0.](cms),
00130>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00131>                    Pervious   areas: IAper=[1](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00132>                    Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[32.7](m), MNI=[0.013], SCI=[0](min),
00133>                    RAINFALL=[ ,  ,  -1](mm/hr)
00134> *#*************************************************************************
00135> ROUTE RESERVOIR     NHYDout=["0111"] ,NHYDin=["0002"] ,
00136>                    RDT=[1](min),
00137>                          TABLE of ( OUTFLOW-STORAGE ) values
00138>                                    (cms) - (ha-m)
00139>                                  [ 0        ,  0      ]
00140>                                  [ 0.0015   ,  0.0012 ]
00141>                                  [ 0.0030   ,  0.0023 ]
00142>                                  [ 0.0045   ,  0.0029 ]
00143>                                  [ 0.0060   ,  0.0035 ]
00144>                                  [  -1      ,  -1     ]
00145>                          NHYDovf=["0111ovf"] ,
00146> *%-----------------|-------------------------------------------------------|
00147> ADD HYD             NHYDsum=["0101"], NHYDs to add=["0111"+"0001"+"0111ovf"]
00148> *%-----------------|-------------------------------------------------------|
00149> ROUTE RESERVOIR     NHYDout=["0102"] ,NHYDin=["0006"] ,
00150>                    RDT=[1](min),
00151>                          TABLE of ( OUTFLOW-STORAGE ) values
00152>                                    (cms) - (ha-m)
00153>                                  [ 0        ,  0      ]
00154>                                  [ 0.0019   ,  0.0061 ]
00155>                                  [ 0.0041   ,  0.0122 ]
00156>                                  [ 0.0061   ,  0.0182 ]
00157>                                  [ 0.0085   ,  0.0243 ]
00158>                                  [  -1      ,  -1     ]
00159>                          NHYDovf=["0102ovf"] ,
00160> *%-----------------|-------------------------------------------------------|
00161> ADD HYD             NHYDsum=["0106"], NHYDs to add=["0007"+"0044"]
00162> *%-----------------|-------------------------------------------------------|
00163> ROUTE RESERVOIR     NHYDout=["0108"] ,NHYDin=["0005"] ,
00164>                    RDT=[1](min),
00165>                          TABLE of ( OUTFLOW-STORAGE ) values
00166>                                    (cms) - (ha-m)
00167>                                  [ 0        ,  0      ]
00168>                                  [ 0.0019   ,  0.0061 ]
00169>                                  [ 0.0041   ,  0.0122 ]
00170>                                  [ 0.0061   ,  0.0182 ]
00171>                                  [ 0.0085   ,  0.0243 ]
00172>                                  [  -1      ,  -1     ]
00173>                          NHYDovf=["0108ovf"] ,
00174> *%-----------------|-------------------------------------------------------|
00175> ROUTE RESERVOIR     NHYDout=["0100"] ,NHYDin=["0101"] ,
00176>                    RDT=[1](min),
00177>                          TABLE of ( OUTFLOW-STORAGE ) values
00178>                                    (cms) - (ha-m)
00179>                                  [ 0        ,  0      ]
00180>                                  [ 0.0570   ,  0.0010 ]
00181>                                  [ 0.0590   ,  0.0100 ]
00182>                                  [ 0.0600   ,  0.0200 ]
00183>                                  [ 0.0630   ,  0.0364 ]
00184>                                  [  -1      ,  -1     ]
```

```
00185>                          NHYDovf=["0100ovf"] ,
00186> *%-----------------|-------------------------------------------------------|
00187> ADD HYD             NHYDsum=["0103"], NHYDs to add=["0100"+"0102"+"0100ovf"+"0102ovf"]
00188> *%-----------------|-------------------------------------------------------|
00189> ADD HYD             NHYDsum=["0107"], NHYDs to add=["0106"+"0108"+"0108ovf"]
00190> *%-----------------|-------------------------------------------------------|
00191> ADD HYD             NHYDsum=["0104"], NHYDs to add=["0003"+"0103"]
00192> *%-----------------|-------------------------------------------------------|
00193> ROUTE RESERVOIR     NHYDout=["0109"] ,NHYDin=["0107"] ,
00194>                     RDT=[1](min),
00195>                          TABLE of ( OUTFLOW-STORAGE ) values
00196>                                    (cms) - (ha-m)
00197>                                [ 0        ,  0      ]
00198>                                [ 0.0001   ,  0.0100 ]
00199>                                [ 0.0002   ,  0.0244 ]
00200>                                [ 0.0003   ,  0.0250 ]
00201>                                [ 0.0004   ,  0.0300 ]
00202>                                [ 0.0005   ,  0.0350 ]
00203>                                [ 0.1000   ,  0.0400 ]
00204>                                [  -1      ,  -1     ]
00205>                          NHYDovf=["0109ovf"] ,
00206> *%-----------------|-------------------------------------------------------|
00207> ROUTE RESERVOIR     NHYDout=["0105"] ,NHYDin=["0104"] ,
00208>                     RDT=[1](min),
00209>                          TABLE of ( OUTFLOW-STORAGE ) values
00210>                                    (cms) - (ha-m)
00211>                                [ 0        ,  0      ]
00212>                                [ 0.0001   ,  0.0100 ]
00213>                                [ 0.0002   ,  0.0272 ]
00214>                                [ 0.0003   ,  0.0300 ]
00215>                                [ 0.0004   ,  0.0325 ]
00216>                                [ 0.0005   ,  0.0350 ]
00217>                                [ 0.0006   ,  0.0375 ]
00218>                                [ 0.1000   ,  0.0400 ]
00219>                                [  -1      ,  -1     ]
00220>                          NHYDovf=["0105ovf"] ,
00221> *%-----------------|-------------------------------------------------------|
00222> ADD HYD             NHYDsum=["0110"], NHYDs to add=["0105"+"0109"+"0105ovf"+"0109ovf"]
00223> *%-----------------|-------------------------------------------------------|
00224> ***************************************************************************
00225> *# End of the replicated OTTHYMO model
00226> *#*************************************************************************
00227> *%-----------------|-------------------------------------------------------|
00228> CALIB NASHYD        NHYD=["A-03"], DT=[1]min, AREA=[6.555](ha),
00229>                     DWF=[0](cms),  CN/C=[80], IA=[4.67](mm),
00230>                     N=[3], TP=[0.56]hrs,
00231>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00232> *%-----------------|-------------------------------------------------------|
00233> ADD HYD             NHYDsum=["Node_2"], NHYDs to add=["A-03", "Node_1R", "0110"]
00234> *%-----------------|-------------------------------------------------------|
00235> ROUTE CHANNEL       NHYDout=["Node_2R"], NHYDin=["Node_2"],  RDT=[1](min),
00236>                     CHLGTH=[  648     ](m),  CHSLOPE=[  0.51 ](%), FPSLOPE=[  0.51 ](%),
00237>                     SECNUM=[ 1  ],       NSEG=[ 3   ]
00238>                     ( SEGROUGH, SEGDIST (m))=[ 0.05,30.09, 0.035,40.88, 0.05,55.07] NSEG times
00239>                     ( DISTANCE (m), ELEVATION (m))=[ 20.44 , 94.02
00240>                                                      25.55 , 93.58
00241>                                                      30.09 , 93.21
00242>                                                      35.2 , 93.19
00243>                                                      35.77 , 93.11
00244>                                                      36.9 , 93.08
00245>                                                      37.47 , 93.15
00246>                                                      38.6 , 93.15
00247>                                                      39.74 , 93.25
00248>                                                      40.88 , 93.29
00249>                                                      45.42 , 93.44
00250>                                                      50.53 , 93.75
00251>                                                      55.07 , 94.13]
00252> *%-----------------|-------------------------------------------------------|
00253> CALIB NASHYD        NHYD=["A-05"], DT=[1]min, AREA=[12.264](ha),
00254>                     DWF=[0](cms),  CN/C=[64], IA=[4.67](mm),
00255>                     N=[3], TP=[1.51]hrs,
00256>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00257> *%-----------------|-------------------------------------------------------|
00258> CALIB NASHYD        NHYD=["A-07"], DT=[1]min, AREA=[4.091](ha),
00259>                     DWF=[0](cms),  CN/C=[48], IA=[4.67](mm),
00260>                     N=[3], TP=[0.90]hrs,
00261>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00262> *%-----------------|-------------------------------------------------------|
00263> ADD HYD             NHYDsum=["Node_3"], NHYDs to add=["Node_2R","A-05", "A-07"]
00264> *%-----------------|-------------------------------------------------------|
00265> SAVE HYD            NHYD=["Node_3"],  # OF PCYCLES=[-1],  ICASEsh=[1]
00266>                     HYD_COMMENT=["Future Pond Outflow"]
00267> *%-----------------|-------------------------------------------------------|
00268> ROUTE CHANNEL       NHYDout=["Node_3R"], NHYDin=["Node_3"],  RDT=[1](min),
00269>                     CHLGTH=[  907     ](m),  CHSLOPE=[  0.22 ](%), FPSLOPE=[  0.22 ](%),
00270>                     SECNUM=[ 1  ],       NSEG=[ 3   ]
00271>                     ( SEGROUGH, SEGDIST (m))=[ 0.05,40.41, 0.035,60.28, 0.05,80.82] NSEG times
00272>                     ( DISTANCE (m), ELEVATION (m))=[ 25.17 , 91.67
00273>                                                      30.47 , 91.35
00274>                                                      35.77 , 91
00275>                                                      40.41 , 90.8
00276>                                                      45.71 , 90.71
```

```
00277>                                                  50.34 , 90.57
00278>                                                  55.64 , 90.58
00279>                                                  60.28 , 90.75
00280>                                                  65.58 , 90.83
00281>                                                  70.22 , 91.12
00282>                                                  75.52 , 91.39
00283>                                                  80.82 , 91.57]
00284> *%-----------------|-------------------------------------------------------|
00285> CALIB NASHYD        NHYD=["A-08"], DT=[1]min, AREA=[7.641](ha),
00286>                     DWF=[0](cms),  CN/C=[50], IA=[4.67](mm),
00287>                     N=[3], TP=[1.36]hrs,
00288>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00289> *%-----------------|-------------------------------------------------------|
00290> CALIB NASHYD        NHYD=["A-09"], DT=[1]min, AREA=[8.037](ha),
00291>                     DWF=[0](cms),  CN/C=[49], IA=[4.67](mm),
00292>                     N=[3], TP=[1.32]hrs,
00293>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00294> *%-----------------|-------------------------------------------------------|
00295> CALIB NASHYD        NHYD=["A-12"], DT=[1]min, AREA=[11.725](ha),
00296>                     DWF=[0](cms),  CN/C=[52], IA=[4.67](mm),
00297>                     N=[3], TP=[1.10]hrs,
00298>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00299> *%-----------------|-------------------------------------------------------|
00300> *#West Branch
00301> CALIB NASHYD        NHYD=["A-04"], DT=[1]min, AREA=[18.631](ha),
00302>                     DWF=[0](cms),  CN/C=[69], IA=[4.67](mm),
00303>                     N=[3], TP=[1.47]hrs,
00304>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00305> *%-----------------|-------------------------------------------------------|
00306> CALIB NASHYD        NHYD=["A-10"], DT=[1]min, AREA=[7.418](ha),
00307>                     DWF=[0](cms),  CN/C=[57], IA=[4.67](mm),
00308>                     N=[3], TP=[1.51]hrs,
00309>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00310> *%-----------------|-------------------------------------------------------|
00311> ADD HYD             NHYDsum=["Node_4"], NHYDs to add=["A-04", "A-10"]
00312> *%-----------------|-------------------------------------------------------|
00313> ROUTE CHANNEL       NHYDout=["Node_4R"], NHYDin=["Node_4"],  RDT=[1](min),
00314>                     CHLGTH=[  473.935     ](m),  CHSLOPE=[  0.66 ](%), FPSLOPE=[  0.99 ](%),
00315>                     SECNUM=[ 1  ],       NSEG=[ 3   ]
00316>                     ( SEGROUGH, SEGDIST (m))=[ 0.05,5, 0.035,6, 0.05,10] NSEG times
00317>                     ( DISTANCE (m), ELEVATION (m))=[ 0, 10
00318>                                                      5, 5
00319>                                                      6, 5
00320>                                                      10, 10]
00321> *%-----------------|-------------------------------------------------------|
00322> CALIB NASHYD        NHYD=["A-11"], DT=[1]min, AREA=[7.925](ha),
00323>                     DWF=[0](cms),  CN/C=[63], IA=[4.67](mm),
00324>                     N=[3], TP=[0.99]hrs,
00325>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00326> *%-----------------|-------------------------------------------------------|
00327> ADD HYD             NHYDsum=["Outlet"], NHYDs to add=["Node_3R", "A-09", "A-08", "A-11", "A-12", "Node_4R"]
00328> *%-----------------|-------------------------------------------------------|
00329> SAVE HYD            NHYD=["Outlet"],  # OF PCYCLES=[-1],  ICASEsh=[1]
00330>                     HYD_COMMENT=["Total Outflows to Sandy Hook Road"]
00331> *%-----------------|-------------------------------------------------------|
00332> ********************************************************************************
00333> * 4 hr CHICAGO DESIGN STORMS - Derived from Belleville Gauge IDF
00334> ********************************************************************************
00335> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[002]
00336>                     ["2Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00337> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[005]
00338>                     ["5Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00339> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[010]
00340>                     ["10Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00341> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[025]
00342>                     ["25Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00343> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[050]
00344>                     ["50Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00345> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[099]
00346>                     ["100Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00347> ********************************************************************************
00348> * 12 hr SCS DESIGN STORMS - Derived from Belleville Gauge IDF
00349> ********************************************************************************
00350> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[102]
00351>                     ["2Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00352> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[105]
00353>                     ["5Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00354> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[110]
00355>                     ["10Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00356> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[125]
00357>                     ["25Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00358> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[150]
00359>                     ["50Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00360> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[199]
00361>                     ["100Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00362> ********************************************************************************
00363> * 24 hr SCS DESIGN STORMS - Derived from Belleville Gauge IDF
00364> ********************************************************************************
00365> *START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[202]
00366> *                    ["2Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00367> *START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[205]
00368> *                    ["5Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
```

```
00369> *START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[210]
00370> *                    ["10Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00371> *START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[225]
00372> *                    ["25Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00373> *START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[250]
00374> *                    ["50Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00375> *START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[299]
00376> *                    ["100Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00377> *%-----------------|-------------------------------------------------------------------------------------------------------|
00378> *START               TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[999]
00379> *                   ["Timmins.stm"]
00380> *%-----------------|-------------------------------------------------------------------------------------------------------|
00381> FINISH
```

```
00001>  ================================================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222     000    11   5555   =========
00004>  S       W W W   MM MM   H   H    Y Y    MM MM   O   O          2     0   0   11   5
00005>  SSSSS   W W W   M M M   HHHHH     Y     M M M   O   O          2     0   0   11   5      Ver 5.500
00006>      S    W W    M   M   H   H     Y     M   M   O   O        222     0   0   11   555    FEB  2015
00007>  SSSSS    W W    M   M   H   H     Y     M   M    OOO         2       0   0   11      5   =========
00008>                                                               2       0   0   11      5   # 2549237
00009>        StormWater Management HYdrologic Model                  222     000    11   555    =========
00010>
00011>  ************************************************************************************************
00012>  ************************************  SWMHYMO Ver 5.500  *************************************
00013>  ******************  A single event and continuous hydrologic simulation model  ******************
00014>  ******************     based on the principles of HYMO and its successors      ******************
00015>  ******************                  OTTHYMO-83 and OTTHYMO-89.                  ******************
00016>  ************************************************************************************************
00017>  ****************** Distributed by:  J.F. Sabourin and Associates Inc.          ******************
00018>  ******************                   Ottawa,  Ontario: (613) 836-3884           ******************
00019>  ******************                   Gatineau, Quebec: (819) 243-6858           ******************
00020>  ******************                   E-Mail: swmhymo@jfsa.Com                   ******************
00021>  ************************************************************************************************
00022>
00023>  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024>  ++++++++++++++++++ Licensed user: JFSAinc.                                    ++++++++++++++++++
00025>  ++++++++++++++++++                Ottawa               SERIAL#:2549237       ++++++++++++++++++
00026>  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028>  ************************************************************************************************
00029>  ******************           ++++++ PROGRAM ARRAY DIMENSIONS ++++++            ******************
00030>  ******************           Maximum value for ID numbers  :     11            ******************
00031>  ******************           Max. number of rainfall points: 105408            ******************
00032>  ******************           Max. number of flow points    : 105408            ******************
00033>  ************************************************************************************************
00034>
00035>
00036>  *******************************   S U M M A R Y   O U T P U T   *******************************
00037>  ************************************************************************************************
00038>  *                RUN DATE: 2025-04-11     TIME: 17:11:47     RUN COUNTER: 012662                *
00039>  ************************************************************************************************
00040>  * Input   file: C:\Temp\SWMHYMO\Pre-Dev\SWMEAD-Ex_v03.0.dat                                     *
00041>  * Output  file: C:\Temp\SWMHYMO\Pre-Dev\SWMEAD-Ex_v03.0.out                                     *
00042>  * Summary file: C:\Temp\SWMHYMO\Pre-Dev\SWMEAD-Ex_v03.0.sum                                     *
00043>  * User comments:                                                                               *
00044>  * 1:_____________________________________________________________________________________________*
00045>  * 2:_____________________________________________________________________________________________*
00046>  * 3:_____________________________________________________________________________________________*
00047>  ************************************************************************************************
00048>
00049>
00050> #*****************************************************************************
00051> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00052> #*****************************************************************************
00053> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00054> #  Date        : 2023-10
00055> #  Modeller    : [JB]
00056> #  Updated             : 2025-04 [PP]
00057> #  Company     : JFSA Ottawa
00058> #  License #   : 2549237
00059> #*****************************************************************************
00060>  RUN#:COMMAND#
00061> R0001:C00001-------------------------------------------------------------------------------------
00062>      START
00063>       [TZERO =    .00 hrs on        0]
00064>       [METOUT=   2    (1=imperial, 2=metric output)]
00065>       [NSTORM=   1 ]
00066>       [NRUN  = 0001 ]
00067> R0001:C00002-------------------------------------------------------------------------------------
00068>      READ STORM
00069>       Filename = STORM.001
00070>       Comment  = 25mm (based off 2-Yr 4-hr Chicago - Belleville Station)
00071>       [SDT=10.00:SDUR=   4.00:PTOT=  25.00]
00072> R0001:C00003-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00073>     CALIB STANDHYD       1.0 01:HIGHWAY33      8.39     .727 No_date    1:22   18.74 .750     .000
00074>       [XIMP=.76:TIMP=.86]
00075>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00076>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00077>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00078> R0001:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00079>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39     .727 No_date    1:22   18.74  n/a     .000
00080>                  out <=    1.0 01:NodeB          8.39     .074 No_date    2:18   18.74  n/a     .000
00081>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00082>      {MxStoUsed=.1059E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00083> R0001:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00084>     ADD HYD              1.0 02:NodeB          8.39     .074 No_date    2:18   18.74  n/a     .000
00085>                    +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00086>                  SUM=    1.0 01:Node_1         8.39     .074 No_date    2:18   18.74  n/a     .000
00087> R0001:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00088>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .074 No_date    2:18   18.74  n/a     .000
00089>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .074 No_date    2:29   18.74  n/a     .000
00090>       [L/S/n=  327./ .920/.035]
00091>       {Vmax=  .552:Dmax=  .149}
00092> #*****************************************************************************
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00093> # Replication of the OTTHYMO model for the Choice Properties REIT
00094> # development as per the November 2023 'Proposed Retails Pads B & C
00095> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00096> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00097> # Notes:
00098> # - DT changed from 5 min to 1 min
00099> # - Reservoir Overflows added to the downstream node for all reservoirs
00100> #*****************************************************************************
00101> # 0003
00102> #*****************************************************************************
00103> R0001:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00104>     CALIB STANDHYD        1.0 01:0003           .24     .030 No_date    1:20   21.60 .864     .000
00105>       [XIMP=.90:TIMP=.90]
00106>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00107>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00108>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00109> #*****************************************************************************
00110> # 0002
00111> #*****************************************************************************
00112> R0001:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00113>     CALIB STANDHYD        1.0 01:0002           .07     .010 No_date    1:20   23.75 .950     .000
00114>       [XIMP=.99:TIMP=.99]
00115>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00116>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00117>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00118> #*****************************************************************************
00119> # 0001
00120> #*****************************************************************************
00121> R0001:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00122>     CALIB STANDHYD        1.0 01:0001           .93     .107 No_date    1:20   20.40 .816     .000
00123>       [XIMP=.85:TIMP=.85]
00124>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00125>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00126>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00127> #*****************************************************************************
00128> # 0006
00129> #*****************************************************************************
00130> R0001:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00131>     CALIB STANDHYD        1.0 01:0006           .24     .033 No_date    1:20   23.76 .951     .000
00132>       [XIMP=.99:TIMP=.99]
00133>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00134>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00135>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00136> #*****************************************************************************
00137> # 0007
00138> #*****************************************************************************
00139> R0001:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00140>     CALIB STANDHYD        1.0 01:0007           .38     .048 No_date    1:20   21.60 .864     .000
00141>       [XIMP=.90:TIMP=.90]
00142>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00143>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00144>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00145> #*****************************************************************************
00146> # 0044
00147> #*****************************************************************************
00148> R0001:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00149>     CALIB STANDHYD        1.0 01:0044           .54     .071 No_date    1:20   22.80 .912     .000
00150>       [XIMP=.95:TIMP=.95]
00151>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00152>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00153>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00154> #*****************************************************************************
00155> # 0005
00156> #*****************************************************************************
00157> R0001:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00158>     CALIB STANDHYD        1.0 01:0005           .16     .022 No_date    1:20   23.76 .951     .000
00159>       [XIMP=.99:TIMP=.99]
00160>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00161>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00162>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00163> #*****************************************************************************
00164> R0001:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00165>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .010 No_date    1:20   23.75  n/a     .000
00166>                  out <=   1.0 01:0111           .07     .001 No_date    1:50   23.75  n/a     .000
00167>              overflow <=  1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00168>      {MxStoUsed=.9843E-03  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00169> R0001:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00170>     ADD HYD               1.0 02:0111           .07     .001 No_date    1:50   23.75  n/a     .000
00171>                       +   1.0 02:0001           .93     .107 No_date    1:20   20.40  n/a     .000
00172>                       +   1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00173>                    SUM=   1.0 01:0101          1.00     .108 No_date    1:20   20.64  n/a     .000
00174> R0001:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00175>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .033 No_date    1:20   23.76  n/a     .000
00176>                  out <=   1.0 01:0102           .24     .001 No_date    3:11   23.76  n/a     .000
00177>              overflow <=  1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
00178>      {MxStoUsed=.4437E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00179> R0001:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00180>     ADD HYD               1.0 02:0007           .38     .048 No_date    1:20   21.60  n/a     .000
00181>                       +   1.0 02:0044           .54     .071 No_date    1:20   22.80  n/a     .000
00182>                    SUM=   1.0 01:0106           .92     .119 No_date    1:20   22.30  n/a     .000
00183> R0001:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00184>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .022 No_date    1:20   23.76  n/a     .000
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00185>                out <=    1.0 01:0108           .16     .001 No_date    3:11   23.76  n/a     .000
00186>           overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
00187>      {MxStoUsed=.2958E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00188> R0001:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00189>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .108 No_date    1:20   20.64  n/a     .000
00190>                out <=    1.0 01:0100          1.00     .057 No_date    1:25   20.64  n/a     .000
00191>           overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
00192>      {MxStoUsed=.3195E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00193> R0001:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00194>     ADD HYD               1.0 02:0100          1.00     .057 No_date    1:25   20.64  n/a     .000
00195>                       +     1.0 02:0102           .24     .001 No_date    3:11   23.76  n/a     .000
00196>                       +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
00197>                       +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
00198>                    SUM=     1.0 01:0103          1.24     .058 No_date    1:30   21.24  n/a     .000
00199> R0001:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00200>     ADD HYD               1.0 02:0106           .92     .119 No_date    1:20   22.30  n/a     .000
00201>                       +     1.0 02:0108           .16     .001 No_date    3:11   23.76  n/a     .000
00202>                       +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
00203>                    SUM=     1.0 01:0107          1.08     .119 No_date    1:20   22.52  n/a     .000
00204> R0001:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00205>     ADD HYD               1.0 02:0003           .24     .030 No_date    1:20   21.60  n/a     .000
00206>                       +     1.0 02:0103          1.24     .058 No_date    1:30   21.24  n/a     .000
00207>                    SUM=     1.0 01:0104          1.48     .088 No_date    1:20   21.30  n/a     .000
00208> R0001:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00209>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .119 No_date    1:20   22.52  n/a     .000
00210>                out <=    1.0 01:0109          1.08     .000 No_date   18:06   22.47  n/a     .000
00211>           overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00212>      {MxStoUsed=.2263E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00213> R0001:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00214>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .088 No_date    1:20   21.30  n/a     .000
00215>                out <=    1.0 01:0105          1.48     .000 No_date   18:27   21.25  n/a     .000
00216>           overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00217>      {MxStoUsed=.2921E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00218> R0001:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00219>     ADD HYD               1.0 02:0105          1.48     .000 No_date   18:27   21.25  n/a     .000
00220>                       +     1.0 02:0109          1.08     .000 No_date   18:06   22.47  n/a     .000
00221>                       +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00222>                       +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00223>                    SUM=     1.0 01:0110          2.56     .000 No_date   18:24   21.77  n/a     .000
00224> # End of the replicated OTTHYMO model
00225> #*****************************************************************************
00226> R0001:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00227>     CALIB NASHYD          1.0 01:A-03          6.55     .045 No_date    2:08    4.93 .197     .000
00228>       [CN= 80.0: N= 3.00: Tp=  .56]
00229> R0001:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00230>     ADD HYD               1.0 02:A-03          6.55     .045 No_date    2:08    4.93  n/a     .000
00231>                       +     1.0 02:Node_1R       8.39     .074 No_date    2:29   18.74  n/a     .000
00232>                       +     1.0 02:0110          2.56     .000 No_date   18:24   21.77  n/a     .000
00233>                    SUM=     1.0 01:Node_2       17.51     .118 No_date    2:13   14.01  n/a     .000
00234> R0001:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00235>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51     .118 No_date    2:13   14.01  n/a     .000
00236>      [RDT= 1.00] out<-    1.0 01:Node_2R      17.51     .095 No_date    3:09   14.01  n/a     .000
00237>       [L/S/n=  648./ .510/.035]
00238>       {Vmax=  .257:Dmax=  .136}
00239> R0001:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00240>     CALIB NASHYD          1.0 01:A-05         12.26     .024 No_date    3:37    2.53 .101     .000
00241>       [CN= 64.0: N= 3.00: Tp= 1.51]
00242> R0001:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00243>     CALIB NASHYD          1.0 01:A-07          4.09     .006 No_date    2:42    1.40 .056     .000
00244>       [CN= 48.0: N= 3.00: Tp=  .90]
00245> R0001:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00246>     ADD HYD               1.0 02:Node_2R      17.51     .095 No_date    3:09   14.01  n/a     .000
00247>                       +     1.0 02:A-05         12.26     .024 No_date    3:37    2.53  n/a     .000
00248>                       +     1.0 02:A-07          4.09     .006 No_date    2:42    1.40  n/a     .000
00249>                    SUM=     1.0 01:Node_3       33.86     .123 No_date    3:14    8.33  n/a     .000
00250> R0001:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00251>     SAVE HYD              1.0 01:Node_3       33.86     .123 No_date    3:14    8.33  n/a     .000
00252>       fname :Node_3.0001
00253>       remark:Future Pond Outflow
00254> R0001:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00255>     ROUTE CHANNEL   ->    1.0 02:Node_3       33.86     .123 No_date    3:14    8.33  n/a     .000
00256>      [RDT= 1.00] out<-    1.0 01:Node_3R      33.86     .095 No_date    4:32    8.33  n/a     .000
00257>       [L/S/n=  907./ .220/.035]
00258>       {Vmax=  .195:Dmax=  .081}
00259> R0001:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00260>     CALIB NASHYD          1.0 01:A-08          7.64     .009 No_date    3:24    1.51 .060     .000
00261>       [CN= 50.0: N= 3.00: Tp= 1.36]
00262> R0001:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00263>     CALIB NASHYD          1.0 01:A-09          8.04     .010 No_date    3:21    1.45 .058     .000
00264>       [CN= 49.0: N= 3.00: Tp= 1.32]
00265> R0001:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00266>     CALIB NASHYD          1.0 01:A-12         11.73     .017 No_date    3:00    1.62 .065     .000
00267>       [CN= 52.0: N= 3.00: Tp= 1.10]
00268> #West Branch
00269> R0001:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00270>     CALIB NASHYD          1.0 01:A-04         18.63     .044 No_date    3:32    3.07 .123     .000
00271>       [CN= 69.0: N= 3.00: Tp= 1.47]
00272> R0001:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00273>     CALIB NASHYD          1.0 01:A-10          7.42     .011 No_date    3:38    1.95 .078     .000
00274>       [CN= 57.0: N= 3.00: Tp= 1.51]
00275> R0001:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00276>     ADD HYD               1.0 02:A-04         18.63     .044 No_date    3:32    3.07  n/a     .000
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00277>                    +     1.0 02:A-10           7.42     .011 No_date    3:38    1.95  n/a     .000
00278>                  SUM=    1.0 01:Node_4        26.05     .055 No_date    3:33    2.75  n/a     .000
00279> R0001:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00280>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .055 No_date    3:33    2.75  n/a     .000
00281>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .055 No_date    3:44    2.75  n/a     .000
00282>       [L/S/n=  474./ .660/.035]
00283>       {Vmax=  .832:Dmax=  .054}
00284> R0001:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00285>     CALIB NASHYD          1.0 01:A-11           7.93     .019 No_date    2:49    2.44 .098     .000
00286>       [CN= 63.0: N= 3.00: Tp=  .99]
00287> R0001:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00288>     ADD HYD               1.0 02:Node_3R       33.86     .095 No_date    4:32    8.33  n/a     .000
00289>                    +     1.0 02:A-09           8.04     .010 No_date    3:21    1.45  n/a     .000
00290>                    +     1.0 02:A-08           7.64     .009 No_date    3:24    1.51  n/a     .000
00291>                    +     1.0 02:A-11           7.93     .019 No_date    2:49    2.44  n/a     .000
00292>                    +     1.0 02:A-12          11.73     .017 No_date    3:00    1.62  n/a     .000
00293>                    +     1.0 02:Node_4R       26.05     .055 No_date    3:44    2.75  n/a     .000
00294>                  SUM=    1.0 01:Outlet        95.24     .191 No_date    4:00    4.36  n/a     .000
00295> R0001:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00296>     SAVE HYD              1.0 01:Outlet        95.24     .191 No_date    4:00    4.36  n/a     .000
00297>       fname :Outlet.0001
00298>       remark:Total Outflows to Sandy Hook Road
00299>   ** END OF RUN :    1
00300>
00301> ****************************************************************************************************
00302>
00303>
00304>
00305>
00306>
00307>  RUN#:COMMAND#
00308> R0002:C00001----------------------------------------------------------------------------------------
00309>      START
00310>       [TZERO =    .00 hrs on        0]
00311>       [METOUT=   2    (1=imperial, 2=metric output)]
00312>       [NSTORM=   1 ]
00313>       [NRUN  = 0002 ]
00314> #*************************************************************************
00315> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00316> #*************************************************************************
00317> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00318> #  Date        : 2023-10
00319> #  Modeller    : [JB]
00320> #  Updated             : 2025-04 [PP]
00321> #  Company     : JFSA Ottawa
00322> #  License #   : 2549237
00323> #*************************************************************************
00324> R0002:C00002----------------------------------------------------------------------------------------
00325>      READ STORM
00326>       Filename = STORM.001
00327>       Comment  = Belleville: 2-Year, 4-Hour Chicago
00328>       [SDT=10.00:SDUR=   4.00:PTOT=  33.42]
00329> R0002:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00330>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.048 No_date    1:21   26.27 .786     .000
00331>       [XIMP=.76:TIMP=.86]
00332>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00333>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00334>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00335> R0002:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00336>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.048 No_date    1:21   26.27  n/a     .000
00337>                 out <=    1.0 01:NodeB          8.39     .105 No_date    2:14   26.27  n/a     .000
00338>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00339>      {MxStoUsed=.1498E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00340> R0002:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00341>     ADD HYD               1.0 02:NodeB          8.39     .105 No_date    2:14   26.27  n/a     .000
00342>                    +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00343>                  SUM=    1.0 01:Node_1         8.39     .105 No_date    2:14   26.27  n/a     .000
00344> R0002:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00345>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .105 No_date    2:14   26.27  n/a     .000
00346>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .104 No_date    2:23   26.27  n/a     .000
00347>       [L/S/n=  327./ .920/.035]
00348>       {Vmax=  .607:Dmax=  .173}
00349> #*************************************************************************
00350> # Replication of the OTTHYMO model for the Choice Properties REIT
00351> # development as per the November 2023 'Proposed Retails Pads B & C
00352> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00353> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00354> # Notes:
00355> # - DT changed from 5 min to 1 min
00356> # - Reservoir Overflows added to the downstream node for all reservoirs
00357> #*************************************************************************
00358> # 0003
00359> #*************************************************************************
00360> R0002:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00361>     CALIB STANDHYD        1.0 01:0003            .24     .041 No_date    1:20   29.41 .880     .000
00362>       [XIMP=.90:TIMP=.90]
00363>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00364>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00365>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00366> #*************************************************************************
00367> # 0002
00368> #*************************************************************************
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00369> R0002:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00370>     CALIB STANDHYD        1.0 01:0002            .07     .013 No_date    1:20   32.12 .961     .000
00371>       [XIMP=.99:TIMP=.99]
00372>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00373>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00374>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00375> #*******************************************************************************
00376> # 0001
00377> #*******************************************************************************
00378> R0002:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00379>     CALIB STANDHYD        1.0 01:0001            .93     .145 No_date    1:20   27.90 .835     .000
00380>       [XIMP=.85:TIMP=.85]
00381>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00382>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00383>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00384> #*******************************************************************************
00385> # 0006
00386> #*******************************************************************************
00387> R0002:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00388>     CALIB STANDHYD        1.0 01:0006            .24     .045 No_date    1:20   32.13 .962     .000
00389>       [XIMP=.99:TIMP=.99]
00390>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00391>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00392>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00393> #*******************************************************************************
00394> # 0007
00395> #*******************************************************************************
00396> R0002:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00397>     CALIB STANDHYD        1.0 01:0007            .38     .064 No_date    1:20   29.41 .880     .000
00398>       [XIMP=.90:TIMP=.90]
00399>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00400>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00401>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00402> #*******************************************************************************
00403> # 0044
00404> #*******************************************************************************
00405> R0002:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00406>     CALIB STANDHYD        1.0 01:0044            .54     .096 No_date    1:20   30.91 .925     .000
00407>       [XIMP=.95:TIMP=.95]
00408>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00409>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00410>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00411> #*******************************************************************************
00412> # 0005
00413> #*******************************************************************************
00414> R0002:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00415>     CALIB STANDHYD        1.0 01:0005            .16     .030 No_date    1:20   32.13 .962     .000
00416>       [XIMP=.99:TIMP=.99]
00417>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00418>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00419>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00420> #*******************************************************************************
00421> R0002:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00422>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .013 No_date    1:20   32.12  n/a     .000
00423>                   out <=    1.0 01:0111            .07     .002 No_date    1:46   32.12  n/a     .000
00424>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
00425>      {MxStoUsed=.1329E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00426> R0002:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00427>     ADD HYD               1.0 02:0111            .07     .002 No_date    1:46   32.12  n/a     .000
00428>                       +     1.0 02:0001            .93     .145 No_date    1:20   27.90  n/a     .000
00429>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
00430>                     SUM=    1.0 01:0101           1.00     .147 No_date    1:20   28.20  n/a     .000
00431> R0002:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00432>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .045 No_date    1:20   32.13  n/a     .000
00433>                   out <=    1.0 01:0102            .24     .002 No_date    3:10   32.13  n/a     .000
00434>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00435>      {MxStoUsed=.5997E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00436> R0002:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00437>     ADD HYD               1.0 02:0007            .38     .064 No_date    1:20   29.41  n/a     .000
00438>                       +     1.0 02:0044            .54     .096 No_date    1:20   30.91  n/a     .000
00439>                     SUM=    1.0 01:0106            .92     .160 No_date    1:20   30.29  n/a     .000
00440> R0002:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00441>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .030 No_date    1:20   32.13  n/a     .000
00442>                   out <=    1.0 01:0108            .16     .001 No_date    3:10   32.13  n/a     .000
00443>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00444>      {MxStoUsed=.3998E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00445> R0002:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00446>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .147 No_date    1:20   28.20  n/a     .000
00447>                   out <=    1.0 01:0100           1.00     .058 No_date    1:29   28.20  n/a     .000
00448>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00449>      {MxStoUsed=.5803E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00450> R0002:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00451>     ADD HYD               1.0 02:0100           1.00     .058 No_date    1:29   28.20  n/a     .000
00452>                       +     1.0 02:0102            .24     .002 No_date    3:10   32.13  n/a     .000
00453>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00454>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00455>                     SUM=    1.0 01:0103           1.24     .060 No_date    1:33   28.96  n/a     .000
00456> R0002:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00457>     ADD HYD               1.0 02:0106            .92     .160 No_date    1:20   30.29  n/a     .000
00458>                       +     1.0 02:0108            .16     .001 No_date    3:10   32.13  n/a     .000
00459>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00460>                     SUM=    1.0 01:0107           1.08     .160 No_date    1:20   30.57  n/a     .000
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00461> R0002:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00462>     ADD HYD              1.0 02:0003           .24     .041 No_date    1:20   29.41  n/a     .000
00463>                    +     1.0 02:0103          1.24     .060 No_date    1:33   28.96  n/a     .000
00464>                  SUM=    1.0 01:0104          1.48     .099 No_date    1:20   29.03  n/a     .000
00465> R0002:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00466>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .160 No_date    1:20   30.57  n/a     .000
00467>                 out <=    1.0 01:0109          1.08     .000 No_date   14:00   30.51  n/a     .000
00468>           overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00469>      {MxStoUsed=.3004E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00470> R0002:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00471>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .099 No_date    1:20   29.03  n/a     .000
00472>                 out <=    1.0 01:0105          1.48     .002 No_date    7:04   28.97  n/a     .000
00473>           overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00474>      {MxStoUsed=.3752E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00475> R0002:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00476>     ADD HYD              1.0 02:0105          1.48     .002 No_date    7:04   28.97  n/a     .000
00477>                    +     1.0 02:0109          1.08     .000 No_date   14:00   30.51  n/a     .000
00478>                    +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00479>                    +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00480>                  SUM=    1.0 01:0110          2.56     .002 No_date    7:04   29.62  n/a     .000
00481> # End of the replicated OTTHYMO model
00482> #*************************************************************************
00483> R0002:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00484>     CALIB NASHYD         1.0 01:A-03          6.55     .086 No_date    2:06    8.96 .268     .000
00485>       [CN= 80.0: N= 3.00: Tp=  .56]
00486> R0002:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00487>     ADD HYD              1.0 02:A-03          6.55     .086 No_date    2:06    8.96  n/a     .000
00488>                    +     1.0 02:Node_1R       8.39     .104 No_date    2:23   26.27  n/a     .000
00489>                    +     1.0 02:0110          2.56     .002 No_date    7:04   29.62  n/a     .000
00490>                  SUM=    1.0 01:Node_2       17.51     .189 No_date    2:09   20.27  n/a     .000
00491> R0002:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00492>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51     .189 No_date    2:09   20.27  n/a     .000
00493>      [RDT= 1.00] out<-    1.0 01:Node_2R      17.51     .152 No_date    2:53   20.27  n/a     .000
00494>       [L/S/n=  648./ .510/.035]
00495>       {Vmax=  .300:Dmax=  .152}
00496> R0002:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00497>     CALIB NASHYD         1.0 01:A-05          12.26     .045 No_date    3:32    4.82 .144     .000
00498>       [CN= 64.0: N= 3.00: Tp= 1.51]
00499> R0002:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00500>     CALIB NASHYD         1.0 01:A-07           4.09     .012 No_date    2:39    2.72 .081     .000
00501>       [CN= 48.0: N= 3.00: Tp=  .90]
00502> R0002:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00503>     ADD HYD              1.0 02:Node_2R       17.51     .152 No_date    2:53   20.27  n/a     .000
00504>                    +     1.0 02:A-05          12.26     .045 No_date    3:32    4.82  n/a     .000
00505>                    +     1.0 02:A-07           4.09     .012 No_date    2:39    2.72  n/a     .000
00506>                  SUM=    1.0 01:Node_3        33.86     .205 No_date    3:00   12.55  n/a     .000
00507> R0002:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00508>     SAVE HYD             1.0 01:Node_3        33.86     .205 No_date    3:00   12.55  n/a     .000
00509>       fname :Node_3.0002
00510>       remark:Future Pond Outflow
00511> R0002:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00512>     ROUTE CHANNEL   ->    1.0 02:Node_3        33.86     .205 No_date    3:00   12.55  n/a     .000
00513>      [RDT= 1.00] out<-    1.0 01:Node_3R       33.86     .167 No_date    4:15   12.55  n/a     .000
00514>       [L/S/n=  907./ .220/.035]
00515>       {Vmax=  .231:Dmax=  .105}
00516> R0002:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00517>     CALIB NASHYD         1.0 01:A-08           7.64     .018 No_date    3:20    2.92 .087     .000
00518>       [CN= 50.0: N= 3.00: Tp= 1.36]
00519> R0002:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00520>     CALIB NASHYD         1.0 01:A-09           8.04     .019 No_date    3:16    2.82 .084     .000
00521>       [CN= 49.0: N= 3.00: Tp= 1.32]
00522> R0002:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00523>     CALIB NASHYD         1.0 01:A-12          11.73     .034 No_date    2:56    3.14 .094     .000
00524>       [CN= 52.0: N= 3.00: Tp= 1.10]
00525> #West Branch
00526> R0002:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00527>     CALIB NASHYD         1.0 01:A-04          18.63     .084 No_date    3:27    5.79 .173     .000
00528>       [CN= 69.0: N= 3.00: Tp= 1.47]
00529> R0002:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00530>     CALIB NASHYD         1.0 01:A-10           7.42     .021 No_date    3:33    3.75 .112     .000
00531>       [CN= 57.0: N= 3.00: Tp= 1.51]
00532> R0002:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00533>     ADD HYD              1.0 02:A-04          18.63     .084 No_date    3:27    5.79  n/a     .000
00534>                    +     1.0 02:A-10           7.42     .021 No_date    3:33    3.75  n/a     .000
00535>                  SUM=    1.0 01:Node_4        26.05     .105 No_date    3:28    5.21  n/a     .000
00536> R0002:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00537>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .105 No_date    3:28    5.21  n/a     .000
00538>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .104 No_date    3:39    5.21  n/a     .000
00539>       [L/S/n=  474./ .660/.035]
00540>       {Vmax=  .832:Dmax=  .102}
00541> R0002:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00542>     CALIB NASHYD         1.0 01:A-11           7.93     .037 No_date    2:46    4.65 .139     .000
00543>       [CN= 63.0: N= 3.00: Tp=  .99]
00544> R0002:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00545>     ADD HYD              1.0 02:Node_3R       33.86     .167 No_date    4:15   12.55  n/a     .000
00546>                    +     1.0 02:A-09           8.04     .019 No_date    3:16    2.82  n/a     .000
00547>                    +     1.0 02:A-08           7.64     .018 No_date    3:20    2.92  n/a     .000
00548>                    +     1.0 02:A-11           7.93     .037 No_date    2:46    4.65  n/a     .000
00549>                    +     1.0 02:A-12          11.73     .034 No_date    2:56    3.14  n/a     .000
00550>                    +     1.0 02:Node_4R       26.05     .104 No_date    3:39    5.21  n/a     .000
00551>                  SUM=    1.0 01:Outlet        95.24     .359 No_date    3:42    7.13  n/a     .000
00552> R0002:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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00553>     SAVE HYD             1.0 01:Outlet        95.24     .359 No_date    3:42    7.13  n/a     .000
00554>       fname :Outlet.0002
00555>       remark:Total Outflows to Sandy Hook Road
00556>   ** END OF RUN :    4
00557>
00558> ************************************************************************************************
00559>
00560>
00561>
00562>
00563>
00564>  RUN#:COMMAND#
00565> R0005:C00001-------------------------------------------------------------------------------------------
00566>      START
00567>       [TZERO =    .00 hrs on        0]
00568>       [METOUT=   2    (1=imperial, 2=metric output)]
00569>       [NSTORM=   1 ]
00570>       [NRUN  = 0005 ]
00571> #*************************************************************************
00572> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00573> #*************************************************************************
00574> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00575> #  Date        : 2023-10
00576> #  Modeller    : [JB]
00577> #  Updated             : 2025-04 [PP]
00578> #  Company     : JFSA Ottawa
00579> #  License #   : 2549237
00580> #*************************************************************************
00581> R0005:C00002-------------------------------------------------------------------------------------------
00582>      READ STORM
00583>       Filename = STORM.001
00584>       Comment  = Belleville: 5-Year, 4-Hour Chicago
00585>       [SDT=10.00:SDUR=   4.00:PTOT=  43.12]
00586> R0005:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00587>     CALIB STANDHYD       1.0 01:HIGHWAY33      8.39    1.444 No_date    1:21   35.26 .818     .000
00588>       [XIMP=.76:TIMP=.86]
00589>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00590>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00591>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00592> R0005:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00593>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.444 No_date    1:21   35.26  n/a     .000
00594>                  out <=    1.0 01:NodeB          8.39     .148 No_date    2:10   35.26  n/a     .000
00595>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00596>      {MxStoUsed=.2020E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00597> R0005:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00598>     ADD HYD              1.0 02:NodeB          8.39     .148 No_date    2:10   35.26  n/a     .000
00599>                      +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00600>                    SUM=     1.0 01:Node_1         8.39     .148 No_date    2:10   35.26  n/a     .000
00601> R0005:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00602>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .148 No_date    2:10   35.26  n/a     .000
00603>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .147 No_date    2:18   35.26  n/a     .000
00604>       [L/S/n=  327./ .920/.035]
00605>       {Vmax=  .677:Dmax=  .203}
00606> #*************************************************************************
00607> # Replication of the OTTHYMO model for the Choice Properties REIT
00608> # development as per the November 2023 'Proposed Retails Pads B & C
00609> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00610> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00611> # Notes:
00612> # - DT changed from 5 min to 1 min
00613> # - Reservoir Overflows added to the downstream node for all reservoirs
00614> #*************************************************************************
00615> # 0003
00616> #*************************************************************************
00617> R0005:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00618>     CALIB STANDHYD       1.0 01:0003           .24     .053 No_date    1:20   38.57 .895     .000
00619>       [XIMP=.90:TIMP=.90]
00620>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00621>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00622>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00623> #*************************************************************************
00624> # 0002
00625> #*************************************************************************
00626> R0005:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00627>     CALIB STANDHYD       1.0 01:0002           .07     .017 No_date    1:20   41.77 .969     .000
00628>       [XIMP=.99:TIMP=.99]
00629>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00630>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00631>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00632> #*************************************************************************
00633> # 0001
00634> #*************************************************************************
00635> R0005:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00636>     CALIB STANDHYD       1.0 01:0001           .93     .193 No_date    1:20   36.80 .854     .000
00637>       [XIMP=.85:TIMP=.85]
00638>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00639>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00640>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00641> #*************************************************************************
00642> # 0006
00643> #*************************************************************************
00644> R0005:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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00645>     CALIB STANDHYD        1.0 01:0006            .24     .058 No_date    1:20   41.78 .969     .000
00646>       [XIMP=.99:TIMP=.99]
00647>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00648>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00649>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00650> #*******************************************************************************
00651> # 0007
00652> #*******************************************************************************
00653> R0005:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00654>     CALIB STANDHYD        1.0 01:0007            .38     .084 No_date    1:20   38.57 .895     .000
00655>       [XIMP=.90:TIMP=.90]
00656>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00657>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00658>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00659> #*******************************************************************************
00660> # 0044
00661> #*******************************************************************************
00662> R0005:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00663>     CALIB STANDHYD        1.0 01:0044            .54     .125 No_date    1:20   40.35 .936     .000
00664>       [XIMP=.95:TIMP=.95]
00665>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00666>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00667>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00668> #*******************************************************************************
00669> # 0005
00670> #*******************************************************************************
00671> R0005:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00672>     CALIB STANDHYD        1.0 01:0005            .16     .039 No_date    1:20   41.77 .969     .000
00673>       [XIMP=.99:TIMP=.99]
00674>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00675>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00676>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00677> #*******************************************************************************
00678> R0005:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00679>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .017 No_date    1:20   41.77  n/a     .000
00680>                  out <=   1.0 01:0111            .07     .002 No_date    1:43   41.77  n/a     .000
00681>             overflow <=   1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
00682>      {MxStoUsed=.1725E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00683> R0005:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00684>     ADD HYD               1.0 02:0111            .07     .002 No_date    1:43   41.77  n/a     .000
00685>                       +   1.0 02:0001            .93     .193 No_date    1:20   36.80  n/a     .000
00686>                       +   1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
00687>                    SUM=   1.0 01:0101           1.00     .195 No_date    1:20   37.15  n/a     .000
00688> R0005:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00689>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .058 No_date    1:20   41.78  n/a     .000
00690>                  out <=   1.0 01:0102            .24     .002 No_date    3:02   41.78  n/a     .000
00691>             overflow <=   1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00692>      {MxStoUsed=.7764E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00693> R0005:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00694>     ADD HYD               1.0 02:0007            .38     .084 No_date    1:20   38.57  n/a     .000
00695>                       +   1.0 02:0044            .54     .125 No_date    1:20   40.35  n/a     .000
00696>                    SUM=   1.0 01:0106            .92     .209 No_date    1:20   39.61  n/a     .000
00697> R0005:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00698>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .039 No_date    1:20   41.77  n/a     .000
00699>                  out <=   1.0 01:0108            .16     .002 No_date    3:03   41.77  n/a     .000
00700>             overflow <=   1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00701>      {MxStoUsed=.5197E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00702> R0005:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00703>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .195 No_date    1:20   37.15  n/a     .000
00704>                  out <=   1.0 01:0100           1.00     .059 No_date    1:32   37.15  n/a     .000
00705>             overflow <=   1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00706>      {MxStoUsed=.9756E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00707> R0005:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00708>     ADD HYD               1.0 02:0100           1.00     .059 No_date    1:32   37.15  n/a     .000
00709>                       +   1.0 02:0102            .24     .002 No_date    3:02   41.78  n/a     .000
00710>                       +   1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00711>                       +   1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00712>                    SUM=   1.0 01:0103           1.24     .061 No_date    1:36   38.05  n/a     .000
00713> R0005:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00714>     ADD HYD               1.0 02:0106            .92     .209 No_date    1:20   39.61  n/a     .000
00715>                       +   1.0 02:0108            .16     .002 No_date    3:03   41.77  n/a     .000
00716>                       +   1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00717>                    SUM=   1.0 01:0107           1.08     .210 No_date    1:20   39.93  n/a     .000
00718> R0005:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00719>     ADD HYD               1.0 02:0003            .24     .053 No_date    1:20   38.57  n/a     .000
00720>                       +   1.0 02:0103           1.24     .061 No_date    1:36   38.05  n/a     .000
00721>                    SUM=   1.0 01:0104           1.48     .113 No_date    1:20   38.13  n/a     .000
00722> R0005:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00723>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .210 No_date    1:20   39.93  n/a     .000
00724>                  out <=   1.0 01:0109           1.08     .009 No_date    3:40   39.87  n/a     .000
00725>             overflow <=   1.0 03:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
00726>      {MxStoUsed=.3541E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00727> R0005:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00728>     ROUTE RESERVOIR ->    1.0 02:0104           1.48     .113 No_date    1:20   38.13  n/a     .000
00729>                  out <=   1.0 01:0105           1.48     .027 No_date    2:25   38.07  n/a     .000
00730>             overflow <=   1.0 03:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
00731>      {MxStoUsed=.3818E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00732> R0005:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00733>     ADD HYD               1.0 02:0105           1.48     .027 No_date    2:25   38.07  n/a     .000
00734>                       +   1.0 02:0109           1.08     .009 No_date    3:40   39.87  n/a     .000
00735>                       +   1.0 02:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
00736>                       +   1.0 02:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
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00737>                 SUM=     1.0 01:0110          2.56     .028 No_date    2:25   38.83  n/a     .000
00738> # End of the replicated OTTHYMO model
00739> #*****************************************************************************
00740> R0005:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00741>     CALIB NASHYD          1.0 01:A-03          6.55     .144 No_date    2:04   14.50 .336     .000
00742>       [CN= 80.0: N= 3.00: Tp=  .56]
00743> R0005:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00744>     ADD HYD               1.0 02:A-03          6.55     .144 No_date    2:04   14.50  n/a     .000
00745>                   +     1.0 02:Node_1R       8.39     .147 No_date    2:18   35.26  n/a     .000
00746>                   +     1.0 02:0110          2.56     .028 No_date    2:25   38.83  n/a     .000
00747>                 SUM=    1.0 01:Node_2       17.51     .302 No_date    2:23   28.00  n/a     .000
00748> R0005:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00749>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51     .302 No_date    2:23   28.00  n/a     .000
00750>      [RDT= 1.00] out<-    1.0 01:Node_2R      17.51     .261 No_date    2:40   28.00  n/a     .000
00751>       [L/S/n=  648./ .510/.035]
00752>       {Vmax=  .369:Dmax=  .175}
00753> R0005:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00754>     CALIB NASHYD          1.0 01:A-05         12.26     .077 No_date    3:28    8.15 .189     .000
00755>       [CN= 64.0: N= 3.00: Tp= 1.51]
00756> R0005:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00757>     CALIB NASHYD          1.0 01:A-07          4.09     .020 No_date    2:36    4.71 .109     .000
00758>       [CN= 48.0: N= 3.00: Tp=  .90]
00759> R0005:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00760>     ADD HYD               1.0 02:Node_2R      17.51     .261 No_date    2:40   28.00  n/a     .000
00761>                   +     1.0 02:A-05         12.26     .077 No_date    3:28    8.15  n/a     .000
00762>                   +     1.0 02:A-07          4.09     .020 No_date    2:36    4.71  n/a     .000
00763>                 SUM=    1.0 01:Node_3       33.86     .347 No_date    2:45   18.00  n/a     .000
00764> R0005:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00765>     SAVE HYD              1.0 01:Node_3       33.86     .347 No_date    2:45   18.00  n/a     .000
00766>       fname :Node_3.0005
00767>       remark:Future Pond Outflow
00768> R0005:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00769>     ROUTE CHANNEL   ->    1.0 02:Node_3       33.86     .347 No_date    2:45   18.00  n/a     .000
00770>      [RDT= 1.00] out<-    1.0 01:Node_3R      33.86     .272 No_date    3:53   18.00  n/a     .000
00771>       [L/S/n=  907./ .220/.035]
00772>       {Vmax=  .274:Dmax=  .139}
00773> R0005:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00774>     CALIB NASHYD          1.0 01:A-08          7.64     .032 No_date    3:17    5.05 .117     .000
00775>       [CN= 50.0: N= 3.00: Tp= 1.36]
00776> R0005:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00777>     CALIB NASHYD          1.0 01:A-09          8.04     .033 No_date    3:13    4.88 .113     .000
00778>       [CN= 49.0: N= 3.00: Tp= 1.32]
00779> R0005:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00780>     CALIB NASHYD          1.0 01:A-12         11.73     .059 No_date    2:54    5.42 .126     .000
00781>       [CN= 52.0: N= 3.00: Tp= 1.10]
00782> #West Branch
00783> R0005:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00784>     CALIB NASHYD          1.0 01:A-04         18.63     .142 No_date    3:23    9.69 .225     .000
00785>       [CN= 69.0: N= 3.00: Tp= 1.47]
00786> R0005:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00787>     CALIB NASHYD          1.0 01:A-10          7.42     .036 No_date    3:29    6.43 .149     .000
00788>       [CN= 57.0: N= 3.00: Tp= 1.51]
00789> R0005:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00790>     ADD HYD               1.0 02:A-04         18.63     .142 No_date    3:23    9.69  n/a     .000
00791>                   +     1.0 02:A-10          7.42     .036 No_date    3:29    6.43  n/a     .000
00792>                 SUM=    1.0 01:Node_4       26.05     .178 No_date    3:24    8.76  n/a     .000
00793> R0005:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00794>     ROUTE CHANNEL   ->    1.0 02:Node_4       26.05     .178 No_date    3:24    8.76  n/a     .000
00795>      [RDT= 1.00] out<-    1.0 01:Node_4R      26.05     .177 No_date    3:35    8.76  n/a     .000
00796>       [L/S/n=  474./ .660/.035]
00797>       {Vmax=  .832:Dmax=  .173}
00798> R0005:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00799>     CALIB NASHYD          1.0 01:A-11          7.93     .063 No_date    2:43    7.88 .183     .000
00800>       [CN= 63.0: N= 3.00: Tp=  .99]
00801> R0005:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00802>     ADD HYD               1.0 02:Node_3R      33.86     .272 No_date    3:53   18.00  n/a     .000
00803>                   +     1.0 02:A-09          8.04     .033 No_date    3:13    4.88  n/a     .000
00804>                   +     1.0 02:A-08          7.64     .032 No_date    3:17    5.05  n/a     .000
00805>                   +     1.0 02:A-11          7.93     .063 No_date    2:43    7.88  n/a     .000
00806>                   +     1.0 02:A-12         11.73     .059 No_date    2:54    5.42  n/a     .000
00807>                   +     1.0 02:Node_4R      26.05     .177 No_date    3:35    8.76  n/a     .000
00808>                 SUM=    1.0 01:Outlet       95.24     .611 No_date    3:30   10.93  n/a     .000
00809> R0005:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00810>     SAVE HYD              1.0 01:Outlet       95.24     .611 No_date    3:30   10.93  n/a     .000
00811>       fname :Outlet.0005
00812>       remark:Total Outflows to Sandy Hook Road
00813>   ** END OF RUN :    9
00814>
00815> ********************************************************************************************************
00816>
00817>
00818>
00819>
00820>
00821>  RUN#:COMMAND#
00822> R0010:C00001-------------------------------------------------------------------------------------------
00823>      START
00824>       [TZERO =    .00 hrs on        0]
00825>       [METOUT=   2    (1=imperial, 2=metric output)]
00826>       [NSTORM=   1 ]
00827>       [NRUN  = 0010 ]
00828> #*****************************************************************************
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00829> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00830> #*************************************************************************
00831> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00832> #  Date         : 2023-10
00833> #  Modeller     : [JB]
00834> #  Updated              : 2025-04 [PP]
00835> #  Company      : JFSA Ottawa
00836> #  License #    : 2549237
00837> #*************************************************************************
00838> R0010:C00002-------------------------------------------------------------------------------------------
00839>      READ STORM
00840>       Filename = STORM.001
00841>       Comment  = Belleville: 10-Year, 4-Hour Chicago
00842>       [SDT=10.00:SDUR=   4.00:PTOT=  49.61]
00843> R0010:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00844>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.722 No_date    1:21   41.35 .833     .000
00845>       [XIMP=.76:TIMP=.86]
00846>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00847>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00848>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00849> R0010:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00850>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.722 No_date    1:21   41.35  n/a     .000
00851>                   out <=    1.0 01:NodeB          8.39     .185 No_date    2:07   41.35  n/a     .000
00852>              overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00853>      {MxStoUsed=.2352E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00854> R0010:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00855>     ADD HYD               1.0 02:NodeB          8.39     .185 No_date    2:07   41.35  n/a     .000
00856>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00857>                   SUM=      1.0 01:Node_1         8.39     .185 No_date    2:07   41.35  n/a     .000
00858> R0010:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00859>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .185 No_date    2:07   41.35  n/a     .000
00860>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .184 No_date    2:14   41.35  n/a     .000
00861>       [L/S/n=  327./ .920/.035]
00862>       {Vmax=  .721:Dmax=  .225}
00863> #*************************************************************************
00864> # Replication of the OTTHYMO model for the Choice Properties REIT
00865> # development as per the November 2023 'Proposed Retails Pads B & C
00866> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00867> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00868> # Notes:
00869> # - DT changed from 5 min to 1 min
00870> # - Reservoir Overflows added to the downstream node for all reservoirs
00871> #*************************************************************************
00872> # 0003
00873> #*************************************************************************
00874> R0010:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00875>     CALIB STANDHYD        1.0 01:0003           .24     .062 No_date    1:20   44.75 .902     .000
00876>       [XIMP=.90:TIMP=.90]
00877>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00878>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00879>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00880> #*************************************************************************
00881> # 0002
00882> #*************************************************************************
00883> R0010:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00884>     CALIB STANDHYD        1.0 01:0002           .07     .020 No_date    1:20   48.24 .972     .000
00885>       [XIMP=.99:TIMP=.99]
00886>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00887>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00888>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00889> #*************************************************************************
00890> # 0001
00891> #*************************************************************************
00892> R0010:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00893>     CALIB STANDHYD        1.0 01:0001           .93     .225 No_date    1:20   42.83 .863     .000
00894>       [XIMP=.85:TIMP=.85]
00895>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00896>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00897>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00898> #*************************************************************************
00899> # 0006
00900> #*************************************************************************
00901> R0010:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00902>     CALIB STANDHYD        1.0 01:0006           .24     .067 No_date    1:20   48.24 .972     .000
00903>       [XIMP=.99:TIMP=.99]
00904>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00905>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00906>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00907> #*************************************************************************
00908> # 0007
00909> #*************************************************************************
00910> R0010:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00911>     CALIB STANDHYD        1.0 01:0007           .38     .098 No_date    1:20   44.76 .902     .000
00912>       [XIMP=.90:TIMP=.90]
00913>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00914>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00915>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00916> #*************************************************************************
00917> # 0044
00918> #*************************************************************************
00919> R0010:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00920>     CALIB STANDHYD        1.0 01:0044           .54     .145 No_date    1:20   46.69 .941     .000
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00921>       [XIMP=.95:TIMP=.95]
00922>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00923>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00924>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00925> #*************************************************************************
00926> # 0005
00927> #*************************************************************************
00928> R0010:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00929>     CALIB STANDHYD        1.0 01:0005           .16     .045 No_date    1:20   48.25 .972     .000
00930>       [XIMP=.99:TIMP=.99]
00931>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00932>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00933>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00934> #*************************************************************************
00935> R0010:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00936>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .020 No_date    1:20   48.24  n/a     .000
00937>                   out <=    1.0 01:0111           .07     .003 No_date    1:42   48.24  n/a     .000
00938>               overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00939>      {MxStoUsed=.1990E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00940> R0010:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00941>     ADD HYD               1.0 02:0111           .07     .003 No_date    1:42   48.24  n/a     .000
00942>                     +     1.0 02:0001           .93     .225 No_date    1:20   42.83  n/a     .000
00943>                     +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00944>                   SUM=    1.0 01:0101          1.00     .227 No_date    1:20   43.21  n/a     .000
00945> R0010:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00946>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .067 No_date    1:20   48.24  n/a     .000
00947>                   out <=    1.0 01:0102           .24     .003 No_date    3:01   48.24  n/a     .000
00948>               overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
00949>      {MxStoUsed=.8939E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00950> R0010:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00951>     ADD HYD               1.0 02:0007           .38     .098 No_date    1:20   44.76  n/a     .000
00952>                     +     1.0 02:0044           .54     .145 No_date    1:20   46.69  n/a     .000
00953>                   SUM=    1.0 01:0106           .92     .242 No_date    1:20   45.89  n/a     .000
00954> R0010:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00955>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .045 No_date    1:20   48.25  n/a     .000
00956>                   out <=    1.0 01:0108           .16     .002 No_date    3:03   48.24  n/a     .000
00957>               overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
00958>      {MxStoUsed=.6001E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00959> R0010:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00960>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .227 No_date    1:20   43.21  n/a     .000
00961>                   out <=    1.0 01:0100          1.00     .059 No_date    1:34   43.21  n/a     .000
00962>               overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
00963>      {MxStoUsed=.1261E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00964> R0010:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00965>     ADD HYD               1.0 02:0100          1.00     .059 No_date    1:34   43.21  n/a     .000
00966>                     +     1.0 02:0102           .24     .003 No_date    3:01   48.24  n/a     .000
00967>                     +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
00968>                     +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
00969>                   SUM=    1.0 01:0103          1.24     .062 No_date    1:44   44.18  n/a     .000
00970> R0010:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00971>     ADD HYD               1.0 02:0106           .92     .242 No_date    1:20   45.89  n/a     .000
00972>                     +     1.0 02:0108           .16     .002 No_date    3:03   48.24  n/a     .000
00973>                     +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
00974>                   SUM=    1.0 01:0107          1.08     .243 No_date    1:20   46.24  n/a     .000
00975> R0010:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00976>     ADD HYD               1.0 02:0003           .24     .062 No_date    1:20   44.75  n/a     .000
00977>                     +     1.0 02:0103          1.24     .062 No_date    1:44   44.18  n/a     .000
00978>                   SUM=    1.0 01:0104          1.48     .122 No_date    1:20   44.27  n/a     .000
00979> R0010:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00980>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .243 No_date    1:20   46.24  n/a     .000
00981>                   out <=    1.0 01:0109          1.08     .016 No_date    2:31   46.17  n/a     .000
00982>               overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00983>      {MxStoUsed=.3579E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00984> R0010:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00985>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .122 No_date    1:20   44.27  n/a     .000
00986>                   out <=    1.0 01:0105          1.48     .063 No_date    2:33   44.21  n/a     .000
00987>               overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00988>      {MxStoUsed=.3908E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00989> R0010:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00990>     ADD HYD               1.0 02:0105          1.48     .063 No_date    2:33   44.21  n/a     .000
00991>                     +     1.0 02:0109          1.08     .016 No_date    2:31   46.17  n/a     .000
00992>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00993>                     +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00994>                   SUM=    1.0 01:0110          2.56     .080 No_date    2:32   45.04  n/a     .000
00995> # End of the replicated OTTHYMO model
00996> #*************************************************************************
00997> R0010:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00998>     CALIB NASHYD          1.0 01:A-03           6.55     .187 No_date    2:03   18.63 .375     .000
00999>       [CN= 80.0: N= 3.00: Tp=  .56]
01000> R0010:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01001>     ADD HYD               1.0 02:A-03           6.55     .187 No_date    2:03   18.63  n/a     .000
01002>                     +     1.0 02:Node_1R        8.39     .184 No_date    2:14   41.35  n/a     .000
01003>                     +     1.0 02:0110           2.56     .080 No_date    2:32   45.04  n/a     .000
01004>                   SUM=    1.0 01:Node_2        17.51     .424 No_date    2:22   33.37  n/a     .000
01005> R0010:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01006>     ROUTE CHANNEL   ->    1.0 02:Node_2        17.51     .424 No_date    2:22   33.37  n/a     .000
01007>      [RDT= 1.00] out<-    1.0 01:Node_2R       17.51     .364 No_date    2:37   33.37  n/a     .000
01008>       [L/S/n=  648./ .510/.035]
01009>       {Vmax=  .407:Dmax=  .194}
01010> R0010:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01011>     CALIB NASHYD          1.0 01:A-05          12.26     .102 No_date    3:26   10.75 .217     .000
01012>       [CN= 64.0: N= 3.00: Tp= 1.51]
```

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01013> R0010:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01014>     CALIB NASHYD          1.0 01:A-07          4.09     .028 No_date    2:35    6.31 .127     .000
01015>       [CN= 48.0: N= 3.00: Tp=  .90]
01016> R0010:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01017>     ADD HYD               1.0 02:Node_2R       17.51     .364 No_date    2:37   33.37  n/a     .000
01018>                     +     1.0 02:A-05          12.26     .102 No_date    3:26   10.75  n/a     .000
01019>                     +     1.0 02:A-07           4.09     .028 No_date    2:35    6.31  n/a     .000
01020>                   SUM=    1.0 01:Node_3        33.86     .476 No_date    2:40   21.90  n/a     .000
01021> R0010:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01022>     SAVE HYD              1.0 01:Node_3        33.86     .476 No_date    2:40   21.90  n/a     .000
01023>       fname :Node_3.0010
01024>       remark:Future Pond Outflow
01025> R0010:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01026>     ROUTE CHANNEL   ->    1.0 02:Node_3        33.86     .476 No_date    2:40   21.90  n/a     .000
01027>      [RDT= 1.00] out<-    1.0 01:Node_3R       33.86     .372 No_date    3:40   21.90  n/a     .000
01028>       [L/S/n=  907./ .220/.035]
01029>       {Vmax=  .293:Dmax=  .161}
01030> R0010:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01031>     CALIB NASHYD          1.0 01:A-08          7.64     .042 No_date    3:15    6.76 .136     .000
01032>       [CN= 50.0: N= 3.00: Tp= 1.36]
01033> R0010:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01034>     CALIB NASHYD          1.0 01:A-09          8.04     .044 No_date    3:12    6.53 .132     .000
01035>       [CN= 49.0: N= 3.00: Tp= 1.32]
01036> R0010:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01037>     CALIB NASHYD          1.0 01:A-12         11.73     .080 No_date    2:52    7.23 .146     .000
01038>       [CN= 52.0: N= 3.00: Tp= 1.10]
01039> #West Branch
01040> R0010:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01041>     CALIB NASHYD          1.0 01:A-04         18.63     .186 No_date    3:22   12.70 .256     .000
01042>       [CN= 69.0: N= 3.00: Tp= 1.47]
01043> R0010:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01044>     CALIB NASHYD          1.0 01:A-10          7.42     .049 No_date    3:27    8.54 .172     .000
01045>       [CN= 57.0: N= 3.00: Tp= 1.51]
01046> R0010:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01047>     ADD HYD               1.0 02:A-04         18.63     .186 No_date    3:22   12.70  n/a     .000
01048>                     +     1.0 02:A-10          7.42     .049 No_date    3:27    8.54  n/a     .000
01049>                   SUM=    1.0 01:Node_4        26.05     .235 No_date    3:23   11.51  n/a     .000
01050> R0010:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01051>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .235 No_date    3:23   11.51  n/a     .000
01052>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .233 No_date    3:33   11.51  n/a     .000
01053>       [L/S/n=  474./ .660/.035]
01054>       {Vmax=  .832:Dmax=  .228}
01055> R0010:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01056>     CALIB NASHYD          1.0 01:A-11          7.93     .084 No_date    2:42   10.41 .210     .000
01057>       [CN= 63.0: N= 3.00: Tp=  .99]
01058> R0010:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01059>     ADD HYD               1.0 02:Node_3R       33.86     .372 No_date    3:40   21.90  n/a     .000
01060>                     +     1.0 02:A-09          8.04     .044 No_date    3:12    6.53  n/a     .000
01061>                     +     1.0 02:A-08          7.64     .042 No_date    3:15    6.76  n/a     .000
01062>                     +     1.0 02:A-11          7.93     .084 No_date    2:42   10.41  n/a     .000
01063>                     +     1.0 02:A-12         11.73     .080 No_date    2:52    7.23  n/a     .000
01064>                     +     1.0 02:Node_4R       26.05     .233 No_date    3:33   11.51  n/a     .000
01065>                   SUM=    1.0 01:Outlet        95.24     .830 No_date    3:26   13.79  n/a     .000
01066> R0010:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01067>     SAVE HYD              1.0 01:Outlet        95.24     .830 No_date    3:26   13.79  n/a     .000
01068>       fname :Outlet.0010
01069>       remark:Total Outflows to Sandy Hook Road
01070>   ** END OF RUN :   24
01071>
01072> ****************************************************************************************************
01073>
01074>
01075>
01076>
01077>
01078>  RUN#:COMMAND#
01079> R0025:C00001-------------------------------------------------------------------------------------------
01080>      START
01081>       [TZERO =    .00 hrs on        0]
01082>       [METOUT=   2    (1=imperial, 2=metric output)]
01083>       [NSTORM=   1 ]
01084>       [NRUN  = 0025 ]
01085> #*******************************************************************************
01086> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01087> #*******************************************************************************
01088> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01089> #  Date        : 2023-10
01090> #  Modeller    : [JB]
01091> #  Updated             : 2025-04 [PP]
01092> #  Company     : JFSA Ottawa
01093> #  License #   : 2549237
01094> #*******************************************************************************
01095> R0025:C00002-------------------------------------------------------------------------------------------
01096>      READ STORM
01097>       Filename = STORM.001
01098>       Comment  = Belleville: 25-Year, 4-Hour Chicago
01099>       [SDT=10.00:SDUR=   4.00:PTOT=  57.37]
01100> R0025:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01101>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.106 No_date    1:21   48.69 .849     .000
01102>       [XIMP=.76:TIMP=.86]
01103>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01104>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
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01105>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01106> R0025:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01107>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.106 No_date    1:21   48.69  n/a     .000
01108>                 out <=    1.0 01:NodeB          8.39     .260 No_date    2:00   48.69  n/a     .000
01109>           overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01110>      {MxStoUsed=.2699E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01111> R0025:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01112>     ADD HYD               1.0 02:NodeB          8.39     .260 No_date    2:00   48.69  n/a     .000
01113>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01114>                   SUM=    1.0 01:Node_1         8.39     .260 No_date    2:00   48.69  n/a     .000
01115> R0025:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01116>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .260 No_date    2:00   48.69  n/a     .000
01117>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .257 No_date    2:07   48.69  n/a     .000
01118>       [L/S/n=  327./ .920/.035]
01119>       {Vmax=  .793:Dmax=  .262}
01120> #*******************************************************************************
01121> # Replication of the OTTHYMO model for the Choice Properties REIT
01122> # development as per the November 2023 'Proposed Retails Pads B & C
01123> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
01124> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01125> # Notes:
01126> # - DT changed from 5 min to 1 min
01127> # - Reservoir Overflows added to the downstream node for all reservoirs
01128> #*******************************************************************************
01129> # 0003
01130> #*******************************************************************************
01131> R0025:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01132>     CALIB STANDHYD        1.0 01:0003           .24     .073 No_date    1:20   52.18 .910     .000
01133>       [XIMP=.90:TIMP=.90]
01134>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01135>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01136>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01137> #*******************************************************************************
01138> # 0002
01139> #*******************************************************************************
01140> R0025:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01141>     CALIB STANDHYD        1.0 01:0002           .07     .023 No_date    1:20   55.97 .976     .000
01142>       [XIMP=.99:TIMP=.99]
01143>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01144>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01145>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
01146> #*******************************************************************************
01147> # 0001
01148> #*******************************************************************************
01149> R0025:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01150>     CALIB STANDHYD        1.0 01:0001           .93     .268 No_date    1:20   50.10 .873     .000
01151>       [XIMP=.85:TIMP=.85]
01152>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01153>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01154>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01155> #*******************************************************************************
01156> # 0006
01157> #*******************************************************************************
01158> R0025:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01159>     CALIB STANDHYD        1.0 01:0006           .24     .078 No_date    1:20   55.98 .976     .000
01160>       [XIMP=.99:TIMP=.99]
01161>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01162>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01163>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01164> #*******************************************************************************
01165> # 0007
01166> #*******************************************************************************
01167> R0025:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01168>     CALIB STANDHYD        1.0 01:0007           .38     .115 No_date    1:20   52.19 .910     .000
01169>       [XIMP=.90:TIMP=.90]
01170>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01171>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01172>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01173> #*******************************************************************************
01174> # 0044
01175> #*******************************************************************************
01176> R0025:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01177>     CALIB STANDHYD        1.0 01:0044           .54     .170 No_date    1:20   54.28 .946     .000
01178>       [XIMP=.95:TIMP=.95]
01179>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01180>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01181>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01182> #*******************************************************************************
01183> # 0005
01184> #*******************************************************************************
01185> R0025:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01186>     CALIB STANDHYD        1.0 01:0005           .16     .052 No_date    1:20   55.98 .976     .000
01187>       [XIMP=.99:TIMP=.99]
01188>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01189>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01190>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01191> #*******************************************************************************
01192> R0025:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01193>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .023 No_date    1:20   55.97  n/a     .000
01194>                 out <=    1.0 01:0111           .07     .003 No_date    1:42   55.97  n/a     .000
01195>           overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
01196>      {MxStoUsed=.2298E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
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01197> R0025:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01198>     ADD HYD              1.0 02:0111           .07     .003 No_date    1:42   55.97  n/a     .000
01199>                    +     1.0 02:0001           .93     .268 No_date    1:20   50.10  n/a     .000
01200>                    +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
01201>                  SUM=    1.0 01:0101          1.00     .270 No_date    1:20   50.51  n/a     .000
01202> R0025:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01203>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .078 No_date    1:20   55.98  n/a     .000
01204>                  out <=   1.0 01:0102           .24     .003 No_date    3:01   55.98  n/a     .000
01205>           overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
01206>      {MxStoUsed=.1033E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01207> R0025:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01208>     ADD HYD              1.0 02:0007           .38     .115 No_date    1:20   52.19  n/a     .000
01209>                    +     1.0 02:0044           .54     .170 No_date    1:20   54.28  n/a     .000
01210>                  SUM=    1.0 01:0106           .92     .285 No_date    1:20   53.42  n/a     .000
01211> R0025:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01212>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .052 No_date    1:20   55.98  n/a     .000
01213>                  out <=   1.0 01:0108           .16     .002 No_date    3:02   55.97  n/a     .000
01214>           overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
01215>      {MxStoUsed=.6938E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01216> R0025:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01217>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .270 No_date    1:20   50.51  n/a     .000
01218>                  out <=   1.0 01:0100          1.00     .060 No_date    1:37   50.51  n/a     .000
01219>           overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
01220>      {MxStoUsed=.1632E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01221> R0025:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01222>     ADD HYD              1.0 02:0100          1.00     .060 No_date    1:37   50.51  n/a     .000
01223>                    +     1.0 02:0102           .24     .003 No_date    3:01   55.98  n/a     .000
01224>                    +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
01225>                    +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
01226>                  SUM=    1.0 01:0103          1.24     .063 No_date    1:50   51.57  n/a     .000
01227> R0025:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01228>     ADD HYD              1.0 02:0106           .92     .285 No_date    1:20   53.42  n/a     .000
01229>                    +     1.0 02:0108           .16     .002 No_date    3:02   55.97  n/a     .000
01230>                    +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
01231>                  SUM=    1.0 01:0107          1.08     .287 No_date    1:20   53.79  n/a     .000
01232> R0025:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01233>     ADD HYD              1.0 02:0003           .24     .073 No_date    1:20   52.18  n/a     .000
01234>                    +     1.0 02:0103          1.24     .063 No_date    1:50   51.57  n/a     .000
01235>                  SUM=    1.0 01:0104          1.48     .134 No_date    1:20   51.67  n/a     .000
01236> R0025:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01237>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .287 No_date    1:20   53.79  n/a     .000
01238>                  out <=   1.0 01:0109          1.08     .031 No_date    1:54   53.73  n/a     .000
01239>           overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01240>      {MxStoUsed=.3654E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01241> R0025:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01242>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .134 No_date    1:20   51.67  n/a     .000
01243>                  out <=   1.0 01:0105          1.48     .066 No_date    2:27   51.61  n/a     .000
01244>           overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01245>      {MxStoUsed=.3915E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01246> R0025:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01247>     ADD HYD              1.0 02:0105          1.48     .066 No_date    2:27   51.61  n/a     .000
01248>                    +     1.0 02:0109          1.08     .031 No_date    1:54   53.73  n/a     .000
01249>                    +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01250>                    +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01251>                  SUM=    1.0 01:0110          2.56     .089 No_date    2:21   52.50  n/a     .000
01252> # End of the replicated OTTHYMO model
01253> #*****************************************************************************
01254> R0025:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01255>     CALIB NASHYD         1.0 01:A-03           6.55     .242 No_date    2:02   23.90 .417     .000
01256>       [CN= 80.0: N= 3.00: Tp=  .56]
01257> R0025:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01258>     ADD HYD              1.0 02:A-03           6.55     .242 No_date    2:02   23.90  n/a     .000
01259>                    +     1.0 02:Node_1R        8.39     .257 No_date    2:07   48.69  n/a     .000
01260>                    +     1.0 02:0110           2.56     .089 No_date    2:21   52.50  n/a     .000
01261>                  SUM=    1.0 01:Node_2        17.51     .570 No_date    2:13   39.95  n/a     .000
01262> R0025:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01263>     ROUTE CHANNEL   ->    1.0 02:Node_2        17.51     .570 No_date    2:13   39.95  n/a     .000
01264>      [RDT= 1.00] out<-    1.0 01:Node_2R       17.51     .495 No_date    2:31   39.95  n/a     .000
01265>       [L/S/n=  648./ .510/.035]
01266>       {Vmax=  .455:Dmax=  .214}
01267> R0025:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01268>     CALIB NASHYD         1.0 01:A-05          12.26     .134 No_date    3:25   14.20 .248     .000
01269>       [CN= 64.0: N= 3.00: Tp= 1.51]
01270> R0025:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01271>     CALIB NASHYD         1.0 01:A-07           4.09     .037 No_date    2:35    8.47 .148     .000
01272>       [CN= 48.0: N= 3.00: Tp=  .90]
01273> R0025:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01274>     ADD HYD              1.0 02:Node_2R       17.51     .495 No_date    2:31   39.95  n/a     .000
01275>                    +     1.0 02:A-05          12.26     .134 No_date    3:25   14.20  n/a     .000
01276>                    +     1.0 02:A-07           4.09     .037 No_date    2:35    8.47  n/a     .000
01277>                  SUM=    1.0 01:Node_3        33.86     .639 No_date    2:38   26.82  n/a     .000
01278> R0025:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01279>     SAVE HYD             1.0 01:Node_3        33.86     .639 No_date    2:38   26.82  n/a     .000
01280>       fname :Node_3.0025
01281>       remark:Future Pond Outflow
01282> R0025:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01283>     ROUTE CHANNEL   ->    1.0 02:Node_3        33.86     .639 No_date    2:38   26.82  n/a     .000
01284>      [RDT= 1.00] out<-    1.0 01:Node_3R       33.86     .494 No_date    3:26   26.82  n/a     .000
01285>       [L/S/n=  907./ .220/.035]
01286>       {Vmax=  .315:Dmax=  .186}
01287> R0025:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01288>     CALIB NASHYD         1.0 01:A-08           7.64     .057 No_date    3:14    9.06 .158     .000
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01289>       [CN= 50.0: N= 3.00: Tp= 1.36]
01290> R0025:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01291>     CALIB NASHYD          1.0 01:A-09          8.04     .059 No_date    3:11    8.76 .153     .000
01292>       [CN= 49.0: N= 3.00: Tp= 1.32]
01293> R0025:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01294>     CALIB NASHYD          1.0 01:A-12         11.73     .107 No_date    2:52    9.67 .169     .000
01295>       [CN= 52.0: N= 3.00: Tp= 1.10]
01296> #West Branch
01297> R0025:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01298>     CALIB NASHYD          1.0 01:A-04         18.63     .244 No_date    3:20   16.65 .290     .000
01299>       [CN= 69.0: N= 3.00: Tp= 1.47]
01300> R0025:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01301>     CALIB NASHYD          1.0 01:A-10          7.42     .065 No_date    3:26   11.37 .198     .000
01302>       [CN= 57.0: N= 3.00: Tp= 1.51]
01303> R0025:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01304>     ADD HYD               1.0 02:A-04         18.63     .244 No_date    3:20   16.65  n/a     .000
01305>                     +     1.0 02:A-10          7.42     .065 No_date    3:26   11.37  n/a     .000
01306>                   SUM=    1.0 01:Node_4       26.05     .309 No_date    3:22   15.15  n/a     .000
01307> R0025:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01308>     ROUTE CHANNEL   ->    1.0 02:Node_4       26.05     .309 No_date    3:22   15.15  n/a     .000
01309>      [RDT= 1.00] out<-    1.0 01:Node_4R      26.05     .307 No_date    3:31   15.15  n/a     .000
01310>       [L/S/n=  474./ .660/.035]
01311>       {Vmax=  .847:Dmax=  .278}
01312> R0025:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01313>     CALIB NASHYD          1.0 01:A-11          7.93     .111 No_date    2:41   13.76 .240     .000
01314>       [CN= 63.0: N= 3.00: Tp=  .99]
01315> R0025:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01316>     ADD HYD               1.0 02:Node_3R      33.86     .494 No_date    3:26   26.82  n/a     .000
01317>                     +     1.0 02:A-09          8.04     .059 No_date    3:11    8.76  n/a     .000
01318>                     +     1.0 02:A-08          7.64     .057 No_date    3:14    9.06  n/a     .000
01319>                     +     1.0 02:A-11          7.93     .111 No_date    2:41   13.76  n/a     .000
01320>                     +     1.0 02:A-12         11.73     .107 No_date    2:52    9.67  n/a     .000
01321>                     +     1.0 02:Node_4R      26.05     .307 No_date    3:31   15.15  n/a     .000
01322>                   SUM=    1.0 01:Outlet       95.24    1.110 No_date    3:17   17.47  n/a     .000
01323> R0025:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01324>     SAVE HYD              1.0 01:Outlet       95.24    1.110 No_date    3:17   17.47  n/a     .000
01325>       fname :Outlet.0025
01326>       remark:Total Outflows to Sandy Hook Road
01327>   ** END OF RUN :   49
01328>
01329> ********************************************************************************************************
01330>
01331>
01332>
01333>
01334>
01335>  RUN#:COMMAND#
01336> R0050:C00001------------------------------------------------------------------------------------------
01337>      START
01338>       [TZERO =    .00 hrs on        0]
01339>       [METOUT=   2    (1=imperial, 2=metric output)]
01340>       [NSTORM=   1 ]
01341>       [NRUN  = 0050 ]
01342> #*****************************************************************************
01343> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01344> #*****************************************************************************
01345> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01346> #  Date        : 2023-10
01347> #  Modeller    : [JB]
01348> #  Updated             : 2025-04 [PP]
01349> #  Company     : JFSA Ottawa
01350> #  License #   : 2549237
01351> #*****************************************************************************
01352> R0050:C00002------------------------------------------------------------------------------------------
01353>      READ STORM
01354>       Filename = STORM.001
01355>       Comment  = Belleville: 50-Year, 4-Hour Chicago
01356>       [SDT=10.00:SDUR=   4.00:PTOT=  63.51]
01357> R0050:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01358>     CALIB STANDHYD        1.0 01:HIGHWAY33     8.39    2.395 No_date    1:21   54.56 .859     .000
01359>       [XIMP=.76:TIMP=.86]
01360>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01361>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01362>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01363> R0050:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01364>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33     8.39    2.395 No_date    1:21   54.56  n/a     .000
01365>                 out <=    1.0 01:NodeB         8.39     .308 No_date    1:58   54.56  n/a     .000
01366>            overflow <=    1.0 03:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
01367>      {MxStoUsed=.2979E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01368> R0050:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01369>     ADD HYD               1.0 02:NodeB         8.39     .308 No_date    1:58   54.56  n/a     .000
01370>                     +     1.0 02:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
01371>                   SUM=    1.0 01:Node_1        8.39     .308 No_date    1:58   54.56  n/a     .000
01372> R0050:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01373>     ROUTE CHANNEL   ->    1.0 02:Node_1        8.39     .308 No_date    1:58   54.56  n/a     .000
01374>      [RDT= 1.00] out<-    1.0 01:Node_1R       8.39     .306 No_date    2:04   54.56  n/a     .000
01375>       [L/S/n=  327./ .920/.035]
01376>       {Vmax=  .835:Dmax=  .284}
01377> #*****************************************************************************
01378> # Replication of the OTTHYMO model for the Choice Properties REIT
01379> # development as per the November 2023 'Proposed Retails Pads B & C
01380> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
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01381> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01382> # Notes:
01383> # - DT changed from 5 min to 1 min
01384> # - Reservoir Overflows added to the downstream node for all reservoirs
01385> #*******************************************************************************
01386> # 0003
01387> #*******************************************************************************
01388> R0050:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01389>     CALIB STANDHYD        1.0 01:0003           .24     .081 No_date    1:20   58.14 .915     .000
01390>       [XIMP=.90:TIMP=.90]
01391>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01392>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01393>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01394> #*******************************************************************************
01395> # 0002
01396> #*******************************************************************************
01397> R0050:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01398>     CALIB STANDHYD        1.0 01:0002           .07     .025 No_date    1:20   62.09 .978     .000
01399>       [XIMP=.99:TIMP=.99]
01400>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01401>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01402>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
01403> #*******************************************************************************
01404> # 0001
01405> #*******************************************************************************
01406> R0050:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01407>     CALIB STANDHYD        1.0 01:0001           .93     .301 No_date    1:20   55.96 .881     .000
01408>       [XIMP=.85:TIMP=.85]
01409>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01410>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01411>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01412> #*******************************************************************************
01413> # 0006
01414> #*******************************************************************************
01415> R0050:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01416>     CALIB STANDHYD        1.0 01:0006           .24     .087 No_date    1:20   62.10 .978     .000
01417>       [XIMP=.99:TIMP=.99]
01418>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01419>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01420>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01421> #*******************************************************************************
01422> # 0007
01423> #*******************************************************************************
01424> R0050:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01425>     CALIB STANDHYD        1.0 01:0007           .38     .129 No_date    1:20   58.15 .915     .000
01426>       [XIMP=.90:TIMP=.90]
01427>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01428>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01429>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01430> #*******************************************************************************
01431> # 0044
01432> #*******************************************************************************
01433> R0050:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01434>     CALIB STANDHYD        1.0 01:0044           .54     .189 No_date    1:20   60.33 .950     .000
01435>       [XIMP=.95:TIMP=.95]
01436>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01437>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01438>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01439> #*******************************************************************************
01440> # 0005
01441> #*******************************************************************************
01442> R0050:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01443>     CALIB STANDHYD        1.0 01:0005           .16     .058 No_date    1:20   62.10 .978     .000
01444>       [XIMP=.99:TIMP=.99]
01445>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01446>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01447>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01448> #*******************************************************************************
01449> R0050:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01450>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .025 No_date    1:20   62.09  n/a     .000
01451>                   out <=    1.0 01:0111           .07     .004 No_date    1:41   62.09  n/a     .000
01452>             overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
01453>      {MxStoUsed=.2530E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01454> R0050:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01455>     ADD HYD               1.0 02:0111           .07     .004 No_date    1:41   62.09  n/a     .000
01456>                       +     1.0 02:0001           .93     .301 No_date    1:20   55.96  n/a     .000
01457>                       +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
01458>                    SUM=     1.0 01:0101          1.00     .303 No_date    1:20   56.39  n/a     .000
01459> R0050:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01460>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .087 No_date    1:20   62.10  n/a     .000
01461>                   out <=    1.0 01:0102           .24     .004 No_date    3:00   62.10  n/a     .000
01462>             overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
01463>      {MxStoUsed=.1144E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01464> R0050:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01465>     ADD HYD               1.0 02:0007           .38     .129 No_date    1:20   58.15  n/a     .000
01466>                       +     1.0 02:0044           .54     .189 No_date    1:20   60.33  n/a     .000
01467>                    SUM=     1.0 01:0106           .92     .318 No_date    1:20   59.43  n/a     .000
01468> R0050:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01469>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .058 No_date    1:20   62.10  n/a     .000
01470>                   out <=    1.0 01:0108           .16     .002 No_date    3:01   62.09  n/a     .000
01471>             overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
01472>      {MxStoUsed=.7680E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
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01473> R0050:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01474>     ROUTE RESERVOIR ->    1.0 02:0101           1.00      .303 No_date    1:20   56.39  n/a      .000
01475>                 out <=    1.0 01:0100           1.00      .060 No_date    1:41   56.39  n/a      .000
01476>            overflow <=    1.0 03:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
01477>      {MxStoUsed=.1961E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01478> R0050:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01479>     ADD HYD               1.0 02:0100           1.00      .060 No_date    1:41   56.39  n/a      .000
01480>                     +     1.0 02:0102            .24      .004 No_date    3:00   62.10  n/a      .000
01481>                     +     1.0 02:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
01482>                     +     1.0 02:0102ovf         .00      .000 No_date    0:00     .00  n/a      .000
01483>                   SUM=    1.0 01:0103           1.24      .063 No_date    1:51   57.50  n/a      .000
01484> R0050:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01485>     ADD HYD               1.0 02:0106            .92      .318 No_date    1:20   59.43  n/a      .000
01486>                     +     1.0 02:0108            .16      .002 No_date    3:01   62.09  n/a      .000
01487>                     +     1.0 02:0108ovf         .00      .000 No_date    0:00     .00  n/a      .000
01488>                   SUM=    1.0 01:0107           1.08      .319 No_date    1:20   59.82  n/a      .000
01489> R0050:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01490>     ADD HYD               1.0 02:0003            .24      .081 No_date    1:20   58.14  n/a      .000
01491>                     +     1.0 02:0103           1.24      .063 No_date    1:51   57.50  n/a      .000
01492>                   SUM=    1.0 01:0104           1.48      .143 No_date    1:20   57.60  n/a      .000
01493> R0050:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01494>     ROUTE RESERVOIR ->    1.0 02:0107           1.08      .319 No_date    1:20   59.82  n/a      .000
01495>                 out <=    1.0 01:0109           1.08      .049 No_date    1:42   59.76  n/a      .000
01496>            overflow <=    1.0 03:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
01497>      {MxStoUsed=.3746E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01498> R0050:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01499>     ROUTE RESERVOIR ->    1.0 02:0104           1.48      .143 No_date    1:20   57.60  n/a      .000
01500>                 out <=    1.0 01:0105           1.48      .068 No_date    2:21   57.54  n/a      .000
01501>            overflow <=    1.0 03:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
01502>      {MxStoUsed=.3920E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01503> R0050:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01504>     ADD HYD               1.0 02:0105           1.48      .068 No_date    2:21   57.54  n/a      .000
01505>                     +     1.0 02:0109           1.08      .049 No_date    1:42   59.76  n/a      .000
01506>                     +     1.0 02:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
01507>                     +     1.0 02:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
01508>                   SUM=    1.0 01:0110           2.56      .096 No_date    2:14   58.47  n/a      .000
01509> # End of the replicated OTTHYMO model
01510> #*****************************************************************************
01511> R0050:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01512>     CALIB NASHYD          1.0 01:A-03           6.55      .289 No_date    2:02   28.30 .446      .000
01513>       [CN= 80.0: N= 3.00: Tp=  .56]
01514> R0050:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01515>     ADD HYD               1.0 02:A-03           6.55      .289 No_date    2:02   28.30  n/a      .000
01516>                     +     1.0 02:Node_1R        8.39      .306 No_date    2:04   54.56  n/a      .000
01517>                     +     1.0 02:0110           2.56      .096 No_date    2:14   58.47  n/a      .000
01518>                   SUM=    1.0 01:Node_2        17.51      .681 No_date    2:09   45.28  n/a      .000
01519> R0050:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01520>     ROUTE CHANNEL   ->    1.0 02:Node_2        17.51      .681 No_date    2:09   45.28  n/a      .000
01521>      [RDT= 1.00] out<-    1.0 01:Node_2R       17.51      .594 No_date    2:29   45.28  n/a      .000
01522>       [L/S/n=  648./ .510/.035]
01523>       {Vmax=  .476:Dmax=  .225}
01524> R0050:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01525>     CALIB NASHYD          1.0 01:A-05          12.26      .163 No_date    3:24   17.17 .270      .000
01526>       [CN= 64.0: N= 3.00: Tp= 1.51]
01527> R0050:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01528>     CALIB NASHYD          1.0 01:A-07           4.09      .045 No_date    2:34   10.37 .163      .000
01529>       [CN= 48.0: N= 3.00: Tp=  .90]
01530> R0050:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01531>     ADD HYD               1.0 02:Node_2R       17.51      .594 No_date    2:29   45.28  n/a      .000
01532>                     +     1.0 02:A-05          12.26      .163 No_date    3:24   17.17  n/a      .000
01533>                     +     1.0 02:A-07           4.09      .045 No_date    2:34   10.37  n/a      .000
01534>                   SUM=    1.0 01:Node_3        33.86      .770 No_date    2:37   30.88  n/a      .000
01535> R0050:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01536>     SAVE HYD              1.0 01:Node_3        33.86      .770 No_date    2:37   30.88  n/a      .000
01537>       fname :Node_3.0050
01538>       remark:Future Pond Outflow
01539> R0050:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01540>     ROUTE CHANNEL   ->    1.0 02:Node_3        33.86      .770 No_date    2:37   30.88  n/a      .000
01541>      [RDT= 1.00] out<-    1.0 01:Node_3R       33.86      .611 No_date    3:21   30.88  n/a      .000
01542>       [L/S/n=  907./ .220/.035]
01543>       {Vmax=  .327:Dmax=  .201}
01544> R0050:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01545>     CALIB NASHYD          1.0 01:A-08           7.64      .069 No_date    3:13   11.07 .174      .000
01546>       [CN= 50.0: N= 3.00: Tp= 1.36]
01547> R0050:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01548>     CALIB NASHYD          1.0 01:A-09           8.04      .072 No_date    3:10   10.71 .169      .000
01549>       [CN= 49.0: N= 3.00: Tp= 1.32]
01550> R0050:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01551>     CALIB NASHYD          1.0 01:A-12          11.73      .131 No_date    2:51   11.81 .186      .000
01552>       [CN= 52.0: N= 3.00: Tp= 1.10]
01553> #West Branch
01554> R0050:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01555>     CALIB NASHYD          1.0 01:A-04          18.63      .295 No_date    3:19   20.02 .315      .000
01556>       [CN= 69.0: N= 3.00: Tp= 1.47]
01557> R0050:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01558>     CALIB NASHYD          1.0 01:A-10           7.42      .079 No_date    3:25   13.82 .218      .000
01559>       [CN= 57.0: N= 3.00: Tp= 1.51]
01560> R0050:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01561>     ADD HYD               1.0 02:A-04          18.63      .295 No_date    3:19   20.02  n/a      .000
01562>                     +     1.0 02:A-10           7.42      .079 No_date    3:25   13.82  n/a      .000
01563>                   SUM=    1.0 01:Node_4        26.05      .373 No_date    3:20   18.26  n/a      .000
01564> R0050:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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01565>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .373 No_date    3:20   18.26  n/a     .000
01566>       [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .371 No_date    3:29   18.26  n/a     .000
01567>        [L/S/n=  474./ .660/.035]
01568>        {Vmax=  .874:Dmax=  .304}
01569> R0050:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01570>     CALIB NASHYD          1.0 01:A-11           7.93     .135 No_date    2:40   16.65 .262     .000
01571>       [CN= 63.0: N= 3.00: Tp=  .99]
01572> R0050:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01573>     ADD HYD               1.0 02:Node_3R       33.86     .611 No_date    3:21   30.88  n/a     .000
01574>                     +     1.0 02:A-09           8.04     .072 No_date    3:10   10.71  n/a     .000
01575>                     +     1.0 02:A-08           7.64     .069 No_date    3:13   11.07  n/a     .000
01576>                     +     1.0 02:A-11           7.93     .135 No_date    2:40   16.65  n/a     .000
01577>                     +     1.0 02:A-12          11.73     .131 No_date    2:51   11.81  n/a     .000
01578>                     +     1.0 02:Node_4R       26.05     .371 No_date    3:29   18.26  n/a     .000
01579>                   SUM=    1.0 01:Outlet        95.24    1.361 No_date    3:15   20.60  n/a     .000
01580> R0050:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01581>     SAVE HYD              1.0 01:Outlet        95.24    1.361 No_date    3:15   20.60  n/a     .000
01582>       fname :Outlet.0050
01583>       remark:Total Outflows to Sandy Hook Road
01584>   ** END OF RUN :   98
01585>
01586> ********************************************************************************************************
01587>
01588>
01589>
01590>
01591>
01592>  RUN#:COMMAND#
01593> R0099:C00001-----------------------------------------------------------------------------------------------
01594>      START
01595>       [TZERO =    .00 hrs on        0]
01596>       [METOUT=   2    (1=imperial, 2=metric output)]
01597>       [NSTORM=   1 ]
01598>       [NRUN  = 0099 ]
01599> #*************************************************************************
01600> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01601> #*************************************************************************
01602> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01603> #  Date        : 2023-10
01604> #  Modeller    : [JB]
01605> #  Updated             : 2025-04 [PP]
01606> #  Company     : JFSA Ottawa
01607> #  License #   : 2549237
01608> #*************************************************************************
01609> R0099:C00002-----------------------------------------------------------------------------------------------
01610>      READ STORM
01611>       Filename = STORM.001
01612>       Comment  = Belleville: 100-Year, 4-Hour Chicago
01613>       [SDT=10.00:SDUR=   4.00:PTOT=  69.54]
01614> R0099:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01615>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.661 No_date    1:21   60.40 .869     .000
01616>       [XIMP=.76:TIMP=.86]
01617>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01618>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01619>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01620> R0099:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01621>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.661 No_date    1:21   60.40  n/a     .000
01622>                  out <=    1.0 01:NodeB          8.39     .380 No_date    1:54   60.40  n/a     .000
01623>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01624>      {MxStoUsed=.3243E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01625> R0099:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01626>     ADD HYD               1.0 02:NodeB          8.39     .380 No_date    1:54   60.40  n/a     .000
01627>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01628>                   SUM=    1.0 01:Node_1         8.39     .380 No_date    1:54   60.40  n/a     .000
01629> R0099:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01630>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .380 No_date    1:54   60.40  n/a     .000
01631>       [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .374 No_date    2:00   60.40  n/a     .000
01632>        [L/S/n=  327./ .920/.035]
01633>        {Vmax=  .878:Dmax=  .312}
01634> #*************************************************************************
01635> # Replication of the OTTHYMO model for the Choice Properties REIT
01636> # development as per the November 2023 'Proposed Retails Pads B & C
01637> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
01638> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01639> # Notes:
01640> # - DT changed from 5 min to 1 min
01641> # - Reservoir Overflows added to the downstream node for all reservoirs
01642> #*************************************************************************
01643> # 0003
01644> #*************************************************************************
01645> R0099:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01646>     CALIB STANDHYD        1.0 01:0003            .24     .090 No_date    1:20   63.97 .920     .000
01647>       [XIMP=.90:TIMP=.90]
01648>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01649>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01650>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01651> #*************************************************************************
01652> # 0002
01653> #*************************************************************************
01654> R0099:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01655>     CALIB STANDHYD        1.0 01:0002            .07     .028 No_date    1:20   68.10 .979     .000
01656>       [XIMP=.99:TIMP=.99]
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01657>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01658>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01659>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
01660> #*******************************************************************************
01661> # 0001
01662> #*******************************************************************************
01663> R0099:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01664>     CALIB STANDHYD        1.0 01:0001            .93     .331 No_date    1:20   61.69 .887     .000
01665>       [XIMP=.85:TIMP=.85]
01666>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01667>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01668>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01669> #*******************************************************************************
01670> # 0006
01671> #*******************************************************************************
01672> R0099:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01673>     CALIB STANDHYD        1.0 01:0006            .24     .095 No_date    1:20   68.10 .979     .000
01674>       [XIMP=.99:TIMP=.99]
01675>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01676>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01677>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01678> #*******************************************************************************
01679> # 0007
01680> #*******************************************************************************
01681> R0099:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01682>     CALIB STANDHYD        1.0 01:0007            .38     .142 No_date    1:20   63.97 .920     .000
01683>       [XIMP=.90:TIMP=.90]
01684>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01685>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01686>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01687> #*******************************************************************************
01688> # 0044
01689> #*******************************************************************************
01690> R0099:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01691>     CALIB STANDHYD        1.0 01:0044            .54     .208 No_date    1:20   66.26 .953     .000
01692>       [XIMP=.95:TIMP=.95]
01693>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01694>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01695>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01696> #*******************************************************************************
01697> # 0005
01698> #*******************************************************************************
01699> R0099:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01700>     CALIB STANDHYD        1.0 01:0005            .16     .063 No_date    1:20   68.11 .979     .000
01701>       [XIMP=.99:TIMP=.99]
01702>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01703>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01704>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01705> #*******************************************************************************
01706> R0099:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01707>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .028 No_date    1:20   68.10  n/a     .000
01708>                   out <=    1.0 01:0111            .07     .004 No_date    1:41   68.10  n/a     .000
01709>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01710>      {MxStoUsed=.2749E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01711> R0099:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01712>     ADD HYD               1.0 02:0111            .07     .004 No_date    1:41   68.10  n/a     .000
01713>                       +     1.0 02:0001            .93     .331 No_date    1:20   61.69  n/a     .000
01714>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01715>                    SUM=     1.0 01:0101           1.00     .334 No_date    1:20   62.14  n/a     .000
01716> R0099:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01717>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .095 No_date    1:20   68.10  n/a     .000
01718>                   out <=    1.0 01:0102            .24     .004 No_date    3:00   68.10  n/a     .000
01719>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01720>      {MxStoUsed=.1253E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01721> R0099:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01722>     ADD HYD               1.0 02:0007            .38     .142 No_date    1:20   63.97  n/a     .000
01723>                       +     1.0 02:0044            .54     .208 No_date    1:20   66.26  n/a     .000
01724>                    SUM=     1.0 01:0106            .92     .350 No_date    1:20   65.31  n/a     .000
01725> R0099:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01726>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .063 No_date    1:20   68.11  n/a     .000
01727>                   out <=    1.0 01:0108            .16     .003 No_date    3:01   68.10  n/a     .000
01728>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01729>      {MxStoUsed=.8408E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01730> R0099:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01731>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .334 No_date    1:20   62.14  n/a     .000
01732>                   out <=    1.0 01:0100           1.00     .061 No_date    1:42   62.14  n/a     .000
01733>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01734>      {MxStoUsed=.2289E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01735> R0099:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01736>     ADD HYD               1.0 02:0100           1.00     .061 No_date    1:42   62.14  n/a     .000
01737>                       +     1.0 02:0102            .24     .004 No_date    3:00   68.10  n/a     .000
01738>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01739>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01740>                    SUM=     1.0 01:0103           1.24     .064 No_date    1:50   63.29  n/a     .000
01741> R0099:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01742>     ADD HYD               1.0 02:0106            .92     .350 No_date    1:20   65.31  n/a     .000
01743>                       +     1.0 02:0108            .16     .003 No_date    3:01   68.10  n/a     .000
01744>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01745>                    SUM=     1.0 01:0107           1.08     .351 No_date    1:20   65.73  n/a     .000
01746> R0099:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01747>     ADD HYD               1.0 02:0003            .24     .090 No_date    1:20   63.97  n/a     .000
01748>                       +     1.0 02:0103           1.24     .064 No_date    1:50   63.29  n/a     .000
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01749>                  SUM=     1.0 01:0104          1.48     .152 No_date    1:20   63.40  n/a     .000
01750> R0099:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01751>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .351 No_date    1:20   65.73  n/a     .000
01752>                 out <=    1.0 01:0109          1.08     .069 No_date    1:37   65.66  n/a     .000
01753>           overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01754>      {MxStoUsed=.3844E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01755> R0099:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01756>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .152 No_date    1:20   63.40  n/a     .000
01757>                 out <=    1.0 01:0105          1.48     .070 No_date    2:20   63.36  n/a     .000
01758>           overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01759>      {MxStoUsed=.3924E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01760> R0099:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01761>     ADD HYD               1.0 02:0105          1.48     .070 No_date    2:20   63.36  n/a     .000
01762>                   +     1.0 02:0109          1.08     .069 No_date    1:37   65.66  n/a     .000
01763>                   +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01764>                   +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01765>                 SUM=    1.0 01:0110          2.56     .103 No_date    2:10   64.32  n/a     .000
01766> # End of the replicated OTTHYMO model
01767> #*****************************************************************************
01768> R0099:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01769>     CALIB NASHYD          1.0 01:A-03          6.55     .338 No_date    2:01   32.78 .471     .000
01770>       [CN= 80.0: N= 3.00: Tp=  .56]
01771> R0099:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01772>     ADD HYD               1.0 02:A-03          6.55     .338 No_date    2:01   32.78  n/a     .000
01773>                   +     1.0 02:Node_1R       8.39     .374 No_date    2:00   60.40  n/a     .000
01774>                   +     1.0 02:0110          2.56     .103 No_date    2:10   64.32  n/a     .000
01775>                 SUM=    1.0 01:Node_2       17.51     .811 No_date    2:04   50.61  n/a     .000
01776> R0099:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01777>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51     .811 No_date    2:04   50.61  n/a     .000
01778>      [RDT= 1.00] out<-    1.0 01:Node_2R      17.51     .697 No_date    2:24   50.61  n/a     .000
01779>       [L/S/n=  648./ .510/.035]
01780>       {Vmax=  .504:Dmax=  .238}
01781> R0099:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01782>     CALIB NASHYD          1.0 01:A-05         12.26     .192 No_date    3:23   20.26 .291     .000
01783>       [CN= 64.0: N= 3.00: Tp= 1.51]
01784> R0099:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01785>     CALIB NASHYD          1.0 01:A-07          4.09     .055 No_date    2:33   12.38 .178     .000
01786>       [CN= 48.0: N= 3.00: Tp=  .90]
01787> R0099:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01788>     ADD HYD               1.0 02:Node_2R      17.51     .697 No_date    2:24   50.61  n/a     .000
01789>                   +     1.0 02:A-05         12.26     .192 No_date    3:23   20.26  n/a     .000
01790>                   +     1.0 02:A-07          4.09     .055 No_date    2:33   12.38  n/a     .000
01791>                 SUM=    1.0 01:Node_3       33.86     .897 No_date    2:32   35.00  n/a     .000
01792> R0099:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01793>     SAVE HYD              1.0 01:Node_3       33.86     .897 No_date    2:32   35.00  n/a     .000
01794>       fname :Node_3.0099
01795>       remark:Future Pond Outflow
01796> R0099:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01797>     ROUTE CHANNEL   ->    1.0 02:Node_3       33.86     .897 No_date    2:32   35.00  n/a     .000
01798>      [RDT= 1.00] out<-    1.0 01:Node_3R      33.86     .720 No_date    3:21   35.00  n/a     .000
01799>       [L/S/n=  907./ .220/.035]
01800>       {Vmax=  .340:Dmax=  .215}
01801> R0099:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01802>     CALIB NASHYD          1.0 01:A-08          7.64     .083 No_date    3:13   13.20 .190     .000
01803>       [CN= 50.0: N= 3.00: Tp= 1.36]
01804> R0099:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01805>     CALIB NASHYD          1.0 01:A-09          8.04     .086 No_date    3:09   12.78 .184     .000
01806>       [CN= 49.0: N= 3.00: Tp= 1.32]
01807> R0099:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01808>     CALIB NASHYD          1.0 01:A-12         11.73     .156 No_date    2:50   14.06 .202     .000
01809>       [CN= 52.0: N= 3.00: Tp= 1.10]
01810> #West Branch
01811> R0099:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01812>     CALIB NASHYD          1.0 01:A-04         18.63     .347 No_date    3:18   23.51 .338     .000
01813>       [CN= 69.0: N= 3.00: Tp= 1.47]
01814> R0099:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01815>     CALIB NASHYD          1.0 01:A-10          7.42     .094 No_date    3:24   16.41 .236     .000
01816>       [CN= 57.0: N= 3.00: Tp= 1.51]
01817> R0099:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01818>     ADD HYD               1.0 02:A-04         18.63     .347 No_date    3:18   23.51  n/a     .000
01819>                   +     1.0 02:A-10          7.42     .094 No_date    3:24   16.41  n/a     .000
01820>                 SUM=    1.0 01:Node_4       26.05     .441 No_date    3:20   21.49  n/a     .000
01821> R0099:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01822>     ROUTE CHANNEL   ->    1.0 02:Node_4       26.05     .441 No_date    3:20   21.49  n/a     .000
01823>      [RDT= 1.00] out<-    1.0 01:Node_4R      26.05     .439 No_date    3:27   21.49  n/a     .000
01824>       [L/S/n=  474./ .660/.035]
01825>       {Vmax=  .903:Dmax=  .332}
01826> R0099:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01827>     CALIB NASHYD          1.0 01:A-11          7.93     .160 No_date    2:39   19.66 .283     .000
01828>       [CN= 63.0: N= 3.00: Tp=  .99]
01829> R0099:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01830>     ADD HYD               1.0 02:Node_3R      33.86     .720 No_date    3:21   35.00  n/a     .000
01831>                   +     1.0 02:A-09          8.04     .086 No_date    3:09   12.78  n/a     .000
01832>                   +     1.0 02:A-08          7.64     .083 No_date    3:13   13.20  n/a     .000
01833>                   +     1.0 02:A-11          7.93     .160 No_date    2:39   19.66  n/a     .000
01834>                   +     1.0 02:A-12         11.73     .156 No_date    2:50   14.06  n/a     .000
01835>                   +     1.0 02:Node_4R      26.05     .439 No_date    3:27   21.49  n/a     .000
01836>                 SUM=    1.0 01:Outlet       95.24    1.611 No_date    3:14   23.82  n/a     .000
01837> R0099:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01838>     SAVE HYD              1.0 01:Outlet       95.24    1.611 No_date    3:14   23.82  n/a     .000
01839>       fname :Outlet.0099
01840>       remark:Total Outflows to Sandy Hook Road
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01841>   ** END OF RUN :  101
01842>
01843> ****************************************************************************************************
01844>
01845>
01846>
01847>
01848>
01849>  RUN#:COMMAND#
01850> R0102:C00001------------------------------------------------------------------------------------------
01851>      START
01852>       [TZERO =    .00 hrs on        0]
01853>       [METOUT=   2    (1=imperial, 2=metric output)]
01854>       [NSTORM=   1 ]
01855>       [NRUN  = 0102 ]
01856> #*************************************************************************
01857> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01858> #*************************************************************************
01859> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01860> #  Date        : 2023-10
01861> #  Modeller    : [JB]
01862> #  Updated             : 2025-04 [PP]
01863> #  Company     : JFSA Ottawa
01864> #  License #   : 2549237
01865> #*************************************************************************
01866> R0102:C00002------------------------------------------------------------------------------------------
01867>      READ STORM
01868>       Filename = STORM.001
01869>       Comment  = 2-Yr 12-hr SCS Storm Type II - Belleville Station
01870>       [SDT= 5.00:SDUR=  12.00:PTOT=  44.49]
01871> R0102:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01872>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.097 No_date    6:01   35.89 .807     .000
01873>       [XIMP=.76:TIMP=.86]
01874>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01875>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01876>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01877> R0102:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01878>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.097 No_date    6:01   35.89  n/a     .000
01879>                  out <=    1.0 01:NodeB          8.39     .132 No_date    6:36   35.89  n/a     .000
01880>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01881>      {MxStoUsed=.1875E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01882> R0102:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01883>     ADD HYD               1.0 02:NodeB          8.39     .132 No_date    6:36   35.89  n/a     .000
01884>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01885>                   SUM=    1.0 01:Node_1         8.39     .132 No_date    6:36   35.89  n/a     .000
01886> R0102:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01887>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .132 No_date    6:36   35.89  n/a     .000
01888>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .131 No_date    6:43   35.89  n/a     .000
01889>       [L/S/n=  327./ .920/.035]
01890>       {Vmax=  .659:Dmax=  .194}
01891> #*************************************************************************
01892> # Replication of the OTTHYMO model for the Choice Properties REIT
01893> # development as per the November 2023 'Proposed Retails Pads B & C
01894> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
01895> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01896> # Notes:
01897> # - DT changed from 5 min to 1 min
01898> # - Reservoir Overflows added to the downstream node for all reservoirs
01899> #*************************************************************************
01900> # 0003
01901> #*************************************************************************
01902> R0102:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01903>     CALIB STANDHYD        1.0 01:0003           .24     .036 No_date    6:00   39.84 .895     .000
01904>       [XIMP=.90:TIMP=.90]
01905>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01906>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01907>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01908> #*************************************************************************
01909> # 0002
01910> #*************************************************************************
01911> R0102:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01912>     CALIB STANDHYD        1.0 01:0002           .07     .011 No_date    6:00   43.14 .970     .000
01913>       [XIMP=.99:TIMP=.99]
01914>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01915>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01916>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
01917> #*************************************************************************
01918> # 0001
01919> #*************************************************************************
01920> R0102:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01921>     CALIB STANDHYD        1.0 01:0001           .93     .132 No_date    6:00   38.02 .854     .000
01922>       [XIMP=.85:TIMP=.85]
01923>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01924>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01925>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01926> #*************************************************************************
01927> # 0006
01928> #*************************************************************************
01929> R0102:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01930>     CALIB STANDHYD        1.0 01:0006           .24     .039 No_date    6:00   43.16 .970     .000
01931>       [XIMP=.99:TIMP=.99]
01932>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
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01933>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01934>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01935> #*******************************************************************************
01936> # 0007
01937> #*******************************************************************************
01938> R0102:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01939>     CALIB STANDHYD        1.0 01:0007            .38     .057 No_date    6:00   39.84 .895     .000
01940>       [XIMP=.90:TIMP=.90]
01941>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01942>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01943>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01944> #*******************************************************************************
01945> # 0044
01946> #*******************************************************************************
01947> R0102:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01948>     CALIB STANDHYD        1.0 01:0044            .54     .084 No_date    6:00   41.67 .936     .000
01949>       [XIMP=.95:TIMP=.95]
01950>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01951>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01952>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01953> #*******************************************************************************
01954> # 0005
01955> #*******************************************************************************
01956> R0102:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01957>     CALIB STANDHYD        1.0 01:0005            .16     .026 No_date    6:00   43.15 .970     .000
01958>       [XIMP=.99:TIMP=.99]
01959>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01960>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01961>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01962> #*******************************************************************************
01963> R0102:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01964>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .011 No_date    6:00   43.14  n/a     .000
01965>                   out <=    1.0 01:0111            .07     .002 No_date    6:04   43.14  n/a     .000
01966>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01967>      {MxStoUsed=.1583E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01968> R0102:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01969>     ADD HYD               1.0 02:0111            .07     .002 No_date    6:04   43.14  n/a     .000
01970>                       +     1.0 02:0001            .93     .132 No_date    6:00   38.02  n/a     .000
01971>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01972>                    SUM=     1.0 01:0101           1.00     .134 No_date    6:00   38.38  n/a     .000
01973> R0102:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01974>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .039 No_date    6:00   43.16  n/a     .000
01975>                   out <=    1.0 01:0102            .24     .002 No_date    7:01   43.15  n/a     .000
01976>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01977>      {MxStoUsed=.7169E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01978> R0102:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01979>     ADD HYD               1.0 02:0007            .38     .057 No_date    6:00   39.84  n/a     .000
01980>                       +     1.0 02:0044            .54     .084 No_date    6:00   41.67  n/a     .000
01981>                    SUM=     1.0 01:0106            .92     .141 No_date    6:00   40.92  n/a     .000
01982> R0102:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01983>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .026 No_date    6:00   43.15  n/a     .000
01984>                   out <=    1.0 01:0108            .16     .001 No_date    7:01   43.15  n/a     .000
01985>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01986>      {MxStoUsed=.4789E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01987> R0102:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01988>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .134 No_date    6:00   38.38  n/a     .000
01989>                   out <=    1.0 01:0100           1.00     .058 No_date    6:05   38.38  n/a     .000
01990>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01991>      {MxStoUsed=.6831E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01992> R0102:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01993>     ADD HYD               1.0 02:0100           1.00     .058 No_date    6:05   38.38  n/a     .000
01994>                       +     1.0 02:0102            .24     .002 No_date    7:01   43.15  n/a     .000
01995>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01996>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01997>                    SUM=     1.0 01:0103           1.24     .060 No_date    6:06   39.30  n/a     .000
01998> R0102:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01999>     ADD HYD               1.0 02:0106            .92     .141 No_date    6:00   40.92  n/a     .000
02000>                       +     1.0 02:0108            .16     .001 No_date    7:01   43.15  n/a     .000
02001>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
02002>                    SUM=     1.0 01:0107           1.08     .143 No_date    6:00   41.25  n/a     .000
02003> R0102:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02004>     ADD HYD               1.0 02:0003            .24     .036 No_date    6:00   39.84  n/a     .000
02005>                       +     1.0 02:0103           1.24     .060 No_date    6:06   39.30  n/a     .000
02006>                    SUM=     1.0 01:0104           1.48     .096 No_date    6:00   39.39  n/a     .000
02007> R0102:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02008>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .143 No_date    6:00   41.25  n/a     .000
02009>                   out <=    1.0 01:0109           1.08     .005 No_date    9:11   41.18  n/a     .000
02010>              overflow <=    1.0 03:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
02011>      {MxStoUsed=.3523E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02012> R0102:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02013>     ROUTE RESERVOIR ->    1.0 02:0104           1.48     .096 No_date    6:00   39.39  n/a     .000
02014>                   out <=    1.0 01:0105           1.48     .014 No_date    6:55   39.33  n/a     .000
02015>              overflow <=    1.0 03:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02016>      {MxStoUsed=.3785E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02017> R0102:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02018>     ADD HYD               1.0 02:0105           1.48     .014 No_date    6:55   39.33  n/a     .000
02019>                       +     1.0 02:0109           1.08     .005 No_date    9:11   41.18  n/a     .000
02020>                       +     1.0 02:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02021>                       +     1.0 02:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
02022>                    SUM=     1.0 01:0110           2.56     .015 No_date    6:55   40.11  n/a     .000
02023> # End of the replicated OTTHYMO model
02024> #*******************************************************************************
```

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02025> R0102:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02026>     CALIB NASHYD          1.0 01:A-03          6.55     .144 No_date    6:32   15.35 .345     .000
02027>       [CN= 80.0: N= 3.00: Tp=  .56]
02028> R0102:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02029>     ADD HYD               1.0 02:A-03          6.55     .144 No_date    6:32   15.35  n/a     .000
02030>                     +     1.0 02:Node_1R       8.39     .131 No_date    6:43   35.89  n/a     .000
02031>                     +     1.0 02:0110          2.56     .015 No_date    6:55   40.11  n/a     .000
02032>                   SUM=    1.0 01:Node_2       17.51     .276 No_date    6:45   28.81  n/a     .000
02033> R0102:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02034>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51     .276 No_date    6:45   28.81  n/a     .000
02035>      [RDT= 1.00] out<-    1.0 01:Node_2R      17.51     .232 No_date    6:59   28.81  n/a     .000
02036>       [L/S/n=  648./ .510/.035]
02037>       {Vmax=  .362:Dmax=  .171}
02038> R0102:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02039>     CALIB NASHYD          1.0 01:A-05         12.26     .070 No_date    7:43    8.68 .195     .000
02040>       [CN= 64.0: N= 3.00: Tp= 1.51]
02041> R0102:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02042>     CALIB NASHYD          1.0 01:A-07          4.09     .020 No_date    6:58    5.04 .113     .000
02043>       [CN= 48.0: N= 3.00: Tp=  .90]
02044> R0102:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02045>     ADD HYD               1.0 02:Node_2R      17.51     .232 No_date    6:59   28.81  n/a     .000
02046>                     +     1.0 02:A-05         12.26     .070 No_date    7:43    8.68  n/a     .000
02047>                     +     1.0 02:A-07          4.09     .020 No_date    6:58    5.04  n/a     .000
02048>                   SUM=    1.0 01:Node_3       33.86     .312 No_date    7:06   18.65  n/a     .000
02049> R0102:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02050>     SAVE HYD              1.0 01:Node_3       33.86     .312 No_date    7:06   18.65  n/a     .000
02051>       fname :Node_3.0102
02052>       remark:Future Pond Outflow
02053> R0102:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02054>     ROUTE CHANNEL   ->    1.0 02:Node_3       33.86     .312 No_date    7:06   18.65  n/a     .000
02055>      [RDT= 1.00] out<-    1.0 01:Node_3R      33.86     .238 No_date    8:11   18.65  n/a     .000
02056>       [L/S/n=  907./ .220/.035]
02057>       {Vmax=  .266:Dmax=  .131}
02058> R0102:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02059>     CALIB NASHYD          1.0 01:A-08          7.64     .029 No_date    7:32    5.40 .121     .000
02060>       [CN= 50.0: N= 3.00: Tp= 1.36]
02061> R0102:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02062>     CALIB NASHYD          1.0 01:A-09          8.04     .030 No_date    7:29    5.21 .117     .000
02063>       [CN= 49.0: N= 3.00: Tp= 1.32]
02064> R0102:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02065>     CALIB NASHYD          1.0 01:A-12         11.73     .056 No_date    7:12    5.78 .130     .000
02066>       [CN= 52.0: N= 3.00: Tp= 1.10]
02067> #West Branch
02068> R0102:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02069>     CALIB NASHYD          1.0 01:A-04         18.63     .130 No_date    7:39   10.30 .232     .000
02070>       [CN= 69.0: N= 3.00: Tp= 1.47]
02071> R0102:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02072>     CALIB NASHYD          1.0 01:A-10          7.42     .033 No_date    7:43    6.85 .154     .000
02073>       [CN= 57.0: N= 3.00: Tp= 1.51]
02074> R0102:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02075>     ADD HYD               1.0 02:A-04         18.63     .130 No_date    7:39   10.30  n/a     .000
02076>                     +     1.0 02:A-10          7.42     .033 No_date    7:43    6.85  n/a     .000
02077>                   SUM=    1.0 01:Node_4       26.05     .163 No_date    7:40    9.32  n/a     .000
02078> R0102:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02079>     ROUTE CHANNEL   ->    1.0 02:Node_4       26.05     .163 No_date    7:40    9.32  n/a     .000
02080>      [RDT= 1.00] out<-    1.0 01:Node_4R      26.05     .162 No_date    7:50    9.32  n/a     .000
02081>       [L/S/n=  474./ .660/.035]
02082>       {Vmax=  .832:Dmax=  .159}
02083> R0102:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02084>     CALIB NASHYD          1.0 01:A-11          7.93     .060 No_date    7:04    8.39 .189     .000
02085>       [CN= 63.0: N= 3.00: Tp=  .99]
02086> R0102:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02087>     ADD HYD               1.0 02:Node_3R      33.86     .238 No_date    8:11   18.65  n/a     .000
02088>                     +     1.0 02:A-09          8.04     .030 No_date    7:29    5.21  n/a     .000
02089>                     +     1.0 02:A-08          7.64     .029 No_date    7:32    5.40  n/a     .000
02090>                     +     1.0 02:A-11          7.93     .060 No_date    7:04    8.39  n/a     .000
02091>                     +     1.0 02:A-12         11.73     .056 No_date    7:12    5.78  n/a     .000
02092>                     +     1.0 02:Node_4R      26.05     .162 No_date    7:50    9.32  n/a     .000
02093>                   SUM=    1.0 01:Outlet       95.24     .549 No_date    7:46   11.46  n/a     .000
02094> R0102:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02095>     SAVE HYD              1.0 01:Outlet       95.24     .549 No_date    7:46   11.46  n/a     .000
02096>       fname :Outlet.0102
02097>       remark:Total Outflows to Sandy Hook Road
02098>   ** END OF RUN :  104
02099>
02100> ************************************************************************************************
02101>
02102>
02103>
02104>
02105>
02106>  RUN#:COMMAND#
02107> R0105:C00001-----------------------------------------------------------------------------------------
02108>      START
02109>       [TZERO =    .00 hrs on        0]
02110>       [METOUT=   2    (1=imperial, 2=metric output)]
02111>       [NSTORM=   1 ]
02112>       [NRUN  = 0105 ]
02113> #*********************************************************************
02114> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02115> #*********************************************************************
02116> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
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02117> #  Date        : 2023-10
02118> #  Modeller    : [JB]
02119> #  Updated             : 2025-04 [PP]
02120> #  Company     : JFSA Ottawa
02121> #  License #   : 2549237
02122> #*****************************************************************************
02123> R0105:C00002-------------------------------------------------------------------------------------------
02124>      READ STORM
02125>       Filename = STORM.001
02126>       Comment  = 5-Yr 12-hr SCS Storm Type II - Belleville Station
02127>       [SDT= 5.00:SDUR=  12.00:PTOT=  58.08]
02128> R0105:C00003-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02129>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.510 No_date    6:00   48.29 .831     .000
02130>       [XIMP=.76:TIMP=.86]
02131>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02132>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02133>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02134> R0105:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02135>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.510 No_date    6:00   48.29  n/a     .000
02136>                  out <=    1.0 01:NodeB          8.39     .211 No_date    6:33   48.29  n/a     .000
02137>             overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02138>      {MxStoUsed=.2487E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02139> R0105:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02140>     ADD HYD               1.0 02:NodeB          8.39     .211 No_date    6:33   48.29  n/a     .000
02141>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02142>                   SUM=     1.0 01:Node_1         8.39     .211 No_date    6:33   48.29  n/a     .000
02143> R0105:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02144>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .211 No_date    6:33   48.29  n/a     .000
02145>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .208 No_date    6:37   48.29  n/a     .000
02146>       [L/S/n=  327./ .920/.035]
02147>       {Vmax=  .754:Dmax=  .240}
02148> #*****************************************************************************
02149> # Replication of the OTTHYMO model for the Choice Properties REIT
02150> # development as per the November 2023 'Proposed Retails Pads B & C
02151> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02152> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02153> # Notes:
02154> # - DT changed from 5 min to 1 min
02155> # - Reservoir Overflows added to the downstream node for all reservoirs
02156> #*****************************************************************************
02157> # 0003
02158> #*****************************************************************************
02159> R0105:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02160>     CALIB STANDHYD        1.0 01:0003           .24     .048 No_date    6:00   52.74 .908     .000
02161>       [XIMP=.90:TIMP=.90]
02162>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02163>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02164>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02165> #*****************************************************************************
02166> # 0002
02167> #*****************************************************************************
02168> R0105:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02169>     CALIB STANDHYD        1.0 01:0002           .07     .015 No_date    6:00   56.65 .975     .000
02170>       [XIMP=.99:TIMP=.99]
02171>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02172>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02173>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
02174> #*****************************************************************************
02175> # 0001
02176> #*****************************************************************************
02177> R0105:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02178>     CALIB STANDHYD        1.0 01:0001           .93     .180 No_date    6:00   50.58 .871     .000
02179>       [XIMP=.85:TIMP=.85]
02180>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02181>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02182>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02183> #*****************************************************************************
02184> # 0006
02185> #*****************************************************************************
02186> R0105:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02187>     CALIB STANDHYD        1.0 01:0006           .24     .051 No_date    6:00   56.67 .976     .000
02188>       [XIMP=.99:TIMP=.99]
02189>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02190>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02191>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02192> #*****************************************************************************
02193> # 0007
02194> #*****************************************************************************
02195> R0105:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02196>     CALIB STANDHYD        1.0 01:0007           .38     .076 No_date    6:00   52.74 .908     .000
02197>       [XIMP=.90:TIMP=.90]
02198>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02199>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02200>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
02201> #*****************************************************************************
02202> # 0044
02203> #*****************************************************************************
02204> R0105:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02205>     CALIB STANDHYD        1.0 01:0044           .54     .112 No_date    6:00   54.91 .945     .000
02206>       [XIMP=.95:TIMP=.95]
02207>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02208>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
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02209>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
02210> #*****************************************************************************
02211> # 0005
02212> #*****************************************************************************
02213> R0105:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02214>     CALIB STANDHYD        1.0 01:0005           .16     .034 No_date    6:00   56.65 .975     .000
02215>       [XIMP=.99:TIMP=.99]
02216>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02217>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02218>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
02219> #*****************************************************************************
02220> R0105:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02221>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .015 No_date    6:00   56.65  n/a     .000
02222>                   out <=    1.0 01:0111           .07     .003 No_date    6:04   56.64  n/a     .000
02223>               overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02224>      {MxStoUsed=.2070E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02225> R0105:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02226>     ADD HYD               1.0 02:0111           .07     .003 No_date    6:04   56.64  n/a     .000
02227>                     +     1.0 02:0001           .93     .180 No_date    6:00   50.58  n/a     .000
02228>                     +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02229>                   SUM=    1.0 01:0101          1.00     .182 No_date    6:00   51.00  n/a     .000
02230> R0105:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02231>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .051 No_date    6:00   56.67  n/a     .000
02232>                   out <=    1.0 01:0102           .24     .003 No_date    6:40   56.66  n/a     .000
02233>               overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
02234>      {MxStoUsed=.9373E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02235> R0105:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02236>     ADD HYD               1.0 02:0007           .38     .076 No_date    6:00   52.75  n/a     .000
02237>                     +     1.0 02:0044           .54     .112 No_date    6:00   54.91  n/a     .000
02238>                   SUM=    1.0 01:0106           .92     .188 No_date    6:00   54.02  n/a     .000
02239> R0105:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02240>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .034 No_date    6:00   56.65  n/a     .000
02241>                   out <=    1.0 01:0108           .16     .002 No_date    7:00   56.65  n/a     .000
02242>               overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
02243>      {MxStoUsed=.6280E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02244> R0105:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02245>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .182 No_date    6:00   51.00  n/a     .000
02246>                   out <=    1.0 01:0100          1.00     .059 No_date    6:06   51.00  n/a     .000
02247>               overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
02248>      {MxStoUsed=.1137E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02249> R0105:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02250>     ADD HYD               1.0 02:0100          1.00     .059 No_date    6:06   51.00  n/a     .000
02251>                     +     1.0 02:0102           .24     .003 No_date    6:40   56.66  n/a     .000
02252>                     +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
02253>                     +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
02254>                   SUM=    1.0 01:0103          1.24     .062 No_date    6:09   52.10  n/a     .000
02255> R0105:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02256>     ADD HYD               1.0 02:0106           .92     .188 No_date    6:00   54.02  n/a     .000
02257>                     +     1.0 02:0108           .16     .002 No_date    7:00   56.65  n/a     .000
02258>                     +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
02259>                   SUM=    1.0 01:0107          1.08     .189 No_date    6:00   54.41  n/a     .000
02260> R0105:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02261>     ADD HYD               1.0 02:0003           .24     .048 No_date    6:00   52.74  n/a     .000
02262>                     +     1.0 02:0103          1.24     .062 No_date    6:09   52.10  n/a     .000
02263>                   SUM=    1.0 01:0104          1.48     .110 No_date    6:00   52.20  n/a     .000
02264> R0105:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02265>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .189 No_date    6:00   54.41  n/a     .000
02266>                   out <=    1.0 01:0109          1.08     .027 No_date    6:30   54.34  n/a     .000
02267>               overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
02268>      {MxStoUsed=.3635E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02269> R0105:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02270>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .110 No_date    6:00   52.20  n/a     .000
02271>                   out <=    1.0 01:0105          1.48     .064 No_date    6:36   52.14  n/a     .000
02272>               overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
02273>      {MxStoUsed=.3910E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02274> R0105:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02275>     ADD HYD               1.0 02:0105          1.48     .064 No_date    6:36   52.14  n/a     .000
02276>                     +     1.0 02:0109          1.08     .027 No_date    6:30   54.34  n/a     .000
02277>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
02278>                     +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
02279>                   SUM=    1.0 01:0110          2.56     .090 No_date    6:32   53.07  n/a     .000
02280> # End of the replicated OTTHYMO model
02281> #*****************************************************************************
02282> R0105:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02283>     CALIB NASHYD          1.0 01:A-03           6.55     .233 No_date    6:31   24.40 .420     .000
02284>       [CN= 80.0: N= 3.00: Tp=  .56]
02285> R0105:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02286>     ADD HYD               1.0 02:A-03           6.55     .233 No_date    6:31   24.40  n/a     .000
02287>                     +     1.0 02:Node_1R        8.39     .208 No_date    6:37   48.29  n/a     .000
02288>                     +     1.0 02:0110           2.56     .090 No_date    6:32   53.07  n/a     .000
02289>                   SUM=    1.0 01:Node_2        17.51     .529 No_date    6:32   40.03  n/a     .000
02290> R0105:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02291>     ROUTE CHANNEL   ->    1.0 02:Node_2        17.51     .529 No_date    6:32   40.03  n/a     .000
02292>      [RDT= 1.00] out<-    1.0 01:Node_2R       17.51     .432 No_date    6:56   40.03  n/a     .000
02293>       [L/S/n=  648./ .510/.035]
02294>       {Vmax=  .447:Dmax=  .210}
02295> R0105:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02296>     CALIB NASHYD          1.0 01:A-05          12.26     .119 No_date    7:41   14.53 .250     .000
02297>       [CN= 64.0: N= 3.00: Tp= 1.51]
02298> R0105:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02299>     CALIB NASHYD          1.0 01:A-07           4.09     .034 No_date    6:57    8.68 .149     .000
02300>       [CN= 48.0: N= 3.00: Tp=  .90]
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02301> R0105:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02302>     ADD HYD               1.0 02:Node_2R       17.51     .432 No_date    6:56   40.03  n/a     .000
02303>                       +     1.0 02:A-05          12.26     .119 No_date    7:41   14.53  n/a     .000
02304>                       +     1.0 02:A-07           4.09     .034 No_date    6:57    8.68  n/a     .000
02305>                   SUM=      1.0 01:Node_3        33.86     .564 No_date    6:58   27.01  n/a     .000
02306> R0105:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02307>     SAVE HYD              1.0 01:Node_3        33.86     .564 No_date    6:58   27.01  n/a     .000
02308>       fname :Node_3.0105
02309>       remark:Future Pond Outflow
02310> R0105:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02311>     ROUTE CHANNEL   ->    1.0 02:Node_3        33.86     .564 No_date    6:58   27.01  n/a     .000
02312>      [RDT= 1.00] out<-    1.0 01:Node_3R       33.86     .422 No_date    7:48   27.01  n/a     .000
02313>       [L/S/n=  907./ .220/.035]
02314>       {Vmax=  .306:Dmax=  .177}
02315> R0105:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02316>     CALIB NASHYD          1.0 01:A-08           7.64     .051 No_date    7:30    9.28 .160     .000
02317>       [CN= 50.0: N= 3.00: Tp= 1.36]
02318> R0105:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02319>     CALIB NASHYD          1.0 01:A-09           8.04     .053 No_date    7:27    8.98 .155     .000
02320>       [CN= 49.0: N= 3.00: Tp= 1.32]
02321> R0105:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02322>     CALIB NASHYD          1.0 01:A-12          11.73     .097 No_date    7:11    9.91 .171     .000
02323>       [CN= 52.0: N= 3.00: Tp= 1.10]
02324> #West Branch
02325> R0105:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02326>     CALIB NASHYD          1.0 01:A-04          18.63     .218 No_date    7:37   17.03 .293     .000
02327>       [CN= 69.0: N= 3.00: Tp= 1.47]
02328> R0105:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02329>     CALIB NASHYD          1.0 01:A-10           7.42     .057 No_date    7:41   11.64 .200     .000
02330>       [CN= 57.0: N= 3.00: Tp= 1.51]
02331> R0105:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02332>     ADD HYD               1.0 02:A-04          18.63     .218 No_date    7:37   17.03  n/a     .000
02333>                       +     1.0 02:A-10           7.42     .057 No_date    7:41   11.64  n/a     .000
02334>                   SUM=      1.0 01:Node_4        26.05     .275 No_date    7:38   15.49  n/a     .000
02335> R0105:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02336>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .275 No_date    7:38   15.49  n/a     .000
02337>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .273 No_date    7:48   15.49  n/a     .000
02338>       [L/S/n=  474./ .660/.035]
02339>       {Vmax=  .834:Dmax=  .265}
02340> R0105:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02341>     CALIB NASHYD          1.0 01:A-11           7.93     .103 No_date    7:02   14.08 .242     .000
02342>       [CN= 63.0: N= 3.00: Tp=  .99]
02343> R0105:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02344>     ADD HYD               1.0 02:Node_3R       33.86     .422 No_date    7:48   27.01  n/a     .000
02345>                       +     1.0 02:A-09           8.04     .053 No_date    7:27    8.98  n/a     .000
02346>                       +     1.0 02:A-08           7.64     .051 No_date    7:30    9.28  n/a     .000
02347>                       +     1.0 02:A-11           7.93     .103 No_date    7:02   14.08  n/a     .000
02348>                       +     1.0 02:A-12          11.73     .097 No_date    7:11    9.91  n/a     .000
02349>                       +     1.0 02:Node_4R       26.05     .273 No_date    7:48   15.49  n/a     .000
02350>                   SUM=      1.0 01:Outlet        95.24     .968 No_date    7:38   17.73  n/a     .000
02351> R0105:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02352>     SAVE HYD              1.0 01:Outlet        95.24     .968 No_date    7:38   17.73  n/a     .000
02353>       fname :Outlet.0105
02354>       remark:Total Outflows to Sandy Hook Road
02355>   ** END OF RUN :  109
02356>
02357> ************************************************************************************************
02358>
02359>
02360>
02361>
02362>
02363>  RUN#:COMMAND#
02364> R0110:C00001-------------------------------------------------------------------------------------
02365>      START
02366>       [TZERO =    .00 hrs on        0]
02367>       [METOUT=   2    (1=imperial, 2=metric output)]
02368>       [NSTORM=   1 ]
02369>       [NRUN  = 0110 ]
02370> #*********************************************************************
02371> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02372> #*********************************************************************
02373> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
02374> #  Date        : 2023-10
02375> #  Modeller    : [JB]
02376> #  Updated             : 2025-04 [PP]
02377> #  Company     : JFSA Ottawa
02378> #  License #   : 2549237
02379> #*********************************************************************
02380> R0110:C00002-------------------------------------------------------------------------------------
02381>      READ STORM
02382>       Filename = STORM.001
02383>       Comment  = 10-Yr 12-hr SCS Storm Type II - Belleville Station
02384>       [SDT= 5.00:SDUR=  12.00:PTOT=  67.19]
02385> R0110:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02386>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.791 No_date    6:00   56.61 .842     .000
02387>       [XIMP=.76:TIMP=.86]
02388>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02389>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02390>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02391> R0110:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02392>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.791 No_date    6:00   56.61  n/a     .000
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02393>                out <=    1.0 01:NodeB          8.39     .285 No_date    6:29   56.61  n/a     .000
02394>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02395>      {MxStoUsed=.2846E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02396> R0110:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02397>     ADD HYD              1.0 02:NodeB          8.39     .285 No_date    6:29   56.61  n/a     .000
02398>                    +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02399>                  SUM=    1.0 01:Node_1         8.39     .285 No_date    6:29   56.61  n/a     .000
02400> R0110:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02401>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .285 No_date    6:29   56.61  n/a     .000
02402>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .283 No_date    6:35   56.61  n/a     .000
02403>       [L/S/n=  327./ .920/.035]
02404>       {Vmax=  .815:Dmax=  .274}
02405> #*******************************************************************************
02406> # Replication of the OTTHYMO model for the Choice Properties REIT
02407> # development as per the November 2023 'Proposed Retails Pads B & C
02408> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02409> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02410> # Notes:
02411> # - DT changed from 5 min to 1 min
02412> # - Reservoir Overflows added to the downstream node for all reservoirs
02413> #*******************************************************************************
02414> # 0003
02415> #*******************************************************************************
02416> R0110:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02417>     CALIB STANDHYD       1.0 01:0003           .24     .056 No_date    6:00   61.35 .913     .000
02418>       [XIMP=.90:TIMP=.90]
02419>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02420>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02421>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02422> #*******************************************************************************
02423> # 0002
02424> #*******************************************************************************
02425> R0110:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02426>     CALIB STANDHYD       1.0 01:0002           .07     .017 No_date    6:00   65.72 .978     .000
02427>       [XIMP=.99:TIMP=.99]
02428>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02429>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02430>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
02431> #*******************************************************************************
02432> # 0001
02433> #*******************************************************************************
02434> R0110:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02435>     CALIB STANDHYD       1.0 01:0001           .93     .211 No_date    6:00   58.93 .877     .000
02436>       [XIMP=.85:TIMP=.85]
02437>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02438>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02439>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02440> #*******************************************************************************
02441> # 0006
02442> #*******************************************************************************
02443> R0110:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02444>     CALIB STANDHYD       1.0 01:0006           .24     .059 No_date    6:00   65.74 .978     .000
02445>       [XIMP=.99:TIMP=.99]
02446>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02447>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02448>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02449> #*******************************************************************************
02450> # 0007
02451> #*******************************************************************************
02452> R0110:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02453>     CALIB STANDHYD       1.0 01:0007           .38     .089 No_date    6:00   61.35 .913     .000
02454>       [XIMP=.90:TIMP=.90]
02455>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02456>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02457>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
02458> #*******************************************************************************
02459> # 0044
02460> #*******************************************************************************
02461> R0110:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02462>     CALIB STANDHYD       1.0 01:0044           .54     .130 No_date    6:00   63.77 .949     .000
02463>       [XIMP=.95:TIMP=.95]
02464>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02465>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02466>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
02467> #*******************************************************************************
02468> # 0005
02469> #*******************************************************************************
02470> R0110:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02471>     CALIB STANDHYD       1.0 01:0005           .16     .039 No_date    6:00   65.73 .978     .000
02472>       [XIMP=.99:TIMP=.99]
02473>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02474>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02475>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
02476> #*******************************************************************************
02477> R0110:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02478>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .017 No_date    6:00   65.72  n/a     .000
02479>                out <=    1.0 01:0111           .07     .003 No_date    6:03   65.72  n/a     .000
02480>            overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02481>      {MxStoUsed=.2394E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02482> R0110:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02483>     ADD HYD              1.0 02:0111           .07     .003 No_date    6:03   65.72  n/a     .000
02484>                    +     1.0 02:0001           .93     .211 No_date    6:00   58.93  n/a     .000
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02485>                    +     1.0 02:0111ovf         .00      .000 No_date    0:00     .00  n/a      .000
02486>                  SUM=    1.0 01:0101           1.00      .214 No_date    6:00   59.41  n/a      .000
02487> R0110:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02488>     ROUTE RESERVOIR ->    1.0 02:0006            .24      .059 No_date    6:00   65.74  n/a      .000
02489>                out <=    1.0 01:0102            .24      .004 No_date    6:37   65.74  n/a      .000
02490>            overflow <=    1.0 03:0102ovf         .00      .000 No_date    0:00     .00  n/a      .000
02491>      {MxStoUsed=.1085E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02492> R0110:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02493>     ADD HYD               1.0 02:0007            .38      .089 No_date    6:00   61.35  n/a      .000
02494>                    +     1.0 02:0044            .54      .130 No_date    6:00   63.77  n/a      .000
02495>                  SUM=    1.0 01:0106            .92      .218 No_date    6:00   62.77  n/a      .000
02496> R0110:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02497>     ROUTE RESERVOIR ->    1.0 02:0005            .16      .039 No_date    6:00   65.73  n/a      .000
02498>                out <=    1.0 01:0108            .16      .002 No_date    7:00   65.72  n/a      .000
02499>            overflow <=    1.0 03:0108ovf         .00      .000 No_date    0:00     .00  n/a      .000
02500>      {MxStoUsed=.7266E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02501> R0110:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02502>     ROUTE RESERVOIR ->    1.0 02:0101           1.00      .214 No_date    6:00   59.41  n/a      .000
02503>                out <=    1.0 01:0100           1.00      .059 No_date    6:07   59.41  n/a      .000
02504>            overflow <=    1.0 03:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
02505>      {MxStoUsed=.1489E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02506> R0110:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02507>     ADD HYD               1.0 02:0100           1.00      .059 No_date    6:07   59.41  n/a      .000
02508>                    +     1.0 02:0102            .24      .004 No_date    6:37   65.74  n/a      .000
02509>                    +     1.0 02:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
02510>                    +     1.0 02:0102ovf         .00      .000 No_date    0:00     .00  n/a      .000
02511>                  SUM=    1.0 01:0103           1.24      .063 No_date    6:12   60.63  n/a      .000
02512> R0110:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02513>     ADD HYD               1.0 02:0106            .92      .218 No_date    6:00   62.77  n/a      .000
02514>                    +     1.0 02:0108            .16      .002 No_date    7:00   65.72  n/a      .000
02515>                    +     1.0 02:0108ovf         .00      .000 No_date    0:00     .00  n/a      .000
02516>                  SUM=    1.0 01:0107           1.08      .220 No_date    6:00   63.21  n/a      .000
02517> R0110:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02518>     ADD HYD               1.0 02:0003            .24      .056 No_date    6:00   61.35  n/a      .000
02519>                    +     1.0 02:0103           1.24      .063 No_date    6:12   60.63  n/a      .000
02520>                  SUM=    1.0 01:0104           1.48      .119 No_date    6:00   60.75  n/a      .000
02521> R0110:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02522>     ROUTE RESERVOIR ->    1.0 02:0107           1.08      .220 No_date    6:00   63.21  n/a      .000
02523>                out <=    1.0 01:0109           1.08      .073 No_date    6:04   63.14  n/a      .000
02524>            overflow <=    1.0 03:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
02525>      {MxStoUsed=.3864E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02526> R0110:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02527>     ROUTE RESERVOIR ->    1.0 02:0104           1.48      .119 No_date    6:00   60.75  n/a      .000
02528>                out <=    1.0 01:0105           1.48      .070 No_date    6:31   60.70  n/a      .000
02529>            overflow <=    1.0 03:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
02530>      {MxStoUsed=.3924E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02531> R0110:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02532>     ADD HYD               1.0 02:0105           1.48      .070 No_date    6:31   60.70  n/a      .000
02533>                    +     1.0 02:0109           1.08      .073 No_date    6:04   63.14  n/a      .000
02534>                    +     1.0 02:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
02535>                    +     1.0 02:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
02536>                  SUM=    1.0 01:0110           2.56      .106 No_date    6:24   61.72  n/a      .000
02537> # End of the replicated OTTHYMO model
02538> #*****************************************************************************
02539> R0110:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02540>     CALIB NASHYD          1.0 01:A-03            6.55      .298 No_date    6:30   31.02 .462      .000
02541>       [CN= 80.0: N= 3.00: Tp=  .56]
02542> R0110:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02543>     ADD HYD               1.0 02:A-03            6.55      .298 No_date    6:30   31.02  n/a      .000
02544>                    +     1.0 02:Node_1R         8.39      .283 No_date    6:35   56.61  n/a      .000
02545>                    +     1.0 02:0110            2.56      .106 No_date    6:24   61.72  n/a      .000
02546>                  SUM=    1.0 01:Node_2         17.51      .684 No_date    6:30   47.76  n/a      .000
02547> R0110:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02548>     ROUTE CHANNEL   ->    1.0 02:Node_2         17.51      .684 No_date    6:30   47.76  n/a      .000
02549>      [RDT= 1.00] out<-    1.0 01:Node_2R        17.51      .579 No_date    6:52   47.76  n/a      .000
02550>       [L/S/n=  648./ .510/.035]
02551>       {Vmax=  .477:Dmax=  .226}
02552> R0110:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02553>     CALIB NASHYD          1.0 01:A-05           12.26      .157 No_date    7:40   19.03 .283      .000
02554>       [CN= 64.0: N= 3.00: Tp= 1.51]
02555> R0110:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02556>     CALIB NASHYD          1.0 01:A-07            4.09      .046 No_date    6:56   11.58 .172      .000
02557>       [CN= 48.0: N= 3.00: Tp=  .90]
02558> R0110:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02559>     ADD HYD               1.0 02:Node_2R        17.51      .579 No_date    6:52   47.76  n/a      .000
02560>                    +     1.0 02:A-05           12.26      .157 No_date    7:40   19.03  n/a      .000
02561>                    +     1.0 02:A-07            4.09      .046 No_date    6:56   11.58  n/a      .000
02562>                  SUM=    1.0 01:Node_3         33.86      .752 No_date    6:58   32.98  n/a      .000
02563> R0110:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02564>     SAVE HYD              1.0 01:Node_3         33.86      .752 No_date    6:58   32.98  n/a      .000
02565>       fname :Node_3.0110
02566>       remark:Future Pond Outflow
02567> R0110:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02568>     ROUTE CHANNEL   ->    1.0 02:Node_3         33.86      .752 No_date    6:58   32.98  n/a      .000
02569>      [RDT= 1.00] out<-    1.0 01:Node_3R        33.86      .569 No_date    7:38   32.98  n/a      .000
02570>       [L/S/n=  907./ .220/.035]
02571>       {Vmax=  .325:Dmax=  .199}
02572> R0110:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02573>     CALIB NASHYD          1.0 01:A-08            7.64      .068 No_date    7:30   12.35 .184      .000
02574>       [CN= 50.0: N= 3.00: Tp= 1.36]
02575> R0110:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02576>     CALIB NASHYD          1.0 01:A-09            8.04      .070 No_date    7:27   11.96 .178      .000
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02577>       [CN= 49.0: N= 3.00: Tp= 1.32]
02578> R0110:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02579>     CALIB NASHYD          1.0 01:A-12          11.73     .130 No_date    7:10   13.16 .196     .000
02580>       [CN= 52.0: N= 3.00: Tp= 1.10]
02581> #West Branch
02582> R0110:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02583>     CALIB NASHYD          1.0 01:A-04          18.63     .286 No_date    7:36   22.13 .329     .000
02584>       [CN= 69.0: N= 3.00: Tp= 1.47]
02585> R0110:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02586>     CALIB NASHYD          1.0 01:A-10           7.42     .076 No_date    7:41   15.38 .229     .000
02587>       [CN= 57.0: N= 3.00: Tp= 1.51]
02588> R0110:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02589>     ADD HYD               1.0 02:A-04          18.63     .286 No_date    7:36   22.13  n/a     .000
02590>                     +     1.0 02:A-10           7.42     .076 No_date    7:41   15.38  n/a     .000
02591>                   SUM=    1.0 01:Node_4        26.05     .362 No_date    7:37   20.21  n/a     .000
02592> R0110:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02593>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .362 No_date    7:37   20.21  n/a     .000
02594>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .359 No_date    7:45   20.21  n/a     .000
02595>       [L/S/n=  474./ .660/.035]
02596>       {Vmax=  .869:Dmax=  .300}
02597> R0110:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02598>     CALIB NASHYD          1.0 01:A-11           7.93     .136 No_date    7:02   18.47 .275     .000
02599>       [CN= 63.0: N= 3.00: Tp=  .99]
02600> R0110:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02601>     ADD HYD               1.0 02:Node_3R       33.86     .569 No_date    7:38   32.98  n/a     .000
02602>                     +     1.0 02:A-09           8.04     .070 No_date    7:27   11.96  n/a     .000
02603>                     +     1.0 02:A-08           7.64     .068 No_date    7:30   12.35  n/a     .000
02604>                     +     1.0 02:A-11           7.93     .136 No_date    7:02   18.47  n/a     .000
02605>                     +     1.0 02:A-12          11.73     .130 No_date    7:10   13.16  n/a     .000
02606>                     +     1.0 02:Node_4R       26.05     .359 No_date    7:45   20.21  n/a     .000
02607>                   SUM=    1.0 01:Outlet        95.24    1.302 No_date    7:32   22.41  n/a     .000
02608> R0110:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02609>     SAVE HYD              1.0 01:Outlet        95.24    1.302 No_date    7:32   22.41  n/a     .000
02610>       fname :Outlet.0110
02611>       remark:Total Outflows to Sandy Hook Road
02612>   ** END OF RUN :  124
02613>
02614> ************************************************************************************************
02615>
02616>
02617>
02618>
02619>
02620>  RUN#:COMMAND#
02621> R0125:C00001------------------------------------------------------------------------------------------
02622>      START
02623>       [TZERO =    .00 hrs on        0]
02624>       [METOUT=   2    (1=imperial, 2=metric output)]
02625>       [NSTORM=   1 ]
02626>       [NRUN  = 0125 ]
02627> #*******************************************************************************
02628> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02629> #*******************************************************************************
02630> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
02631> #  Date        : 2023-10
02632> #  Modeller    : [JB]
02633> #  Updated             : 2025-04 [PP]
02634> #  Company     : JFSA Ottawa
02635> #  License #   : 2549237
02636> #*******************************************************************************
02637> R0125:C00002------------------------------------------------------------------------------------------
02638>      READ STORM
02639>       Filename = STORM.001
02640>       Comment  = 25-Yr 12-hr SCS Storm Type II - Belleville Station
02641>       [SDT= 5.00:SDUR=  12.00:PTOT=  78.58]
02642> R0125:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02643>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.149 No_date    6:00   66.83 .850     .000
02644>       [XIMP=.76:TIMP=.86]
02645>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02646>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02647>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02648> R0125:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02649>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.149 No_date    6:00   66.83  n/a     .000
02650>                  out <=   1.0 01:NodeB         8.39     .393 No_date    6:21   66.83  n/a     .000
02651>            overflow <=    1.0 03:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
02652>      {MxStoUsed=.3283E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02653> R0125:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02654>     ADD HYD               1.0 02:NodeB         8.39     .393 No_date    6:21   66.83  n/a     .000
02655>                     +     1.0 02:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
02656>                   SUM=    1.0 01:Node_1        8.39     .393 No_date    6:21   66.83  n/a     .000
02657> R0125:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02658>     ROUTE CHANNEL   ->    1.0 02:Node_1        8.39     .393 No_date    6:21   66.83  n/a     .000
02659>      [RDT= 1.00] out<-    1.0 01:Node_1R       8.39     .388 No_date    6:30   66.83  n/a     .000
02660>       [L/S/n=  327./ .920/.035]
02661>       {Vmax=  .886:Dmax=  .317}
02662> #*******************************************************************************
02663> # Replication of the OTTHYMO model for the Choice Properties REIT
02664> # development as per the November 2023 'Proposed Retails Pads B & C
02665> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02666> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02667> # Notes:
02668> # - DT changed from 5 min to 1 min
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02669> # - Reservoir Overflows added to the downstream node for all reservoirs
02670> #*****************************************************************************
02671> # 0003
02672> #*****************************************************************************
02673> R0125:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02674>     CALIB STANDHYD        1.0 01:0003           .24     .066 No_date    6:00   72.27 .920     .000
02675>       [XIMP=.90:TIMP=.90]
02676>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02677>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02678>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02679> #*****************************************************************************
02680> # 0002
02681> #*****************************************************************************
02682> R0125:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02683>     CALIB STANDHYD        1.0 01:0002           .07     .020 No_date    6:00   77.06 .981     .000
02684>       [XIMP=.99:TIMP=.99]
02685>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02686>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02687>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
02688> #*****************************************************************************
02689> # 0001
02690> #*****************************************************************************
02691> R0125:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02692>     CALIB STANDHYD        1.0 01:0001           .93     .250 No_date    6:00   69.62 .886     .000
02693>       [XIMP=.85:TIMP=.85]
02694>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02695>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02696>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02697> #*****************************************************************************
02698> # 0006
02699> #*****************************************************************************
02700> R0125:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02701>     CALIB STANDHYD        1.0 01:0006           .24     .069 No_date    6:00   77.06 .981     .000
02702>       [XIMP=.99:TIMP=.99]
02703>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02704>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02705>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02706> #*****************************************************************************
02707> # 0007
02708> #*****************************************************************************
02709> R0125:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02710>     CALIB STANDHYD        1.0 01:0007           .38     .105 No_date    6:00   72.28 .920     .000
02711>       [XIMP=.90:TIMP=.90]
02712>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02713>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02714>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
02715> #*****************************************************************************
02716> # 0044
02717> #*****************************************************************************
02718> R0125:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02719>     CALIB STANDHYD        1.0 01:0044           .54     .152 No_date    6:00   74.93 .954     .000
02720>       [XIMP=.95:TIMP=.95]
02721>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02722>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02723>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
02724> #*****************************************************************************
02725> # 0005
02726> #*****************************************************************************
02727> R0125:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02728>     CALIB STANDHYD        1.0 01:0005           .16     .046 No_date    6:00   77.06 .981     .000
02729>       [XIMP=.99:TIMP=.99]
02730>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02731>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02732>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
02733> #*****************************************************************************
02734> R0125:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02735>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .020 No_date    6:00   77.06  n/a     .000
02736>                   out <=    1.0 01:0111           .07     .004 No_date    6:03   77.06  n/a     .000
02737>               overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02738>      {MxStoUsed=.2790E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02739> R0125:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02740>     ADD HYD               1.0 02:0111           .07     .004 No_date    6:03   77.06  n/a     .000
02741>                     +     1.0 02:0001           .93     .250 No_date    6:00   69.62  n/a     .000
02742>                     +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02743>                   SUM=    1.0 01:0101          1.00     .254 No_date    6:00   70.14  n/a     .000
02744> R0125:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02745>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .069 No_date    6:00   77.06  n/a     .000
02746>                   out <=    1.0 01:0102           .24     .004 No_date    6:36   77.06  n/a     .000
02747>               overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
02748>      {MxStoUsed=.1271E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02749> R0125:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02750>     ADD HYD               1.0 02:0007           .38     .105 No_date    6:00   72.28  n/a     .000
02751>                     +     1.0 02:0044           .54     .152 No_date    6:00   74.93  n/a     .000
02752>                   SUM=    1.0 01:0106           .92     .257 No_date    6:00   73.84  n/a     .000
02753> R0125:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02754>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .046 No_date    6:00   77.06  n/a     .000
02755>                   out <=    1.0 01:0108           .16     .003 No_date    7:00   77.06  n/a     .000
02756>               overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
02757>      {MxStoUsed=.8496E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02758> R0125:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02759>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .254 No_date    6:00   70.14  n/a     .000
02760>                   out <=    1.0 01:0100          1.00     .060 No_date    6:09   70.14  n/a     .000
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02761>           overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
02762>      {MxStoUsed=.1973E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02763> R0125:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02764>     ADD HYD              1.0 02:0100           1.00     .060 No_date    6:09   70.14  n/a     .000
02765>                    +     1.0 02:0102            .24     .004 No_date    6:36   77.06  n/a     .000
02766>                    +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
02767>                    +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
02768>                  SUM=    1.0 01:0103           1.24     .064 No_date    6:18   71.48  n/a     .000
02769> R0125:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02770>     ADD HYD              1.0 02:0106            .92     .257 No_date    6:00   73.84  n/a     .000
02771>                    +     1.0 02:0108            .16     .003 No_date    7:00   77.06  n/a     .000
02772>                    +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
02773>                  SUM=    1.0 01:0107           1.08     .260 No_date    6:00   74.31  n/a     .000
02774> R0125:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02775>     ADD HYD              1.0 02:0003            .24     .066 No_date    6:00   72.27  n/a     .000
02776>                    +     1.0 02:0103           1.24     .064 No_date    6:18   71.48  n/a     .000
02777>                  SUM=    1.0 01:0104           1.48     .130 No_date    6:00   71.61  n/a     .000
02778> R0125:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02779>     ROUTE RESERVOIR ->   1.0 02:0107           1.08     .260 No_date    6:00   74.31  n/a     .000
02780>                 out <=   1.0 01:0109           1.04     .100 No_date    5:59   74.24  n/a     .000
02781>           overflow <=    1.0 03:0109ovf         .04     .160 No_date    6:00   74.31  n/a     .000
02782>      {MxStoUsed=.3979E-01  m3, TotOvfVol=.3268E-02  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
02783> R0125:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02784>     ROUTE RESERVOIR ->   1.0 02:0104           1.48     .130 No_date    6:00   71.61  n/a     .000
02785>                 out <=   1.0 01:0105           1.48     .073 No_date    6:21   71.57  n/a     .000
02786>           overflow <=    1.0 03:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02787>      {MxStoUsed=.3933E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02788> R0125:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02789>     ADD HYD              1.0 02:0105           1.48     .073 No_date    6:21   71.57  n/a     .000
02790>                    +     1.0 02:0109           1.04     .100 No_date    5:59   74.24  n/a     .000
02791>                    +     1.0 02:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02792>                    +     1.0 02:0109ovf         .04     .160 No_date    6:00   74.31  n/a     .000
02793>                  SUM=    1.0 01:0110           2.56     .260 No_date    6:00   72.70  n/a     .000
02794> # End of the replicated OTTHYMO model
02795> #*****************************************************************************
02796> R0125:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02797>     CALIB NASHYD         1.0 01:A-03           6.55     .384 No_date    6:30   39.76 .506     .000
02798>       [CN= 80.0: N= 3.00: Tp=  .56]
02799> R0125:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02800>     ADD HYD              1.0 02:A-03           6.55     .384 No_date    6:30   39.76  n/a     .000
02801>                    +     1.0 02:Node_1R        8.39     .388 No_date    6:30   66.83  n/a     .000
02802>                    +     1.0 02:0110           2.56     .260 No_date    6:00   72.70  n/a     .000
02803>                  SUM=    1.0 01:Node_2        17.51     .886 No_date    6:29   57.53  n/a     .000
02804> R0125:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02805>     ROUTE CHANNEL   ->   1.0 02:Node_2        17.51     .886 No_date    6:29   57.53  n/a     .000
02806>      [RDT= 1.00] out<-    1.0 01:Node_2R       17.51     .757 No_date    6:45   57.53  n/a     .000
02807>       [L/S/n=  648./ .510/.035]
02808>       {Vmax=  .522:Dmax=  .246}
02809> R0125:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02810>     CALIB NASHYD         1.0 01:A-05          12.26     .209 No_date    7:39   25.20 .321     .000
02811>       [CN= 64.0: N= 3.00: Tp= 1.51]
02812> R0125:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02813>     CALIB NASHYD         1.0 01:A-07           4.09     .063 No_date    6:56   15.65 .199     .000
02814>       [CN= 48.0: N= 3.00: Tp=  .90]
02815> R0125:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02816>     ADD HYD              1.0 02:Node_2R       17.51     .757 No_date    6:45   57.53  n/a     .000
02817>                    +     1.0 02:A-05          12.26     .209 No_date    7:39   25.20  n/a     .000
02818>                    +     1.0 02:A-07           4.09     .063 No_date    6:56   15.65  n/a     .000
02819>                  SUM=    1.0 01:Node_3        33.86     .976 No_date    6:52   40.76  n/a     .000
02820> R0125:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02821>     SAVE HYD             1.0 01:Node_3        33.86     .976 No_date    6:52   40.76  n/a     .000
02822>       fname :Node_3.0125
02823>       remark:Future Pond Outflow
02824> R0125:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02825>     ROUTE CHANNEL   ->   1.0 02:Node_3        33.86     .976 No_date    6:52   40.76  n/a     .000
02826>      [RDT= 1.00] out<-    1.0 01:Node_3R       33.86     .764 No_date    7:35   40.76  n/a     .000
02827>       [L/S/n=  907./ .220/.035]
02828>       {Vmax=  .349:Dmax=  .223}
02829> R0125:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02830>     CALIB NASHYD         1.0 01:A-08           7.64     .092 No_date    7:29   16.66 .212     .000
02831>       [CN= 50.0: N= 3.00: Tp= 1.36]
02832> R0125:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02833>     CALIB NASHYD         1.0 01:A-09           8.04     .096 No_date    7:26   16.15 .206     .000
02834>       [CN= 49.0: N= 3.00: Tp= 1.32]
02835> R0125:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02836>     CALIB NASHYD         1.0 01:A-12          11.73     .176 No_date    7:10   17.72 .225     .000
02837>       [CN= 52.0: N= 3.00: Tp= 1.10]
02838> #West Branch
02839> R0125:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02840>     CALIB NASHYD         1.0 01:A-04          18.63     .377 No_date    7:35   29.06 .370     .000
02841>       [CN= 69.0: N= 3.00: Tp= 1.47]
02842> R0125:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02843>     CALIB NASHYD         1.0 01:A-10           7.42     .102 No_date    7:40   20.58 .262     .000
02844>       [CN= 57.0: N= 3.00: Tp= 1.51]
02845> R0125:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02846>     ADD HYD              1.0 02:A-04          18.63     .377 No_date    7:35   29.06  n/a     .000
02847>                    +     1.0 02:A-10           7.42     .102 No_date    7:40   20.58  n/a     .000
02848>                  SUM=    1.0 01:Node_4        26.05     .479 No_date    7:36   26.64  n/a     .000
02849> R0125:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02850>     ROUTE CHANNEL   ->   1.0 02:Node_4        26.05     .479 No_date    7:36   26.64  n/a     .000
02851>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .477 No_date    7:43   26.64  n/a     .000
02852>       [L/S/n=  474./ .660/.035]
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02853>       {Vmax=  .921:Dmax=  .347}
02854> R0125:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02855>     CALIB NASHYD          1.0 01:A-11           7.93     .181 No_date    7:01   24.49 .312     .000
02856>       [CN= 63.0: N= 3.00: Tp=  .99]
02857> R0125:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02858>     ADD HYD               1.0 02:Node_3R       33.86     .764 No_date    7:35   40.76  n/a     .000
02859>                     +     1.0 02:A-09           8.04     .096 No_date    7:26   16.15  n/a     .000
02860>                     +     1.0 02:A-08           7.64     .092 No_date    7:29   16.66  n/a     .000
02861>                     +     1.0 02:A-11           7.93     .181 No_date    7:01   24.49  n/a     .000
02862>                     +     1.0 02:A-12          11.73     .176 No_date    7:10   17.72  n/a     .000
02863>                     +     1.0 02:Node_4R       26.05     .477 No_date    7:43   26.64  n/a     .000
02864>                   SUM=    1.0 01:Outlet        95.24    1.747 No_date    7:30   28.69  n/a     .000
02865> R0125:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02866>     SAVE HYD              1.0 01:Outlet        95.24    1.747 No_date    7:30   28.69  n/a     .000
02867>       fname :Outlet.0125
02868>       remark:Total Outflows to Sandy Hook Road
02869>   ** END OF RUN :  149
02870>
02871> ********************************************************************************************************
02872>
02873>
02874>
02875>
02876>
02877>  RUN#:COMMAND#
02878> R0150:C00001-----------------------------------------------------------------------------------------------
02879>      START
02880>       [TZERO =    .00 hrs on        0]
02881>       [METOUT=   2    (1=imperial, 2=metric output)]
02882>       [NSTORM=   1 ]
02883>       [NRUN  = 0150 ]
02884> #*************************************************************************
02885> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02886> #*************************************************************************
02887> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
02888> #  Date        : 2023-10
02889> #  Modeller    : [JB]
02890> #  Updated             : 2025-04 [PP]
02891> #  Company     : JFSA Ottawa
02892> #  License #   : 2549237
02893> #*************************************************************************
02894> R0150:C00002-----------------------------------------------------------------------------------------------
02895>      READ STORM
02896>       Filename = STORM.001
02897>       Comment  = 50-Yr 12-hr SCS Storm Type II - Belleville Station
02898>       [SDT= 5.00:SDUR=  12.00:PTOT=  87.10]
02899> R0150:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02900>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.404 No_date    6:00   74.66 .857     .000
02901>       [XIMP=.76:TIMP=.86]
02902>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02903>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02904>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02905> R0150:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02906>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.404 No_date    6:00   74.66  n/a     .000
02907>                  out <=   1.0 01:NodeB          8.39     .449 No_date    6:20   74.66  n/a     .000
02908>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02909>      {MxStoUsed=.3632E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02910> R0150:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02911>     ADD HYD               1.0 02:NodeB          8.39     .449 No_date    6:20   74.66  n/a     .000
02912>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02913>                   SUM=    1.0 01:Node_1         8.39     .449 No_date    6:20   74.66  n/a     .000
02914> R0150:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02915>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .449 No_date    6:20   74.66  n/a     .000
02916>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .440 No_date    6:24   74.66  n/a     .000
02917>       [L/S/n=  327./ .920/.035]
02918>       {Vmax=  .918:Dmax=  .338}
02919> #*************************************************************************
02920> # Replication of the OTTHYMO model for the Choice Properties REIT
02921> # development as per the November 2023 'Proposed Retails Pads B & C
02922> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02923> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02924> # Notes:
02925> # - DT changed from 5 min to 1 min
02926> # - Reservoir Overflows added to the downstream node for all reservoirs
02927> #*************************************************************************
02928> # 0003
02929> #*************************************************************************
02930> R0150:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02931>     CALIB STANDHYD        1.0 01:0003            .24     .074 No_date    6:00   80.48 .924     .000
02932>       [XIMP=.90:TIMP=.90]
02933>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02934>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02935>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02936> #*************************************************************************
02937> # 0002
02938> #*************************************************************************
02939> R0150:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02940>     CALIB STANDHYD        1.0 01:0002            .07     .022 No_date    6:00   85.54 .982     .000
02941>       [XIMP=.99:TIMP=.99]
02942>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02943>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02944>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
```

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02945> #*******************************************************************************
02946> # 0001
02947> #*******************************************************************************
02948> R0150:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02949>     CALIB STANDHYD        1.0 01:0001            .93     .280 No_date    6:00   77.68 .892     .000
02950>       [XIMP=.85:TIMP=.85]
02951>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02952>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02953>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02954> #*******************************************************************************
02955> # 0006
02956> #*******************************************************************************
02957> R0150:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02958>     CALIB STANDHYD        1.0 01:0006            .24     .076 No_date    6:00   85.55 .982     .000
02959>       [XIMP=.99:TIMP=.99]
02960>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02961>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02962>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02963> #*******************************************************************************
02964> # 0007
02965> #*******************************************************************************
02966> R0150:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02967>     CALIB STANDHYD        1.0 01:0007            .38     .117 No_date    6:00   80.49 .924     .000
02968>       [XIMP=.90:TIMP=.90]
02969>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02970>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02971>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
02972> #*******************************************************************************
02973> # 0044
02974> #*******************************************************************************
02975> R0150:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02976>     CALIB STANDHYD        1.0 01:0044            .54     .169 No_date    6:00   83.29 .956     .000
02977>       [XIMP=.95:TIMP=.95]
02978>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02979>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02980>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
02981> #*******************************************************************************
02982> # 0005
02983> #*******************************************************************************
02984> R0150:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02985>     CALIB STANDHYD        1.0 01:0005            .16     .051 No_date    6:00   85.55 .982     .000
02986>       [XIMP=.99:TIMP=.99]
02987>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02988>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02989>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
02990> #*******************************************************************************
02991> R0150:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02992>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .022 No_date    6:00   85.54  n/a     .000
02993>                   out <=    1.0 01:0111            .07     .005 No_date    6:02   85.53  n/a     .000
02994>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
02995>       {MxStoUsed=.3079E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02996> R0150:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02997>     ADD HYD               1.0 02:0111            .07     .005 No_date    6:02   85.53  n/a     .000
02998>                       +     1.0 02:0001            .93     .280 No_date    6:00   77.68  n/a     .000
02999>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03000>                     SUM=    1.0 01:0101           1.00     .285 No_date    6:00   78.23  n/a     .000
03001> R0150:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03002>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .076 No_date    6:00   85.55  n/a     .000
03003>                   out <=    1.0 01:0102            .24     .005 No_date    6:35   85.55  n/a     .000
03004>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
03005>       {MxStoUsed=.1410E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03006> R0150:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03007>     ADD HYD               1.0 02:0007            .38     .117 No_date    6:00   80.49  n/a     .000
03008>                       +     1.0 02:0044            .54     .169 No_date    6:00   83.29  n/a     .000
03009>                     SUM=    1.0 01:0106            .92     .286 No_date    6:00   82.13  n/a     .000
03010> R0150:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03011>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .051 No_date    6:00   85.55  n/a     .000
03012>                   out <=    1.0 01:0108            .16     .003 No_date    6:36   85.54  n/a     .000
03013>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
03014>       {MxStoUsed=.9419E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03015> R0150:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03016>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .285 No_date    6:00   78.23  n/a     .000
03017>                   out <=    1.0 01:0100           1.00     .061 No_date    6:10   78.23  n/a     .000
03018>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
03019>       {MxStoUsed=.2351E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03020> R0150:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03021>     ADD HYD               1.0 02:0100           1.00     .061 No_date    6:10   78.23  n/a     .000
03022>                       +     1.0 02:0102            .24     .005 No_date    6:35   85.55  n/a     .000
03023>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
03024>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
03025>                     SUM=    1.0 01:0103           1.24     .065 No_date    6:15   79.65  n/a     .000
03026> R0150:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03027>     ADD HYD               1.0 02:0106            .92     .286 No_date    6:00   82.13  n/a     .000
03028>                       +     1.0 02:0108            .16     .003 No_date    6:36   85.54  n/a     .000
03029>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
03030>                     SUM=    1.0 01:0107           1.08     .289 No_date    6:00   82.64  n/a     .000
03031> R0150:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03032>     ADD HYD               1.0 02:0003            .24     .074 No_date    6:00   80.48  n/a     .000
03033>                       +     1.0 02:0103           1.24     .065 No_date    6:15   79.65  n/a     .000
03034>                     SUM=    1.0 01:0104           1.48     .138 No_date    6:00   79.78  n/a     .000
03035> R0150:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03036>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .289 No_date    6:00   82.64  n/a     .000
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```
03037>               out <=    1.0 01:0109           .99     .100 No_date    5:56   82.56  n/a     .000
03038>          overflow <=    1.0 03:0109ovf        .09     .189 No_date    6:00   82.64  n/a     .000
03039>      {MxStoUsed=.3971E-01  m3, TotOvfVol=.7232E-02  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
03040> R0150:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03041>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .138 No_date    6:00   79.78  n/a     .000
03042>               out <=    1.0 01:0105          1.48     .086 No_date    6:03   79.74  n/a     .000
03043>          overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00    .00  n/a     .000
03044>      {MxStoUsed=.3964E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03045> R0150:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03046>     ADD HYD               1.0 02:0105          1.48     .086 No_date    6:03   79.74  n/a     .000
03047>                     +     1.0 02:0109           .99     .100 No_date    5:56   82.56  n/a     .000
03048>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00    .00  n/a     .000
03049>                     +     1.0 02:0109ovf        .09     .189 No_date    6:00   82.64  n/a     .000
03050>                   SUM=    1.0 01:0110          2.56     .357 No_date    6:00   80.94  n/a     .000
03051> # End of the replicated OTTHYMO model
03052> #*****************************************************************************
03053> R0150:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03054>     CALIB NASHYD          1.0 01:A-03          6.55     .450 No_date    6:29   46.56 .535     .000
03055>       [CN= 80.0: N= 3.00: Tp=  .56]
03056> R0150:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03057>     ADD HYD               1.0 02:A-03          6.55     .450 No_date    6:29   46.56  n/a     .000
03058>                     +     1.0 02:Node_1R       8.39     .440 No_date    6:24   74.66  n/a     .000
03059>                     +     1.0 02:0110          2.56     .357 No_date    6:00   80.94  n/a     .000
03060>                   SUM=    1.0 01:Node_2       17.51    1.012 No_date    6:28   65.04  n/a     .000
03061> R0150:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03062>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51    1.012 No_date    6:28   65.04  n/a     .000
03063>      [RDT= 1.00] out<-    1.0 01:Node_2R      17.51     .896 No_date    6:45   65.04  n/a     .000
03064>       [L/S/n=  648./ .510/.035]
03065>       {Vmax=  .555:Dmax=  .259}
03066> R0150:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03067>     CALIB NASHYD          1.0 01:A-05         12.26     .251 No_date    7:38   30.16 .346     .000
03068>       [CN= 64.0: N= 3.00: Tp= 1.51]
03069> R0150:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03070>     CALIB NASHYD          1.0 01:A-07          4.09     .077 No_date    6:55   19.00 .218     .000
03071>       [CN= 48.0: N= 3.00: Tp=  .90]
03072> R0150:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03073>     ADD HYD               1.0 02:Node_2R      17.51     .896 No_date    6:45   65.04  n/a     .000
03074>                     +     1.0 02:A-05         12.26     .251 No_date    7:38   30.16  n/a     .000
03075>                     +     1.0 02:A-07          4.09     .077 No_date    6:55   19.00  n/a     .000
03076>                   SUM=    1.0 01:Node_3       33.86    1.161 No_date    6:52   46.83  n/a     .000
03077> R0150:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03078>     SAVE HYD              1.0 01:Node_3       33.86    1.161 No_date    6:52   46.83  n/a     .000
03079>       fname :Node_3.0150
03080>       remark:Future Pond Outflow
03081> R0150:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03082>     ROUTE CHANNEL   ->    1.0 02:Node_3       33.86    1.161 No_date    6:52   46.83  n/a     .000
03083>      [RDT= 1.00] out<-    1.0 01:Node_3R      33.86     .912 No_date    7:31   46.83  n/a     .000
03084>       [L/S/n=  907./ .220/.035]
03085>       {Vmax=  .367:Dmax=  .240}
03086> R0150:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03087>     CALIB NASHYD          1.0 01:A-08          7.64     .112 No_date    7:29   20.20 .232     .000
03088>       [CN= 50.0: N= 3.00: Tp= 1.36]
03089> R0150:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03090>     CALIB NASHYD          1.0 01:A-09          8.04     .116 No_date    7:26   19.59 .225     .000
03091>       [CN= 49.0: N= 3.00: Tp= 1.32]
03092> R0150:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03093>     CALIB NASHYD          1.0 01:A-12         11.73     .214 No_date    7:10   21.44 .246     .000
03094>       [CN= 52.0: N= 3.00: Tp= 1.10]
03095> #West Branch
03096> R0150:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03097>     CALIB NASHYD          1.0 01:A-04         18.63     .451 No_date    7:34   34.57 .397     .000
03098>       [CN= 69.0: N= 3.00: Tp= 1.47]
03099> R0150:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03100>     CALIB NASHYD          1.0 01:A-10          7.42     .124 No_date    7:39   24.79 .285     .000
03101>       [CN= 57.0: N= 3.00: Tp= 1.51]
03102> R0150:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03103>     ADD HYD               1.0 02:A-04         18.63     .451 No_date    7:34   34.57  n/a     .000
03104>                     +     1.0 02:A-10          7.42     .124 No_date    7:39   24.79  n/a     .000
03105>                   SUM=    1.0 01:Node_4       26.05     .574 No_date    7:35   31.79  n/a     .000
03106> R0150:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03107>     ROUTE CHANNEL   ->    1.0 02:Node_4       26.05     .574 No_date    7:35   31.79  n/a     .000
03108>      [RDT= 1.00] out<-    1.0 01:Node_4R      26.05     .572 No_date    7:42   31.79  n/a     .000
03109>       [L/S/n=  474./ .660/.035]
03110>       {Vmax=  .968:Dmax=  .385}
03111> R0150:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03112>     CALIB NASHYD          1.0 01:A-11          7.93     .218 No_date    7:01   29.34 .337     .000
03113>       [CN= 63.0: N= 3.00: Tp=  .99]
03114> R0150:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03115>     ADD HYD               1.0 02:Node_3R      33.86     .912 No_date    7:31   46.83  n/a     .000
03116>                     +     1.0 02:A-09          8.04     .116 No_date    7:26   19.59  n/a     .000
03117>                     +     1.0 02:A-08          7.64     .112 No_date    7:29   20.20  n/a     .000
03118>                     +     1.0 02:A-11          7.93     .218 No_date    7:01   29.34  n/a     .000
03119>                     +     1.0 02:A-12         11.73     .214 No_date    7:10   21.44  n/a     .000
03120>                     +     1.0 02:Node_4R      26.05     .572 No_date    7:42   31.79  n/a     .000
03121>                   SUM=    1.0 01:Outlet       95.24    2.102 No_date    7:28   33.69  n/a     .000
03122> R0150:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03123>     SAVE HYD              1.0 01:Outlet       95.24    2.102 No_date    7:28   33.69  n/a     .000
03124>       fname :Outlet.0150
03125>       remark:Total Outflows to Sandy Hook Road
03126>   ** END OF RUN :  198
03127>
03128> ************************************************************************************************
```

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03129>
03130>
03131>
03132>
03133>
03134>  RUN#:COMMAND#
03135> R0199:C00001-------------------------------------------------------------------------------------------
03136>      START
03137>       [TZERO =    .00 hrs on        0]
03138>       [METOUT=   2    (1=imperial, 2=metric output)]
03139>       [NSTORM=   1 ]
03140>       [NRUN  = 0199 ]
03141> #*****************************************************************************
03142> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
03143> #*****************************************************************************
03144> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
03145> #  Date        : 2023-10
03146> #  Modeller    : [JB]
03147> #  Updated             : 2025-04 [PP]
03148> #  Company     : JFSA Ottawa
03149> #  License #   : 2549237
03150> #*****************************************************************************
03151> R0199:C00002-------------------------------------------------------------------------------------------
03152>      READ STORM
03153>       Filename = STORM.001
03154>       Comment  = 100-Yr 12-hr SCS Storm Type II - Belleville Station
03155>       [SDT= 5.00:SDUR=  12.00:PTOT=  95.60]
03156> R0199:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03157>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.670 No_date    6:00   82.39 .862     .000
03158>       [XIMP=.76:TIMP=.86]
03159>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03160>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03161>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
03162> R0199:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03163>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.670 No_date    6:00   82.39  n/a     .000
03164>                   out <=    1.0 01:NodeB          8.39     .527 No_date    6:18   82.39  n/a     .000
03165>             overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
03166>      {MxStoUsed=.3959E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03167> R0199:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03168>     ADD HYD               1.0 02:NodeB          8.39     .527 No_date    6:18   82.39  n/a     .000
03169>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
03170>                     SUM=    1.0 01:Node_1         8.39     .527 No_date    6:18   82.39  n/a     .000
03171> R0199:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03172>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .527 No_date    6:18   82.39  n/a     .000
03173>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .524 No_date    6:29   82.39  n/a     .000
03174>       [L/S/n=  327./ .920/.035]
03175>       {Vmax=  .953:Dmax=  .362}
03176> #*****************************************************************************
03177> # Replication of the OTTHYMO model for the Choice Properties REIT
03178> # development as per the November 2023 'Proposed Retails Pads B & C
03179> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
03180> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
03181> # Notes:
03182> # - DT changed from 5 min to 1 min
03183> # - Reservoir Overflows added to the downstream node for all reservoirs
03184> #*****************************************************************************
03185> # 0003
03186> #*****************************************************************************
03187> R0199:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03188>     CALIB STANDHYD        1.0 01:0003           .24     .082 No_date    6:00   88.63 .927     .000
03189>       [XIMP=.90:TIMP=.90]
03190>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03191>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03192>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03193> #*****************************************************************************
03194> # 0002
03195> #*****************************************************************************
03196> R0199:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03197>     CALIB STANDHYD        1.0 01:0002           .07     .025 No_date    6:00   94.02 .983     .000
03198>       [XIMP=.99:TIMP=.99]
03199>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03200>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03201>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
03202> #*****************************************************************************
03203> # 0001
03204> #*****************************************************************************
03205> R0199:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03206>     CALIB STANDHYD        1.0 01:0001           .93     .309 No_date    6:00   85.66 .896     .000
03207>       [XIMP=.85:TIMP=.85]
03208>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03209>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03210>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
03211> #*****************************************************************************
03212> # 0006
03213> #*****************************************************************************
03214> R0199:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03215>     CALIB STANDHYD        1.0 01:0006           .24     .084 No_date    6:00   94.03 .983     .000
03216>       [XIMP=.99:TIMP=.99]
03217>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03218>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03219>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03220> #*****************************************************************************
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03221> # 0007
03222> #*******************************************************************************
03223> R0199:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03224>     CALIB STANDHYD        1.0 01:0007            .38     .129 No_date    6:00   88.64 .927     .000
03225>       [XIMP=.90:TIMP=.90]
03226>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03227>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03228>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
03229> #*******************************************************************************
03230> # 0044
03231> #*******************************************************************************
03232> R0199:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03233>     CALIB STANDHYD        1.0 01:0044            .54     .186 No_date    6:00   91.62 .958     .000
03234>       [XIMP=.95:TIMP=.95]
03235>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03236>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03237>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
03238> #*******************************************************************************
03239> # 0005
03240> #*******************************************************************************
03241> R0199:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03242>     CALIB STANDHYD        1.0 01:0005            .16     .056 No_date    6:00   94.02 .983     .000
03243>       [XIMP=.99:TIMP=.99]
03244>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03245>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03246>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
03247> #*******************************************************************************
03248> R0199:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03249>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .025 No_date    6:00   94.02  n/a     .000
03250>                   out <=    1.0 01:0111            .07     .006 No_date    6:02   94.02  n/a     .000
03251>               overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03252>      {MxStoUsed=.3367E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03253> R0199:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03254>     ADD HYD               1.0 02:0111            .07     .006 No_date    6:02   94.02  n/a     .000
03255>                     +     1.0 02:0001            .93     .309 No_date    6:00   85.66  n/a     .000
03256>                     +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03257>                   SUM=    1.0 01:0101           1.00     .314 No_date    6:00   86.24  n/a     .000
03258> R0199:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03259>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .084 No_date    6:00   94.03  n/a     .000
03260>                   out <=    1.0 01:0102            .24     .005 No_date    6:35   94.03  n/a     .000
03261>               overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
03262>      {MxStoUsed=.1549E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03263> R0199:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03264>     ADD HYD               1.0 02:0007            .38     .129 No_date    6:00   88.64  n/a     .000
03265>                     +     1.0 02:0044            .54     .186 No_date    6:00   91.62  n/a     .000
03266>                   SUM=    1.0 01:0106            .92     .315 No_date    6:00   90.39  n/a     .000
03267> R0199:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03268>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .056 No_date    6:00   94.02  n/a     .000
03269>                   out <=    1.0 01:0108            .16     .003 No_date    6:35   94.02  n/a     .000
03270>               overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
03271>      {MxStoUsed=.1034E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03272> R0199:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03273>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .314 No_date    6:00   86.24  n/a     .000
03274>                   out <=    1.0 01:0100           1.00     .061 No_date    6:12   86.24  n/a     .000
03275>               overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
03276>      {MxStoUsed=.2724E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03277> R0199:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03278>     ADD HYD               1.0 02:0100           1.00     .061 No_date    6:12   86.24  n/a     .000
03279>                       +     1.0 02:0102            .24     .005 No_date    6:35   94.03  n/a     .000
03280>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
03281>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
03282>                     SUM=    1.0 01:0103           1.24     .066 No_date    6:21   87.75  n/a     .000
03283> R0199:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03284>     ADD HYD               1.0 02:0106            .92     .315 No_date    6:00   90.39  n/a     .000
03285>                       +     1.0 02:0108            .16     .003 No_date    6:35   94.02  n/a     .000
03286>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
03287>                     SUM=    1.0 01:0107           1.08     .318 No_date    6:00   90.93  n/a     .000
03288> R0199:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03289>     ADD HYD               1.0 02:0003            .24     .082 No_date    6:00   88.63  n/a     .000
03290>                       +     1.0 02:0103           1.24     .066 No_date    6:21   87.75  n/a     .000
03291>                     SUM=    1.0 01:0104           1.48     .147 No_date    6:00   87.89  n/a     .000
03292> R0199:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03293>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .318 No_date    6:00   90.93  n/a     .000
03294>                   out <=    1.0 01:0109            .96     .100 No_date    5:54   90.85  n/a     .000
03295>               overflow <=    1.0 03:0109ovf         .12     .218 No_date    6:00   90.93  n/a     .000
03296>      {MxStoUsed=.3984E-01  m3, TotOvfVol=.1121E-01  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
03297> R0199:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03298>     ROUTE RESERVOIR ->    1.0 02:0104           1.48     .147 No_date    6:00   87.89  n/a     .000
03299>                   out <=    1.0 01:0105           1.47     .100 No_date    5:59   87.85  n/a     .000
03300>               overflow <=    1.0 03:0105ovf         .01     .046 No_date    6:00   87.89  n/a     .000
03301>      {MxStoUsed=.3992E-01  m3, TotOvfVol=.7294E-03  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
03302> R0199:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03303>     ADD HYD               1.0 02:0105           1.47     .100 No_date    5:59   87.85  n/a     .000
03304>                       +     1.0 02:0109            .96     .100 No_date    5:54   90.85  n/a     .000
03305>                       +     1.0 02:0105ovf         .01     .046 No_date    6:00   87.89  n/a     .000
03306>                       +     1.0 02:0109ovf         .12     .218 No_date    6:00   90.93  n/a     .000
03307>                     SUM=    1.0 01:0110           2.56     .464 No_date    6:00   89.13  n/a     .000
03308> # End of the replicated OTTHYMO model
03309> #*******************************************************************************
03310> R0199:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03311>     CALIB NASHYD          1.0 01:A-03            6.55     .519 No_date    6:29   53.55 .560     .000
03312>       [CN= 80.0: N= 3.00: Tp=  .56]
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03313> R0199:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03314>     ADD HYD              1.0 02:A-03          6.55     .519 No_date    6:29   53.55  n/a     .000
03315>                    +     1.0 02:Node_1R       8.39     .524 No_date    6:29   82.39  n/a     .000
03316>                    +     1.0 02:0110          2.56     .464 No_date    6:00   89.13  n/a     .000
03317>                  SUM=    1.0 01:Node_2       17.51    1.171 No_date    6:28   72.56  n/a     .000
03318> R0199:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03319>     ROUTE CHANNEL   ->    1.0 02:Node_2       17.51    1.171 No_date    6:28   72.56  n/a     .000
03320>       [RDT= 1.00] out<-    1.0 01:Node_2R      17.51    1.065 No_date    6:44   72.56  n/a     .000
03321>       [L/S/n=  648./ .510/.035]
03322>       {Vmax=  .579:Dmax=  .272}
03323> R0199:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03324>     CALIB NASHYD         1.0 01:A-05          12.26     .296 No_date    7:37   35.37 .370     .000
03325>       [CN= 64.0: N= 3.00: Tp= 1.51]
03326> R0199:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03327>     CALIB NASHYD         1.0 01:A-07           4.09     .091 No_date    6:55   22.59 .236     .000
03328>       [CN= 48.0: N= 3.00: Tp=  .90]
03329> R0199:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03330>     ADD HYD              1.0 02:Node_2R      17.51    1.065 No_date    6:44   72.56  n/a     .000
03331>                    +     1.0 02:A-05          12.26     .296 No_date    7:37   35.37  n/a     .000
03332>                    +     1.0 02:A-07           4.09     .091 No_date    6:55   22.59  n/a     .000
03333>                  SUM=    1.0 01:Node_3       33.86    1.369 No_date    6:47   53.03  n/a     .000
03334> R0199:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03335>     SAVE HYD             1.0 01:Node_3       33.86    1.369 No_date    6:47   53.03  n/a     .000
03336>       fname :Node_3.0199
03337>       remark:Future Pond Outflow
03338> R0199:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03339>     ROUTE CHANNEL   ->    1.0 02:Node_3       33.86    1.369 No_date    6:47   53.03  n/a     .000
03340>       [RDT= 1.00] out<-    1.0 01:Node_3R      33.86    1.074 No_date    7:27   53.03  n/a     .000
03341>       [L/S/n=  907./ .220/.035]
03342>       {Vmax=  .383:Dmax=  .254}
03343> R0199:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03344>     CALIB NASHYD         1.0 01:A-08           7.64     .133 No_date    7:28   23.97 .251     .000
03345>       [CN= 50.0: N= 3.00: Tp= 1.36]
03346> R0199:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03347>     CALIB NASHYD         1.0 01:A-09           8.04     .139 No_date    7:25   23.27 .243     .000
03348>       [CN= 49.0: N= 3.00: Tp= 1.32]
03349> R0199:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03350>     CALIB NASHYD         1.0 01:A-12          11.73     .255 No_date    7:09   25.41 .266     .000
03351>       [CN= 52.0: N= 3.00: Tp= 1.10]
03352> #West Branch
03353> R0199:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03354>     CALIB NASHYD         1.0 01:A-04          18.63     .527 No_date    7:34   40.33 .422     .000
03355>       [CN= 69.0: N= 3.00: Tp= 1.47]
03356> R0199:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03357>     CALIB NASHYD         1.0 01:A-10           7.42     .147 No_date    7:39   29.27 .306     .000
03358>       [CN= 57.0: N= 3.00: Tp= 1.51]
03359> R0199:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03360>     ADD HYD              1.0 02:A-04          18.63     .527 No_date    7:34   40.33  n/a     .000
03361>                    +     1.0 02:A-10           7.42     .147 No_date    7:39   29.27  n/a     .000
03362>                  SUM=    1.0 01:Node_4       26.05     .674 No_date    7:35   37.18  n/a     .000
03363> R0199:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03364>     ROUTE CHANNEL   ->    1.0 02:Node_4       26.05     .674 No_date    7:35   37.18  n/a     .000
03365>       [RDT= 1.00] out<-    1.0 01:Node_4R      26.05     .672 No_date    7:40   37.18  n/a     .000
03366>       [L/S/n=  474./ .660/.035]
03367>       {Vmax= 1.022:Dmax=  .426}
03368> R0199:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03369>     CALIB NASHYD         1.0 01:A-11           7.93     .257 No_date    7:00   34.44 .360     .000
03370>       [CN= 63.0: N= 3.00: Tp=  .99]
03371> R0199:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03372>     ADD HYD              1.0 02:Node_3R      33.86    1.074 No_date    7:27   53.03  n/a     .000
03373>                    +     1.0 02:A-09           8.04     .139 No_date    7:25   23.27  n/a     .000
03374>                    +     1.0 02:A-08           7.64     .133 No_date    7:28   23.97  n/a     .000
03375>                    +     1.0 02:A-11           7.93     .257 No_date    7:00   34.44  n/a     .000
03376>                    +     1.0 02:A-12          11.73     .255 No_date    7:09   25.41  n/a     .000
03377>                    +     1.0 02:Node_4R      26.05     .672 No_date    7:40   37.18  n/a     .000
03378>                  SUM=    1.0 01:Outlet       95.24    2.483 No_date    7:25   38.90  n/a     .000
03379> R0199:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03380>     SAVE HYD             1.0 01:Outlet       95.24    2.483 No_date    7:25   38.90  n/a     .000
03381>       fname :Outlet.0199
03382>       remark:Total Outflows to Sandy Hook Road
03383> R0199:C00002-------------------------------------------------------------------------------------------
03384>     FINISH
03385> -------------------------------------------------------------------------------------------------------
03386> *******************************************************************************************************
03387>      WARNINGS / ERRORS / NOTES
03388>      -------------------------
03389>    Simulation ended on 2025-04-11     at 17:11:58
03390> =======================================================================================================
03391>
```

N

## Legend

- Drainage Area
  - [Name]
  - [Area]
- Lot Fabric
- Study Area

SCALE: 1:6000

0 100 200 m

JFSA CANADA INC.
WATER RESOURCE ENGINEERING, ENVIRONMENTAL MANAGEMENT AND LAND PLANNING CONSULTANTS

INSITE PROJECT CONSULTING INC.

Coldwater Creek Subdivision

Figure A2: Post-Development Drainage Areas

| | |
|---|---|
| PROJECT | 2528-23 |
| DRAWN | JB |
| DATE | MAY 2025 |

C:\Users\JonathonBurnett\J.F. Sabourin and Associates Inc\JFSA-OTTAWA-SERVER - Documents\PROJ\2528-23\Design\GIS\20250414-Updated SWM Sizing Report

**Table A0: Pond Stage-Storage Curve**

**Area & Volume Factor:** 100%

| Elevation (m) | Notes | Volume ($m^3$) | Area ($m^2$) |
|---|---|---|---|
| **90.201** | **Pond Bottom** | **0** | **3,294** |
| 90.25 | | 166 | 3,465 |
| 90.3 | | 343 | 3,647 |
| 90.35 | | 530 | 3,832 |
| 90.4 | | 727 | 4,019 |
| 90.45 | | 932 | 4,207 |
| 90.5 | | 1,147 | 4,398 |
| 90.55 | | 1,372 | 4,591 |
| 90.6 | | 1,606 | 4,783 |
| 90.65 | | 1,850 | 4,979 |
| 90.7 | | 2,104 | 5,177 |
| 90.75 | | 2,368 | 5,378 |
| 90.8 | | 2,642 | 5,580 |
| 90.85 | | 2,926 | 5,784 |
| 90.899 | | 3,214 | 5,986 |
| 90.95 | | 3,521 | 6,219 |
| 91 | | 3,836 | 6,415 |
| 91.05 | | 4,162 | 6,612 |
| 91.1 | | 4,498 | 6,809 |
| **91.15** | **Perm Pool** | **4,867** | **7,992** |
| 91.2 | | 5,271 | 8,142 |
| 91.25 | | 5,682 | 8,298 |
| 91.3 | | 6,100 | 8,455 |
| 91.35 | | 6,527 | 8,612 |
| 91.4 | | 6,962 | 8,770 |
| **91.45** | | **7,404** | **8,928** |
| 91.5 | | 7,854 | 9,086 |
| 91.55 | | 8,313 | 9,244 |
| 91.6 | | 8,779 | 9,403 |
| **91.65** | | **9,253** | **9,563** |
| 91.7 | | 9,735 | 9,722 |
| 91.75 | | 10,225 | 9,883 |
| 91.8 | | 10,723 | 10,043 |
| 91.85 | | 11,230 | 10,204 |
| 91.9 | | 11,744 | 10,365 |
| 91.95 | | 12,266 | 10,526 |
| 92 | | 12,796 | 10,688 |
| 92.05 | | 13,335 | 10,850 |
| 92.1 | | 13,881 | 11,013 |
| 92.15 | | 14,436 | 11,176 |
| 92.2 | | 14,999 | 11,339 |
| 92.25 | | 15,570 | 11,503 |
| 92.3 | | 16,149 | 11,667 |
| 92.35 | | 16,737 | 11,831 |
| 92.4 | | 17,332 | 11,996 |
| 92.45 | | 17,936 | 12,161 |
| 92.5 | | 18,549 | 12,327 |
| 92.55 | | 19,169 | 12,493 |
| 92.6 | | 19,798 | 12,659 |
| 92.65 | | 20,435 | 12,826 |
| 92.7 | | 21,080 | 12,993 |
| 92.75 | | 21,734 | 13,160 |
| 92.8 | | 22,396 | 13,328 |
| **92.85** | **Max 100 Year** | **23,067** | **13,504** |
| 92.86 | | 23,202 | 13,538 |
| 92.9 | | 23,746 | 13,656 |
| 92.95 | | 24,433 | 13,819 |
| 93 | | 25,128 | 13,981 |
| 93.05 | | 25,831 | 14,143 |
| 93.1 | | 26,543 | 14,305 |
| **93.15** | **Top of Pond** | 27,262 | 14,468 |

**Table A-1: Criteria for Required Storage Volumes**

| Pond | Area [1] (ha) | Imperviousness (%) | Storage Volume for Impervious Level [2] ($m^3$/ha) |
|---|---|---|---|
| N/A | N/A | 55 | 190 |
| SWM Pond | 28.93 | 62 | 207 |
| N/A | N/A | 70 | 225 |

[1] Drainage area to the Pond includes 26.81 ha of the proposed development, 1.87 ha of the proposed pond block and 0.25 ha of the existing gas pad north of Millenium Trail.

[2] Protection Level for Weland: Enhanced 80% long-term S.S. removal.
SWM Planning & Design Manual, Table 3.2, p.3-10 (March 2003).

**Table A-2: Required Storage Volumes for SWM Facility**

| Pond Component | Required Volume ($m^3$) | Provided Volume [4] ($m^3$) | Volume Ratio | Pond Elevation (m) |
|---|---|---|---|---|
| Permanent Pool (PP) [1] | 4831 | 4867 | 1.01 | 91.15 |
| Quality Control [2] | 2314 | 2537 | 1.10 | 91.45 |

[1] Required PP volume based on Table B-1.

[2] Required quality control volume based on 80 $m^3$/ha, per MECP guidelines for SWM Ponds in series.

[3] Extended detention based on the 25mm storm runoff volume.

[4] Provided volume based on stage-storage curve and extended detention (refer to Tables B-3 and B-4).

[5] As per MOE, Maximum Forebay Area: 33% of Total Permanent Pool.

**Table A-3: Pond Extended Detention Parameters for SWM Facility**

| Permanent Pool Parameters | | | Quality Orifice Parameters | | |
|---|---|---|---|---|---|
| Area (C3) | 7991.91 | $m^2$ | Width | 0.250 | m |
| Volume | 4867 | $m^3$ | | | |
| PP Elev | 91.150 | m | Area | 0.049 | $m^2$ |
| QC Elev | 91.450 | m | Invert | 91.150 | m |
| | | | $C_o$ | 0.62 | |

Notes:
- C3 is the intercept from the area-depth linear regression.
- PP Elev indicates the elevation of the permanent pool.
- QC Elev indicates the elevation of the storage volume required by MOE for quality control.
- h is the maximum water elevation above the orifice (m).

**Table A-4: Pond Extended Detention Drawdown Time for SWM Facility**

| Elev. | Active Storage | | | C2 | Drawdown Time | Drawdown Time | Flow | Demarcation |
|---|---|---|---|---|---|---|---|---|
| (m) | V ($m^3$) | A ($m^2$) | depth (m) | ($m^2$/m) | (h) | (days) | ($m^3$/s) | Point |
| **91.15** | **0** | **7992** | **0.00** | | **0.00** | | **0.000** | **PP Elev** |
| 91.20 | 403 | 8142 | 0.05 | 3003.20 | 23.51 | 0.98 | 0.010 | |
| 91.25 | 814 | 8298 | 0.10 | 3065.30 | 31.49 | 1.31 | 0.019 | |
| 91.30 | 1233 | 8455 | 0.15 | 3088.67 | 36.37 | 1.52 | 0.029 | |
| 91.35 | 1660 | 8612 | 0.20 | 3102.25 | 39.93 | 1.66 | 0.038 | |
| 91.40 | 2094 | 8770 | 0.25 | 3111.68 | 42.74 | 1.78 | 0.048 | |
| **91.45** | **2537** | **8928** | **0.30** | **3119.20** | **45.10** | **1.88** | **0.056** | **QC Elev** |
| 91.50 | 2987 | 9086 | 0.35 | 3125.66 | 47.18 | 1.97 | 0.064 | |
| 91.55 | 3445 | 9244 | 0.40 | 3131.43 | 49.07 | 2.04 | 0.071 | |
| 91.60 | 3912 | 9403 | 0.45 | 3136.73 | 50.83 | 2.12 | 0.077 | |
| **91.65** | **4386** | **9563** | **0.50** | **3141.72** | **52.48** | **2.19** | **0.083** | **Ext Det** |
| 91.70 | 4868 | 9722 | 0.55 | 3146.49 | 53.95 | 2.25 | 0.100 | |
| 91.75 | 5358 | 9883 | 0.60 | 3151.08 | 55.14 | 2.30 | 0.127 | |
| 91.80 | 5856 | 10043 | 0.65 | 3155.48 | 56.11 | 2.34 | 0.160 | |
| 91.85 | 6362 | 10204 | 0.70 | 3159.81 | 56.89 | 2.37 | 0.196 | |
| 91.90 | 6877 | 10365 | 0.75 | 3164.04 | 57.56 | 2.40 | 0.236 | |
| 91.95 | 7399 | 10526 | 0.80 | 3168.10 | 58.12 | 2.42 | 0.278 | |
| 92.00 | 7929 | 10688 | 0.85 | 3172.09 | 58.59 | 2.44 | 0.345 | |
| 92.05 | 8468 | 10850 | 0.90 | 3176.06 | 59.01 | 2.46 | 0.376 | |
| 92.10 | 9014 | 11013 | 0.95 | 3180.01 | 59.40 | 2.47 | 0.404 | |
| 92.15 | 9569 | 11176 | 1.00 | 3183.94 | 59.77 | 2.49 | 0.431 | |
| 92.20 | 10132 | 11339 | 1.05 | 3187.87 | 60.11 | 2.50 | 0.475 | |
| 92.25 | 10703 | 11503 | 1.10 | 3191.76 | 60.43 | 2.52 | 0.534 | |
| 92.30 | 11282 | 11667 | 1.15 | 3195.65 | 60.71 | 2.53 | 0.602 | |
| 92.35 | 11870 | 11831 | 1.20 | 3199.54 | 60.96 | 2.54 | 0.676 | |
| 92.40 | 12465 | 11996 | 1.25 | 3203.40 | 61.20 | 2.55 | 0.756 | |
| 92.45 | 13069 | 12161 | 1.30 | 3207.25 | 61.41 | 2.56 | 0.839 | |
| 92.50 | 13681 | 12327 | 1.35 | 3211.09 | 61.60 | 2.57 | 0.887 | |
| 92.55 | 14302 | 12493 | 1.40 | 3214.92 | 61.79 | 2.57 | 0.941 | |
| 92.60 | 14931 | 12659 | 1.45 | 3218.76 | 61.97 | 2.58 | 0.992 | |
| 92.65 | 15568 | 12826 | 1.50 | 3222.58 | 62.15 | 2.59 | 1.039 | |
| 92.70 | 16213 | 12993 | 1.55 | 3226.38 | 62.31 | 2.60 | 1.084 | |
| 92.75 | 16867 | 13160 | 1.60 | 3230.17 | 62.48 | 2.60 | 1.126 | |
| 92.80 | 17529 | 13328 | 1.65 | 3234.02 | 62.64 | 2.61 | 1.167 | |
| 92.85 | 18200 | 13504 | 1.70 | 3242.26 | 62.80 | 2.62 | 1.206 | |
| 92.86 | 18335 | 13538 | 1.71 | 3243.22 | 62.83 | 2.62 | 1.214 | |
| 92.90 | 18879 | 13656 | 1.75 | 3236.73 | 62.95 | 2.62 | 1.244 | |

Notes:
- C2 is the slope coefficient from the area-depth linear regression.
- PP Elev indicates the elevation of the permanent pool.
- QC Elev indicates the elevation of the storage volume required by MOE for quality control.
- Ext Det indicates the elevation of extended detention.

**Table A-5: Pond - Stage-Storage-Outflow Curve for SWM Facility (Free Outfall Conditions)**

| | | | Quality Control 1 | | Quantity Control 1 | | Quantity Control 2 | | Emergency Overflow | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Vertical Orifice | | Vertical Rect. Orifice | | Vertical Rect. Orifice | | Broad Crested Weir | | | |
| | | | Dia (m) | 0.250 | Width (m) | 0.625 | Width (m) | 1.000 | L (m) | 10.000 | | |
| | | | | | Height (m) | 0.300 | Height (m) | 0.300 | | | | |
| | | | Area ($m^2$) | 0.049 | Area ($m^2$) | 0.188 | Area ($m^2$) | 0.250 | | | | |
| | | | Invert (m) | 91.15 | Invert (m) | 91.65 | Invert (m) | 92.15 | $C_w$ | 1.580 | | |
| | | | $C_o$ | 0.62 | $C_o$ | 0.62 | $C_o$ | 0.62 | Invert (m) | 92.90 | | |
| | | | Q @ D | 0.048 | $C_w$ | 1.800 | $C_w$ | 1.800 | n contr. | 2 | | |
| Elevation (m) | Active Sto. ($m^3$) | Demarcation Points | Depth (m) | Outflow ($m^3/s$) | Depth (m) | Outflow ($m^3/s$) | Depth (m) | Outflow ($m^3/s$) | Depth (m) | Outflow ($m^3/s$) | Outflow ($m^3/s$) | Storage (ha·m) |
| 91.15 | **0** | **PP Elev** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | 0.000 | 0.000 |
| 91.20 | 403 | | 0.050 | 0.010 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.010 | 0.040 |
| 91.25 | 814 | | 0.100 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.019 | 0.081 |
| 91.30 | 1233 | | 0.150 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.029 | 0.123 |
| 91.35 | 1660 | | 0.200 | 0.038 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.038 | 0.166 |
| 91.40 | 2094 | | 0.250 | 0.048 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.048 | 0.209 |
| **91.45** | **2537** | **QC** | **0.300** | **0.056** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.056** | **0.254** |
| 91.50 | 2987 | | 0.350 | 0.064 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.064 | 0.299 |
| 91.55 | 3445 | | 0.400 | 0.071 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.071 | 0.345 |
| 91.60 | 3912 | | 0.450 | 0.077 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.077 | 0.391 |
| **91.65** | **4386** | **Ext Det** | **0.500** | **0.083** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.000** | **0.083** | **0.439** |
| 91.70 | 4868 | | 0.550 | 0.088 | 0.050 | 0.012 | 0.000 | 0.000 | 0.000 | 0.000 | 0.100 | 0.487 |
| 91.75 | 5358 | | 0.600 | 0.093 | 0.100 | 0.034 | 0.000 | 0.000 | 0.000 | 0.000 | 0.127 | 0.536 |
| 91.80 | 5856 | | 0.650 | 0.098 | 0.150 | 0.062 | 0.000 | 0.000 | 0.000 | 0.000 | 0.160 | 0.586 |
| 91.85 | 6362 | | 0.700 | 0.102 | 0.200 | 0.094 | 0.000 | 0.000 | 0.000 | 0.000 | 0.196 | 0.636 |
| 91.90 | 6877 | | 0.750 | 0.107 | 0.250 | 0.129 | 0.000 | 0.000 | 0.000 | 0.000 | 0.236 | 0.688 |
| 91.95 | 7399 | | 0.800 | 0.111 | 0.300 | 0.167 | 0.000 | 0.000 | 0.000 | 0.000 | 0.278 | 0.740 |
| 92.00 | 7929 | | 0.850 | 0.115 | 0.350 | 0.230 | 0.000 | 0.000 | 0.000 | 0.000 | 0.345 | 0.793 |
| 92.05 | 8468 | | 0.900 | 0.119 | 0.400 | 0.257 | 0.000 | 0.000 | 0.000 | 0.000 | 0.376 | 0.847 |
| 92.10 | 9014 | | 0.950 | 0.122 | 0.450 | 0.282 | 0.000 | 0.000 | 0.000 | 0.000 | 0.404 | 0.901 |
| 92.15 | 9569 | | 1.000 | 0.126 | 0.500 | 0.305 | 0.000 | 0.000 | 0.000 | 0.000 | 0.431 | 0.957 |
| 92.20 | 10132 | | 1.050 | 0.130 | 0.550 | 0.326 | 0.050 | 0.020 | 0.000 | 0.000 | 0.475 | 1.013 |
| 92.25 | 10703 | | 1.100 | 0.133 | 0.600 | 0.345 | 0.100 | 0.056 | 0.000 | 0.000 | 0.534 | 1.070 |
| 92.30 | 11282 | | 1.150 | 0.136 | 0.650 | 0.364 | 0.150 | 0.101 | 0.000 | 0.000 | 0.602 | 1.128 |
| 92.35 | 11870 | | 1.200 | 0.140 | 0.700 | 0.382 | 0.200 | 0.155 | 0.000 | 0.000 | 0.676 | 1.187 |
| 92.40 | 12465 | | 1.250 | 0.143 | 0.750 | 0.399 | 0.250 | 0.214 | 0.000 | 0.000 | 0.756 | 1.247 |
| 92.45 | 13069 | | 1.300 | 0.146 | 0.800 | 0.415 | 0.300 | 0.278 | 0.000 | 0.000 | 0.839 | 1.307 |
| 92.50 | 13681 | | 1.350 | 0.149 | 0.850 | 0.431 | 0.350 | 0.307 | 0.000 | 0.000 | 0.887 | 1.368 |
| 92.55 | 14302 | | 1.400 | 0.152 | 0.900 | 0.446 | 0.400 | 0.343 | 0.000 | 0.000 | 0.941 | 1.430 |
| 92.60 | 14931 | | 1.450 | 0.155 | 0.950 | 0.461 | 0.450 | 0.376 | 0.000 | 0.000 | 0.992 | 1.493 |
| 92.65 | 15568 | | 1.500 | 0.158 | 1.000 | 0.475 | 0.500 | 0.406 | 0.000 | 0.000 | 1.039 | 1.557 |
| 92.70 | 16213 | | 1.550 | 0.161 | 1.050 | 0.488 | 0.550 | 0.434 | 0.000 | 0.000 | 1.084 | 1.621 |
| 92.75 | 16867 | | 1.600 | 0.164 | 1.100 | 0.502 | 0.600 | 0.461 | 0.000 | 0.000 | 1.126 | 1.687 |
| 92.80 | 17529 | | 1.650 | 0.166 | 1.150 | 0.515 | 0.650 | 0.485 | 0.000 | 0.000 | 1.167 | 1.753 |
| **92.85** | **18200** | **Max. 100 Year** | **1.700** | **0.169** | **1.200** | **0.528** | **0.700** | **0.509** | **0.000** | **0.000** | **1.206** | **1.820** |
| 92.86 | 18335 | | 1.710 | 0.170 | 1.210 | 0.530 | 0.710 | 0.514 | 0.000 | 0.000 | 1.214 | 1.834 |
| **92.90** | **18879** | **Ovf Elev** | **1.750** | **0.172** | **1.250** | **0.540** | **0.750** | **0.532** | **0.000** | **0.000** | **1.244** | **1.888** |
| 92.95 | 19566 | | 1.800 | 0.174 | 1.300 | 0.552 | 0.800 | 0.554 | 0.050 | 0.176 | 1.457 | 1.957 |
| 93.00 | 20261 | | 1.850 | 0.177 | 1.350 | 0.564 | 0.850 | 0.574 | 0.100 | 0.499 | 1.814 | 2.026 |
| 93.05 | 20964 | | 1.900 | 0.180 | 1.400 | 0.576 | 0.900 | 0.595 | 0.150 | 0.915 | 2.265 | 2.096 |
| 93.10 | 21675 | | 1.950 | 0.182 | 1.450 | 0.587 | 0.950 | 0.614 | 0.200 | 1.408 | 2.791 | 2.168 |
| 93.15 | 22395 | **Top of Pond** | 2.000 | 0.185 | 1.500 | 0.598 | 1.000 | 0.633 | 0.250 | 1.965 | 3.381 | 2.239 |

Notes :
- PP Elev indicates the elevation of the permanent pool.
- QC Elev indicates the elevation of the storage volume required by MOE for quality control.
- Ext Det indicates the elevation of extended detention provided.
- Ovf Elev indicates the elevation of the overflow provided above the 100-year water level.
- Top of Berm indicates the elevation at the top of the berm.

# *CALCULATION SHEET A-6: FOREBAY SIZING FOR SWM FACILITY*

## Cold Creek Subdivision
## SWM Pond
## Calculation of Forebay Size

**Settling Criteria**

From the SWMP Manual, the required length for settling is as follows:

$$L_{min} = \left(\frac{rQ_p}{V_s}\right)^{0.5}$$

where:
- r = length to width ratio, at the invert of the inlet pipe.
- $Q_p$ = peak outflow during design quality storm
- $V_s$ = settling velocity

Input:

| | | | |
|---|---|---|---|
| r = | 2.25 | | (45 m / 20 m) |
| $Q_p$ = | 0.083 | $m^3/s$ | (at elevation 90.90 m) |
| $V_s$ = | 0.0003 | m/s | |

$L_{min}$ = 24.9 m

The peak flow rate from the pond during the quality storm is taken as the flow that would occur just below the quantity controls (Refer to Table B-4 of Appendix B)

**Dispersion Criteria**

From the SWMP Manual, the required length for dispersion is as follows:

$$L_{min} = \frac{8Q}{dV_t}$$

where:
- Q = Inlet flow rate (10-Year, 12-Hour SCS Storm)
- d = depth of permanent pool (forebay) during peak 10-year inflow
- $V_f$ = desired final velocity

Input:

| | | |
|---|---|---|
| Q = | 4.790 | $m^3/s$ |
| d = | 2.13 | m |
| Vf = | 0.5 | m/s |

$L_{min}$ = 36.06 m

The minimum forebay length is determined by the larger of the settling or dispersion criteria.

| | | |
|---|---|---|
| Minimum Length of Forebay Required | 36.1 m | |
| **Length of Forebay Provided** | **45.0 m** | (at elevation 90.90) |

**Average Forebay Velocity**

From the SWMP Manual, the maximum allowable average velocity is 0.15 m/s:

$$V_{avg} = \frac{Q}{d\ W_{avg}}$$

where:
- Q = Inlet flow rate (10-Year, 12-Hour SCS Storm)
- d = depth of pond during peak 10-year inflow
- $W_{avg}$ = average width of forebay

Input:

| | | | |
|---|---|---|---|
| Q = | 4.790 | $m^3/s$ | |
| d = | 2.13 | m | |
| $W_{avg}$ = | 19 | m | (6 m bottom, 32 m top) |

V = 0.12 m/s < 0.15 m/s

```
00001> 20    Metric units / ID numbers OFF
00002> *#*****************************************************************************
00003> *#  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00004> *#*****************************************************************************
00005> *#  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00006> *#  Date         : 2023-10
00007> *#  Modeller     : [JB]
00008> *#  Updated             : 2025-05 [PP]
00009> *#  Company      : JFSA Ottawa
00010> *#  License #    : 2549237
00011> *#*****************************************************************************
00012> *# Post Development Scenario B - Upstream flows diverted through subdivision
00013> *#*****************************************************************************
00014> START               TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[001]
00015>                     ["25mmBell.stm"] <--storm filename, one per line for NSTORM time
00016> *%-----------------|-------------------------------------------------------|
00017> READ STORM          STORM_FILENAME=["STORM.001"]
00018> *%-----------------|-------------------------------------------------------|
00019> *#*****************************************************************************
00020> *# POST-DEVELOPMENT CONDITIONS
00021> *# Flows from upstream lands routed through subdivision
00022> *#*****************************************************************************
00023> *# Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
00024> *# Improvements and New Urban Retail Development - In SWMHYMO
00025> *%-----------------|-------------------------------------------------------|
00026> CALIB STANDHYD      NHYD=["HIGHWAY33"], DT=[1](min), AREA=[8.39](ha), XIMP=[0.76], TIMP=[0.86], DWF=[0.](cms),
00027>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00028>                     Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00029>                     Impervious areas: IAimp=[1.57](mm), SLPI=[1](%), LGI=[263](m), MNI=[0.013], SCI=[0](min),
00030>                     RAINFALL=[ ,  ,  -1](mm/hr)
00031> *%-----------------|-------------------------------------------------------|
00032> ROUTE RESERVOIR     NHYDout=["NodeB"] ,NHYDin=["HIGHWAY33"] ,
00033>                     RDT=[1](min),
00034>                          TABLE of ( OUTFLOW-STORAGE ) values
00035>                                     (cms) - (ha-m)
00036>                                   [ 0   ,  0  ]
00037>                                   [ 0.13 , 0.1856 ]
00038>                                   [  0.19   ,  0.2396   ]
00039>                                   [  0.26   ,  0.26985   ]
00040>                                   [  0.33   ,  0.31066   ]
00041>                                   [  0.39   ,  0.327   ]
00042>                                   [  0.42   ,  0.3385   ]
00043>                                   [  0.44   ,  0.36243   ]
00044>                                   [  0.51   ,  0.3687   ]
00045>                                   [  0.53   ,  0.40   ]
00046>                                   [  -1   ,  -1   ]
00047>                          NHYDovf=["NodeBovf"] ,
00048> *%-----------------|-------------------------------------------------------|
00049> ADD HYD             NHYDsum=["Node_1"], NHYDs to add=["NodeB", "NodeBovf"]
00050> *%-----------------|-------------------------------------------------------|
00051> ROUTE CHANNEL       NHYDout=["Node_1R"], NHYDin=["Node_1"],  RDT=[1](min),
00052>                     CHLGTH=[  327     ](m),  CHSLOPE=[  0.92 ](%), FPSLOPE=[  0.92 ](%),
00053>                     SECNUM=[ 1  ],       NSEG=[ 3   ]
00054>                     ( SEGROUGH, SEGDIST (m))=[ 0.05, 6.1, 0.035,10.17, 0.05,16.27] NSEG times
00055>                     ( DISTANCE (m), ELEVATION (m))=[
00056>                                                 0 , 97.75
00057>                                                 3.56 , 97.67
00058>                                                 6.1 , 97.65
00059>                                                 7.63 , 97.08
00060>                                                 8.13 , 96.85
00061>                                                 8.64 , 96.8
00062>                                                 9.15 , 96.89
00063>                                                 9.66 , 97.07
00064>                                                 10.17 , 97.23
00065>                                                 10.68 , 97.33
00066>                                                 12.2 , 97.52
00067>                                                 13.73 , 97.52
00068>                                                 15.25 , 97.71
00069>                                                 15.76 , 97.76
00070>                                                 16.27 , 97.95
00071>                                                 ]
00072> *%-----------------|-------------------------------------------------------|
00073> *#*****************************************************************************
00074> *# Replication of the OTTHYMO model for the Choice Properties REIT
00075> *# development as per the November 2023 'Proposed Retails Pads B & C
00076> *# 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00077> *# Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00078> *# Notes:
00079> *# - DT changed from 5 min to 1 min
00080> *# - Reservoir Overflows added to the downstream node for all reservoirs
00081> *#*****************************************************************************
00082> *# 0003
00083> *#*****************************************************************************
00084> CALIB STANDHYD      NHYD=["0003"], DT=[1](min), AREA=[0.24](ha), XIMP=[0.90], TIMP=[0.90], DWF=[0.](cms),
00085>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00086>                     Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00087>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[40](m), MNI=[0.013], SCI=[0](min),
00088>                     RAINFALL=[ ,  ,  -1](mm/hr)
00089> *#*****************************************************************************
00090> *# 0002
00091> *#*****************************************************************************
00092> CALIB STANDHYD      NHYD=["0002"], DT=[1](min), AREA=[0.07](ha), XIMP=[0.99], TIMP=[0.99], DWF=[0.](cms),
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00093>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00094>                     Pervious   areas: IAper=[1](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00095>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[21.6](m), MNI=[0.013], SCI=[0](min),
00096>                     RAINFALL=[ ,  ,  -1](mm/hr)
00097> *#*************************************************************************
00098> *# 0001
00099> *#*************************************************************************
00100> CALIB STANDHYD      NHYD=["0001"], DT=[1](min), AREA=[0.93](ha), XIMP=[0.85], TIMP=[0.85], DWF=[0.](cms),
00101>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00102>                     Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00103>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[78.7](m), MNI=[0.013], SCI=[0](min),
00104>                     RAINFALL=[ ,  ,  -1](mm/hr)
00105> *#*************************************************************************
00106> *# 0006
00107> *#*************************************************************************
00108> CALIB STANDHYD      NHYD=["0006"], DT=[1](min), AREA=[0.24](ha), XIMP=[0.99], TIMP=[0.99], DWF=[0.](cms),
00109>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00110>                     Pervious   areas: IAper=[1](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00111>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[40](m), MNI=[0.013], SCI=[0](min),
00112>                     RAINFALL=[ ,  ,  -1](mm/hr)
00113> *#*************************************************************************
00114> *# 0007
00115> *#*************************************************************************
00116> CALIB STANDHYD      NHYD=["0007"], DT=[1](min), AREA=[0.38](ha), XIMP=[0.90], TIMP=[0.90], DWF=[0.](cms),
00117>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00118>                     Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00119>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[50.3](m), MNI=[0.013], SCI=[0](min),
00120>                     RAINFALL=[ ,  ,  -1](mm/hr)
00121> *#*************************************************************************
00122> *# 0044
00123> *#*************************************************************************
00124> CALIB STANDHYD      NHYD=["0044"], DT=[1](min), AREA=[0.54](ha), XIMP=[0.95], TIMP=[0.95], DWF=[0.](cms),
00125>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00126>                     Pervious   areas: IAper=[5](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00127>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[60](m), MNI=[0.013], SCI=[0](min),
00128>                     RAINFALL=[ ,  ,  -1](mm/hr)
00129> *#*************************************************************************
00130> *# 0005
00131> *#*************************************************************************
00132> CALIB STANDHYD      NHYD=["0005"], DT=[1](min), AREA=[0.16](ha), XIMP=[0.99], TIMP=[0.99], DWF=[0.](cms),
00133>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00134>                     Pervious   areas: IAper=[1](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00135>                     Impervious areas: IAimp=[1](mm), SLPI=[1](%), LGI=[32.7](m), MNI=[0.013], SCI=[0](min),
00136>                     RAINFALL=[ ,  ,  -1](mm/hr)
00137> *#*************************************************************************
00138> ROUTE RESERVOIR     NHYDout=["0111"] ,NHYDin=["0002"] ,
00139>                     RDT=[1](min),
00140>                           TABLE of ( OUTFLOW-STORAGE ) values
00141>                                     (cms) - (ha-m)
00142>                                 [ 0        ,  0       ]
00143>                                 [ 0.0015   ,  0.0012  ]
00144>                                 [ 0.0030   ,  0.0023  ]
00145>                                 [ 0.0045   ,  0.0029  ]
00146>                                 [ 0.0060   ,  0.0035  ]
00147>                                 [  -1      ,  -1      ]
00148>                           NHYDovf=["0111ovf"] ,
00149> *%-----------------|-------------------------------------------------------|
00150> ADD HYD             NHYDsum=["0101"], NHYDs to add=["0111"+"0001"+"0111ovf"]
00151> *%-----------------|-------------------------------------------------------|
00152> ROUTE RESERVOIR     NHYDout=["0102"] ,NHYDin=["0006"] ,
00153>                     RDT=[1](min),
00154>                           TABLE of ( OUTFLOW-STORAGE ) values
00155>                                     (cms) - (ha-m)
00156>                                 [ 0        ,  0       ]
00157>                                 [ 0.0019   ,  0.0061  ]
00158>                                 [ 0.0041   ,  0.0122  ]
00159>                                 [ 0.0061   ,  0.0182  ]
00160>                                 [ 0.0085   ,  0.0243  ]
00161>                                 [  -1      ,  -1      ]
00162>                           NHYDovf=["0102ovf"] ,
00163> *%-----------------|-------------------------------------------------------|
00164> ADD HYD             NHYDsum=["0106"], NHYDs to add=["0007"+"0044"]
00165> *%-----------------|-------------------------------------------------------|
00166> ROUTE RESERVOIR     NHYDout=["0108"] ,NHYDin=["0005"] ,
00167>                     RDT=[1](min),
00168>                           TABLE of ( OUTFLOW-STORAGE ) values
00169>                                     (cms) - (ha-m)
00170>                                 [ 0        ,  0       ]
00171>                                 [ 0.0019   ,  0.0061  ]
00172>                                 [ 0.0041   ,  0.0122  ]
00173>                                 [ 0.0061   ,  0.0182  ]
00174>                                 [ 0.0085   ,  0.0243  ]
00175>                                 [  -1      ,  -1      ]
00176>                           NHYDovf=["0108ovf"] ,
00177> *%-----------------|-------------------------------------------------------|
00178> ROUTE RESERVOIR     NHYDout=["0100"] ,NHYDin=["0101"] ,
00179>                     RDT=[1](min),
00180>                           TABLE of ( OUTFLOW-STORAGE ) values
00181>                                     (cms) - (ha-m)
00182>                                 [ 0        ,  0       ]
00183>                                 [ 0.0570   ,  0.0010  ]
00184>                                 [ 0.0590   ,  0.0100  ]
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00185>                                  [ 0.0600   ,  0.0200 ]
00186>                                  [ 0.0630   ,  0.0364 ]
00187>                                  [  -1      ,  -1     ]
00188>                            NHYDovf=["0100ovf"] ,
00189> *%-----------------|-------------------------------------------------------|
00190> ADD HYD             NHYDsum=["0103"], NHYDs to add=["0100"+"0102"+"0100ovf"+"0102ovf"]
00191> *%-----------------|-------------------------------------------------------|
00192> ADD HYD             NHYDsum=["0107"], NHYDs to add=["0106"+"0108"+"0108ovf"]
00193> *%-----------------|-------------------------------------------------------|
00194> ADD HYD             NHYDsum=["0104"], NHYDs to add=["0003"+"0103"]
00195> *%-----------------|-------------------------------------------------------|
00196> ROUTE RESERVOIR     NHYDout=["0109"] ,NHYDin=["0107"] ,
00197>                     RDT=[1](min),
00198>                           TABLE of ( OUTFLOW-STORAGE ) values
00199>                                     (cms) - (ha-m)
00200>                                  [ 0        ,  0      ]
00201>                                  [ 0.0001   ,  0.0100 ]
00202>                                  [ 0.0002   ,  0.0244 ]
00203>                                  [ 0.0003   ,  0.0250 ]
00204>                                  [ 0.0004   ,  0.0300 ]
00205>                                  [ 0.0005   ,  0.0350 ]
00206>                                  [ 0.1000   ,  0.0400 ]
00207>                                  [  -1      ,  -1     ]
00208>                            NHYDovf=["0109ovf"] ,
00209> *%-----------------|-------------------------------------------------------|
00210> ROUTE RESERVOIR     NHYDout=["0105"] ,NHYDin=["0104"] ,
00211>                     RDT=[1](min),
00212>                           TABLE of ( OUTFLOW-STORAGE ) values
00213>                                     (cms) - (ha-m)
00214>                                  [ 0        ,  0      ]
00215>                                  [ 0.0001   ,  0.0100 ]
00216>                                  [ 0.0002   ,  0.0272 ]
00217>                                  [ 0.0003   ,  0.0300 ]
00218>                                  [ 0.0004   ,  0.0325 ]
00219>                                  [ 0.0005   ,  0.0350 ]
00220>                                  [ 0.0006   ,  0.0375 ]
00221>                                  [ 0.1000   ,  0.0400 ]
00222>                                  [  -1      ,  -1     ]
00223>                            NHYDovf=["0105ovf"] ,
00224> *%-----------------|-------------------------------------------------------|
00225> ADD HYD             NHYDsum=["0110"], NHYDs to add=["0105"+"0109"+"0105ovf"+"0109ovf"]
00226> *%-----------------|-------------------------------------------------------|
00227> ************************************************************************
00228> *# End of the replicated OTTHYMO model
00229> *#***********************************************************************
00230> *%-----------------|-------------------------------------------------------|
00231> CALIB NASHYD        NHYD=["A-03E"], DT=[1]min, AREA=[5.053](ha),
00232>                     DWF=[0](cms),  CN/C=[80], IA=[4.67](mm),
00233>                     N=[3], TP=[0.65]hrs,
00234>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00235> *%-----------------|-------------------------------------------------------|
00236> CALIB NASHYD        NHYD=["A-03W"], DT=[1]min, AREA=[1.181](ha),
00237>                     DWF=[0](cms),  CN/C=[79], IA=[4.67](mm),
00238>                     N=[3], TP=[0.60]hrs,
00239>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00240> *%-----------------|-------------------------------------------------------|
00241> CALIB NASHYD        NHYD=["A-05E"], DT=[1]min, AREA=[1.065](ha),
00242>                     DWF=[0](cms),  CN/C=[72], IA=[4.67](mm),
00243>                     N=[3], TP=[1.38]hrs,
00244>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00245> *%-----------------|-------------------------------------------------------|
00246> CALIB NASHYD        NHYD=["A-05W"], DT=[1]min, AREA=[0.231](ha),
00247>                     DWF=[0](cms),  CN/C=[71], IA=[4.67](mm),
00248>                     N=[3], TP=[1.05]hrs,
00249>                     RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00250> *%-----------------|-------------------------------------------------------|
00251> ADD HYD             NHYDsum=["Node_2"], NHYDs to add=["A-03E", "A-03W","A-05W", "A-05E","Node_1R", "0110"]
00252> *%-----------------|-------------------------------------------------------|
00253> *# Into SWM Pond via pipe
00254> ROUTE PIPE          PTYPE=[1]circ, NHYDout=["Node_2R"], RNUMBER=[1.0], PDIAM=[ 0.900 ](mm),
00255>                     PLNGTH=[ 593 ](m), PROUGH=[ 0.013 ], PSLOPE=[0.005](m/m), NHYDin=["Node_2"], RDT=[1]
00256> *%-----------------|-------------------------------------------------------|
00257> *# Cold Creek Subdivision
00258> CALIB STANDHYD      NHYD=["Dev"], DT=[1](min), AREA=[26.811](ha), XIMP=[0.53], TIMP=[0.63], DWF=[0.](cms),
00259>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00260>                     Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00261>                     Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[423](m), MNI=[0.013], SCI=[0](min),
00262>                     RAINFALL=[ ,  ,  -1](mm/hr)
00263> *%-----------------|-------------------------------------------------------|
00264> CALIB STANDHYD      NHYD=["Pond"], DT=[1](min), AREA=[1.870](ha), XIMP=[0.40], TIMP=[0.50], DWF=[0.](cms),
00265>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00266>                     Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00267>                     Impervious areas: IAimp=[1.57](mm), SLPI=[1](%), LGI=[112](m), MNI=[0.013], SCI=[0](min),
00268>                     RAINFALL=[ ,  ,  -1](mm/hr)
00269> *%-----------------|-------------------------------------------------------|
00270> ADD HYD             NHYDsum=["Dev&Pond"], NHYDs to add=["Dev", "Pond"]
00271> *%-----------------|-------------------------------------------------------|
00272> *#***********************************************************************
00273> *# Existing Gas Station Pad (to proposed SWM Pond)
00274> CALIB STANDHYD      NHYD=["EXT4B"], DT=[1](min), AREA=[0.246](ha), XIMP=[0.83], TIMP=[0.93], DWF=[0.](cms),
00275>                     LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00276>                     Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
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00277>                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[41](m), MNI=[0.013], SCI=[0](min),
00278>                    RAINFALL=[ ,  ,  -1](mm/hr)
00279> *#*********************************************************************
00280> *%-----------------|-------------------------------------------------------|
00281> ADD HYD             NHYDsum=["DevPondGas"], NHYDs to add=["Dev", "Pond", "EXT4B"]
00282> *%-----------------|-------------------------------------------------------|
00283> ADD HYD             NHYDsum=["SWMPondIn"], NHYDs to add=["Dev&Pond", "Node_2R", "EXT4B"]
00284> *%-----------------|-------------------------------------------------------|
00285> *# SWM Pond (free outlet conditions)
00286> ROUTE RESERVOIR     NHYDout=["SWMPondOut"] ,NHYDin=["SWMPondIn"] ,
00287>                    RDT=[1](min),
00288>                          TABLE of ( OUTFLOW-STORAGE ) values
00289>                                     (cms) - (ha-m)
00290>                                   [ 0 , 0 ]
00291>                                   [ 0.0095 , 0.0403 ]
00292>                                   [ 0.0191 , 0.0814 ]
00293>                                   [ 0.0286 , 0.1233 ]
00294>                                   [ 0.0381 , 0.166 ]
00295>                                   [ 0.0477 , 0.2094 ]
00296>                                   [ 0.0564 , 0.2537 ]
00297>                                   [ 0.0639 , 0.2987 ]
00298>                                   [ 0.0707 , 0.3445 ]
00299>                                   [ 0.0769 , 0.3912 ]
00300>                                   [ 0.0826 , 0.4386 ]
00301>                                   [ 0.1003 , 0.4868 ]
00302>                                   [ 0.1273 , 0.5358 ]
00303>                                   [ 0.1599 , 0.5856 ]
00304>                                   [ 0.1964 , 0.6362 ]
00305>                                   [ 0.2359 , 0.6877 ]
00306>                                   [ 0.2779 , 0.7399 ]
00307>                                   [ 0.3451 , 0.7929 ]
00308>                                   [ 0.3761 , 0.8468 ]
00309>                                   [ 0.4045 , 0.9014 ]
00310>                                   [ 0.4307 , 0.9569 ]
00311>                                   [ 0.4752 , 1.0132 ]
00312>                                   [ 0.5343 , 1.0703 ]
00313>                                   [ 0.602 , 1.1282 ]
00314>                                   [ 0.6762 , 1.187 ]
00315>                                   [ 0.7556 , 1.2465 ]
00316>                                   [ 0.8393 , 1.3069 ]
00317>                                   [ 0.8871 , 1.3681 ]
00318>                                   [ 0.9414 , 1.4302 ]
00319>                                   [ 0.9918 , 1.4931 ]
00320>                                   [ 1.039 , 1.5568 ]
00321>                                   [ 1.0836 , 1.6213 ]
00322>                                   [ 1.1262 , 1.6867 ]
00323>                                   [ 1.1669 , 1.7529 ]
00324>                                   [ 1.206 , 1.82 ]
00325>                                   [ 1.2136 , 1.8335 ]
00326>                                   [ 1.2437 , 1.8879 ]
00327>                                   [ 1.4567 , 1.9566 ]
00328>                                   [ 1.8142 , 2.0261 ]
00329>                                   [ 2.265 , 2.0964 ]
00330>                                   [ 2.7908 , 2.1675 ]
00331>                                   [ 3.381 , 2.2395 ]
00332>                                   [  -1   ,  -1   ]
00333>                          NHYDovf=["SWMPondOvf"] ,
00334> *%-----------------|-------------------------------------------------------|
00335> *# SWM Pond (pond control orifices blockage scenario)
00336> ROUTE RESERVOIR     NHYDout=["SWMPoutBlk"] ,NHYDin=["SWMPondIn"] ,
00337>                    RDT=[1](min),
00338>                          TABLE of ( OUTFLOW-STORAGE ) values
00339>                                     (cms) - (ha-m)
00340>                                   [ 0 , 0 ]
00341>                                   [ 0 , 1.8879 ]
00342>                                   [ 0.1765 , 1.9566 ]
00343>                                   [ 0.4986 , 2.0261 ]
00344>                                   [ 0.9151 , 2.0964 ]
00345>                                   [ 1.4075 , 2.1675 ]
00346>                                   [ 1.9651 , 2.2395 ]
00347>                                   [  -1   ,  -1   ]
00348>                          NHYDovf=["SWMPovfBlk"] ,
00349> *%-----------------|-------------------------------------------------------|
00350> ADD HYD             NHYDsum=["Node_3pond"], NHYDs to add=["SWMPondOut", "SWMPondOvf"]
00351> *%-----------------|-------------------------------------------------------|
00352> SAVE HYD            NHYD=["Node_3pond"],  # OF PCYCLES=[-1],  ICASEsh=[1]
00353>                    HYD_COMMENT=["Pond Outflow"]
00354> *%-----------------|-------------------------------------------------------|
00355> ADD HYD             NHYDsum=["Node_3pBlk"], NHYDs to add=["SWMPoutBlk", "SWMPovfBlk"]
00356> *%-----------------|-------------------------------------------------------|
00357> *# Park Block Draining Uncontrolled to Node 3
00358> CALIB STANDHYD      NHYD=["2A_Park"], DT=[1](min), AREA=[0.950](ha), XIMP=[0.11], TIMP=[0.21], DWF=[0.](cms),
00359>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00360>                    Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00361>                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[80](m), MNI=[0.013], SCI=[0](min),
00362>                    RAINFALL=[ ,  ,  -1](mm/hr)
00363> *%-----------------|-------------------------------------------------------|
00364> ADD HYD             NHYDsum=["Node_3"], NHYDs to add=["Node_3pond", "2A_Park"]
00365> *%-----------------|-------------------------------------------------------|
00366> ROUTE CHANNEL       NHYDout=["Node_3R"], NHYDin=["Node_3"],  RDT=[1](min),
00367>                    CHLGTH=[  664     ](m),  CHSLOPE=[  0.20 ](%), FPSLOPE=[  0.20 ](%),
00368>                    SECNUM=[ 1  ],       NSEG=[ 3   ]
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00369>                    ( SEGROUGH, SEGDIST (m))=[ 0.05,40.41, 0.035,60.28, 0.05,80.82] NSEG times
00370>                    ( DISTANCE (m), ELEVATION (m))=[ 25.17 , 91.67
00371>                                                     30.47 , 91.35
00372>                                                     35.77 , 91
00373>                                                     40.41 , 90.8
00374>                                                     45.71 , 90.71
00375>                                                     50.34 , 90.57
00376>                                                     55.64 , 90.58
00377>                                                     60.28 , 90.75
00378>                                                     65.58 , 90.83
00379>                                                     70.22 , 91.12
00380>                                                     75.52 , 91.39
00381>                                                     80.82 , 91.57]
00382> *%-----------------|-------------------------------------------------------|
00383> CALIB NASHYD        NHYD=["A-08"], DT=[1]min, AREA=[2.073](ha),
00384>                    DWF=[0](cms),  CN/C=[49], IA=[4.67](mm),
00385>                    N=[3], TP=[0.78]hrs,
00386>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00387> *%-----------------|-------------------------------------------------------|
00388> CALIB NASHYD        NHYD=["A-09"], DT=[1]min, AREA=[6.165](ha),
00389>                    DWF=[0](cms),  CN/C=[49], IA=[4.67](mm),
00390>                    N=[3], TP=[1.32]hrs,
00391>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00392> *%-----------------|-------------------------------------------------------|
00393> CALIB NASHYD        NHYD=["A-12"], DT=[1]min, AREA=[7.789](ha),
00394>                    DWF=[0](cms),  CN/C=[56], IA=[4.67](mm),
00395>                    N=[3], TP=[1.11]hrs,
00396>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00397> *%-----------------|-------------------------------------------------------|
00398> *# Uncontrolled Rear Yard Drainage Areas to Node Outlet
00399> CALIB STANDHYD      NHYD=["Unc_8A"], DT=[1](min), AREA=[0.253](ha), XIMP=[0.26], TIMP=[0.36], DWF=[0.](cms),
00400>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00401>                    Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00402>                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[41](m), MNI=[0.013], SCI=[0](min),
00403>                    RAINFALL=[ ,  -1](mm/hr)
00404> *%-----------------|-------------------------------------------------------|
00405> CALIB STANDHYD      NHYD=["Unc_8B"], DT=[1](min), AREA=[0.143](ha), XIMP=[0.26], TIMP=[0.36], DWF=[0.](cms),
00406>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00407>                    Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00408>                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[31](m), MNI=[0.013], SCI=[0](min),
00409>                    RAINFALL=[ ,  -1](mm/hr)
00410> *%-----------------|-------------------------------------------------------|
00411> CALIB STANDHYD      NHYD=["Unc_6"], DT=[1](min), AREA=[0.170](ha), XIMP=[0.26], TIMP=[0.36], DWF=[0.](cms),
00412>                    LOSS=[1] Horton Equ: Fo=[76.20](mm/hr), Fc=[13.2](mm/hr), DCAY=[4.14](/hr), F=[0](mm),
00413>                    Pervious   areas: IAper=[4.67](mm), SLPP=[2](%), LGP=[40](m), MNP=[0.25], SCP=[0](min),
00414>                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[34](m), MNI=[0.013], SCI=[0](min),
00415>                    RAINFALL=[ ,  -1](mm/hr)
00416> *%-----------------|-------------------------------------------------------|
00417> *# West Branch
00418> CALIB NASHYD        NHYD=["A-04"], DT=[1]min, AREA=[18.631](ha),
00419>                    DWF=[0](cms),  CN/C=[69], IA=[4.67](mm),
00420>                    N=[3], TP=[1.47]hrs,
00421>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00422> *%-----------------|-------------------------------------------------------|
00423> CALIB NASHYD        NHYD=["A-10"], DT=[1]min, AREA=[7.418](ha),
00424>                    DWF=[0](cms),  CN/C=[57], IA=[4.67](mm),
00425>                    N=[3], TP=[1.51]hrs,
00426>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00427> *%-----------------|-------------------------------------------------------|
00428> ADD HYD             NHYDsum=["Node_4"], NHYDs to add=["A-04", "A-10"]
00429> *%-----------------|-------------------------------------------------------|
00430> ROUTE CHANNEL       NHYDout=["Node_4R"], NHYDin=["Node_4"],  RDT=[1](min),
00431>                    CHLGTH=[  473    ](m),  CHSLOPE=[  0.66 ](%), FPSLOPE=[  0.66 ](%),
00432>                    SECNUM=[ 1  ],       NSEG=[ 3   ]
00433>                    ( SEGROUGH, SEGDIST (m))=[ 0.05,5, 0.035,6, 0.05,10] NSEG times
00434>                    ( DISTANCE (m), ELEVATION (m))=[ 0, 10
00435>                                                     5, 5
00436>                                                     6, 5
00437>                                                     10, 10]
00438> *%-----------------|-------------------------------------------------------|
00439> CALIB NASHYD        NHYD=["A-11"], DT=[1]min, AREA=[7.925](ha),
00440>                    DWF=[0](cms),  CN/C=[63], IA=[4.67](mm),
00441>                    N=[3], TP=[0.99]hrs,
00442>                    RAINFALL=[ ,  ,  ,  , ](mm/hr),  END=-1
00443> *%-----------------|-------------------------------------------------------|
00444> ADD HYD             NHYDsum=["Outlet"], NHYDs to add=["Node_3R", "A-08", "A-09", "A-11", "A-12", "Unc_8A", "Unc_8B", "Un
00445> *%-----------------|-------------------------------------------------------|
00446> SAVE HYD            NHYD=["Outlet"],  # OF PCYCLES=[-1],  ICASEsh=[1]
00447>                    HYD_COMMENT=["Total Outflows to Sandy Hook Road"]
00448> *%-----------------|-------------------------------------------------------|
00449> ************************************************************************
00450> * 4 hr CHICAGO DESIGN STORMS - Derived from Belleville Gauge IDF
00451> ************************************************************************
00452> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[002]
00453>                    ["2Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00454> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[005]
00455>                    ["5Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00456> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[010]
00457>                    ["10Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00458> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[025]
00459>                    ["25Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00460> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[050]
```

```
00461>                    ["50Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00462> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[099]
00463>                    ["100Yr4HrCHIBell.stm"] <--storm filename, one per line for NSTORM time
00464> ********************************************************************************
00465> * 12 hr SCS DESIGN STORMS - Derived from Belleville Gauge IDF
00466> ********************************************************************************
00467> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[102]
00468>                    ["2Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00469> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[105]
00470>                    ["5Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00471> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[110]
00472>                    ["10Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00473> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[125]
00474>                    ["25Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00475> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[150]
00476>                    ["50Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00477> START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[199]
00478>                    ["100Yr12HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00479> ********************************************************************************
00480> * 24 hr SCS DESIGN STORMS - Derived from Belleville Gauge IDF
00481> ********************************************************************************
00482> *START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[202]
00483> *                   ["2Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00484> *START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[205]
00485> *                   ["5Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00486> *START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[210]
00487> *                   ["10Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00488> *START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[225]
00489> *                   ["25Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00490> *START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[250]
00491> *                   ["50Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00492> *START              TZERO=[0],  METOUT=[2],  NSTORM=[1],  NRUN=[299]
00493> *                   ["100Yr24HrSCSBell.stm"] <--storm filename, one per line for NSTORM time
00494> *%-----------------|-------------------------------------------------------------------------------------------------------|
00495> *START              TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[999]
00496> *                  ["Timmins.stm"]
00497> *%-----------------|-------------------------------------------------------------------------------------------------------|
00498> FINISH
```

```
00001>  ================================================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222     000    11   5555   =========
00004>  S       W W W   MM MM   H   H    Y Y    MM MM   O   O          2     0   0   11   5
00005>  SSSSS   W W W   M M M   HHHHH     Y     M M M   O   O          2     0   0   11   5      Ver 5.500
00006>      S    W W    M   M   H   H     Y     M   M   O   O        222     0   0   11   555    FEB  2015
00007>  SSSSS    W W    M   M   H   H     Y     M   M    OOO        2       0   0   11      5   =========
00008>                                                              2       0   0   11      5   # 2549237
00009>        StormWater Management HYdrologic Model                 222     000    11   555    =========
00010>
00011>  ************************************************************************************************
00012>  ************************************  SWMHYMO Ver 5.500  *************************************
00013>  ******************  A single event and continuous hydrologic simulation model  ******************
00014>  ******************     based on the principles of HYMO and its successors      ******************
00015>  ******************                 OTTHYMO-83 and OTTHYMO-89.                  ******************
00016>  ************************************************************************************************
00017>  ****************** Distributed by:  J.F. Sabourin and Associates Inc.          ******************
00018>  ******************                   Ottawa,  Ontario: (613) 836-3884          ******************
00019>  ******************                   Gatineau, Quebec: (819) 243-6858          ******************
00020>  ******************                   E-Mail: swmhymo@jfsa.Com                  ******************
00021>  ************************************************************************************************
00022>
00023>  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00024>  ++++++++++++++++++ Licensed user: JFSAinc.                                  ++++++++++++++++++++
00025>  ++++++++++++++++++                Ottawa               SERIAL#:2549237       ++++++++++++++++++++
00026>  ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
00027>
00028>  ************************************************************************************************
00029>  ******************           ++++++ PROGRAM ARRAY DIMENSIONS ++++++            ******************
00030>  ******************           Maximum value for ID numbers  :     11            ******************
00031>  ******************           Max. number of rainfall points: 105408            ******************
00032>  ******************           Max. number of flow points    : 105408            ******************
00033>  ************************************************************************************************
00034>
00035>
00036>  *******************************   S U M M A R Y   O U T P U T   ********************************
00037>  ************************************************************************************************
00038>  *                RUN DATE: 2025-05-20     TIME: 15:35:07     RUN COUNTER: 013790                *
00039>  ************************************************************************************************
00040>  * Input   file: C:\Temp\SWMHYMO\Post-Dev\SWMEAD-POST_v02.7B.dat                                  *
00041>  * Output  file: C:\Temp\SWMHYMO\Post-Dev\SWMEAD-POST_v02.7B.out                                  *
00042>  * Summary file: C:\Temp\SWMHYMO\Post-Dev\SWMEAD-POST_v02.7B.sum                                  *
00043>  * User comments:                                                                                *
00044>  * 1:_____________________________________________________________________________________________*
00045>  * 2:_____________________________________________________________________________________________*
00046>  * 3:_____________________________________________________________________________________________*
00047>  ************************************************************************************************
00048>
00049>
00050> #*****************************************************************************
00051> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00052> #*****************************************************************************
00053> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00054> #  Date        : 2023-10
00055> #  Modeller    : [JB]
00056> #  Updated             : 2025-05 [PP]
00057> #  Company     : JFSA Ottawa
00058> #  License #   : 2549237
00059> #*****************************************************************************
00060> # Post Development Scenario B - Upstream flows diverted through subdivision
00061> #*****************************************************************************
00062>  RUN#:COMMAND#
00063> R0001:C00001-------------------------------------------------------------------------------------
00064>      START
00065>       [TZERO =    .00 hrs on        0]
00066>       [METOUT=   2    (1=imperial, 2=metric output)]
00067>       [NSTORM=   1 ]
00068>       [NRUN  = 0001 ]
00069> R0001:C00002-------------------------------------------------------------------------------------
00070>      READ STORM
00071>       Filename = STORM.001
00072>       Comment  = 25mm (based off 2-Yr 4-hr Chicago - Belleville Station)
00073>       [SDT=10.00:SDUR=   4.00:PTOT=  25.00]
00074> #*****************************************************************************
00075> # POST-DEVELOPMENT CONDITIONS
00076> # Flows from upstream lands routed through subdivision
00077> #*****************************************************************************
00078> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
00079> # Improvements and New Urban Retail Development - In SWMHYMO
00080> R0001:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00081>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39     .727 No_date    1:22   18.74 .750     .000
00082>       [XIMP=.76:TIMP=.86]
00083>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00084>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00085>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00086> R0001:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00087>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39     .727 No_date    1:22   18.74  n/a     .000
00088>                   out <=    1.0 01:NodeB          8.39     .074 No_date    2:18   18.74  n/a     .000
00089>             overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00090>      {MxStoUsed=.1059E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00091> R0001:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00092>     ADD HYD               1.0 02:NodeB          8.39     .074 No_date    2:18   18.74  n/a     .000
```

```
00093>                    +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00094>                  SUM=    1.0 01:Node_1         8.39     .074 No_date    2:18   18.74  n/a     .000
00095> R0001:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00096>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .074 No_date    2:18   18.74  n/a     .000
00097>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .074 No_date    2:29   18.74  n/a     .000
00098>       [L/S/n=  327./ .920/.035]
00099>       {Vmax=  .552:Dmax=  .149}
00100> #*******************************************************************************
00101> # Replication of the OTTHYMO model for the Choice Properties REIT
00102> # development as per the November 2023 'Proposed Retails Pads B & C
00103> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00104> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00105> # Notes:
00106> # - DT changed from 5 min to 1 min
00107> # - Reservoir Overflows added to the downstream node for all reservoirs
00108> #*******************************************************************************
00109> # 0003
00110> #*******************************************************************************
00111> R0001:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00112>     CALIB STANDHYD        1.0 01:0003           .24     .030 No_date    1:20   21.60 .864     .000
00113>       [XIMP=.90:TIMP=.90]
00114>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00115>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00116>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00117> #*******************************************************************************
00118> # 0002
00119> #*******************************************************************************
00120> R0001:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00121>     CALIB STANDHYD        1.0 01:0002           .07     .010 No_date    1:20   23.75 .950     .000
00122>       [XIMP=.99:TIMP=.99]
00123>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00124>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00125>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00126> #*******************************************************************************
00127> # 0001
00128> #*******************************************************************************
00129> R0001:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00130>     CALIB STANDHYD        1.0 01:0001           .93     .107 No_date    1:20   20.40 .816     .000
00131>       [XIMP=.85:TIMP=.85]
00132>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00133>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00134>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00135> #*******************************************************************************
00136> # 0006
00137> #*******************************************************************************
00138> R0001:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00139>     CALIB STANDHYD        1.0 01:0006           .24     .033 No_date    1:20   23.76 .951     .000
00140>       [XIMP=.99:TIMP=.99]
00141>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00142>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00143>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00144> #*******************************************************************************
00145> # 0007
00146> #*******************************************************************************
00147> R0001:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00148>     CALIB STANDHYD        1.0 01:0007           .38     .048 No_date    1:20   21.60 .864     .000
00149>       [XIMP=.90:TIMP=.90]
00150>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00151>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00152>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00153> #*******************************************************************************
00154> # 0044
00155> #*******************************************************************************
00156> R0001:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00157>     CALIB STANDHYD        1.0 01:0044           .54     .071 No_date    1:20   22.80 .912     .000
00158>       [XIMP=.95:TIMP=.95]
00159>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00160>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00161>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00162> #*******************************************************************************
00163> # 0005
00164> #*******************************************************************************
00165> R0001:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00166>     CALIB STANDHYD        1.0 01:0005           .16     .022 No_date    1:20   23.76 .951     .000
00167>       [XIMP=.99:TIMP=.99]
00168>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00169>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00170>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00171> #*******************************************************************************
00172> R0001:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00173>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .010 No_date    1:20   23.75  n/a     .000
00174>                 out <=    1.0 01:0111           .07     .001 No_date    1:50   23.75  n/a     .000
00175>            overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00176>      {MxStoUsed=.9843E-03  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00177> R0001:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00178>     ADD HYD               1.0 02:0111           .07     .001 No_date    1:50   23.75  n/a     .000
00179>                       +   1.0 02:0001           .93     .107 No_date    1:20   20.40  n/a     .000
00180>                       +   1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00181>                    SUM=   1.0 01:0101          1.00     .108 No_date    1:20   20.64  n/a     .000
00182> R0001:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00183>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .033 No_date    1:20   23.76  n/a     .000
00184>                 out <=    1.0 01:0102           .24     .001 No_date    3:11   23.76  n/a     .000
```

```
00185>           overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00186>      {MxStoUsed=.4437E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00187> R0001:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00188>     ADD HYD              1.0 02:0007           .38     .048 No_date    1:20   21.60  n/a     .000
00189>                    +     1.0 02:0044           .54     .071 No_date    1:20   22.80  n/a     .000
00190>                  SUM=    1.0 01:0106           .92     .119 No_date    1:20   22.30  n/a     .000
00191> R0001:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00192>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .022 No_date    1:20   23.76  n/a     .000
00193>                  out <=    1.0 01:0108           .16     .001 No_date    3:11   23.76  n/a     .000
00194>           overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00195>      {MxStoUsed=.2958E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00196> R0001:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00197>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .108 No_date    1:20   20.64  n/a     .000
00198>                  out <=    1.0 01:0100          1.00     .057 No_date    1:25   20.64  n/a     .000
00199>           overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00200>      {MxStoUsed=.3195E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00201> R0001:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00202>     ADD HYD              1.0 02:0100          1.00     .057 No_date    1:25   20.64  n/a     .000
00203>                    +     1.0 02:0102           .24     .001 No_date    3:11   23.76  n/a     .000
00204>                    +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00205>                    +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00206>                  SUM=    1.0 01:0103          1.24     .058 No_date    1:30   21.24  n/a     .000
00207> R0001:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00208>     ADD HYD              1.0 02:0106           .92     .119 No_date    1:20   22.30  n/a     .000
00209>                    +     1.0 02:0108           .16     .001 No_date    3:11   23.76  n/a     .000
00210>                    +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00211>                  SUM=    1.0 01:0107          1.08     .119 No_date    1:20   22.52  n/a     .000
00212> R0001:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00213>     ADD HYD              1.0 02:0003           .24     .030 No_date    1:20   21.60  n/a     .000
00214>                    +     1.0 02:0103          1.24     .058 No_date    1:30   21.24  n/a     .000
00215>                  SUM=    1.0 01:0104          1.48     .088 No_date    1:20   21.30  n/a     .000
00216> R0001:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00217>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .119 No_date    1:20   22.52  n/a     .000
00218>                  out <=    1.0 01:0109          1.08     .000 No_date   18:06   22.47  n/a     .000
00219>           overflow <=    1.0 03:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
00220>      {MxStoUsed=.2263E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00221> R0001:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00222>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .088 No_date    1:20   21.30  n/a     .000
00223>                  out <=    1.0 01:0105          1.48     .000 No_date   18:27   21.25  n/a     .000
00224>           overflow <=    1.0 03:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
00225>      {MxStoUsed=.2921E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00226> R0001:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00227>     ADD HYD              1.0 02:0105          1.48     .000 No_date   18:27   21.25  n/a     .000
00228>                    +     1.0 02:0109          1.08     .000 No_date   18:06   22.47  n/a     .000
00229>                    +     1.0 02:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
00230>                    +     1.0 02:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
00231>                  SUM=    1.0 01:0110          2.56     .000 No_date   18:24   21.77  n/a     .000
00232> # End of the replicated OTTHYMO model
00233> #*************************************************************************
00234> R0001:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00235>     CALIB NASHYD         1.0 01:A-03E          5.05     .032 No_date    2:16    4.93 .197     .000
00236>       [CN= 80.0: N= 3.00: Tp=  .65]
00237> R0001:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00238>     CALIB NASHYD         1.0 01:A-03W          1.18     .007 No_date    2:12    4.70 .188     .000
00239>       [CN= 79.0: N= 3.00: Tp=  .60]
00240> R0001:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00241>     CALIB NASHYD         1.0 01:A-05E          1.07     .003 No_date    3:24    3.47 .139     .000
00242>       [CN= 72.0: N= 3.00: Tp= 1.38]
00243> R0001:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00244>     CALIB NASHYD         1.0 01:A-05W           .23     .001 No_date    2:54    3.32 .133     .000
00245>       [CN= 71.0: N= 3.00: Tp= 1.05]
00246> R0001:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00247>     ADD HYD              1.0 02:A-03E          5.05     .032 No_date    2:16    4.93  n/a     .000
00248>                    +     1.0 02:A-03W          1.18     .007 No_date    2:12    4.70  n/a     .000
00249>                    +     1.0 02:A-05W           .23     .001 No_date    2:54    3.32  n/a     .000
00250>                    +     1.0 02:A-05E          1.07     .003 No_date    3:24    3.47  n/a     .000
00251>                    +     1.0 02:Node_1R        8.39     .074 No_date    2:29   18.74  n/a     .000
00252>                    +     1.0 02:0110           2.56     .000 No_date   18:24   21.77  n/a     .000
00253>                  SUM=    1.0 01:Node_2        18.48     .116 No_date    2:21   13.41  n/a     .000
00254> # Into SWM Pond via pipe
00255> R0001:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00256>     ROUTE PIPE      ->    1.0 02:Node_2        18.48     .116 No_date    2:21   13.41  n/a     .000
00257>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .115 No_date    2:30   13.41  n/a     .000
00258>       [L/S/n=  593./ .500/.013]
00259>       {Vmax= 1.257:Dmax=  .300}
00260>       [Din=  .00:Dused=  .37}
00261> # Cold Creek Subdivision
00262> R0001:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00263>     CALIB STANDHYD       1.0 01:Dev           26.81    1.279 No_date    1:26   13.08 .523     .000
00264>       [XIMP=.53:TIMP=.63]
00265>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00266>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00267>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
00268> R0001:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00269>     CALIB STANDHYD       1.0 01:Pond           1.87     .097 No_date    1:20    9.97 .399     .000
00270>       [XIMP=.40:TIMP=.50]
00271>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00272>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00273>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
00274> R0001:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00275>     ADD HYD              1.0 02:Dev           26.81    1.279 No_date    1:26   13.08  n/a     .000
00276>                    +     1.0 02:Pond           1.87     .097 No_date    1:20    9.97  n/a     .000
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00277>                  SUM=     1.0 01:Dev&Pond      28.68    1.336 No_date    1:25   12.88  n/a     .000
00278> #*************************************************************************
00279> # Existing Gas Station Pad (to proposed SWM Pond)
00280> R0001:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00281>     CALIB STANDHYD        1.0 01:EXT4B           .25     .030 No_date    1:20   20.65 .826     .000
00282>       [XIMP=.83:TIMP=.93]
00283>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00284>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00285>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
00286> #*************************************************************************
00287> R0001:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00288>     ADD HYD               1.0 02:Dev           26.81    1.279 No_date    1:26   13.08  n/a     .000
00289>                     +     1.0 02:Pond           1.87     .097 No_date    1:20    9.97  n/a     .000
00290>                     +     1.0 02:EXT4B           .25     .030 No_date    1:20   20.65  n/a     .000
00291>                   SUM=    1.0 01:DevPondGas    28.93    1.351 No_date    1:25   12.94  n/a     .000
00292> R0001:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00293>     ADD HYD               1.0 02:Dev&Pond      28.68    1.336 No_date    1:25   12.88  n/a     .000
00294>                     +     1.0 02:Node_2R       18.48     .115 No_date    2:30   13.41  n/a     .000
00295>                     +     1.0 02:EXT4B           .25     .030 No_date    1:20   20.65  n/a     .000
00296>                   SUM=    1.0 01:SWMPondIn     47.41    1.359 No_date    1:26   13.12  n/a     .000
00297> # SWM Pond (free outlet conditions)
00298> R0001:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00299>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    1.359 No_date    1:26   13.12  n/a     .000
00300>                  out <=   1.0 01:SWMPondOut    47.41     .078 No_date    4:33   13.12  n/a     .000
00301>            overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
00302>      {MxStoUsed=.3992E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00303> # SWM Pond (pond control orifices blockage scenario)
00304> R0001:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00305>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    1.359 No_date    1:26   13.12  n/a     .000
00306>  *                 out <=   1.0 01:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
00307>            overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
00308>      {MxStoUsed=.6221E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00309> R0001:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00310>     ADD HYD               1.0 02:SWMPondOut    47.41     .078 No_date    4:33   13.12  n/a     .000
00311>                     +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
00312>                   SUM=    1.0 01:Node_3pond    47.41     .078 No_date    4:33   13.12  n/a     .000
00313> R0001:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00314>     SAVE HYD              1.0 01:Node_3pond    47.41     .078 No_date    4:33   13.12  n/a     .000
00315>       fname :Node_3pond.0001
00316>       remark:Pond Outflow
00317> R0001:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00318>     ADD HYD               1.0 02:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
00319>                     +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
00320>                   SUM=    1.0 01:Node_3pBlk    47.41     .000 No_date    0:00     .00  n/a     .000
00321> # Park Block Draining Uncontrolled to Node 3
00322> R0001:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00323>     CALIB STANDHYD        1.0 01:2A_Park         .95     .014 No_date    1:20    3.11 .124     .000
00324>       [XIMP=.11:TIMP=.21]
00325>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00326>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00327>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
00328> R0001:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00329>     ADD HYD               1.0 02:Node_3pond    47.41     .078 No_date    4:33   13.12  n/a     .000
00330>                     +     1.0 02:2A_Park         .95     .014 No_date    1:20    3.11  n/a     .000
00331>                   SUM=    1.0 01:Node_3        48.36     .078 No_date    4:33   12.93  n/a     .000
00332> R0001:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00333>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .078 No_date    4:33   12.93  n/a     .000
00334>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .076 No_date    6:24   12.93  n/a     .000
00335>       [L/S/n=  664./ .200/.035]
00336>       {Vmax=  .156:Dmax=  .064}
00337> R0001:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00338>     CALIB NASHYD          1.0 01:A-08           2.07     .003 No_date    2:31    1.45 .058     .000
00339>       [CN= 49.0: N= 3.00: Tp=  .78]
00340> R0001:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00341>     CALIB NASHYD          1.0 01:A-09           6.16     .007 No_date    3:21    1.45 .058     .000
00342>       [CN= 49.0: N= 3.00: Tp= 1.32]
00343> R0001:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00344>     CALIB NASHYD          1.0 01:A-12           7.79     .013 No_date    3:01    1.88 .075     .000
00345>       [CN= 56.0: N= 3.00: Tp= 1.11]
00346> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
00347> R0001:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00348>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .009 No_date    1:20    6.64 .266     .000
00349>       [XIMP=.26:TIMP=.36]
00350>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00351>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00352>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
00353> R0001:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00354>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .005 No_date    1:20    6.64 .266     .000
00355>       [XIMP=.26:TIMP=.36]
00356>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00357>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00358>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
00359> R0001:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00360>     CALIB STANDHYD        1.0 01:Unc_6           .17     .006 No_date    1:20    6.64 .266     .000
00361>       [XIMP=.26:TIMP=.36]
00362>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00363>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00364>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
00365> # West Branch
00366> R0001:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00367>     CALIB NASHYD          1.0 01:A-04          18.63     .044 No_date    3:32    3.07 .123     .000
00368>       [CN= 69.0: N= 3.00: Tp= 1.47]
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00369> R0001:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00370>     CALIB NASHYD          1.0 01:A-10           7.42     .011 No_date    3:38    1.95 .078     .000
00371>       [CN= 57.0: N= 3.00: Tp= 1.51]
00372> R0001:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00373>     ADD HYD               1.0 02:A-04          18.63     .044 No_date    3:32    3.07  n/a     .000
00374>                   +       1.0 02:A-10           7.42     .011 No_date    3:38    1.95  n/a     .000
00375>                 SUM=      1.0 01:Node_4        26.05     .055 No_date    3:33    2.75  n/a     .000
00376> R0001:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00377>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .055 No_date    3:33    2.75  n/a     .000
00378>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .055 No_date    3:44    2.75  n/a     .000
00379>       [L/S/n=  473./ .660/.035]
00380>       {Vmax=  .832:Dmax=  .054}
00381> R0001:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00382>     CALIB NASHYD          1.0 01:A-11           7.93     .019 No_date    2:49    2.44 .098     .000
00383>       [CN= 63.0: N= 3.00: Tp=  .99]
00384> R0001:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00385>     ADD HYD               1.0 02:Node_3R       48.36     .076 No_date    6:24   12.93  n/a     .000
00386>                   +       1.0 02:A-08           2.07     .003 No_date    2:31    1.45  n/a     .000
00387>                   +       1.0 02:A-09           6.16     .007 No_date    3:21    1.45  n/a     .000
00388>                   +       1.0 02:A-11           7.93     .019 No_date    2:49    2.44  n/a     .000
00389>                   +       1.0 02:A-12           7.79     .013 No_date    3:01    1.88  n/a     .000
00390>                   +       1.0 02:Unc_8A          .25     .009 No_date    1:20    6.64  n/a     .000
00391>                   +       1.0 02:Unc_8B          .14     .005 No_date    1:20    6.64  n/a     .000
00392>                   +       1.0 02:Unc_6           .17     .006 No_date    1:20    6.64  n/a     .000
00393>                   +       1.0 02:Node_4R       26.05     .055 No_date    3:44    2.75  n/a     .000
00394>                 SUM=      1.0 01:Outlet        98.92     .154 No_date    3:51    7.54  n/a     .000
00395> R0001:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00396>     SAVE HYD              1.0 01:Outlet        98.92     .154 No_date    3:51    7.54  n/a     .000
00397>       fname :Outlet.0001
00398>       remark:Total Outflows to Sandy Hook Road
00399>   ** END OF RUN :    1
00400>
00401> ****************************************************************************************************
00402>
00403>
00404>
00405>
00406>
00407>  RUN#:COMMAND#
00408> R0002:C00001----------------------------------------------------------------------------------------
00409>      START
00410>       [TZERO =    .00 hrs on        0]
00411>       [METOUT=   2    (1=imperial, 2=metric output)]
00412>       [NSTORM=   1 ]
00413>       [NRUN  = 0002 ]
00414> #*****************************************************************************
00415> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00416> #*****************************************************************************
00417> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00418> #  Date        : 2023-10
00419> #  Modeller    : [JB]
00420> #  Updated             : 2025-05 [PP]
00421> #  Company     : JFSA Ottawa
00422> #  License #   : 2549237
00423> #*****************************************************************************
00424> # Post Development Scenario B - Upstream flows diverted through subdivision
00425> #*****************************************************************************
00426> R0002:C00002----------------------------------------------------------------------------------------
00427>      READ STORM
00428>       Filename = STORM.001
00429>       Comment  = Belleville: 2-Year, 4-Hour Chicago
00430>       [SDT=10.00:SDUR=   4.00:PTOT=  33.42]
00431> #*****************************************************************************
00432> # POST-DEVELOPMENT CONDITIONS
00433> # Flows from upstream lands routed through subdivision
00434> #*****************************************************************************
00435> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
00436> # Improvements and New Urban Retail Development - In SWMHYMO
00437> R0002:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00438>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.048 No_date    1:21   26.27 .786     .000
00439>       [XIMP=.76:TIMP=.86]
00440>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00441>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00442>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00443> R0002:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00444>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.048 No_date    1:21   26.27  n/a     .000
00445>                  out <=   1.0 01:NodeB          8.39     .105 No_date    2:14   26.27  n/a     .000
00446>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00447>      {MxStoUsed=.1498E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00448> R0002:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00449>     ADD HYD               1.0 02:NodeB          8.39     .105 No_date    2:14   26.27  n/a     .000
00450>                   +       1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00451>                  SUM=     1.0 01:Node_1         8.39     .105 No_date    2:14   26.27  n/a     .000
00452> R0002:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00453>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .105 No_date    2:14   26.27  n/a     .000
00454>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .104 No_date    2:23   26.27  n/a     .000
00455>       [L/S/n=  327./ .920/.035]
00456>       {Vmax=  .607:Dmax=  .173}
00457> #*****************************************************************************
00458> # Replication of the OTTHYMO model for the Choice Properties REIT
00459> # development as per the November 2023 'Proposed Retails Pads B & C
00460> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
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00461> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00462> # Notes:
00463> # - DT changed from 5 min to 1 min
00464> # - Reservoir Overflows added to the downstream node for all reservoirs
00465> #*******************************************************************************
00466> # 0003
00467> #*******************************************************************************
00468> R0002:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00469>     CALIB STANDHYD        1.0 01:0003           .24     .041 No_date    1:20   29.41 .880     .000
00470>       [XIMP=.90:TIMP=.90]
00471>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00472>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00473>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00474> #*******************************************************************************
00475> # 0002
00476> #*******************************************************************************
00477> R0002:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00478>     CALIB STANDHYD        1.0 01:0002           .07     .013 No_date    1:20   32.12 .961     .000
00479>       [XIMP=.99:TIMP=.99]
00480>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00481>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00482>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00483> #*******************************************************************************
00484> # 0001
00485> #*******************************************************************************
00486> R0002:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00487>     CALIB STANDHYD        1.0 01:0001           .93     .145 No_date    1:20   27.90 .835     .000
00488>       [XIMP=.85:TIMP=.85]
00489>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00490>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00491>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00492> #*******************************************************************************
00493> # 0006
00494> #*******************************************************************************
00495> R0002:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00496>     CALIB STANDHYD        1.0 01:0006           .24     .045 No_date    1:20   32.13 .962     .000
00497>       [XIMP=.99:TIMP=.99]
00498>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00499>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00500>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00501> #*******************************************************************************
00502> # 0007
00503> #*******************************************************************************
00504> R0002:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00505>     CALIB STANDHYD        1.0 01:0007           .38     .064 No_date    1:20   29.41 .880     .000
00506>       [XIMP=.90:TIMP=.90]
00507>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00508>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00509>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00510> #*******************************************************************************
00511> # 0044
00512> #*******************************************************************************
00513> R0002:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00514>     CALIB STANDHYD        1.0 01:0044           .54     .096 No_date    1:20   30.91 .925     .000
00515>       [XIMP=.95:TIMP=.95]
00516>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00517>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00518>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00519> #*******************************************************************************
00520> # 0005
00521> #*******************************************************************************
00522> R0002:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00523>     CALIB STANDHYD        1.0 01:0005           .16     .030 No_date    1:20   32.13 .962     .000
00524>       [XIMP=.99:TIMP=.99]
00525>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00526>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00527>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00528> #*******************************************************************************
00529> R0002:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00530>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .013 No_date    1:20   32.12  n/a     .000
00531>                   out <=    1.0 01:0111           .07     .002 No_date    1:46   32.12  n/a     .000
00532>             overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00533>      {MxStoUsed=.1329E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00534> R0002:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00535>     ADD HYD               1.0 02:0111           .07     .002 No_date    1:46   32.12  n/a     .000
00536>                       +     1.0 02:0001           .93     .145 No_date    1:20   27.90  n/a     .000
00537>                       +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
00538>                    SUM=     1.0 01:0101          1.00     .147 No_date    1:20   28.20  n/a     .000
00539> R0002:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00540>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .045 No_date    1:20   32.13  n/a     .000
00541>                   out <=    1.0 01:0102           .24     .002 No_date    3:10   32.13  n/a     .000
00542>             overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
00543>      {MxStoUsed=.5997E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00544> R0002:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00545>     ADD HYD               1.0 02:0007           .38     .064 No_date    1:20   29.41  n/a     .000
00546>                       +     1.0 02:0044           .54     .096 No_date    1:20   30.91  n/a     .000
00547>                    SUM=     1.0 01:0106           .92     .160 No_date    1:20   30.29  n/a     .000
00548> R0002:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00549>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .030 No_date    1:20   32.13  n/a     .000
00550>                   out <=    1.0 01:0108           .16     .001 No_date    3:10   32.13  n/a     .000
00551>             overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
00552>      {MxStoUsed=.3998E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
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00553> R0002:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00554>     ROUTE RESERVOIR ->    1.0 02:0101           1.00      .147 No_date    1:20   28.20  n/a      .000
00555>                   out <=    1.0 01:0100           1.00      .058 No_date    1:29   28.20  n/a      .000
00556>              overflow <=    1.0 03:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
00557>       {MxStoUsed=.5803E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00558> R0002:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00559>     ADD HYD               1.0 02:0100           1.00      .058 No_date    1:29   28.20  n/a      .000
00560>                       +     1.0 02:0102            .24      .002 No_date    3:10   32.13  n/a      .000
00561>                       +     1.0 02:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
00562>                       +     1.0 02:0102ovf         .00      .000 No_date    0:00     .00  n/a      .000
00563>                     SUM=    1.0 01:0103           1.24      .060 No_date    1:33   28.96  n/a      .000
00564> R0002:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00565>     ADD HYD               1.0 02:0106            .92      .160 No_date    1:20   30.29  n/a      .000
00566>                       +     1.0 02:0108            .16      .001 No_date    3:10   32.13  n/a      .000
00567>                       +     1.0 02:0108ovf         .00      .000 No_date    0:00     .00  n/a      .000
00568>                     SUM=    1.0 01:0107           1.08      .160 No_date    1:20   30.57  n/a      .000
00569> R0002:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00570>     ADD HYD               1.0 02:0003            .24      .041 No_date    1:20   29.41  n/a      .000
00571>                       +     1.0 02:0103           1.24      .060 No_date    1:33   28.96  n/a      .000
00572>                     SUM=    1.0 01:0104           1.48      .099 No_date    1:20   29.03  n/a      .000
00573> R0002:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00574>     ROUTE RESERVOIR ->    1.0 02:0107           1.08      .160 No_date    1:20   30.57  n/a      .000
00575>                   out <=    1.0 01:0109           1.08      .000 No_date   14:00   30.51  n/a      .000
00576>              overflow <=    1.0 03:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
00577>       {MxStoUsed=.3004E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00578> R0002:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00579>     ROUTE RESERVOIR ->    1.0 02:0104           1.48      .099 No_date    1:20   29.03  n/a      .000
00580>                   out <=    1.0 01:0105           1.48      .002 No_date    7:04   28.97  n/a      .000
00581>              overflow <=    1.0 03:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
00582>       {MxStoUsed=.3752E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00583> R0002:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00584>     ADD HYD               1.0 02:0105           1.48      .002 No_date    7:04   28.97  n/a      .000
00585>                       +     1.0 02:0109           1.08      .000 No_date   14:00   30.51  n/a      .000
00586>                       +     1.0 02:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
00587>                       +     1.0 02:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
00588>                     SUM=    1.0 01:0110           2.56      .002 No_date    7:04   29.62  n/a      .000
00589> # End of the replicated OTTHYMO model
00590> #*******************************************************************************
00591> R0002:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00592>     CALIB NASHYD          1.0 01:A-03E          5.05      .060 No_date    2:14    8.96 .268      .000
00593>       [CN= 80.0: N= 3.00: Tp=  .65]
00594> R0002:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00595>     CALIB NASHYD          1.0 01:A-03W          1.18      .014 No_date    2:09    8.59 .257      .000
00596>       [CN= 79.0: N= 3.00: Tp=  .60]
00597> R0002:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00598>     CALIB NASHYD          1.0 01:A-05E          1.07      .006 No_date    3:19    6.48 .194      .000
00599>       [CN= 72.0: N= 3.00: Tp= 1.38]
00600> R0002:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00601>     CALIB NASHYD          1.0 01:A-05W           .23      .001 No_date    2:50    6.23 .186      .000
00602>       [CN= 71.0: N= 3.00: Tp= 1.05]
00603> R0002:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00604>     ADD HYD               1.0 02:A-03E          5.05      .060 No_date    2:14    8.96  n/a      .000
00605>                       +     1.0 02:A-03W          1.18      .014 No_date    2:09    8.59  n/a      .000
00606>                       +     1.0 02:A-05W           .23      .001 No_date    2:50    6.23  n/a      .000
00607>                       +     1.0 02:A-05E          1.07      .006 No_date    3:19    6.48  n/a      .000
00608>                       +     1.0 02:Node_1R        8.39      .104 No_date    2:23   26.27  n/a      .000
00609>                       +     1.0 02:0110           2.56      .002 No_date    7:04   29.62  n/a      .000
00610>                     SUM=    1.0 01:Node_2        18.48      .184 No_date    2:16   19.47  n/a      .000
00611> # Into SWM Pond via pipe
00612> R0002:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00613>     ROUTE PIPE      ->    1.0 02:Node_2        18.48      .184 No_date    2:16   19.47  n/a      .000
00614>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48      .182 No_date    2:25   19.47  n/a      .000
00615>       [L/S/n=  593./ .500/.013]
00616>       {Vmax= 1.411:Dmax=  .357}
00617>       [Din=  .00:Dused=  .43}
00618> # Cold Creek Subdivision
00619> R0002:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00620>     CALIB STANDHYD        1.0 01:Dev           26.81    1.922 No_date    1:25   19.28 .577      .000
00621>       [XIMP=.53:TIMP=.63]
00622>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00623>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00624>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
00625> R0002:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00626>     CALIB STANDHYD        1.0 01:Pond           1.87      .143 No_date    1:20   15.39 .461      .000
00627>       [XIMP=.40:TIMP=.50]
00628>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00629>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00630>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
00631> R0002:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00632>     ADD HYD               1.0 02:Dev           26.81    1.922 No_date    1:25   19.28  n/a      .000
00633>                       +     1.0 02:Pond           1.87      .143 No_date    1:20   15.39  n/a      .000
00634>                     SUM=    1.0 01:Dev&Pond      28.68    2.016 No_date    1:25   19.03  n/a      .000
00635> #*******************************************************************************
00636> # Existing Gas Station Pad (to proposed SWM Pond)
00637> R0002:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00638>     CALIB STANDHYD        1.0 01:EXT4B           .25      .041 No_date    1:20   28.63 .857      .000
00639>       [XIMP=.83:TIMP=.93]
00640>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00641>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00642>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
00643> #*******************************************************************************
00644> R0002:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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```
00645>     ADD HYD              1.0 02:Dev          26.81    1.922 No_date    1:25   19.28  n/a     .000
00646>                    +     1.0 02:Pond          1.87     .143 No_date    1:20   15.39  n/a     .000
00647>                    +     1.0 02:EXT4B          .25     .041 No_date    1:20   28.63  n/a     .000
00648>                  SUM=    1.0 01:DevPondGas    28.93    2.037 No_date    1:25   19.11  n/a     .000
00649> R0002:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00650>     ADD HYD              1.0 02:Dev&Pond     28.68    2.016 No_date    1:25   19.03  n/a     .000
00651>                    +     1.0 02:Node_2R      18.48     .182 No_date    2:25   19.47  n/a     .000
00652>                    +     1.0 02:EXT4B          .25     .041 No_date    1:20   28.63  n/a     .000
00653>                  SUM=    1.0 01:SWMPondIn    47.41    2.056 No_date    1:25   19.24  n/a     .000
00654> # SWM Pond (free outlet conditions)
00655> R0002:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00656>     ROUTE RESERVOIR ->   1.0 02:SWMPondIn     47.41    2.056 No_date    1:25   19.24  n/a     .000
00657>                  out <=  1.0 01:SWMPondOut    47.41     .156 No_date    4:13   19.24  n/a     .000
00658>            overflow <=   1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
00659>      {MxStoUsed=.5798E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00660> # SWM Pond (pond control orifices blockage scenario)
00661> R0002:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00662>     ROUTE RESERVOIR ->   1.0 02:SWMPondIn     47.41    2.056 No_date    1:25   19.24  n/a     .000
00663>  *              out <=  1.0 01:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
00664>            overflow <=   1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
00665>      {MxStoUsed=.9124E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00666> R0002:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00667>     ADD HYD              1.0 02:SWMPondOut   47.41     .156 No_date    4:13   19.24  n/a     .000
00668>                    +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
00669>                  SUM=    1.0 01:Node_3pond   47.41     .156 No_date    4:13   19.24  n/a     .000
00670> R0002:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00671>     SAVE HYD             1.0 01:Node_3pond   47.41     .156 No_date    4:13   19.24  n/a     .000
00672>       fname :Node_3pond.0002
00673>       remark:Pond Outflow
00674> R0002:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00675>     ADD HYD              1.0 02:SWMPoutBlk   47.41     .000 No_date    0:00     .00  n/a     .000
00676>                    +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
00677>                  SUM=    1.0 01:Node_3pBlk   47.41     .000 No_date    0:00     .00  n/a     .000
00678> # Park Block Draining Uncontrolled to Node 3
00679> R0002:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00680>     CALIB STANDHYD       1.0 01:2A_Park        .95     .024 No_date    1:21    6.89 .206     .000
00681>       [XIMP=.11:TIMP=.21]
00682>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00683>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00684>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
00685> R0002:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00686>     ADD HYD              1.0 02:Node_3pond   47.41     .156 No_date    4:13   19.24  n/a     .000
00687>                    +     1.0 02:2A_Park        .95     .024 No_date    1:21    6.89  n/a     .000
00688>                  SUM=    1.0 01:Node_3       48.36     .156 No_date    4:12   19.00  n/a     .000
00689> R0002:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00690>     ROUTE CHANNEL   ->   1.0 02:Node_3       48.36     .156 No_date    4:12   19.00  n/a     .000
00691>      [RDT= 1.00] out<-   1.0 01:Node_3R      48.36     .147 No_date    4:59   19.00  n/a     .000
00692>       [L/S/n=  664./ .200/.035]
00693>       {Vmax=  .210:Dmax=  .095}
00694> R0002:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00695>     CALIB NASHYD         1.0 01:A-08          2.07     .007 No_date    2:28    2.82 .084     .000
00696>       [CN= 49.0: N= 3.00: Tp=  .78]
00697> R0002:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00698>     CALIB NASHYD         1.0 01:A-09          6.16     .014 No_date    3:16    2.82 .084     .000
00699>       [CN= 49.0: N= 3.00: Tp= 1.32]
00700> R0002:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00701>     CALIB NASHYD         1.0 01:A-12          7.79     .026 No_date    2:57    3.62 .108     .000
00702>       [CN= 56.0: N= 3.00: Tp= 1.11]
00703> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
00704> R0002:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00705>     CALIB STANDHYD       1.0 01:Unc_8A         .25     .014 No_date    1:20   11.28 .338     .000
00706>       [XIMP=.26:TIMP=.36]
00707>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00708>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00709>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
00710> R0002:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00711>     CALIB STANDHYD       1.0 01:Unc_8B         .14     .008 No_date    1:20   11.28 .338     .000
00712>       [XIMP=.26:TIMP=.36]
00713>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00714>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00715>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
00716> R0002:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00717>     CALIB STANDHYD       1.0 01:Unc_6          .17     .009 No_date    1:20   11.28 .338     .000
00718>       [XIMP=.26:TIMP=.36]
00719>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00720>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00721>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
00722> # West Branch
00723> R0002:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00724>     CALIB NASHYD         1.0 01:A-04         18.63     .084 No_date    3:27    5.79 .173     .000
00725>       [CN= 69.0: N= 3.00: Tp= 1.47]
00726> R0002:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00727>     CALIB NASHYD         1.0 01:A-10          7.42     .021 No_date    3:33    3.75 .112     .000
00728>       [CN= 57.0: N= 3.00: Tp= 1.51]
00729> R0002:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00730>     ADD HYD              1.0 02:A-04         18.63     .084 No_date    3:27    5.79  n/a     .000
00731>                    +     1.0 02:A-10          7.42     .021 No_date    3:33    3.75  n/a     .000
00732>                  SUM=    1.0 01:Node_4       26.05     .105 No_date    3:28    5.21  n/a     .000
00733> R0002:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00734>     ROUTE CHANNEL   ->   1.0 02:Node_4       26.05     .105 No_date    3:28    5.21  n/a     .000
00735>      [RDT= 1.00] out<-   1.0 01:Node_4R      26.05     .104 No_date    3:39    5.21  n/a     .000
00736>       [L/S/n=  473./ .660/.035]
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00737>       {Vmax=  .832:Dmax=  .102}
00738> R0002:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00739>     CALIB NASHYD          1.0 01:A-11           7.93     .037 No_date    2:46    4.65 .139     .000
00740>       [CN= 63.0: N= 3.00: Tp=  .99]
00741> R0002:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00742>     ADD HYD               1.0 02:Node_3R       48.36     .147 No_date    4:59   19.00  n/a     .000
00743>                     +     1.0 02:A-08           2.07     .007 No_date    2:28    2.82  n/a     .000
00744>                     +     1.0 02:A-09           6.16     .014 No_date    3:16    2.82  n/a     .000
00745>                     +     1.0 02:A-11           7.93     .037 No_date    2:46    4.65  n/a     .000
00746>                     +     1.0 02:A-12           7.79     .026 No_date    2:57    3.62  n/a     .000
00747>                     +     1.0 02:Unc_8A          .25     .014 No_date    1:20   11.28  n/a     .000
00748>                     +     1.0 02:Unc_8B          .14     .008 No_date    1:20   11.28  n/a     .000
00749>                     +     1.0 02:Unc_6           .17     .009 No_date    1:20   11.28  n/a     .000
00750>                     +     1.0 02:Node_4R       26.05     .104 No_date    3:39    5.21  n/a     .000
00751>                   SUM=    1.0 01:Outlet        98.92     .301 No_date    3:59   11.62  n/a     .000
00752> R0002:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00753>     SAVE HYD              1.0 01:Outlet        98.92     .301 No_date    3:59   11.62  n/a     .000
00754>       fname :Outlet.0002
00755>       remark:Total Outflows to Sandy Hook Road
00756>   ** END OF RUN :    4
00757>
00758> ************************************************************************************************
00759>
00760>
00761>
00762>
00763>
00764>  RUN#:COMMAND#
00765> R0005:C00001------------------------------------------------------------------------------------------
00766>      START
00767>       [TZERO =    .00 hrs on        0]
00768>       [METOUT=   2    (1=imperial, 2=metric output)]
00769>       [NSTORM=   1 ]
00770>       [NRUN  = 0005 ]
00771> #*************************************************************************
00772> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
00773> #*************************************************************************
00774> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
00775> #  Date        : 2023-10
00776> #  Modeller    : [JB]
00777> #  Updated             : 2025-05 [PP]
00778> #  Company     : JFSA Ottawa
00779> #  License #   : 2549237
00780> #*************************************************************************
00781> # Post Development Scenario B - Upstream flows diverted through subdivision
00782> #*************************************************************************
00783> R0005:C00002------------------------------------------------------------------------------------------
00784>      READ STORM
00785>       Filename = STORM.001
00786>       Comment  = Belleville: 5-Year, 4-Hour Chicago
00787>       [SDT=10.00:SDUR=   4.00:PTOT=  43.12]
00788> #*************************************************************************
00789> # POST-DEVELOPMENT CONDITIONS
00790> # Flows from upstream lands routed through subdivision
00791> #*************************************************************************
00792> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
00793> # Improvements and New Urban Retail Development - In SWMHYMO
00794> R0005:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00795>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.444 No_date    1:21   35.26 .818     .000
00796>       [XIMP=.76:TIMP=.86]
00797>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00798>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00799>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
00800> R0005:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00801>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.444 No_date    1:21   35.26  n/a     .000
00802>                  out <=    1.0 01:NodeB          8.39     .148 No_date    2:10   35.26  n/a     .000
00803>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00804>      {MxStoUsed=.2020E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00805> R0005:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00806>     ADD HYD               1.0 02:NodeB          8.39     .148 No_date    2:10   35.26  n/a     .000
00807>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
00808>                   SUM=    1.0 01:Node_1         8.39     .148 No_date    2:10   35.26  n/a     .000
00809> R0005:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00810>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .148 No_date    2:10   35.26  n/a     .000
00811>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .147 No_date    2:18   35.26  n/a     .000
00812>       [L/S/n=  327./ .920/.035]
00813>       {Vmax=  .677:Dmax=  .203}
00814> #*************************************************************************
00815> # Replication of the OTTHYMO model for the Choice Properties REIT
00816> # development as per the November 2023 'Proposed Retails Pads B & C
00817> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
00818> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
00819> # Notes:
00820> # - DT changed from 5 min to 1 min
00821> # - Reservoir Overflows added to the downstream node for all reservoirs
00822> #*************************************************************************
00823> # 0003
00824> #*************************************************************************
00825> R0005:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00826>     CALIB STANDHYD        1.0 01:0003            .24     .053 No_date    1:20   38.57 .895     .000
00827>       [XIMP=.90:TIMP=.90]
00828>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
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00829>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00830>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00831> #*******************************************************************************
00832> # 0002
00833> #*******************************************************************************
00834> R0005:C00008-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00835>     CALIB STANDHYD       1.0 01:0002            .07     .017 No_date    1:20   41.77 .969     .000
00836>       [XIMP=.99:TIMP=.99]
00837>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00838>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00839>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
00840> #*******************************************************************************
00841> # 0001
00842> #*******************************************************************************
00843> R0005:C00009-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00844>     CALIB STANDHYD       1.0 01:0001            .93     .193 No_date    1:20   36.80 .854     .000
00845>       [XIMP=.85:TIMP=.85]
00846>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00847>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00848>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
00849> #*******************************************************************************
00850> # 0006
00851> #*******************************************************************************
00852> R0005:C00010-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00853>     CALIB STANDHYD       1.0 01:0006            .24     .058 No_date    1:20   41.78 .969     .000
00854>       [XIMP=.99:TIMP=.99]
00855>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00856>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00857>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
00858> #*******************************************************************************
00859> # 0007
00860> #*******************************************************************************
00861> R0005:C00011-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00862>     CALIB STANDHYD       1.0 01:0007            .38     .084 No_date    1:20   38.57 .895     .000
00863>       [XIMP=.90:TIMP=.90]
00864>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00865>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00866>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
00867> #*******************************************************************************
00868> # 0044
00869> #*******************************************************************************
00870> R0005:C00012-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00871>     CALIB STANDHYD       1.0 01:0044            .54     .125 No_date    1:20   40.35 .936     .000
00872>       [XIMP=.95:TIMP=.95]
00873>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00874>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00875>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
00876> #*******************************************************************************
00877> # 0005
00878> #*******************************************************************************
00879> R0005:C00013-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00880>     CALIB STANDHYD       1.0 01:0005            .16     .039 No_date    1:20   41.77 .969     .000
00881>       [XIMP=.99:TIMP=.99]
00882>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00883>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00884>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
00885> #*******************************************************************************
00886> R0005:C00014-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00887>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .017 No_date    1:20   41.77  n/a     .000
00888>                  out <=   1.0 01:0111            .07     .002 No_date    1:43   41.77  n/a     .000
00889>              overflow <=  1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
00890>      {MxStoUsed=.1725E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00891> R0005:C00015-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00892>     ADD HYD              1.0 02:0111            .07     .002 No_date    1:43   41.77  n/a     .000
00893>                      +    1.0 02:0001            .93     .193 No_date    1:20   36.80  n/a     .000
00894>                      +    1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
00895>                   SUM=    1.0 01:0101           1.00     .195 No_date    1:20   37.15  n/a     .000
00896> R0005:C00016-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00897>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .058 No_date    1:20   41.78  n/a     .000
00898>                  out <=   1.0 01:0102            .24     .002 No_date    3:02   41.78  n/a     .000
00899>              overflow <=  1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00900>      {MxStoUsed=.7764E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00901> R0005:C00017-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00902>     ADD HYD              1.0 02:0007            .38     .084 No_date    1:20   38.57  n/a     .000
00903>                      +    1.0 02:0044            .54     .125 No_date    1:20   40.35  n/a     .000
00904>                   SUM=    1.0 01:0106            .92     .209 No_date    1:20   39.61  n/a     .000
00905> R0005:C00018-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00906>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .039 No_date    1:20   41.77  n/a     .000
00907>                  out <=   1.0 01:0108            .16     .002 No_date    3:03   41.77  n/a     .000
00908>              overflow <=  1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
00909>      {MxStoUsed=.5197E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00910> R0005:C00019-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00911>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .195 No_date    1:20   37.15  n/a     .000
00912>                  out <=   1.0 01:0100           1.00     .059 No_date    1:32   37.15  n/a     .000
00913>              overflow <=  1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00914>      {MxStoUsed=.9756E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00915> R0005:C00020-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00916>     ADD HYD              1.0 02:0100           1.00     .059 No_date    1:32   37.15  n/a     .000
00917>                      +    1.0 02:0102            .24     .002 No_date    3:02   41.78  n/a     .000
00918>                      +    1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
00919>                      +    1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
00920>                   SUM=    1.0 01:0103           1.24     .061 No_date    1:36   38.05  n/a     .000
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00921> R0005:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00922>     ADD HYD               1.0 02:0106           .92     .209 No_date    1:20   39.61  n/a     .000
00923>                     +     1.0 02:0108           .16     .002 No_date    3:03   41.77  n/a     .000
00924>                     +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
00925>                   SUM=    1.0 01:0107          1.08     .210 No_date    1:20   39.93  n/a     .000
00926> R0005:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00927>     ADD HYD               1.0 02:0003           .24     .053 No_date    1:20   38.57  n/a     .000
00928>                     +     1.0 02:0103          1.24     .061 No_date    1:36   38.05  n/a     .000
00929>                   SUM=    1.0 01:0104          1.48     .113 No_date    1:20   38.13  n/a     .000
00930> R0005:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00931>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .210 No_date    1:20   39.93  n/a     .000
00932>                   out <=  1.0 01:0109          1.08     .009 No_date    3:40   39.87  n/a     .000
00933>              overflow <=  1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00934>      {MxStoUsed=.3541E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00935> R0005:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00936>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .113 No_date    1:20   38.13  n/a     .000
00937>                   out <=  1.0 01:0105          1.48     .027 No_date    2:25   38.07  n/a     .000
00938>              overflow <=  1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00939>      {MxStoUsed=.3818E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
00940> R0005:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00941>     ADD HYD               1.0 02:0105          1.48     .027 No_date    2:25   38.07  n/a     .000
00942>                     +     1.0 02:0109          1.08     .009 No_date    3:40   39.87  n/a     .000
00943>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
00944>                     +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
00945>                   SUM=    1.0 01:0110          2.56     .028 No_date    2:25   38.83  n/a     .000
00946> # End of the replicated OTTHYMO model
00947> #*************************************************************************
00948> R0005:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00949>     CALIB NASHYD          1.0 01:A-03E          5.05     .100 No_date    2:11   14.50 .336     .000
00950>       [CN= 80.0: N= 3.00: Tp=  .65]
00951> R0005:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00952>     CALIB NASHYD          1.0 01:A-03W          1.18     .024 No_date    2:07   13.95 .324     .000
00953>       [CN= 79.0: N= 3.00: Tp=  .60]
00954> R0005:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00955>     CALIB NASHYD          1.0 01:A-05E          1.07     .009 No_date    3:15   10.77 .250     .000
00956>       [CN= 72.0: N= 3.00: Tp= 1.38]
00957> R0005:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00958>     CALIB NASHYD          1.0 01:A-05W           .23     .002 No_date    2:47   10.39 .241     .000
00959>       [CN= 71.0: N= 3.00: Tp= 1.05]
00960> R0005:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00961>     ADD HYD               1.0 02:A-03E          5.05     .100 No_date    2:11   14.50  n/a     .000
00962>                     +     1.0 02:A-03W          1.18     .024 No_date    2:07   13.95  n/a     .000
00963>                     +     1.0 02:A-05W           .23     .002 No_date    2:47   10.39  n/a     .000
00964>                     +     1.0 02:A-05E          1.07     .009 No_date    3:15   10.77  n/a     .000
00965>                     +     1.0 02:Node_1R        8.39     .147 No_date    2:18   35.26  n/a     .000
00966>                     +     1.0 02:0110           2.56     .028 No_date    2:25   38.83  n/a     .000
00967>                   SUM=    1.0 01:Node_2        18.48     .302 No_date    2:24   26.99  n/a     .000
00968> # Into SWM Pond via pipe
00969> R0005:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00970>     ROUTE PIPE      ->    1.0 02:Node_2        18.48     .302 No_date    2:24   26.99  n/a     .000
00971>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .294 No_date    2:29   26.99  n/a     .000
00972>       [L/S/n=  593./ .500/.013]
00973>       {Vmax= 1.599:Dmax=  .430}
00974>       [Din=  .00:Dused=  .52}
00975> # Cold Creek Subdivision
00976> R0005:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00977>     CALIB STANDHYD        1.0 01:Dev           26.81    2.822 No_date    1:25   26.90 .624     .000
00978>       [XIMP=.53:TIMP=.63]
00979>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00980>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00981>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
00982> R0005:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00983>     CALIB STANDHYD        1.0 01:Pond          1.87     .215 No_date    1:21   22.36 .519     .000
00984>       [XIMP=.40:TIMP=.50]
00985>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00986>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00987>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
00988> R0005:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00989>     ADD HYD               1.0 02:Dev           26.81    2.822 No_date    1:25   26.90  n/a     .000
00990>                     +     1.0 02:Pond           1.87     .215 No_date    1:21   22.36  n/a     .000
00991>                   SUM=    1.0 01:Dev&Pond      28.68    2.984 No_date    1:25   26.61  n/a     .000
00992> #*************************************************************************
00993> # Existing Gas Station Pad (to proposed SWM Pond)
00994> R0005:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00995>     CALIB STANDHYD        1.0 01:EXT4B          .25     .055 No_date    1:20   38.00 .881     .000
00996>       [XIMP=.83:TIMP=.93]
00997>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
00998>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00999>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
01000> #*************************************************************************
01001> R0005:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01002>     ADD HYD               1.0 02:Dev           26.81    2.822 No_date    1:25   26.90  n/a     .000
01003>                     +     1.0 02:Pond           1.87     .215 No_date    1:21   22.36  n/a     .000
01004>                     +     1.0 02:EXT4B           .25     .055 No_date    1:20   38.00  n/a     .000
01005>                   SUM=    1.0 01:DevPondGas    28.93    3.010 No_date    1:25   26.70  n/a     .000
01006> R0005:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01007>     ADD HYD               1.0 02:Dev&Pond      28.68    2.984 No_date    1:25   26.61  n/a     .000
01008>                     +     1.0 02:Node_2R       18.48     .294 No_date    2:29   26.99  n/a     .000
01009>                     +     1.0 02:EXT4B           .25     .055 No_date    1:20   38.00  n/a     .000
01010>                   SUM=    1.0 01:SWMPondIn     47.41    3.045 No_date    1:25   26.81  n/a     .000
01011> # SWM Pond (free outlet conditions)
01012> R0005:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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01013>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    3.045 No_date    1:25   26.81  n/a     .000
01014>                   out <=    1.0 01:SWMPondOut    47.41     .305 No_date    4:02   26.81  n/a     .000
01015>              overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
01016>      {MxStoUsed=.7610E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01017> # SWM Pond (pond control orifices blockage scenario)
01018> R0005:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01019>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    3.045 No_date    1:25   26.81  n/a     .000
01020>  *                out <=    1.0 01:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
01021>              overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
01022>      {MxStoUsed=.1271E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01023> R0005:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01024>     ADD HYD               1.0 02:SWMPondOut    47.41     .305 No_date    4:02   26.81  n/a     .000
01025>                       +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
01026>                   SUM=      1.0 01:Node_3pond    47.41     .305 No_date    4:02   26.81  n/a     .000
01027> R0005:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01028>     SAVE HYD              1.0 01:Node_3pond    47.41     .305 No_date    4:02   26.81  n/a     .000
01029>       fname :Node_3pond.0005
01030>       remark:Pond Outflow
01031> R0005:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01032>     ADD HYD               1.0 02:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
01033>                       +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
01034>                   SUM=      1.0 01:Node_3pBlk    47.41     .000 No_date    0:00     .00  n/a     .000
01035> # Park Block Draining Uncontrolled to Node 3
01036> R0005:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01037>     CALIB STANDHYD        1.0 01:2A_Park         .95     .059 No_date    1:28   12.25 .284     .000
01038>       [XIMP=.11:TIMP=.21]
01039>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01040>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01041>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
01042> R0005:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01043>     ADD HYD               1.0 02:Node_3pond    47.41     .305 No_date    4:02   26.81  n/a     .000
01044>                       +     1.0 02:2A_Park         .95     .059 No_date    1:28   12.25  n/a     .000
01045>                   SUM=      1.0 01:Node_3        48.36     .305 No_date    4:00   26.52  n/a     .000
01046> R0005:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01047>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .305 No_date    4:00   26.52  n/a     .000
01048>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .289 No_date    4:17   26.52  n/a     .000
01049>       [L/S/n=  664./ .200/.035]
01050>       {Vmax=  .257:Dmax=  .133}
01051> R0005:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01052>     CALIB NASHYD          1.0 01:A-08           2.07     .012 No_date    2:26    4.88 .113     .000
01053>       [CN= 49.0: N= 3.00: Tp=  .78]
01054> R0005:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01055>     CALIB NASHYD          1.0 01:A-09           6.16     .025 No_date    3:13    4.88 .113     .000
01056>       [CN= 49.0: N= 3.00: Tp= 1.32]
01057> R0005:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01058>     CALIB NASHYD          1.0 01:A-12           7.79     .045 No_date    2:54    6.21 .144     .000
01059>       [CN= 56.0: N= 3.00: Tp= 1.11]
01060> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
01061> R0005:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01062>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .023 No_date    1:20   17.50 .406     .000
01063>       [XIMP=.26:TIMP=.36]
01064>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01065>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01066>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
01067> R0005:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01068>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .013 No_date    1:20   17.50 .406     .000
01069>       [XIMP=.26:TIMP=.36]
01070>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01071>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01072>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
01073> R0005:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01074>     CALIB STANDHYD        1.0 01:Unc_6           .17     .016 No_date    1:20   17.50 .406     .000
01075>       [XIMP=.26:TIMP=.36]
01076>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01077>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01078>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
01079> # West Branch
01080> R0005:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01081>     CALIB NASHYD          1.0 01:A-04          18.63     .142 No_date    3:23    9.69 .225     .000
01082>       [CN= 69.0: N= 3.00: Tp= 1.47]
01083> R0005:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01084>     CALIB NASHYD          1.0 01:A-10           7.42     .036 No_date    3:29    6.43 .149     .000
01085>       [CN= 57.0: N= 3.00: Tp= 1.51]
01086> R0005:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01087>     ADD HYD               1.0 02:A-04          18.63     .142 No_date    3:23    9.69  n/a     .000
01088>                       +     1.0 02:A-10           7.42     .036 No_date    3:29    6.43  n/a     .000
01089>                   SUM=      1.0 01:Node_4        26.05     .178 No_date    3:24    8.76  n/a     .000
01090> R0005:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01091>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .178 No_date    3:24    8.76  n/a     .000
01092>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .177 No_date    3:35    8.76  n/a     .000
01093>       [L/S/n=  473./ .660/.035]
01094>       {Vmax=  .832:Dmax=  .173}
01095> R0005:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01096>     CALIB NASHYD          1.0 01:A-11           7.93     .063 No_date    2:43    7.88 .183     .000
01097>       [CN= 63.0: N= 3.00: Tp=  .99]
01098> R0005:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01099>     ADD HYD               1.0 02:Node_3R       48.36     .289 No_date    4:17   26.52  n/a     .000
01100>                       +     1.0 02:A-08           2.07     .012 No_date    2:26    4.88  n/a     .000
01101>                       +     1.0 02:A-09           6.16     .025 No_date    3:13    4.88  n/a     .000
01102>                       +     1.0 02:A-11           7.93     .063 No_date    2:43    7.88  n/a     .000
01103>                       +     1.0 02:A-12           7.79     .045 No_date    2:54    6.21  n/a     .000
01104>                       +     1.0 02:Unc_8A          .25     .023 No_date    1:20   17.50  n/a     .000
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01105>                    +     1.0 02:Unc_8B          .14     .013 No_date    1:20   17.50  n/a     .000
01106>                    +     1.0 02:Unc_6           .17     .016 No_date    1:20   17.50  n/a     .000
01107>                    +     1.0 02:Node_4R       26.05     .177 No_date    3:35    8.76  n/a     .000
01108>                  SUM=    1.0 01:Outlet        98.92     .565 No_date    3:46   16.89  n/a     .000
01109> R0005:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01110>     SAVE HYD             1.0 01:Outlet        98.92     .565 No_date    3:46   16.89  n/a     .000
01111>       fname :Outlet.0005
01112>       remark:Total Outflows to Sandy Hook Road
01113>   ** END OF RUN :    9
01114>
01115> ************************************************************************************************
01116>
01117>
01118>
01119>
01120>
01121>  RUN#:COMMAND#
01122> R0010:C00001------------------------------------------------------------------------------------
01123>      START
01124>       [TZERO =    .00 hrs on        0]
01125>       [METOUT=   2    (1=imperial, 2=metric output)]
01126>       [NSTORM=   1 ]
01127>       [NRUN  = 0010 ]
01128> #*************************************************************************
01129> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01130> #*************************************************************************
01131> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01132> #  Date        : 2023-10
01133> #  Modeller    : [JB]
01134> #  Updated             : 2025-05 [PP]
01135> #  Company     : JFSA Ottawa
01136> #  License #   : 2549237
01137> #*************************************************************************
01138> # Post Development Scenario B - Upstream flows diverted through subdivision
01139> #*************************************************************************
01140> R0010:C00002------------------------------------------------------------------------------------
01141>      READ STORM
01142>       Filename = STORM.001
01143>       Comment  = Belleville: 10-Year, 4-Hour Chicago
01144>       [SDT=10.00:SDUR=   4.00:PTOT=  49.61]
01145> #*************************************************************************
01146> # POST-DEVELOPMENT CONDITIONS
01147> # Flows from upstream lands routed through subdivision
01148> #*************************************************************************
01149> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
01150> # Improvements and New Urban Retail Development - In SWMHYMO
01151> R0010:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01152>     CALIB STANDHYD       1.0 01:HIGHWAY33      8.39    1.722 No_date    1:21   41.35 .833     .000
01153>       [XIMP=.76:TIMP=.86]
01154>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01155>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01156>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01157> R0010:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01158>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.722 No_date    1:21   41.35  n/a     .000
01159>                  out <=   1.0 01:NodeB          8.39     .185 No_date    2:07   41.35  n/a     .000
01160>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01161>      {MxStoUsed=.2352E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01162> R0010:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01163>     ADD HYD              1.0 02:NodeB          8.39     .185 No_date    2:07   41.35  n/a     .000
01164>                    +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01165>                  SUM=    1.0 01:Node_1         8.39     .185 No_date    2:07   41.35  n/a     .000
01166> R0010:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01167>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .185 No_date    2:07   41.35  n/a     .000
01168>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .184 No_date    2:14   41.35  n/a     .000
01169>       [L/S/n=  327./ .920/.035]
01170>       {Vmax=  .721:Dmax=  .225}
01171> #*************************************************************************
01172> # Replication of the OTTHYMO model for the Choice Properties REIT
01173> # development as per the November 2023 'Proposed Retails Pads B & C
01174> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
01175> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01176> # Notes:
01177> # - DT changed from 5 min to 1 min
01178> # - Reservoir Overflows added to the downstream node for all reservoirs
01179> #*************************************************************************
01180> # 0003
01181> #*************************************************************************
01182> R0010:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01183>     CALIB STANDHYD       1.0 01:0003           .24     .062 No_date    1:20   44.75 .902     .000
01184>       [XIMP=.90:TIMP=.90]
01185>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01186>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01187>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01188> #*************************************************************************
01189> # 0002
01190> #*************************************************************************
01191> R0010:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01192>     CALIB STANDHYD       1.0 01:0002           .07     .020 No_date    1:20   48.24 .972     .000
01193>       [XIMP=.99:TIMP=.99]
01194>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01195>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01196>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
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01197> #*******************************************************************************
01198> # 0001
01199> #*******************************************************************************
01200> R0010:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01201>     CALIB STANDHYD        1.0 01:0001            .93     .225 No_date    1:20   42.83 .863     .000
01202>       [XIMP=.85:TIMP=.85]
01203>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01204>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01205>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01206> #*******************************************************************************
01207> # 0006
01208> #*******************************************************************************
01209> R0010:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01210>     CALIB STANDHYD        1.0 01:0006            .24     .067 No_date    1:20   48.24 .972     .000
01211>       [XIMP=.99:TIMP=.99]
01212>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01213>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01214>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01215> #*******************************************************************************
01216> # 0007
01217> #*******************************************************************************
01218> R0010:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01219>     CALIB STANDHYD        1.0 01:0007            .38     .098 No_date    1:20   44.76 .902     .000
01220>       [XIMP=.90:TIMP=.90]
01221>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01222>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01223>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01224> #*******************************************************************************
01225> # 0044
01226> #*******************************************************************************
01227> R0010:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01228>     CALIB STANDHYD        1.0 01:0044            .54     .145 No_date    1:20   46.69 .941     .000
01229>       [XIMP=.95:TIMP=.95]
01230>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01231>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01232>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01233> #*******************************************************************************
01234> # 0005
01235> #*******************************************************************************
01236> R0010:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01237>     CALIB STANDHYD        1.0 01:0005            .16     .045 No_date    1:20   48.25 .972     .000
01238>       [XIMP=.99:TIMP=.99]
01239>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01240>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01241>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01242> #*******************************************************************************
01243> R0010:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01244>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .020 No_date    1:20   48.24  n/a     .000
01245>                   out <=    1.0 01:0111            .07     .003 No_date    1:42   48.24  n/a     .000
01246>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01247>       {MxStoUsed=.1990E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01248> R0010:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01249>     ADD HYD               1.0 02:0111            .07     .003 No_date    1:42   48.24  n/a     .000
01250>                       +     1.0 02:0001            .93     .225 No_date    1:20   42.83  n/a     .000
01251>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01252>                     SUM=    1.0 01:0101           1.00     .227 No_date    1:20   43.21  n/a     .000
01253> R0010:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01254>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .067 No_date    1:20   48.24  n/a     .000
01255>                   out <=    1.0 01:0102            .24     .003 No_date    3:01   48.24  n/a     .000
01256>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01257>       {MxStoUsed=.8939E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01258> R0010:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01259>     ADD HYD               1.0 02:0007            .38     .098 No_date    1:20   44.76  n/a     .000
01260>                       +     1.0 02:0044            .54     .145 No_date    1:20   46.69  n/a     .000
01261>                     SUM=    1.0 01:0106            .92     .242 No_date    1:20   45.89  n/a     .000
01262> R0010:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01263>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .045 No_date    1:20   48.25  n/a     .000
01264>                   out <=    1.0 01:0108            .16     .002 No_date    3:03   48.24  n/a     .000
01265>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01266>       {MxStoUsed=.6001E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01267> R0010:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01268>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .227 No_date    1:20   43.21  n/a     .000
01269>                   out <=    1.0 01:0100           1.00     .059 No_date    1:34   43.21  n/a     .000
01270>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01271>       {MxStoUsed=.1261E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01272> R0010:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01273>     ADD HYD               1.0 02:0100           1.00     .059 No_date    1:34   43.21  n/a     .000
01274>                       +     1.0 02:0102            .24     .003 No_date    3:01   48.24  n/a     .000
01275>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01276>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01277>                     SUM=    1.0 01:0103           1.24     .062 No_date    1:44   44.18  n/a     .000
01278> R0010:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01279>     ADD HYD               1.0 02:0106            .92     .242 No_date    1:20   45.89  n/a     .000
01280>                       +     1.0 02:0108            .16     .002 No_date    3:03   48.24  n/a     .000
01281>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01282>                     SUM=    1.0 01:0107           1.08     .243 No_date    1:20   46.24  n/a     .000
01283> R0010:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01284>     ADD HYD               1.0 02:0003            .24     .062 No_date    1:20   44.75  n/a     .000
01285>                       +     1.0 02:0103           1.24     .062 No_date    1:44   44.18  n/a     .000
01286>                     SUM=    1.0 01:0104           1.48     .122 No_date    1:20   44.27  n/a     .000
01287> R0010:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01288>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .243 No_date    1:20   46.24  n/a     .000
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01289>               out <=    1.0 01:0109          1.08     .016 No_date    2:31   46.17  n/a     .000
01290>          overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01291>      {MxStoUsed=.3579E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01292> R0010:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01293>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .122 No_date    1:20   44.27  n/a     .000
01294>               out <=    1.0 01:0105          1.48     .063 No_date    2:33   44.21  n/a     .000
01295>          overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01296>      {MxStoUsed=.3908E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01297> R0010:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01298>     ADD HYD               1.0 02:0105          1.48     .063 No_date    2:33   44.21  n/a     .000
01299>                     +     1.0 02:0109          1.08     .016 No_date    2:31   46.17  n/a     .000
01300>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01301>                     +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01302>                   SUM=    1.0 01:0110          2.56     .080 No_date    2:32   45.04  n/a     .000
01303> # End of the replicated OTTHYMO model
01304> #*****************************************************************************
01305> R0010:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01306>     CALIB NASHYD          1.0 01:A-03E         5.05     .131 No_date    2:11   18.63 .375     .000
01307>       [CN= 80.0: N= 3.00: Tp=  .65]
01308> R0010:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01309>     CALIB NASHYD          1.0 01:A-03W         1.18     .031 No_date    2:07   17.96 .362     .000
01310>       [CN= 79.0: N= 3.00: Tp=  .60]
01311> R0010:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01312>     CALIB NASHYD          1.0 01:A-05E         1.07     .012 No_date    3:13   14.05 .283     .000
01313>       [CN= 72.0: N= 3.00: Tp= 1.38]
01314> R0010:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01315>     CALIB NASHYD          1.0 01:A-05W          .23     .003 No_date    2:46   13.58 .274     .000
01316>       [CN= 71.0: N= 3.00: Tp= 1.05]
01317> R0010:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01318>     ADD HYD               1.0 02:A-03E         5.05     .131 No_date    2:11   18.63  n/a     .000
01319>                     +     1.0 02:A-03W         1.18     .031 No_date    2:07   17.96  n/a     .000
01320>                     +     1.0 02:A-05W          .23     .003 No_date    2:46   13.58  n/a     .000
01321>                     +     1.0 02:A-05E         1.07     .012 No_date    3:13   14.05  n/a     .000
01322>                     +     1.0 02:Node_1R       8.39     .184 No_date    2:14   41.35  n/a     .000
01323>                     +     1.0 02:0110          2.56     .080 No_date    2:32   45.04  n/a     .000
01324>                   SUM=    1.0 01:Node_2       18.48     .425 No_date    2:23   32.23  n/a     .000
01325> # Into SWM Pond via pipe
01326> R0010:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01327>     ROUTE PIPE      ->    1.0 02:Node_2       18.48     .425 No_date    2:23   32.23  n/a     .000
01328>  *   [RDT= 1.00] out<-    1.0 01:Node_2R      18.48     .418 No_date    2:31   32.23  n/a     .000
01329>       [L/S/n=  593./ .500/.013]
01330>       {Vmax= 1.740:Dmax=  .488}
01331>       [Din=  .00:Dused=  .60}
01332> # Cold Creek Subdivision
01333> R0010:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01334>     CALIB STANDHYD        1.0 01:Dev          26.81    3.495 No_date    1:24   32.42 .653     .000
01335>       [XIMP=.53:TIMP=.63]
01336>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01337>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01338>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
01339> R0010:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01340>     CALIB STANDHYD        1.0 01:Pond          1.87     .270 No_date    1:21   27.38 .552     .000
01341>       [XIMP=.40:TIMP=.50]
01342>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01343>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01344>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
01345> R0010:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01346>     ADD HYD               1.0 02:Dev          26.81    3.495 No_date    1:24   32.42  n/a     .000
01347>                     +     1.0 02:Pond          1.87     .270 No_date    1:21   27.38  n/a     .000
01348>                   SUM=    1.0 01:Dev&Pond     28.68    3.716 No_date    1:24   32.09  n/a     .000
01349> #*****************************************************************************
01350> # Existing Gas Station Pad (to proposed SWM Pond)
01351> R0010:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01352>     CALIB STANDHYD        1.0 01:EXT4B         .25     .064 No_date    1:20   44.34 .894     .000
01353>       [XIMP=.83:TIMP=.93]
01354>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01355>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01356>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
01357> #*****************************************************************************
01358> R0010:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01359>     ADD HYD               1.0 02:Dev          26.81    3.495 No_date    1:24   32.42  n/a     .000
01360>                     +     1.0 02:Pond          1.87     .270 No_date    1:21   27.38  n/a     .000
01361>                     +     1.0 02:EXT4B          .25     .064 No_date    1:20   44.34  n/a     .000
01362>                   SUM=    1.0 01:DevPondGas   28.93    3.749 No_date    1:24   32.20  n/a     .000
01363> R0010:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01364>     ADD HYD               1.0 02:Dev&Pond     28.68    3.716 No_date    1:24   32.09  n/a     .000
01365>                     +     1.0 02:Node_2R      18.48     .418 No_date    2:31   32.23  n/a     .000
01366>                     +     1.0 02:EXT4B          .25     .064 No_date    1:20   44.34  n/a     .000
01367>                   SUM=    1.0 01:SWMPondIn    47.41    3.790 No_date    1:24   32.19  n/a     .000
01368> # SWM Pond (free outlet conditions)
01369> R0010:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01370>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn    47.41    3.790 No_date    1:24   32.19  n/a     .000
01371>               out <=    1.0 01:SWMPondOut   47.41     .400 No_date    3:43   32.19  n/a     .000
01372>          overflow <=    1.0 03:SWMPondOvf     .00     .000 No_date    0:00     .00  n/a     .000
01373>      {MxStoUsed=.8923E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01374> # SWM Pond (pond control orifices blockage scenario)
01375> R0010:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01376>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn    47.41    3.790 No_date    1:24   32.19  n/a     .000
01377>  *            out <=    1.0 01:SWMPoutBlk   47.41     .000 No_date    0:00     .00  n/a     .000
01378>          overflow <=    1.0 03:SWMPovfBlk     .00     .000 No_date    0:00     .00  n/a     .000
01379>      {MxStoUsed=.1526E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01380> R0010:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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01381>     ADD HYD              1.0 02:SWMPondOut    47.41     .400 No_date    3:43   32.19  n/a     .000
01382>                    +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
01383>                  SUM=    1.0 01:Node_3pond    47.41     .400 No_date    3:43   32.19  n/a     .000
01384> R0010:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01385>     SAVE HYD             1.0 01:Node_3pond    47.41     .400 No_date    3:43   32.19  n/a     .000
01386>       fname :Node_3pond.0010
01387>       remark:Pond Outflow
01388> R0010:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01389>     ADD HYD              1.0 02:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
01390>                    +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
01391>                  SUM=    1.0 01:Node_3pBlk    47.41     .000 No_date    0:00     .00  n/a     .000
01392> # Park Block Draining Uncontrolled to Node 3
01393> R0010:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01394>     CALIB STANDHYD       1.0 01:2A_Park         .95     .087 No_date    1:26   16.24 .327     .000
01395>       [XIMP=.11:TIMP=.21]
01396>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01397>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01398>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
01399> R0010:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01400>     ADD HYD              1.0 02:Node_3pond    47.41     .400 No_date    3:43   32.19  n/a     .000
01401>                    +     1.0 02:2A_Park         .95     .087 No_date    1:26   16.24  n/a     .000
01402>                  SUM=    1.0 01:Node_3        48.36     .401 No_date    3:42   31.88  n/a     .000
01403> R0010:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01404>     ROUTE CHANNEL   ->   1.0 02:Node_3        48.36     .401 No_date    3:42   31.88  n/a     .000
01405>      [RDT= 1.00] out<-   1.0 01:Node_3R       48.36     .388 No_date    4:20   31.88  n/a     .000
01406>       [L/S/n=  664./ .200/.035]
01407>       {Vmax=  .271:Dmax=  .152}
01408> R0010:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01409>     CALIB NASHYD         1.0 01:A-08           2.07     .016 No_date    2:25    6.53 .132     .000
01410>       [CN= 49.0: N= 3.00: Tp=  .78]
01411> R0010:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01412>     CALIB NASHYD         1.0 01:A-09           6.16     .034 No_date    3:12    6.53 .132     .000
01413>       [CN= 49.0: N= 3.00: Tp= 1.32]
01414> R0010:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01415>     CALIB NASHYD         1.0 01:A-12           7.79     .060 No_date    2:53    8.26 .167     .000
01416>       [CN= 56.0: N= 3.00: Tp= 1.11]
01417> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
01418> R0010:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01419>     CALIB STANDHYD       1.0 01:Unc_8A          .25     .031 No_date    1:20   21.97 .443     .000
01420>       [XIMP=.26:TIMP=.36]
01421>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01422>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01423>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
01424> R0010:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01425>     CALIB STANDHYD       1.0 01:Unc_8B          .14     .018 No_date    1:20   21.97 .443     .000
01426>       [XIMP=.26:TIMP=.36]
01427>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01428>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01429>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
01430> R0010:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01431>     CALIB STANDHYD       1.0 01:Unc_6           .17     .021 No_date    1:20   21.97 .443     .000
01432>       [XIMP=.26:TIMP=.36]
01433>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01434>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01435>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
01436> # West Branch
01437> R0010:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01438>     CALIB NASHYD         1.0 01:A-04          18.63     .186 No_date    3:22   12.70 .256     .000
01439>       [CN= 69.0: N= 3.00: Tp= 1.47]
01440> R0010:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01441>     CALIB NASHYD         1.0 01:A-10           7.42     .049 No_date    3:27    8.54 .172     .000
01442>       [CN= 57.0: N= 3.00: Tp= 1.51]
01443> R0010:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01444>     ADD HYD              1.0 02:A-04          18.63     .186 No_date    3:22   12.70  n/a     .000
01445>                    +     1.0 02:A-10           7.42     .049 No_date    3:27    8.54  n/a     .000
01446>                  SUM=    1.0 01:Node_4        26.05     .235 No_date    3:23   11.51  n/a     .000
01447> R0010:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01448>     ROUTE CHANNEL   ->   1.0 02:Node_4        26.05     .235 No_date    3:23   11.51  n/a     .000
01449>      [RDT= 1.00] out<-   1.0 01:Node_4R       26.05     .233 No_date    3:33   11.51  n/a     .000
01450>       [L/S/n=  473./ .660/.035]
01451>       {Vmax=  .832:Dmax=  .228}
01452> R0010:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01453>     CALIB NASHYD         1.0 01:A-11           7.93     .084 No_date    2:42   10.41 .210     .000
01454>       [CN= 63.0: N= 3.00: Tp=  .99]
01455> R0010:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01456>     ADD HYD              1.0 02:Node_3R       48.36     .388 No_date    4:20   31.88  n/a     .000
01457>                    +     1.0 02:A-08           2.07     .016 No_date    2:25    6.53  n/a     .000
01458>                    +     1.0 02:A-09           6.16     .034 No_date    3:12    6.53  n/a     .000
01459>                    +     1.0 02:A-11           7.93     .084 No_date    2:42   10.41  n/a     .000
01460>                    +     1.0 02:A-12           7.79     .060 No_date    2:53    8.26  n/a     .000
01461>                    +     1.0 02:Unc_8A          .25     .031 No_date    1:20   21.97  n/a     .000
01462>                    +     1.0 02:Unc_8B          .14     .018 No_date    1:20   21.97  n/a     .000
01463>                    +     1.0 02:Unc_6           .17     .021 No_date    1:20   21.97  n/a     .000
01464>                    +     1.0 02:Node_4R       26.05     .233 No_date    3:33   11.51  n/a     .000
01465>                  SUM=    1.0 01:Outlet        98.92     .767 No_date    3:31   20.77  n/a     .000
01466> R0010:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01467>     SAVE HYD             1.0 01:Outlet        98.92     .767 No_date    3:31   20.77  n/a     .000
01468>       fname :Outlet.0010
01469>       remark:Total Outflows to Sandy Hook Road
01470>   ** END OF RUN :   24
01471>
01472> ************************************************************************************************
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01473>
01474>
01475>
01476>
01477>
01478>  RUN#:COMMAND#
01479> R0025:C00001-------------------------------------------------------------------------------------------
01480>      START
01481>       [TZERO =    .00 hrs on        0]
01482>       [METOUT=   2    (1=imperial, 2=metric output)]
01483>       [NSTORM=   1 ]
01484>       [NRUN  = 0025 ]
01485> #*****************************************************************************
01486> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01487> #*****************************************************************************
01488> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01489> #  Date        : 2023-10
01490> #  Modeller    : [JB]
01491> #  Updated             : 2025-05 [PP]
01492> #  Company     : JFSA Ottawa
01493> #  License #   : 2549237
01494> #*****************************************************************************
01495> # Post Development Scenario B - Upstream flows diverted through subdivision
01496> #*****************************************************************************
01497> R0025:C00002-------------------------------------------------------------------------------------------
01498>      READ STORM
01499>       Filename = STORM.001
01500>       Comment  = Belleville: 25-Year, 4-Hour Chicago
01501>       [SDT=10.00:SDUR=   4.00:PTOT=  57.37]
01502> #*****************************************************************************
01503> # POST-DEVELOPMENT CONDITIONS
01504> # Flows from upstream lands routed through subdivision
01505> #*****************************************************************************
01506> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
01507> # Improvements and New Urban Retail Development - In SWMHYMO
01508> R0025:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01509>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.106 No_date    1:21   48.69 .849     .000
01510>       [XIMP=.76:TIMP=.86]
01511>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01512>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01513>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01514> R0025:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01515>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.106 No_date    1:21   48.69  n/a     .000
01516>                 out <=    1.0 01:NodeB          8.39     .260 No_date    2:00   48.69  n/a     .000
01517>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01518>      {MxStoUsed=.2699E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01519> R0025:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01520>     ADD HYD               1.0 02:NodeB          8.39     .260 No_date    2:00   48.69  n/a     .000
01521>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01522>                     SUM=    1.0 01:Node_1         8.39     .260 No_date    2:00   48.69  n/a     .000
01523> R0025:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01524>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .260 No_date    2:00   48.69  n/a     .000
01525>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .257 No_date    2:07   48.69  n/a     .000
01526>       [L/S/n=  327./ .920/.035]
01527>       {Vmax=  .793:Dmax=  .262}
01528> #*****************************************************************************
01529> # Replication of the OTTHYMO model for the Choice Properties REIT
01530> # development as per the November 2023 'Proposed Retails Pads B & C
01531> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
01532> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01533> # Notes:
01534> # - DT changed from 5 min to 1 min
01535> # - Reservoir Overflows added to the downstream node for all reservoirs
01536> #*****************************************************************************
01537> # 0003
01538> #*****************************************************************************
01539> R0025:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01540>     CALIB STANDHYD        1.0 01:0003           .24     .073 No_date    1:20   52.18 .910     .000
01541>       [XIMP=.90:TIMP=.90]
01542>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01543>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01544>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01545> #*****************************************************************************
01546> # 0002
01547> #*****************************************************************************
01548> R0025:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01549>     CALIB STANDHYD        1.0 01:0002           .07     .023 No_date    1:20   55.97 .976     .000
01550>       [XIMP=.99:TIMP=.99]
01551>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01552>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01553>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
01554> #*****************************************************************************
01555> # 0001
01556> #*****************************************************************************
01557> R0025:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01558>     CALIB STANDHYD        1.0 01:0001           .93     .268 No_date    1:20   50.10 .873     .000
01559>       [XIMP=.85:TIMP=.85]
01560>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01561>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01562>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01563> #*****************************************************************************
01564> # 0006
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01565> #*******************************************************************************
01566> R0025:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01567>     CALIB STANDHYD        1.0 01:0006           .24     .078 No_date    1:20   55.98 .976     .000
01568>       [XIMP=.99:TIMP=.99]
01569>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01570>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01571>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01572> #*******************************************************************************
01573> # 0007
01574> #*******************************************************************************
01575> R0025:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01576>     CALIB STANDHYD        1.0 01:0007           .38     .115 No_date    1:20   52.19 .910     .000
01577>       [XIMP=.90:TIMP=.90]
01578>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01579>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01580>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01581> #*******************************************************************************
01582> # 0044
01583> #*******************************************************************************
01584> R0025:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01585>     CALIB STANDHYD        1.0 01:0044           .54     .170 No_date    1:20   54.28 .946     .000
01586>       [XIMP=.95:TIMP=.95]
01587>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01588>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01589>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01590> #*******************************************************************************
01591> # 0005
01592> #*******************************************************************************
01593> R0025:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01594>     CALIB STANDHYD        1.0 01:0005           .16     .052 No_date    1:20   55.98 .976     .000
01595>       [XIMP=.99:TIMP=.99]
01596>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01597>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01598>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01599> #*******************************************************************************
01600> R0025:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01601>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .023 No_date    1:20   55.97  n/a     .000
01602>                   out <=    1.0 01:0111           .07     .003 No_date    1:42   55.97  n/a     .000
01603>              overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
01604>       {MxStoUsed=.2298E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01605> R0025:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01606>     ADD HYD               1.0 02:0111           .07     .003 No_date    1:42   55.97  n/a     .000
01607>                       +     1.0 02:0001           .93     .268 No_date    1:20   50.10  n/a     .000
01608>                       +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
01609>                     SUM=    1.0 01:0101          1.00     .270 No_date    1:20   50.51  n/a     .000
01610> R0025:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01611>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .078 No_date    1:20   55.98  n/a     .000
01612>                   out <=    1.0 01:0102           .24     .003 No_date    3:01   55.98  n/a     .000
01613>              overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
01614>       {MxStoUsed=.1033E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01615> R0025:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01616>     ADD HYD               1.0 02:0007           .38     .115 No_date    1:20   52.19  n/a     .000
01617>                       +     1.0 02:0044           .54     .170 No_date    1:20   54.28  n/a     .000
01618>                     SUM=    1.0 01:0106           .92     .285 No_date    1:20   53.42  n/a     .000
01619> R0025:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01620>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .052 No_date    1:20   55.98  n/a     .000
01621>                   out <=    1.0 01:0108           .16     .002 No_date    3:02   55.97  n/a     .000
01622>              overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
01623>       {MxStoUsed=.6938E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01624> R0025:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01625>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .270 No_date    1:20   50.51  n/a     .000
01626>                   out <=    1.0 01:0100          1.00     .060 No_date    1:37   50.51  n/a     .000
01627>              overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
01628>       {MxStoUsed=.1632E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01629> R0025:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01630>     ADD HYD               1.0 02:0100          1.00     .060 No_date    1:37   50.51  n/a     .000
01631>                       +     1.0 02:0102           .24     .003 No_date    3:01   55.98  n/a     .000
01632>                       +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
01633>                       +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
01634>                     SUM=    1.0 01:0103          1.24     .063 No_date    1:50   51.57  n/a     .000
01635> R0025:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01636>     ADD HYD               1.0 02:0106           .92     .285 No_date    1:20   53.42  n/a     .000
01637>                       +     1.0 02:0108           .16     .002 No_date    3:02   55.97  n/a     .000
01638>                       +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
01639>                     SUM=    1.0 01:0107          1.08     .287 No_date    1:20   53.79  n/a     .000
01640> R0025:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01641>     ADD HYD               1.0 02:0003           .24     .073 No_date    1:20   52.18  n/a     .000
01642>                       +     1.0 02:0103          1.24     .063 No_date    1:50   51.57  n/a     .000
01643>                     SUM=    1.0 01:0104          1.48     .134 No_date    1:20   51.67  n/a     .000
01644> R0025:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01645>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .287 No_date    1:20   53.79  n/a     .000
01646>                   out <=    1.0 01:0109          1.08     .031 No_date    1:54   53.73  n/a     .000
01647>              overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
01648>       {MxStoUsed=.3654E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01649> R0025:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01650>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .134 No_date    1:20   51.67  n/a     .000
01651>                   out <=    1.0 01:0105          1.48     .066 No_date    2:27   51.61  n/a     .000
01652>              overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
01653>       {MxStoUsed=.3915E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01654> R0025:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01655>     ADD HYD               1.0 02:0105          1.48     .066 No_date    2:27   51.61  n/a     .000
01656>                       +     1.0 02:0109          1.08     .031 No_date    1:54   53.73  n/a     .000
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01657>                     +     1.0 02:0105ovf         .00      .000 No_date    0:00     .00  n/a     .000
01658>                     +     1.0 02:0109ovf         .00      .000 No_date    0:00     .00  n/a     .000
01659>                   SUM=    1.0 01:0110           2.56      .089 No_date    2:21   52.50  n/a     .000
01660> # End of the replicated OTTHYMO model
01661> #*****************************************************************************
01662> R0025:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01663>     CALIB NASHYD          1.0 01:A-03E          5.05      .169 No_date    2:10   23.90 .417     .000
01664>       [CN= 80.0: N= 3.00: Tp=  .65]
01665> R0025:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01666>     CALIB NASHYD          1.0 01:A-03W          1.18      .040 No_date    2:06   23.10 .403     .000
01667>       [CN= 79.0: N= 3.00: Tp=  .60]
01668> R0025:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01669>     CALIB NASHYD          1.0 01:A-05E          1.07      .016 No_date    3:12   18.34 .320     .000
01670>       [CN= 72.0: N= 3.00: Tp= 1.38]
01671> R0025:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01672>     CALIB NASHYD          1.0 01:A-05W           .23      .004 No_date    2:45   17.75 .309     .000
01673>       [CN= 71.0: N= 3.00: Tp= 1.05]
01674> R0025:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01675>     ADD HYD               1.0 02:A-03E          5.05      .169 No_date    2:10   23.90  n/a     .000
01676>                     +     1.0 02:A-03W          1.18      .040 No_date    2:06   23.10  n/a     .000
01677>                     +     1.0 02:A-05W           .23      .004 No_date    2:45   17.75  n/a     .000
01678>                     +     1.0 02:A-05E          1.07      .016 No_date    3:12   18.34  n/a     .000
01679>                     +     1.0 02:Node_1R        8.39      .257 No_date    2:07   48.69  n/a     .000
01680>                     +     1.0 02:0110           2.56      .089 No_date    2:21   52.50  n/a     .000
01681>                   SUM=    1.0 01:Node_2        18.48      .561 No_date    2:15   38.65  n/a     .000
01682> # Into SWM Pond via pipe
01683> R0025:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01684>     ROUTE PIPE      ->    1.0 02:Node_2        18.48      .561 No_date    2:15   38.65  n/a     .000
01685>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48      .553 No_date    2:21   38.65  n/a     .000
01686>       [L/S/n=  593./ .500/.013]
01687>       {Vmax= 1.866:Dmax=  .542}
01688>       [Din=  .00:Dused=  .66}
01689> # Cold Creek Subdivision
01690> R0025:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01691>     CALIB STANDHYD        1.0 01:Dev           26.81    4.434 No_date    1:24   39.01 .680     .000
01692>       [XIMP=.53:TIMP=.63]
01693>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01694>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01695>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
01696> R0025:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01697>     CALIB STANDHYD        1.0 01:Pond           1.87      .357 No_date    1:21   33.60 .586     .000
01698>       [XIMP=.40:TIMP=.50]
01699>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01700>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01701>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
01702> R0025:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01703>     ADD HYD               1.0 02:Dev           26.81    4.434 No_date    1:24   39.01  n/a     .000
01704>                     +     1.0 02:Pond           1.87      .357 No_date    1:21   33.60  n/a     .000
01705>                   SUM=    1.0 01:Dev&Pond      28.68    4.723 No_date    1:24   38.66  n/a     .000
01706> #*****************************************************************************
01707> # Existing Gas Station Pad (to proposed SWM Pond)
01708> R0025:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01709>     CALIB STANDHYD        1.0 01:EXT4B           .25      .076 No_date    1:20   51.88 .904     .000
01710>       [XIMP=.83:TIMP=.93]
01711>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01712>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01713>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
01714> #*****************************************************************************
01715> R0025:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01716>     ADD HYD               1.0 02:Dev           26.81    4.434 No_date    1:24   39.01  n/a     .000
01717>                     +     1.0 02:Pond           1.87      .357 No_date    1:21   33.60  n/a     .000
01718>                     +     1.0 02:EXT4B           .25      .076 No_date    1:20   51.88  n/a     .000
01719>                   SUM=    1.0 01:DevPondGas    28.93    4.761 No_date    1:24   38.77  n/a     .000
01720> R0025:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01721>     ADD HYD               1.0 02:Dev&Pond      28.68    4.723 No_date    1:24   38.66  n/a     .000
01722>                     +     1.0 02:Node_2R       18.48      .553 No_date    2:21   38.65  n/a     .000
01723>                     +     1.0 02:EXT4B           .25      .076 No_date    1:20   51.88  n/a     .000
01724>                   SUM=    1.0 01:SWMPondIn     47.41    4.820 No_date    1:24   38.71  n/a     .000
01725> # SWM Pond (free outlet conditions)
01726> R0025:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01727>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    4.820 No_date    1:24   38.71  n/a     .000
01728>                  out <=   1.0 01:SWMPondOut    47.41      .534 No_date    3:24   38.71  n/a     .000
01729>            overflow <=    1.0 03:SWMPondOvf      .00      .000 No_date    0:00     .00  n/a     .000
01730>      {MxStoUsed=.1070E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01731> # SWM Pond (pond control orifices blockage scenario)
01732> R0025:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01733>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    4.820 No_date    1:24   38.71  n/a     .000
01734>  *                  out <=   1.0 01:SWMPoutBlk    47.41      .000 No_date    0:00     .00  n/a     .000
01735>            overflow <=    1.0 03:SWMPovfBlk      .00      .000 No_date    0:00     .00  n/a     .000
01736>      {MxStoUsed=.1835E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01737> R0025:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01738>     ADD HYD               1.0 02:SWMPondOut    47.41      .534 No_date    3:24   38.71  n/a     .000
01739>                     +     1.0 02:SWMPondOvf      .00      .000 No_date    0:00     .00  n/a     .000
01740>                   SUM=    1.0 01:Node_3pond    47.41      .534 No_date    3:24   38.71  n/a     .000
01741> R0025:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01742>     SAVE HYD              1.0 01:Node_3pond    47.41      .534 No_date    3:24   38.71  n/a     .000
01743>       fname :Node_3pond.0025
01744>       remark:Pond Outflow
01745> R0025:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01746>     ADD HYD               1.0 02:SWMPoutBlk    47.41      .000 No_date    0:00     .00  n/a     .000
01747>                     +     1.0 02:SWMPovfBlk      .00      .000 No_date    0:00     .00  n/a     .000
01748>                   SUM=    1.0 01:Node_3pBlk    47.41      .000 No_date    0:00     .00  n/a     .000
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01749> # Park Block Draining Uncontrolled to Node 3
01750> R0025:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01751>     CALIB STANDHYD        1.0 01:2A_Park         .95     .124 No_date    1:25   21.72 .379     .000
01752>       [XIMP=.11:TIMP=.21]
01753>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01754>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01755>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
01756> R0025:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01757>     ADD HYD               1.0 02:Node_3pond    47.41     .534 No_date    3:24   38.71  n/a     .000
01758>                     +     1.0 02:2A_Park         .95     .124 No_date    1:25   21.72  n/a     .000
01759>                   SUM=    1.0 01:Node_3        48.36     .535 No_date    3:24   38.38  n/a     .000
01760> R0025:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01761>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .535 No_date    3:24   38.38  n/a     .000
01762>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .514 No_date    4:04   38.38  n/a     .000
01763>       [L/S/n=  664./ .200/.035]
01764>       {Vmax=  .292:Dmax=  .176}
01765> R0025:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01766>     CALIB NASHYD          1.0 01:A-08           2.07     .021 No_date    2:24    8.76 .153     .000
01767>       [CN= 49.0: N= 3.00: Tp=  .78]
01768> R0025:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01769>     CALIB NASHYD          1.0 01:A-09           6.16     .045 No_date    3:11    8.76 .153     .000
01770>       [CN= 49.0: N= 3.00: Tp= 1.32]
01771> R0025:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01772>     CALIB NASHYD          1.0 01:A-12           7.79     .080 No_date    2:52   11.01 .192     .000
01773>       [CN= 56.0: N= 3.00: Tp= 1.11]
01774> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
01775> R0025:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01776>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .041 No_date    1:20   27.86 .486     .000
01777>       [XIMP=.26:TIMP=.36]
01778>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01779>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01780>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
01781> R0025:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01782>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .025 No_date    1:20   27.85 .485     .000
01783>       [XIMP=.26:TIMP=.36]
01784>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01785>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01786>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
01787> R0025:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01788>     CALIB STANDHYD        1.0 01:Unc_6           .17     .028 No_date    1:20   27.86 .486     .000
01789>       [XIMP=.26:TIMP=.36]
01790>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01791>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01792>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
01793> # West Branch
01794> R0025:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01795>     CALIB NASHYD          1.0 01:A-04          18.63     .244 No_date    3:20   16.65 .290     .000
01796>       [CN= 69.0: N= 3.00: Tp= 1.47]
01797> R0025:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01798>     CALIB NASHYD          1.0 01:A-10           7.42     .065 No_date    3:26   11.37 .198     .000
01799>       [CN= 57.0: N= 3.00: Tp= 1.51]
01800> R0025:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01801>     ADD HYD               1.0 02:A-04          18.63     .244 No_date    3:20   16.65  n/a     .000
01802>                     +     1.0 02:A-10           7.42     .065 No_date    3:26   11.37  n/a     .000
01803>                   SUM=    1.0 01:Node_4        26.05     .309 No_date    3:22   15.15  n/a     .000
01804> R0025:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01805>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .309 No_date    3:22   15.15  n/a     .000
01806>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .307 No_date    3:31   15.15  n/a     .000
01807>       [L/S/n=  473./ .660/.035]
01808>       {Vmax=  .847:Dmax=  .278}
01809> R0025:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01810>     CALIB NASHYD          1.0 01:A-11           7.93     .111 No_date    2:41   13.76 .240     .000
01811>       [CN= 63.0: N= 3.00: Tp=  .99]
01812> R0025:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01813>     ADD HYD               1.0 02:Node_3R       48.36     .514 No_date    4:04   38.38  n/a     .000
01814>                     +     1.0 02:A-08           2.07     .021 No_date    2:24    8.76  n/a     .000
01815>                     +     1.0 02:A-09           6.16     .045 No_date    3:11    8.76  n/a     .000
01816>                     +     1.0 02:A-11           7.93     .111 No_date    2:41   13.76  n/a     .000
01817>                     +     1.0 02:A-12           7.79     .080 No_date    2:52   11.01  n/a     .000
01818>                     +     1.0 02:Unc_8A          .25     .041 No_date    1:20   27.86  n/a     .000
01819>                     +     1.0 02:Unc_8B          .14     .025 No_date    1:20   27.85  n/a     .000
01820>                     +     1.0 02:Unc_6           .17     .028 No_date    1:20   27.86  n/a     .000
01821>                     +     1.0 02:Node_4R       26.05     .307 No_date    3:31   15.15  n/a     .000
01822>                   SUM=    1.0 01:Outlet        98.92    1.025 No_date    3:29   25.61  n/a     .000
01823> R0025:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01824>     SAVE HYD              1.0 01:Outlet        98.92    1.025 No_date    3:29   25.61  n/a     .000
01825>       fname :Outlet.0025
01826>       remark:Total Outflows to Sandy Hook Road
01827>   ** END OF RUN :   49
01828>
01829> ****************************************************************************************************
01830>
01831>
01832>
01833>
01834>
01835>  RUN#:COMMAND#
01836> R0050:C00001----------------------------------------------------------------------------------------
01837>      START
01838>       [TZERO =    .00 hrs on        0]
01839>       [METOUT=   2    (1=imperial, 2=metric output)]
01840>       [NSTORM=   1 ]
```

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01841>       [NRUN  = 0050 ]
01842> #******************************************************************************
01843> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
01844> #******************************************************************************
01845> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
01846> #  Date         : 2023-10
01847> #  Modeller     : [JB]
01848> #  Updated              : 2025-05 [PP]
01849> #  Company      : JFSA Ottawa
01850> #  License #    : 2549237
01851> #******************************************************************************
01852> # Post Development Scenario B - Upstream flows diverted through subdivision
01853> #******************************************************************************
01854> R0050:C00002-------------------------------------------------------------------------------------------
01855>      READ STORM
01856>       Filename = STORM.001
01857>       Comment  = Belleville: 50-Year, 4-Hour Chicago
01858>       [SDT=10.00:SDUR=   4.00:PTOT=  63.51]
01859> #******************************************************************************
01860> # POST-DEVELOPMENT CONDITIONS
01861> # Flows from upstream lands routed through subdivision
01862> #******************************************************************************
01863> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
01864> # Improvements and New Urban Retail Development - In SWMHYMO
01865> R0050:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01866>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.395 No_date    1:21   54.56 .859     .000
01867>       [XIMP=.76:TIMP=.86]
01868>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01869>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01870>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
01871> R0050:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01872>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.395 No_date    1:21   54.56  n/a     .000
01873>                  out <=    1.0 01:NodeB          8.39     .308 No_date    1:58   54.56  n/a     .000
01874>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01875>      {MxStoUsed=.2979E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01876> R0050:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01877>     ADD HYD               1.0 02:NodeB          8.39     .308 No_date    1:58   54.56  n/a     .000
01878>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
01879>                   SUM=     1.0 01:Node_1         8.39     .308 No_date    1:58   54.56  n/a     .000
01880> R0050:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01881>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .308 No_date    1:58   54.56  n/a     .000
01882>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .306 No_date    2:04   54.56  n/a     .000
01883>       [L/S/n=  327./ .920/.035]
01884>       {Vmax=  .835:Dmax=  .284}
01885> #******************************************************************************
01886> # Replication of the OTTHYMO model for the Choice Properties REIT
01887> # development as per the November 2023 'Proposed Retails Pads B & C
01888> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
01889> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
01890> # Notes:
01891> # - DT changed from 5 min to 1 min
01892> # - Reservoir Overflows added to the downstream node for all reservoirs
01893> #******************************************************************************
01894> # 0003
01895> #******************************************************************************
01896> R0050:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01897>     CALIB STANDHYD        1.0 01:0003           .24     .081 No_date    1:20   58.14 .915     .000
01898>       [XIMP=.90:TIMP=.90]
01899>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01900>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01901>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01902> #******************************************************************************
01903> # 0002
01904> #******************************************************************************
01905> R0050:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01906>     CALIB STANDHYD        1.0 01:0002           .07     .025 No_date    1:20   62.09 .978     .000
01907>       [XIMP=.99:TIMP=.99]
01908>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01909>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01910>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
01911> #******************************************************************************
01912> # 0001
01913> #******************************************************************************
01914> R0050:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01915>     CALIB STANDHYD        1.0 01:0001           .93     .301 No_date    1:20   55.96 .881     .000
01916>       [XIMP=.85:TIMP=.85]
01917>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01918>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01919>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
01920> #******************************************************************************
01921> # 0006
01922> #******************************************************************************
01923> R0050:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01924>     CALIB STANDHYD        1.0 01:0006           .24     .087 No_date    1:20   62.10 .978     .000
01925>       [XIMP=.99:TIMP=.99]
01926>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01927>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01928>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
01929> #******************************************************************************
01930> # 0007
01931> #******************************************************************************
01932> R0050:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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01933>     CALIB STANDHYD        1.0 01:0007            .38     .129 No_date    1:20   58.15 .915     .000
01934>       [XIMP=.90:TIMP=.90]
01935>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01936>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01937>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
01938> #*******************************************************************************
01939> # 0044
01940> #*******************************************************************************
01941> R0050:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01942>     CALIB STANDHYD        1.0 01:0044            .54     .189 No_date    1:20   60.33 .950     .000
01943>       [XIMP=.95:TIMP=.95]
01944>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01945>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01946>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
01947> #*******************************************************************************
01948> # 0005
01949> #*******************************************************************************
01950> R0050:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01951>     CALIB STANDHYD        1.0 01:0005            .16     .058 No_date    1:20   62.10 .978     .000
01952>       [XIMP=.99:TIMP=.99]
01953>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
01954>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01955>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
01956> #*******************************************************************************
01957> R0050:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01958>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .025 No_date    1:20   62.09  n/a     .000
01959>                 out <=    1.0 01:0111            .07     .004 No_date    1:41   62.09  n/a     .000
01960>            overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01961>      {MxStoUsed=.2530E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01962> R0050:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01963>     ADD HYD               1.0 02:0111            .07     .004 No_date    1:41   62.09  n/a     .000
01964>                     +     1.0 02:0001            .93     .301 No_date    1:20   55.96  n/a     .000
01965>                     +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
01966>                   SUM=    1.0 01:0101           1.00     .303 No_date    1:20   56.39  n/a     .000
01967> R0050:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01968>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .087 No_date    1:20   62.10  n/a     .000
01969>                 out <=    1.0 01:0102            .24     .004 No_date    3:00   62.10  n/a     .000
01970>            overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01971>      {MxStoUsed=.1144E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01972> R0050:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01973>     ADD HYD               1.0 02:0007            .38     .129 No_date    1:20   58.15  n/a     .000
01974>                     +     1.0 02:0044            .54     .189 No_date    1:20   60.33  n/a     .000
01975>                   SUM=    1.0 01:0106            .92     .318 No_date    1:20   59.43  n/a     .000
01976> R0050:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01977>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .058 No_date    1:20   62.10  n/a     .000
01978>                 out <=    1.0 01:0108            .16     .002 No_date    3:01   62.09  n/a     .000
01979>            overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01980>      {MxStoUsed=.7680E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01981> R0050:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01982>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .303 No_date    1:20   56.39  n/a     .000
01983>                 out <=    1.0 01:0100           1.00     .060 No_date    1:41   56.39  n/a     .000
01984>            overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01985>      {MxStoUsed=.1961E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
01986> R0050:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01987>     ADD HYD               1.0 02:0100           1.00     .060 No_date    1:41   56.39  n/a     .000
01988>                     +     1.0 02:0102            .24     .004 No_date    3:00   62.10  n/a     .000
01989>                     +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
01990>                     +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
01991>                   SUM=    1.0 01:0103           1.24     .063 No_date    1:51   57.50  n/a     .000
01992> R0050:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01993>     ADD HYD               1.0 02:0106            .92     .318 No_date    1:20   59.43  n/a     .000
01994>                     +     1.0 02:0108            .16     .002 No_date    3:01   62.09  n/a     .000
01995>                     +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
01996>                   SUM=    1.0 01:0107           1.08     .319 No_date    1:20   59.82  n/a     .000
01997> R0050:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01998>     ADD HYD               1.0 02:0003            .24     .081 No_date    1:20   58.14  n/a     .000
01999>                     +     1.0 02:0103           1.24     .063 No_date    1:51   57.50  n/a     .000
02000>                   SUM=    1.0 01:0104           1.48     .143 No_date    1:20   57.60  n/a     .000
02001> R0050:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02002>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .319 No_date    1:20   59.82  n/a     .000
02003>                 out <=    1.0 01:0109           1.08     .049 No_date    1:42   59.76  n/a     .000
02004>            overflow <=    1.0 03:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
02005>      {MxStoUsed=.3746E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02006> R0050:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02007>     ROUTE RESERVOIR ->    1.0 02:0104           1.48     .143 No_date    1:20   57.60  n/a     .000
02008>                 out <=    1.0 01:0105           1.48     .068 No_date    2:21   57.54  n/a     .000
02009>            overflow <=    1.0 03:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02010>      {MxStoUsed=.3920E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02011> R0050:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02012>     ADD HYD               1.0 02:0105           1.48     .068 No_date    2:21   57.54  n/a     .000
02013>                     +     1.0 02:0109           1.08     .049 No_date    1:42   59.76  n/a     .000
02014>                     +     1.0 02:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02015>                     +     1.0 02:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
02016>                   SUM=    1.0 01:0110           2.56     .096 No_date    2:14   58.47  n/a     .000
02017> # End of the replicated OTTHYMO model
02018> #*******************************************************************************
02019> R0050:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02020>     CALIB NASHYD          1.0 01:A-03E           5.05     .202 No_date    2:09   28.30 .446     .000
02021>       [CN= 80.0: N= 3.00: Tp=  .65]
02022> R0050:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02023>     CALIB NASHYD          1.0 01:A-03W           1.18     .048 No_date    2:05   27.40 .431     .000
02024>       [CN= 79.0: N= 3.00: Tp=  .60]
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02025> R0050:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02026>     CALIB NASHYD          1.0 01:A-05E          1.07     .019 No_date    3:11   21.97 .346     .000
02027>       [CN= 72.0: N= 3.00: Tp= 1.38]
02028> R0050:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02029>     CALIB NASHYD          1.0 01:A-05W           .23     .005 No_date    2:44   21.29 .335     .000
02030>       [CN= 71.0: N= 3.00: Tp= 1.05]
02031> R0050:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02032>     ADD HYD               1.0 02:A-03E          5.05     .202 No_date    2:09   28.30  n/a     .000
02033>                     +     1.0 02:A-03W          1.18     .048 No_date    2:05   27.40  n/a     .000
02034>                     +     1.0 02:A-05W           .23     .005 No_date    2:44   21.29  n/a     .000
02035>                     +     1.0 02:A-05E          1.07     .019 No_date    3:11   21.97  n/a     .000
02036>                     +     1.0 02:Node_1R        8.39     .306 No_date    2:04   54.56  n/a     .000
02037>                     +     1.0 02:0110           2.56     .096 No_date    2:14   58.47  n/a     .000
02038>                   SUM=    1.0 01:Node_2        18.48     .664 No_date    2:11   43.88  n/a     .000
02039> # Into SWM Pond via pipe
02040> R0050:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02041>     ROUTE PIPE      ->    1.0 02:Node_2        18.48     .664 No_date    2:11   43.88  n/a     .000
02042>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .656 No_date    2:17   43.88  n/a     .000
02043>       [L/S/n=  593./ .500/.013]
02044>       {Vmax= 1.946:Dmax=  .577}
02045>       [Din=  .00:Dused=  .70}
02046> # Cold Creek Subdivision
02047> R0050:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02048>     CALIB STANDHYD        1.0 01:Dev           26.81    5.064 No_date    1:24   44.30 .697     .000
02049>       [XIMP=.53:TIMP=.63]
02050>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02051>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02052>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
02053> R0050:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02054>     CALIB STANDHYD        1.0 01:Pond           1.87     .408 No_date    1:20   38.73 .610     .000
02055>       [XIMP=.40:TIMP=.50]
02056>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02057>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02058>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
02059> R0050:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02060>     ADD HYD               1.0 02:Dev           26.81    5.064 No_date    1:24   44.30  n/a     .000
02061>                     +     1.0 02:Pond           1.87     .408 No_date    1:20   38.73  n/a     .000
02062>                   SUM=    1.0 01:Dev&Pond      28.68    5.385 No_date    1:24   43.94  n/a     .000
02063> #*************************************************************************
02064> # Existing Gas Station Pad (to proposed SWM Pond)
02065> R0050:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02066>     CALIB STANDHYD        1.0 01:EXT4B           .25     .084 No_date    1:20   57.91 .912     .000
02067>       [XIMP=.83:TIMP=.93]
02068>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02069>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02070>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
02071> #*************************************************************************
02072> R0050:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02073>     ADD HYD               1.0 02:Dev           26.81    5.064 No_date    1:24   44.30  n/a     .000
02074>                     +     1.0 02:Pond           1.87     .408 No_date    1:20   38.73  n/a     .000
02075>                     +     1.0 02:EXT4B           .25     .084 No_date    1:20   57.91  n/a     .000
02076>                   SUM=    1.0 01:DevPondGas    28.93    5.426 No_date    1:24   44.06  n/a     .000
02077> R0050:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02078>     ADD HYD               1.0 02:Dev&Pond      28.68    5.385 No_date    1:24   43.94  n/a     .000
02079>                     +     1.0 02:Node_2R       18.48     .656 No_date    2:17   43.88  n/a     .000
02080>                     +     1.0 02:EXT4B           .25     .084 No_date    1:20   57.91  n/a     .000
02081>                   SUM=    1.0 01:SWMPondIn     47.41    5.498 No_date    1:24   43.98  n/a     .000
02082> # SWM Pond (free outlet conditions)
02083> R0050:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02084>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    5.498 No_date    1:24   43.98  n/a     .000
02085>                 out <=    1.0 01:SWMPondOut    47.41     .690 No_date    3:15   43.98  n/a     .000
02086>            overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
02087>      {MxStoUsed=.1197E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02088> # SWM Pond (pond control orifices blockage scenario)
02089> R0050:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02090>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    5.498 No_date    1:24   43.98  n/a     .000
02091>  *              out <=    1.0 01:SWMPoutBlk    47.41     .050 No_date    8:59    4.33  n/a     .000
02092>            overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
02093>      {MxStoUsed=.1908E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02094> R0050:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02095>     ADD HYD               1.0 02:SWMPondOut    47.41     .690 No_date    3:15   43.98  n/a     .000
02096>                     +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
02097>                   SUM=    1.0 01:Node_3pond    47.41     .690 No_date    3:15   43.98  n/a     .000
02098> R0050:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02099>     SAVE HYD              1.0 01:Node_3pond    47.41     .690 No_date    3:15   43.98  n/a     .000
02100>       fname :Node_3pond.0050
02101>       remark:Pond Outflow
02102> R0050:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02103>     ADD HYD               1.0 02:SWMPoutBlk    47.41     .050 No_date    8:59    4.33  n/a     .000
02104>                     +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
02105>                   SUM=    1.0 01:Node_3pBlk    47.41     .050 No_date    8:59    4.33  n/a     .000
02106> # Park Block Draining Uncontrolled to Node 3
02107> R0050:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02108>     CALIB STANDHYD        1.0 01:2A_Park         .95     .153 No_date    1:24   26.18 .412     .000
02109>       [XIMP=.11:TIMP=.21]
02110>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02111>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02112>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
02113> R0050:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02114>     ADD HYD               1.0 02:Node_3pond    47.41     .690 No_date    3:15   43.98  n/a     .000
02115>                     +     1.0 02:2A_Park         .95     .153 No_date    1:24   26.18  n/a     .000
02116>                   SUM=    1.0 01:Node_3        48.36     .692 No_date    3:15   43.63  n/a     .000
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02117> R0050:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02118>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .692 No_date    3:15   43.63  n/a     .000
02119>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .656 No_date    3:52   43.63  n/a     .000
02120>       [L/S/n=  664./ .200/.035]
02121>       {Vmax=  .308:Dmax=  .196}
02122> R0050:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02123>     CALIB NASHYD         1.0 01:A-08           2.07     .026 No_date    2:23   10.71 .169     .000
02124>       [CN= 49.0: N= 3.00: Tp=  .78]
02125> R0050:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02126>     CALIB NASHYD         1.0 01:A-09           6.16     .055 No_date    3:10   10.71 .169     .000
02127>       [CN= 49.0: N= 3.00: Tp= 1.32]
02128> R0050:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02129>     CALIB NASHYD         1.0 01:A-12           7.79     .098 No_date    2:51   13.40 .211     .000
02130>       [CN= 56.0: N= 3.00: Tp= 1.11]
02131> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
02132> R0050:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02133>     CALIB STANDHYD       1.0 01:Unc_8A          .25     .050 No_date    1:20   32.64 .514     .000
02134>       [XIMP=.26:TIMP=.36]
02135>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02136>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02137>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
02138> R0050:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02139>     CALIB STANDHYD       1.0 01:Unc_8B          .14     .029 No_date    1:20   32.64 .514     .000
02140>       [XIMP=.26:TIMP=.36]
02141>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02142>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02143>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
02144> R0050:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02145>     CALIB STANDHYD       1.0 01:Unc_6           .17     .034 No_date    1:20   32.64 .514     .000
02146>       [XIMP=.26:TIMP=.36]
02147>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02148>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02149>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
02150> # West Branch
02151> R0050:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02152>     CALIB NASHYD         1.0 01:A-04          18.63     .295 No_date    3:19   20.02 .315     .000
02153>       [CN= 69.0: N= 3.00: Tp= 1.47]
02154> R0050:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02155>     CALIB NASHYD         1.0 01:A-10           7.42     .079 No_date    3:25   13.82 .218     .000
02156>       [CN= 57.0: N= 3.00: Tp= 1.51]
02157> R0050:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02158>     ADD HYD              1.0 02:A-04          18.63     .295 No_date    3:19   20.02  n/a     .000
02159>                    +     1.0 02:A-10           7.42     .079 No_date    3:25   13.82  n/a     .000
02160>                  SUM=    1.0 01:Node_4        26.05     .373 No_date    3:20   18.26  n/a     .000
02161> R0050:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02162>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .373 No_date    3:20   18.26  n/a     .000
02163>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .371 No_date    3:29   18.26  n/a     .000
02164>       [L/S/n=  473./ .660/.035]
02165>       {Vmax=  .874:Dmax=  .304}
02166> R0050:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02167>     CALIB NASHYD         1.0 01:A-11           7.93     .135 No_date    2:40   16.65 .262     .000
02168>       [CN= 63.0: N= 3.00: Tp=  .99]
02169> R0050:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02170>     ADD HYD              1.0 02:Node_3R       48.36     .656 No_date    3:52   43.63  n/a     .000
02171>                    +     1.0 02:A-08           2.07     .026 No_date    2:23   10.71  n/a     .000
02172>                    +     1.0 02:A-09           6.16     .055 No_date    3:10   10.71  n/a     .000
02173>                    +     1.0 02:A-11           7.93     .135 No_date    2:40   16.65  n/a     .000
02174>                    +     1.0 02:A-12           7.79     .098 No_date    2:51   13.40  n/a     .000
02175>                    +     1.0 02:Unc_8A          .25     .050 No_date    1:20   32.64  n/a     .000
02176>                    +     1.0 02:Unc_8B          .14     .029 No_date    1:20   32.64  n/a     .000
02177>                    +     1.0 02:Unc_6           .17     .034 No_date    1:20   32.64  n/a     .000
02178>                    +     1.0 02:Node_4R       26.05     .371 No_date    3:29   18.26  n/a     .000
02179>                  SUM=    1.0 01:Outlet        98.92    1.288 No_date    3:26   29.59  n/a     .000
02180> R0050:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02181>     SAVE HYD             1.0 01:Outlet        98.92    1.288 No_date    3:26   29.59  n/a     .000
02182>       fname :Outlet.0050
02183>       remark:Total Outflows to Sandy Hook Road
02184>   ** END OF RUN :   98
02185>
02186> ************************************************************************************************
02187>
02188>
02189>
02190>
02191>
02192>  RUN#:COMMAND#
02193> R0099:C00001-----------------------------------------------------------------------------------------
02194>      START
02195>       [TZERO =    .00 hrs on        0]
02196>       [METOUT=   2    (1=imperial, 2=metric output)]
02197>       [NSTORM=   1 ]
02198>       [NRUN  = 0099 ]
02199> #*******************************************************************************
02200> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02201> #*******************************************************************************
02202> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
02203> #  Date         : 2023-10
02204> #  Modeller     : [JB]
02205> #  Updated              : 2025-05 [PP]
02206> #  Company      : JFSA Ottawa
02207> #  License #    : 2549237
02208> #*******************************************************************************
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02209> # Post Development Scenario B - Upstream flows diverted through subdivision
02210> #*******************************************************************************
02211> R0099:C00002-------------------------------------------------------------------------------------------
02212>      READ STORM
02213>       Filename = STORM.001
02214>       Comment  = Belleville: 100-Year, 4-Hour Chicago
02215>       [SDT=10.00:SDUR=   4.00:PTOT=  69.54]
02216> #*******************************************************************************
02217> # POST-DEVELOPMENT CONDITIONS
02218> # Flows from upstream lands routed through subdivision
02219> #*******************************************************************************
02220> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
02221> # Improvements and New Urban Retail Development - In SWMHYMO
02222> R0099:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02223>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.661 No_date    1:21   60.40 .869     .000
02224>       [XIMP=.76:TIMP=.86]
02225>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02226>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02227>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02228> R0099:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02229>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.661 No_date    1:21   60.40  n/a     .000
02230>                   out <=    1.0 01:NodeB          8.39     .380 No_date    1:54   60.40  n/a     .000
02231>             overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02232>      {MxStoUsed=.3243E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02233> R0099:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02234>     ADD HYD               1.0 02:NodeB          8.39     .380 No_date    1:54   60.40  n/a     .000
02235>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02236>                     SUM=     1.0 01:Node_1         8.39     .380 No_date    1:54   60.40  n/a     .000
02237> R0099:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02238>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .380 No_date    1:54   60.40  n/a     .000
02239>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .374 No_date    2:00   60.40  n/a     .000
02240>       [L/S/n=  327./ .920/.035]
02241>       {Vmax=  .878:Dmax=  .312}
02242> #*******************************************************************************
02243> # Replication of the OTTHYMO model for the Choice Properties REIT
02244> # development as per the November 2023 'Proposed Retails Pads B & C
02245> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02246> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02247> # Notes:
02248> # - DT changed from 5 min to 1 min
02249> # - Reservoir Overflows added to the downstream node for all reservoirs
02250> #*******************************************************************************
02251> # 0003
02252> #*******************************************************************************
02253> R0099:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02254>     CALIB STANDHYD        1.0 01:0003           .24     .090 No_date    1:20   63.97 .920     .000
02255>       [XIMP=.90:TIMP=.90]
02256>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02257>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02258>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02259> #*******************************************************************************
02260> # 0002
02261> #*******************************************************************************
02262> R0099:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02263>     CALIB STANDHYD        1.0 01:0002           .07     .028 No_date    1:20   68.10 .979     .000
02264>       [XIMP=.99:TIMP=.99]
02265>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02266>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02267>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
02268> #*******************************************************************************
02269> # 0001
02270> #*******************************************************************************
02271> R0099:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02272>     CALIB STANDHYD        1.0 01:0001           .93     .331 No_date    1:20   61.69 .887     .000
02273>       [XIMP=.85:TIMP=.85]
02274>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02275>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02276>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02277> #*******************************************************************************
02278> # 0006
02279> #*******************************************************************************
02280> R0099:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02281>     CALIB STANDHYD        1.0 01:0006           .24     .095 No_date    1:20   68.10 .979     .000
02282>       [XIMP=.99:TIMP=.99]
02283>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02284>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02285>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02286> #*******************************************************************************
02287> # 0007
02288> #*******************************************************************************
02289> R0099:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02290>     CALIB STANDHYD        1.0 01:0007           .38     .142 No_date    1:20   63.97 .920     .000
02291>       [XIMP=.90:TIMP=.90]
02292>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02293>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02294>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
02295> #*******************************************************************************
02296> # 0044
02297> #*******************************************************************************
02298> R0099:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02299>     CALIB STANDHYD        1.0 01:0044           .54     .208 No_date    1:20   66.26 .953     .000
02300>       [XIMP=.95:TIMP=.95]
```

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02301>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02302>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02303>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
02304> #*************************************************************************
02305> # 0005
02306> #*************************************************************************
02307> R0099:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02308>     CALIB STANDHYD        1.0 01:0005           .16     .063 No_date    1:20   68.11 .979     .000
02309>       [XIMP=.99:TIMP=.99]
02310>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02311>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02312>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
02313> #*************************************************************************
02314> R0099:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02315>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .028 No_date    1:20   68.10  n/a     .000
02316>                   out <=    1.0 01:0111           .07     .004 No_date    1:41   68.10  n/a     .000
02317>              overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02318>      {MxStoUsed=.2749E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02319> R0099:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02320>     ADD HYD               1.0 02:0111           .07     .004 No_date    1:41   68.10  n/a     .000
02321>                     +     1.0 02:0001           .93     .331 No_date    1:20   61.69  n/a     .000
02322>                     +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
02323>                   SUM=    1.0 01:0101          1.00     .334 No_date    1:20   62.14  n/a     .000
02324> R0099:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02325>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .095 No_date    1:20   68.10  n/a     .000
02326>                   out <=    1.0 01:0102           .24     .004 No_date    3:00   68.10  n/a     .000
02327>              overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
02328>      {MxStoUsed=.1253E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02329> R0099:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02330>     ADD HYD               1.0 02:0007           .38     .142 No_date    1:20   63.97  n/a     .000
02331>                     +     1.0 02:0044           .54     .208 No_date    1:20   66.26  n/a     .000
02332>                   SUM=    1.0 01:0106           .92     .350 No_date    1:20   65.31  n/a     .000
02333> R0099:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02334>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .063 No_date    1:20   68.11  n/a     .000
02335>                   out <=    1.0 01:0108           .16     .003 No_date    3:01   68.10  n/a     .000
02336>              overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
02337>      {MxStoUsed=.8408E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02338> R0099:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02339>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .334 No_date    1:20   62.14  n/a     .000
02340>                   out <=    1.0 01:0100          1.00     .061 No_date    1:42   62.14  n/a     .000
02341>              overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
02342>      {MxStoUsed=.2289E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02343> R0099:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02344>     ADD HYD               1.0 02:0100          1.00     .061 No_date    1:42   62.14  n/a     .000
02345>                     +     1.0 02:0102           .24     .004 No_date    3:00   68.10  n/a     .000
02346>                     +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
02347>                     +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
02348>                   SUM=    1.0 01:0103          1.24     .064 No_date    1:50   63.29  n/a     .000
02349> R0099:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02350>     ADD HYD               1.0 02:0106           .92     .350 No_date    1:20   65.31  n/a     .000
02351>                     +     1.0 02:0108           .16     .003 No_date    3:01   68.10  n/a     .000
02352>                     +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
02353>                   SUM=    1.0 01:0107          1.08     .351 No_date    1:20   65.73  n/a     .000
02354> R0099:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02355>     ADD HYD               1.0 02:0003           .24     .090 No_date    1:20   63.97  n/a     .000
02356>                     +     1.0 02:0103          1.24     .064 No_date    1:50   63.29  n/a     .000
02357>                   SUM=    1.0 01:0104          1.48     .152 No_date    1:20   63.40  n/a     .000
02358> R0099:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02359>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .351 No_date    1:20   65.73  n/a     .000
02360>                   out <=    1.0 01:0109          1.08     .069 No_date    1:37   65.66  n/a     .000
02361>              overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
02362>      {MxStoUsed=.3844E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02363> R0099:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02364>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .152 No_date    1:20   63.40  n/a     .000
02365>                   out <=    1.0 01:0105          1.48     .070 No_date    2:20   63.36  n/a     .000
02366>              overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
02367>      {MxStoUsed=.3924E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02368> R0099:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02369>     ADD HYD               1.0 02:0105          1.48     .070 No_date    2:20   63.36  n/a     .000
02370>                     +     1.0 02:0109          1.08     .069 No_date    1:37   65.66  n/a     .000
02371>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
02372>                     +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
02373>                   SUM=    1.0 01:0110          2.56     .103 No_date    2:10   64.32  n/a     .000
02374> # End of the replicated OTTHYMO model
02375> #*************************************************************************
02376> R0099:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02377>     CALIB NASHYD          1.0 01:A-03E          5.05     .235 No_date    2:08   32.78 .471     .000
02378>       [CN= 80.0: N= 3.00: Tp=  .65]
02379> R0099:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02380>     CALIB NASHYD          1.0 01:A-03W          1.18     .056 No_date    2:05   31.79 .457     .000
02381>       [CN= 79.0: N= 3.00: Tp=  .60]
02382> R0099:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02383>     CALIB NASHYD          1.0 01:A-05E          1.07     .023 No_date    3:10   25.72 .370     .000
02384>       [CN= 72.0: N= 3.00: Tp= 1.38]
02385> R0099:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02386>     CALIB NASHYD          1.0 01:A-05W           .23     .006 No_date    2:43   24.96 .359     .000
02387>       [CN= 71.0: N= 3.00: Tp= 1.05]
02388> R0099:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02389>     ADD HYD               1.0 02:A-03E          5.05     .235 No_date    2:08   32.78  n/a     .000
02390>                     +     1.0 02:A-03W          1.18     .056 No_date    2:05   31.79  n/a     .000
02391>                     +     1.0 02:A-05W           .23     .006 No_date    2:43   24.96  n/a     .000
02392>                     +     1.0 02:A-05E          1.07     .023 No_date    3:10   25.72  n/a     .000
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02393>                    +     1.0 02:Node_1R        8.39     .374 No_date    2:00   60.40  n/a     .000
02394>                    +     1.0 02:0110           2.56     .103 No_date    2:10   64.32  n/a     .000
02395>                  SUM=    1.0 01:Node_2        18.48     .782 No_date    2:06   49.11  n/a     .000
02396> # Into SWM Pond via pipe
02397> R0099:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02398>     ROUTE PIPE      ->    1.0 02:Node_2        18.48     .782 No_date    2:06   49.11  n/a     .000
02399>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .772 No_date    2:12   49.11  n/a     .000
02400>       [L/S/n=  593./ .500/.013]
02401>       {Vmax= 2.027:Dmax=  .614}
02402>       [Din=  .00:Dused=  .75}
02403> # Cold Creek Subdivision
02404> R0099:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02405>     CALIB STANDHYD       1.0 01:Dev           26.81    5.817 No_date    1:24   49.78 .716     .000
02406>       [XIMP=.53:TIMP=.63]
02407>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02408>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02409>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
02410> R0099:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02411>     CALIB STANDHYD       1.0 01:Pond           1.87     .476 No_date    1:20   43.72 .629     .000
02412>       [XIMP=.40:TIMP=.50]
02413>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02414>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02415>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
02416> R0099:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02417>     ADD HYD              1.0 02:Dev           26.81    5.817 No_date    1:24   49.78  n/a     .000
02418>                    +     1.0 02:Pond           1.87     .476 No_date    1:20   43.72  n/a     .000
02419>                  SUM=    1.0 01:Dev&Pond      28.68    6.192 No_date    1:23   49.38  n/a     .000
02420> #*****************************************************************************
02421> # Existing Gas Station Pad (to proposed SWM Pond)
02422> R0099:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02423>     CALIB STANDHYD       1.0 01:EXT4B           .25     .093 No_date    1:20   63.83 .918     .000
02424>       [XIMP=.83:TIMP=.93]
02425>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02426>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02427>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
02428> #*****************************************************************************
02429> R0099:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02430>     ADD HYD              1.0 02:Dev           26.81    5.817 No_date    1:24   49.78  n/a     .000
02431>                    +     1.0 02:Pond           1.87     .476 No_date    1:20   43.72  n/a     .000
02432>                    +     1.0 02:EXT4B           .25     .093 No_date    1:20   63.83  n/a     .000
02433>                  SUM=    1.0 01:DevPondGas    28.93    6.243 No_date    1:23   49.51  n/a     .000
02434> R0099:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02435>     ADD HYD              1.0 02:Dev&Pond      28.68    6.192 No_date    1:23   49.38  n/a     .000
02436>                    +     1.0 02:Node_2R       18.48     .772 No_date    2:12   49.11  n/a     .000
02437>                    +     1.0 02:EXT4B           .25     .093 No_date    1:20   63.83  n/a     .000
02438>                  SUM=    1.0 01:SWMPondIn     47.41    6.319 No_date    1:23   49.34  n/a     .000
02439> # SWM Pond (free outlet conditions)
02440> R0099:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02441>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    6.319 No_date    1:23   49.34  n/a     .000
02442>                   out <=    1.0 01:SWMPondOut    47.41     .847 No_date    3:04   49.34  n/a     .000
02443>             overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
02444>      {MxStoUsed=.1316E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02445> # SWM Pond (pond control orifices blockage scenario)
02446> R0099:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02447>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    6.319 No_date    1:23   49.34  n/a     .000
02448>  *              out <=    1.0 01:SWMPoutBlk    47.41     .225 No_date    4:42    9.69  n/a     .000
02449>             overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
02450>      {MxStoUsed=.1967E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02451> R0099:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02452>     ADD HYD              1.0 02:SWMPondOut    47.41     .847 No_date    3:04   49.34  n/a     .000
02453>                    +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
02454>                  SUM=    1.0 01:Node_3pond    47.41     .847 No_date    3:04   49.34  n/a     .000
02455> R0099:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02456>     SAVE HYD             1.0 01:Node_3pond    47.41     .847 No_date    3:04   49.34  n/a     .000
02457>       fname :Node_3pond.0099
02458>       remark:Pond Outflow
02459> R0099:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02460>     ADD HYD              1.0 02:SWMPoutBlk    47.41     .225 No_date    4:42    9.69  n/a     .000
02461>                    +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
02462>                  SUM=    1.0 01:Node_3pBlk    47.41     .225 No_date    4:42    9.69  n/a     .000
02463> # Park Block Draining Uncontrolled to Node 3
02464> R0099:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02465>     CALIB STANDHYD       1.0 01:2A_Park         .95     .178 No_date    1:24   30.68 .441     .000
02466>       [XIMP=.11:TIMP=.21]
02467>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02468>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02469>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
02470> R0099:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02471>     ADD HYD              1.0 02:Node_3pond    47.41     .847 No_date    3:04   49.34  n/a     .000
02472>                    +     1.0 02:2A_Park         .95     .178 No_date    1:24   30.68  n/a     .000
02473>                  SUM=    1.0 01:Node_3        48.36     .848 No_date    3:03   48.97  n/a     .000
02474> R0099:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02475>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .848 No_date    3:03   48.97  n/a     .000
02476>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .810 No_date    3:41   48.97  n/a     .000
02477>       [L/S/n=  664./ .200/.035]
02478>       {Vmax=  .324:Dmax=  .214}
02479> R0099:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02480>     CALIB NASHYD         1.0 01:A-08           2.07     .031 No_date    2:23   12.78 .184     .000
02481>       [CN= 49.0: N= 3.00: Tp=  .78]
02482> R0099:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02483>     CALIB NASHYD         1.0 01:A-09           6.16     .066 No_date    3:09   12.78 .184     .000
02484>       [CN= 49.0: N= 3.00: Tp= 1.32]
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02485> R0099:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02486>     CALIB NASHYD          1.0 01:A-12           7.79     .117 No_date    2:51   15.91 .229     .000
02487>       [CN= 56.0: N= 3.00: Tp= 1.11]
02488> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
02489> R0099:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02490>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .057 No_date    1:20   37.34 .537     .000
02491>       [XIMP=.26:TIMP=.36]
02492>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02493>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02494>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
02495> R0099:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02496>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .033 No_date    1:20   37.33 .537     .000
02497>       [XIMP=.26:TIMP=.36]
02498>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02499>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02500>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
02501> R0099:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02502>     CALIB STANDHYD        1.0 01:Unc_6           .17     .039 No_date    1:20   37.34 .537     .000
02503>       [XIMP=.26:TIMP=.36]
02504>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02505>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02506>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
02507> # West Branch
02508> R0099:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02509>     CALIB NASHYD          1.0 01:A-04          18.63     .347 No_date    3:18   23.51 .338     .000
02510>       [CN= 69.0: N= 3.00: Tp= 1.47]
02511> R0099:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02512>     CALIB NASHYD          1.0 01:A-10           7.42     .094 No_date    3:24   16.41 .236     .000
02513>       [CN= 57.0: N= 3.00: Tp= 1.51]
02514> R0099:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02515>     ADD HYD               1.0 02:A-04          18.63     .347 No_date    3:18   23.51  n/a     .000
02516>                     +     1.0 02:A-10           7.42     .094 No_date    3:24   16.41  n/a     .000
02517>                   SUM=    1.0 01:Node_4        26.05     .441 No_date    3:20   21.49  n/a     .000
02518> R0099:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02519>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .441 No_date    3:20   21.49  n/a     .000
02520>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .439 No_date    3:27   21.49  n/a     .000
02521>       [L/S/n=  473./ .660/.035]
02522>       {Vmax=  .903:Dmax=  .332}
02523> R0099:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02524>     CALIB NASHYD          1.0 01:A-11           7.93     .160 No_date    2:39   19.66 .283     .000
02525>       [CN= 63.0: N= 3.00: Tp=  .99]
02526> R0099:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02527>     ADD HYD               1.0 02:Node_3R       48.36     .810 No_date    3:41   48.97  n/a     .000
02528>                     +     1.0 02:A-08           2.07     .031 No_date    2:23   12.78  n/a     .000
02529>                     +     1.0 02:A-09           6.16     .066 No_date    3:09   12.78  n/a     .000
02530>                     +     1.0 02:A-11           7.93     .160 No_date    2:39   19.66  n/a     .000
02531>                     +     1.0 02:A-12           7.79     .117 No_date    2:51   15.91  n/a     .000
02532>                     +     1.0 02:Unc_8A          .25     .057 No_date    1:20   37.34  n/a     .000
02533>                     +     1.0 02:Unc_8B          .14     .033 No_date    1:20   37.33  n/a     .000
02534>                     +     1.0 02:Unc_6           .17     .039 No_date    1:20   37.34  n/a     .000
02535>                     +     1.0 02:Node_4R       26.05     .439 No_date    3:27   21.49  n/a     .000
02536>                   SUM=    1.0 01:Outlet        98.92    1.568 No_date    3:21   33.69  n/a     .000
02537> R0099:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02538>     SAVE HYD              1.0 01:Outlet        98.92    1.568 No_date    3:21   33.69  n/a     .000
02539>       fname :Outlet.0099
02540>       remark:Total Outflows to Sandy Hook Road
02541>   ** END OF RUN :  101
02542>
02543> ****************************************************************************************************
02544>
02545>
02546>
02547>
02548>
02549>  RUN#:COMMAND#
02550> R0102:C00001------------------------------------------------------------------------------------------
02551>      START
02552>       [TZERO =    .00 hrs on        0]
02553>       [METOUT=   2    (1=imperial, 2=metric output)]
02554>       [NSTORM=   1 ]
02555>       [NRUN  = 0102 ]
02556> #*************************************************************************
02557> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02558> #*************************************************************************
02559> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
02560> #  Date        : 2023-10
02561> #  Modeller    : [JB]
02562> #  Updated             : 2025-05 [PP]
02563> #  Company     : JFSA Ottawa
02564> #  License #   : 2549237
02565> #*************************************************************************
02566> # Post Development Scenario B - Upstream flows diverted through subdivision
02567> #*************************************************************************
02568> R0102:C00002------------------------------------------------------------------------------------------
02569>      READ STORM
02570>       Filename = STORM.001
02571>       Comment  = 2-Yr 12-hr SCS Storm Type II - Belleville Station
02572>       [SDT= 5.00:SDUR=  12.00:PTOT=  44.49]
02573> #*************************************************************************
02574> # POST-DEVELOPMENT CONDITIONS
02575> # Flows from upstream lands routed through subdivision
02576> #*************************************************************************
```

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02577> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
02578> # Improvements and New Urban Retail Development - In SWMHYMO
02579> R0102:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02580>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.097 No_date    6:01   35.89 .807     .000
02581>       [XIMP=.76:TIMP=.86]
02582>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02583>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02584>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02585> R0102:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02586>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.097 No_date    6:01   35.89  n/a     .000
02587>                  out <=    1.0 01:NodeB          8.39     .132 No_date    6:36   35.89  n/a     .000
02588>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02589>      {MxStoUsed=.1875E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02590> R0102:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02591>     ADD HYD               1.0 02:NodeB          8.39     .132 No_date    6:36   35.89  n/a     .000
02592>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02593>                   SUM=     1.0 01:Node_1         8.39     .132 No_date    6:36   35.89  n/a     .000
02594> R0102:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02595>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .132 No_date    6:36   35.89  n/a     .000
02596>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .131 No_date    6:43   35.89  n/a     .000
02597>       [L/S/n=  327./ .920/.035]
02598>       {Vmax=  .659:Dmax=  .194}
02599> #*******************************************************************************
02600> # Replication of the OTTHYMO model for the Choice Properties REIT
02601> # development as per the November 2023 'Proposed Retails Pads B & C
02602> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02603> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02604> # Notes:
02605> # - DT changed from 5 min to 1 min
02606> # - Reservoir Overflows added to the downstream node for all reservoirs
02607> #*******************************************************************************
02608> # 0003
02609> #*******************************************************************************
02610> R0102:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02611>     CALIB STANDHYD        1.0 01:0003           .24     .036 No_date    6:00   39.84 .895     .000
02612>       [XIMP=.90:TIMP=.90]
02613>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02614>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02615>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02616> #*******************************************************************************
02617> # 0002
02618> #*******************************************************************************
02619> R0102:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02620>     CALIB STANDHYD        1.0 01:0002           .07     .011 No_date    6:00   43.14 .970     .000
02621>       [XIMP=.99:TIMP=.99]
02622>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02623>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02624>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
02625> #*******************************************************************************
02626> # 0001
02627> #*******************************************************************************
02628> R0102:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02629>     CALIB STANDHYD        1.0 01:0001           .93     .132 No_date    6:00   38.02 .854     .000
02630>       [XIMP=.85:TIMP=.85]
02631>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02632>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02633>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02634> #*******************************************************************************
02635> # 0006
02636> #*******************************************************************************
02637> R0102:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02638>     CALIB STANDHYD        1.0 01:0006           .24     .039 No_date    6:00   43.16 .970     .000
02639>       [XIMP=.99:TIMP=.99]
02640>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02641>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02642>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02643> #*******************************************************************************
02644> # 0007
02645> #*******************************************************************************
02646> R0102:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02647>     CALIB STANDHYD        1.0 01:0007           .38     .057 No_date    6:00   39.84 .895     .000
02648>       [XIMP=.90:TIMP=.90]
02649>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02650>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02651>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
02652> #*******************************************************************************
02653> # 0044
02654> #*******************************************************************************
02655> R0102:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02656>     CALIB STANDHYD        1.0 01:0044           .54     .084 No_date    6:00   41.67 .936     .000
02657>       [XIMP=.95:TIMP=.95]
02658>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02659>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02660>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
02661> #*******************************************************************************
02662> # 0005
02663> #*******************************************************************************
02664> R0102:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02665>     CALIB STANDHYD        1.0 01:0005           .16     .026 No_date    6:00   43.15 .970     .000
02666>       [XIMP=.99:TIMP=.99]
02667>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02668>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
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02669>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
02670> #*****************************************************************************
02671> R0102:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02672>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .011 No_date    6:00   43.14  n/a     .000
02673>                  out <=    1.0 01:0111            .07     .002 No_date    6:04   43.14  n/a     .000
02674>             overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
02675>      {MxStoUsed=.1583E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02676> R0102:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02677>     ADD HYD               1.0 02:0111            .07     .002 No_date    6:04   43.14  n/a     .000
02678>                     +     1.0 02:0001            .93     .132 No_date    6:00   38.02  n/a     .000
02679>                     +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
02680>                   SUM=    1.0 01:0101           1.00     .134 No_date    6:00   38.38  n/a     .000
02681> R0102:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02682>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .039 No_date    6:00   43.16  n/a     .000
02683>                  out <=    1.0 01:0102            .24     .002 No_date    7:01   43.15  n/a     .000
02684>             overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
02685>      {MxStoUsed=.7169E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02686> R0102:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02687>     ADD HYD               1.0 02:0007            .38     .057 No_date    6:00   39.84  n/a     .000
02688>                     +     1.0 02:0044            .54     .084 No_date    6:00   41.67  n/a     .000
02689>                   SUM=    1.0 01:0106            .92     .141 No_date    6:00   40.92  n/a     .000
02690> R0102:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02691>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .026 No_date    6:00   43.15  n/a     .000
02692>                  out <=    1.0 01:0108            .16     .001 No_date    7:01   43.15  n/a     .000
02693>             overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
02694>      {MxStoUsed=.4789E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02695> R0102:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02696>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .134 No_date    6:00   38.38  n/a     .000
02697>                  out <=    1.0 01:0100           1.00     .058 No_date    6:05   38.38  n/a     .000
02698>             overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
02699>      {MxStoUsed=.6831E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02700> R0102:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02701>     ADD HYD               1.0 02:0100           1.00     .058 No_date    6:05   38.38  n/a     .000
02702>                     +     1.0 02:0102            .24     .002 No_date    7:01   43.15  n/a     .000
02703>                     +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
02704>                     +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
02705>                   SUM=    1.0 01:0103           1.24     .060 No_date    6:06   39.30  n/a     .000
02706> R0102:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02707>     ADD HYD               1.0 02:0106            .92     .141 No_date    6:00   40.92  n/a     .000
02708>                     +     1.0 02:0108            .16     .001 No_date    7:01   43.15  n/a     .000
02709>                     +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
02710>                   SUM=    1.0 01:0107           1.08     .143 No_date    6:00   41.25  n/a     .000
02711> R0102:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02712>     ADD HYD               1.0 02:0003            .24     .036 No_date    6:00   39.84  n/a     .000
02713>                     +     1.0 02:0103           1.24     .060 No_date    6:06   39.30  n/a     .000
02714>                   SUM=    1.0 01:0104           1.48     .096 No_date    6:00   39.39  n/a     .000
02715> R0102:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02716>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .143 No_date    6:00   41.25  n/a     .000
02717>                  out <=    1.0 01:0109           1.08     .005 No_date    9:11   41.18  n/a     .000
02718>             overflow <=    1.0 03:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
02719>      {MxStoUsed=.3523E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02720> R0102:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02721>     ROUTE RESERVOIR ->    1.0 02:0104           1.48     .096 No_date    6:00   39.39  n/a     .000
02722>                  out <=    1.0 01:0105           1.48     .014 No_date    6:55   39.33  n/a     .000
02723>             overflow <=    1.0 03:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02724>      {MxStoUsed=.3785E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02725> R0102:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02726>     ADD HYD               1.0 02:0105           1.48     .014 No_date    6:55   39.33  n/a     .000
02727>                     +     1.0 02:0109           1.08     .005 No_date    9:11   41.18  n/a     .000
02728>                     +     1.0 02:0105ovf         .00     .000 No_date    0:00     .00  n/a     .000
02729>                     +     1.0 02:0109ovf         .00     .000 No_date    0:00     .00  n/a     .000
02730>                   SUM=    1.0 01:0110           2.56     .015 No_date    6:55   40.11  n/a     .000
02731> # End of the replicated OTTHYMO model
02732> #*****************************************************************************
02733> R0102:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02734>     CALIB NASHYD          1.0 01:A-03E           5.05     .100 No_date    6:38   15.35 .345     .000
02735>       [CN= 80.0: N= 3.00: Tp=  .65]
02736> R0102:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02737>     CALIB NASHYD          1.0 01:A-03W           1.18     .024 No_date    6:35   14.77 .332     .000
02738>       [CN= 79.0: N= 3.00: Tp=  .60]
02739> R0102:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02740>     CALIB NASHYD          1.0 01:A-05E           1.07     .009 No_date    7:32   11.44 .257     .000
02741>       [CN= 72.0: N= 3.00: Tp= 1.38]
02742> R0102:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02743>     CALIB NASHYD          1.0 01:A-05W            .23     .002 No_date    7:07   11.04 .248     .000
02744>       [CN= 71.0: N= 3.00: Tp= 1.05]
02745> R0102:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02746>     ADD HYD               1.0 02:A-03E           5.05     .100 No_date    6:38   15.35  n/a     .000
02747>                     +     1.0 02:A-03W           1.18     .024 No_date    6:35   14.77  n/a     .000
02748>                     +     1.0 02:A-05W            .23     .002 No_date    7:07   11.04  n/a     .000
02749>                     +     1.0 02:A-05E           1.07     .009 No_date    7:32   11.44  n/a     .000
02750>                     +     1.0 02:Node_1R         8.39     .131 No_date    6:43   35.89  n/a     .000
02751>                     +     1.0 02:0110            2.56     .015 No_date    6:55   40.11  n/a     .000
02752>                   SUM=    1.0 01:Node_2         18.48     .272 No_date    6:46   27.78  n/a     .000
02753> # Into SWM Pond via pipe
02754> R0102:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02755>     ROUTE PIPE       ->    1.0 02:Node_2         18.48     .272 No_date    6:46   27.78  n/a     .000
02756>  *   [RDT= 1.00] out<-    1.0 01:Node_2R        18.48     .268 No_date    6:52   27.78  n/a     .000
02757>       [L/S/n=  593./ .500/.013]
02758>       {Vmax= 1.557:Dmax=  .413}
02759>       [Din=  .00:Dused=  .50}
02760> # Cold Creek Subdivision
```

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02761> R0102:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02762>     CALIB STANDHYD        1.0 01:Dev           26.81    2.277 No_date    6:04   27.59 .620     .000
02763>       [XIMP=.53:TIMP=.63]
02764>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02765>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02766>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
02767> R0102:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02768>     CALIB STANDHYD        1.0 01:Pond           1.87     .174 No_date    6:00   22.97 .516     .000
02769>       [XIMP=.40:TIMP=.50]
02770>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02771>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02772>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
02773> R0102:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02774>     ADD HYD               1.0 02:Dev           26.81    2.277 No_date    6:04   27.59  n/a     .000
02775>                   +       1.0 02:Pond           1.87     .174 No_date    6:00   22.97  n/a     .000
02776>                 SUM=      1.0 01:Dev&Pond      28.68    2.407 No_date    6:04   27.29  n/a     .000
02777> #*************************************************************************
02778> # Existing Gas Station Pad (to proposed SWM Pond)
02779> R0102:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02780>     CALIB STANDHYD        1.0 01:EXT4B           .25     .038 No_date    6:00   38.71 .870     .000
02781>       [XIMP=.83:TIMP=.93]
02782>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02783>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02784>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
02785> #*************************************************************************
02786> R0102:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02787>     ADD HYD               1.0 02:Dev           26.81    2.277 No_date    6:04   27.59  n/a     .000
02788>                   +       1.0 02:Pond           1.87     .174 No_date    6:00   22.97  n/a     .000
02789>                   +       1.0 02:EXT4B           .25     .038 No_date    6:00   38.71  n/a     .000
02790>                 SUM=      1.0 01:DevPondGas    28.93    2.426 No_date    6:03   27.39  n/a     .000
02791> R0102:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02792>     ADD HYD               1.0 02:Dev&Pond      28.68    2.407 No_date    6:04   27.29  n/a     .000
02793>                   +       1.0 02:Node_2R       18.48     .268 No_date    6:52   27.78  n/a     .000
02794>                   +       1.0 02:EXT4B           .25     .038 No_date    6:00   38.71  n/a     .000
02795>                 SUM=      1.0 01:SWMPondIn     47.41    2.520 No_date    6:04   27.54  n/a     .000
02796> # SWM Pond (free outlet conditions)
02797> R0102:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02798>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    2.520 No_date    6:04   27.54  n/a     .000
02799>                 out <=    1.0 01:SWMPondOut    47.41     .261 No_date    8:11   27.54  n/a     .000
02800>            overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
02801>      {MxStoUsed=.7183E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02802> # SWM Pond (pond control orifices blockage scenario)
02803> R0102:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02804>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    2.520 No_date    6:04   27.54  n/a     .000
02805>  *              out <=    1.0 01:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
02806>            overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
02807>      {MxStoUsed=.1305E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02808> R0102:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02809>     ADD HYD               1.0 02:SWMPondOut    47.41     .261 No_date    8:11   27.54  n/a     .000
02810>                   +       1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
02811>                 SUM=      1.0 01:Node_3pond    47.41     .261 No_date    8:11   27.54  n/a     .000
02812> R0102:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02813>     SAVE HYD              1.0 01:Node_3pond    47.41     .261 No_date    8:11   27.54  n/a     .000
02814>       fname :Node_3pond.0102
02815>       remark:Pond Outflow
02816> R0102:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02817>     ADD HYD               1.0 02:SWMPoutBlk    47.41     .000 No_date    0:00     .00  n/a     .000
02818>                   +       1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
02819>                 SUM=      1.0 01:Node_3pBlk    47.41     .000 No_date    0:00     .00  n/a     .000
02820> # Park Block Draining Uncontrolled to Node 3
02821> R0102:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02822>     CALIB STANDHYD        1.0 01:2A_Park         .95     .051 No_date    6:02   12.25 .275     .000
02823>       [XIMP=.11:TIMP=.21]
02824>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02825>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02826>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
02827> R0102:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02828>     ADD HYD               1.0 02:Node_3pond    47.41     .261 No_date    8:11   27.54  n/a     .000
02829>                   +       1.0 02:2A_Park         .95     .051 No_date    6:02   12.25  n/a     .000
02830>                 SUM=      1.0 01:Node_3        48.36     .261 No_date    8:10   27.24  n/a     .000
02831> R0102:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02832>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .261 No_date    8:10   27.24  n/a     .000
02833>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .250 No_date    9:02   27.24  n/a     .000
02834>       [L/S/n=  664./ .200/.035]
02835>       {Vmax=  .241:Dmax=  .122}
02836> R0102:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02837>     CALIB NASHYD          1.0 01:A-08           2.07     .012 No_date    6:49    5.21 .117     .000
02838>       [CN= 49.0: N= 3.00: Tp=  .78]
02839> R0102:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02840>     CALIB NASHYD          1.0 01:A-09           6.16     .023 No_date    7:29    5.21 .117     .000
02841>       [CN= 49.0: N= 3.00: Tp= 1.32]
02842> R0102:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02843>     CALIB NASHYD          1.0 01:A-12           7.79     .043 No_date    7:13    6.63 .149     .000
02844>       [CN= 56.0: N= 3.00: Tp= 1.11]
02845> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
02846> R0102:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02847>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .020 No_date    6:00   17.87 .402     .000
02848>       [XIMP=.26:TIMP=.36]
02849>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02850>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02851>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
02852> R0102:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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02853>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .011 No_date    6:00   17.87 .402     .000
02854>       [XIMP=.26:TIMP=.36]
02855>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02856>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02857>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
02858> R0102:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02859>     CALIB STANDHYD        1.0 01:Unc_6           .17     .013 No_date    6:00   17.87 .402     .000
02860>       [XIMP=.26:TIMP=.36]
02861>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02862>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02863>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
02864> # West Branch
02865> R0102:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02866>     CALIB NASHYD          1.0 01:A-04          18.63     .130 No_date    7:39   10.30 .232     .000
02867>       [CN= 69.0: N= 3.00: Tp= 1.47]
02868> R0102:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02869>     CALIB NASHYD          1.0 01:A-10           7.42     .033 No_date    7:43    6.85 .154     .000
02870>       [CN= 57.0: N= 3.00: Tp= 1.51]
02871> R0102:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02872>     ADD HYD               1.0 02:A-04          18.63     .130 No_date    7:39   10.30  n/a     .000
02873>                       +     1.0 02:A-10           7.42     .033 No_date    7:43    6.85  n/a     .000
02874>                   SUM=      1.0 01:Node_4        26.05     .163 No_date    7:40    9.32  n/a     .000
02875> R0102:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02876>     ROUTE CHANNEL    ->     1.0 02:Node_4        26.05     .163 No_date    7:40    9.32  n/a     .000
02877>      [RDT= 1.00] out<-     1.0 01:Node_4R       26.05     .162 No_date    7:50    9.32  n/a     .000
02878>       [L/S/n=  473./ .660/.035]
02879>       {Vmax=  .832:Dmax=  .159}
02880> R0102:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02881>     CALIB NASHYD          1.0 01:A-11           7.93     .060 No_date    7:04    8.39 .189     .000
02882>       [CN= 63.0: N= 3.00: Tp=  .99]
02883> R0102:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02884>     ADD HYD               1.0 02:Node_3R       48.36     .250 No_date    9:02   27.24  n/a     .000
02885>                       +     1.0 02:A-08           2.07     .012 No_date    6:49    5.21  n/a     .000
02886>                       +     1.0 02:A-09           6.16     .023 No_date    7:29    5.21  n/a     .000
02887>                       +     1.0 02:A-11           7.93     .060 No_date    7:04    8.39  n/a     .000
02888>                       +     1.0 02:A-12           7.79     .043 No_date    7:13    6.63  n/a     .000
02889>                       +     1.0 02:Unc_8A          .25     .020 No_date    6:00   17.87  n/a     .000
02890>                       +     1.0 02:Unc_8B          .14     .011 No_date    6:00   17.87  n/a     .000
02891>                       +     1.0 02:Unc_6           .17     .013 No_date    6:00   17.87  n/a     .000
02892>                       +     1.0 02:Node_4R       26.05     .162 No_date    7:50    9.32  n/a     .000
02893>                   SUM=      1.0 01:Outlet        98.92     .498 No_date    7:56   17.49  n/a     .000
02894> R0102:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02895>     SAVE HYD              1.0 01:Outlet        98.92     .498 No_date    7:56   17.49  n/a     .000
02896>       fname :Outlet.0102
02897>       remark:Total Outflows to Sandy Hook Road
02898>   ** END OF RUN :  104
02899>
02900> ****************************************************************************************************
02901>
02902>
02903>
02904>
02905>
02906>  RUN#:COMMAND#
02907> R0105:C00001----------------------------------------------------------------------------------------
02908>      START
02909>       [TZERO =    .00 hrs on        0]
02910>       [METOUT=   2    (1=imperial, 2=metric output)]
02911>       [NSTORM=   1 ]
02912>       [NRUN  = 0105 ]
02913> #*************************************************************************
02914> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
02915> #*************************************************************************
02916> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
02917> #  Date        : 2023-10
02918> #  Modeller    : [JB]
02919> #  Updated             : 2025-05 [PP]
02920> #  Company     : JFSA Ottawa
02921> #  License #   : 2549237
02922> #*************************************************************************
02923> # Post Development Scenario B - Upstream flows diverted through subdivision
02924> #*************************************************************************
02925> R0105:C00002----------------------------------------------------------------------------------------
02926>      READ STORM
02927>       Filename = STORM.001
02928>       Comment  = 5-Yr 12-hr SCS Storm Type II - Belleville Station
02929>       [SDT= 5.00:SDUR=  12.00:PTOT=  58.08]
02930> #*************************************************************************
02931> # POST-DEVELOPMENT CONDITIONS
02932> # Flows from upstream lands routed through subdivision
02933> #*************************************************************************
02934> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
02935> # Improvements and New Urban Retail Development - In SWMHYMO
02936> R0105:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02937>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.510 No_date    6:00   48.29 .831     .000
02938>       [XIMP=.76:TIMP=.86]
02939>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02940>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02941>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
02942> R0105:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02943>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.510 No_date    6:00   48.29  n/a     .000
02944>                  out <=   1.0 01:NodeB          8.39     .211 No_date    6:33   48.29  n/a     .000
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02945>           overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02946>      {MxStoUsed=.2487E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
02947> R0105:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02948>     ADD HYD              1.0 02:NodeB          8.39     .211 No_date    6:33   48.29  n/a     .000
02949>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
02950>                   SUM=    1.0 01:Node_1         8.39     .211 No_date    6:33   48.29  n/a     .000
02951> R0105:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02952>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .211 No_date    6:33   48.29  n/a     .000
02953>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .208 No_date    6:37   48.29  n/a     .000
02954>       [L/S/n=  327./ .920/.035]
02955>       {Vmax=  .754:Dmax=  .240}
02956> #*******************************************************************************
02957> # Replication of the OTTHYMO model for the Choice Properties REIT
02958> # development as per the November 2023 'Proposed Retails Pads B & C
02959> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
02960> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
02961> # Notes:
02962> # - DT changed from 5 min to 1 min
02963> # - Reservoir Overflows added to the downstream node for all reservoirs
02964> #*******************************************************************************
02965> # 0003
02966> #*******************************************************************************
02967> R0105:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02968>     CALIB STANDHYD       1.0 01:0003           .24     .048 No_date    6:00   52.74 .908     .000
02969>       [XIMP=.90:TIMP=.90]
02970>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02971>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02972>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
02973> #*******************************************************************************
02974> # 0002
02975> #*******************************************************************************
02976> R0105:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02977>     CALIB STANDHYD       1.0 01:0002           .07     .015 No_date    6:00   56.65 .975     .000
02978>       [XIMP=.99:TIMP=.99]
02979>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02980>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02981>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
02982> #*******************************************************************************
02983> # 0001
02984> #*******************************************************************************
02985> R0105:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02986>     CALIB STANDHYD       1.0 01:0001           .93     .180 No_date    6:00   50.58 .871     .000
02987>       [XIMP=.85:TIMP=.85]
02988>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02989>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02990>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
02991> #*******************************************************************************
02992> # 0006
02993> #*******************************************************************************
02994> R0105:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
02995>     CALIB STANDHYD       1.0 01:0006           .24     .051 No_date    6:00   56.67 .976     .000
02996>       [XIMP=.99:TIMP=.99]
02997>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
02998>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
02999>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03000> #*******************************************************************************
03001> # 0007
03002> #*******************************************************************************
03003> R0105:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03004>     CALIB STANDHYD       1.0 01:0007           .38     .076 No_date    6:00   52.74 .908     .000
03005>       [XIMP=.90:TIMP=.90]
03006>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03007>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03008>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
03009> #*******************************************************************************
03010> # 0044
03011> #*******************************************************************************
03012> R0105:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03013>     CALIB STANDHYD       1.0 01:0044           .54     .112 No_date    6:00   54.91 .945     .000
03014>       [XIMP=.95:TIMP=.95]
03015>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03016>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03017>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
03018> #*******************************************************************************
03019> # 0005
03020> #*******************************************************************************
03021> R0105:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03022>     CALIB STANDHYD       1.0 01:0005           .16     .034 No_date    6:00   56.65 .975     .000
03023>       [XIMP=.99:TIMP=.99]
03024>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03025>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03026>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
03027> #*******************************************************************************
03028> R0105:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03029>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .015 No_date    6:00   56.65  n/a     .000
03030>                 out <=    1.0 01:0111           .07     .003 No_date    6:04   56.64  n/a     .000
03031>           overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
03032>      {MxStoUsed=.2070E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03033> R0105:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03034>     ADD HYD              1.0 02:0111           .07     .003 No_date    6:04   56.64  n/a     .000
03035>                     +     1.0 02:0001           .93     .180 No_date    6:00   50.58  n/a     .000
03036>                     +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
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03037>                  SUM=     1.0 01:0101          1.00     .182 No_date    6:00   51.00  n/a     .000
03038> R0105:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03039>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .051 No_date    6:00   56.67  n/a     .000
03040>                 out <=    1.0 01:0102           .24     .003 No_date    6:40   56.66  n/a     .000
03041>           overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
03042>      {MxStoUsed=.9373E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03043> R0105:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03044>     ADD HYD               1.0 02:0007           .38     .076 No_date    6:00   52.75  n/a     .000
03045>                     +     1.0 02:0044           .54     .112 No_date    6:00   54.91  n/a     .000
03046>                  SUM=     1.0 01:0106           .92     .188 No_date    6:00   54.02  n/a     .000
03047> R0105:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03048>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .034 No_date    6:00   56.65  n/a     .000
03049>                 out <=    1.0 01:0108           .16     .002 No_date    7:00   56.65  n/a     .000
03050>           overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
03051>      {MxStoUsed=.6280E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03052> R0105:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03053>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .182 No_date    6:00   51.00  n/a     .000
03054>                 out <=    1.0 01:0100          1.00     .059 No_date    6:06   51.00  n/a     .000
03055>           overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
03056>      {MxStoUsed=.1137E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03057> R0105:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03058>     ADD HYD               1.0 02:0100          1.00     .059 No_date    6:06   51.00  n/a     .000
03059>                     +     1.0 02:0102           .24     .003 No_date    6:40   56.66  n/a     .000
03060>                     +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
03061>                     +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
03062>                  SUM=     1.0 01:0103          1.24     .062 No_date    6:09   52.10  n/a     .000
03063> R0105:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03064>     ADD HYD               1.0 02:0106           .92     .188 No_date    6:00   54.02  n/a     .000
03065>                     +     1.0 02:0108           .16     .002 No_date    7:00   56.65  n/a     .000
03066>                     +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
03067>                  SUM=     1.0 01:0107          1.08     .189 No_date    6:00   54.41  n/a     .000
03068> R0105:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03069>     ADD HYD               1.0 02:0003           .24     .048 No_date    6:00   52.74  n/a     .000
03070>                     +     1.0 02:0103          1.24     .062 No_date    6:09   52.10  n/a     .000
03071>                  SUM=     1.0 01:0104          1.48     .110 No_date    6:00   52.20  n/a     .000
03072> R0105:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03073>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .189 No_date    6:00   54.41  n/a     .000
03074>                 out <=    1.0 01:0109          1.08     .027 No_date    6:30   54.34  n/a     .000
03075>           overflow <=    1.0 03:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
03076>      {MxStoUsed=.3635E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03077> R0105:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03078>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .110 No_date    6:00   52.20  n/a     .000
03079>                 out <=    1.0 01:0105          1.48     .064 No_date    6:36   52.14  n/a     .000
03080>           overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
03081>      {MxStoUsed=.3910E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03082> R0105:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03083>     ADD HYD               1.0 02:0105          1.48     .064 No_date    6:36   52.14  n/a     .000
03084>                     +     1.0 02:0109          1.08     .027 No_date    6:30   54.34  n/a     .000
03085>                     +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
03086>                     +     1.0 02:0109ovf        .00     .000 No_date    0:00     .00  n/a     .000
03087>                  SUM=     1.0 01:0110          2.56     .090 No_date    6:32   53.07  n/a     .000
03088> # End of the replicated OTTHYMO model
03089> #*****************************************************************************
03090> R0105:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03091>     CALIB NASHYD          1.0 01:A-03E          5.05     .161 No_date    6:37   24.40 .420     .000
03092>       [CN= 80.0: N= 3.00: Tp=  .65]
03093> R0105:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03094>     CALIB NASHYD          1.0 01:A-03W          1.18     .038 No_date    6:34   23.59 .406     .000
03095>       [CN= 79.0: N= 3.00: Tp=  .60]
03096> R0105:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03097>     CALIB NASHYD          1.0 01:A-05E          1.07     .014 No_date    7:30   18.74 .323     .000
03098>       [CN= 72.0: N= 3.00: Tp= 1.38]
03099> R0105:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03100>     CALIB NASHYD          1.0 01:A-05W           .23     .004 No_date    7:06   18.14 .312     .000
03101>       [CN= 71.0: N= 3.00: Tp= 1.05]
03102> R0105:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03103>     ADD HYD               1.0 02:A-03E          5.05     .161 No_date    6:37   24.40  n/a     .000
03104>                     +     1.0 02:A-03W          1.18     .038 No_date    6:34   23.59  n/a     .000
03105>                     +     1.0 02:A-05W           .23     .004 No_date    7:06   18.14  n/a     .000
03106>                     +     1.0 02:A-05E          1.07     .014 No_date    7:30   18.74  n/a     .000
03107>                     +     1.0 02:Node_1R        8.39     .208 No_date    6:37   48.29  n/a     .000
03108>                     +     1.0 02:0110           2.56     .090 No_date    6:32   53.07  n/a     .000
03109>                  SUM=     1.0 01:Node_2        18.48     .508 No_date    6:35   38.74  n/a     .000
03110> # Into SWM Pond via pipe
03111> R0105:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03112>     ROUTE PIPE      ->    1.0 02:Node_2        18.48     .508 No_date    6:35   38.74  n/a     .000
03113>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .499 No_date    6:42   38.74  n/a     .000
03114>       [L/S/n=  593./ .500/.013]
03115>       {Vmax= 1.820:Dmax=  .522}
03116>       [Din=  .00:Dused=  .64}
03117> # Cold Creek Subdivision
03118> R0105:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03119>     CALIB STANDHYD        1.0 01:Dev           26.81    3.456 No_date    6:03   38.05 .655     .000
03120>       [XIMP=.53:TIMP=.63]
03121>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03122>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03123>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
03124> R0105:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03125>     CALIB STANDHYD        1.0 01:Pond          1.87     .270 No_date    6:00   32.51 .560     .000
03126>       [XIMP=.40:TIMP=.50]
03127>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03128>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
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03129>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
03130> R0105:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03131>     ADD HYD              1.0 02:Dev          26.81    3.456 No_date    6:03   38.05  n/a     .000
03132>                    +     1.0 02:Pond          1.87     .270 No_date    6:00   32.51  n/a     .000
03133>                  SUM=    1.0 01:Dev&Pond     28.68    3.680 No_date    6:03   37.69  n/a     .000
03134> #*************************************************************************
03135> # Existing Gas Station Pad (to proposed SWM Pond)
03136> R0105:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03137>     CALIB STANDHYD       1.0 01:EXT4B          .25     .050 No_date    6:00   51.34 .884     .000
03138>       [XIMP=.83:TIMP=.93]
03139>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03140>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03141>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
03142> #*************************************************************************
03143> R0105:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03144>     ADD HYD              1.0 02:Dev          26.81    3.456 No_date    6:03   38.05  n/a     .000
03145>                    +     1.0 02:Pond          1.87     .270 No_date    6:00   32.51  n/a     .000
03146>                    +     1.0 02:EXT4B          .25     .050 No_date    6:00   51.34  n/a     .000
03147>                  SUM=    1.0 01:DevPondGas   28.93    3.710 No_date    6:02   37.80  n/a     .000
03148> R0105:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03149>     ADD HYD              1.0 02:Dev&Pond     28.68    3.680 No_date    6:03   37.69  n/a     .000
03150>                    +     1.0 02:Node_2R      18.48     .499 No_date    6:42   38.74  n/a     .000
03151>                    +     1.0 02:EXT4B          .25     .050 No_date    6:00   51.34  n/a     .000
03152>                  SUM=    1.0 01:SWMPondIn    47.41    3.850 No_date    6:03   38.16  n/a     .000
03153> # SWM Pond (free outlet conditions)
03154> R0105:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03155>     ROUTE RESERVOIR ->   1.0 02:SWMPondIn    47.41    3.850 No_date    6:03   38.16  n/a     .000
03156>                  out <=  1.0 01:SWMPondOut   47.41     .444 No_date    7:44   38.16  n/a     .000
03157>            overflow <=   1.0 03:SWMPondOvf     .00     .000 No_date    0:00     .00  n/a     .000
03158>      {MxStoUsed=.9734E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03159> # SWM Pond (pond control orifices blockage scenario)
03160> R0105:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03161>     ROUTE RESERVOIR ->   1.0 02:SWMPondIn    47.41    3.850 No_date    6:03   38.16  n/a     .000
03162>  *              out <=  1.0 01:SWMPoutBlk   47.41     .000 No_date    0:00     .00  n/a     .000
03163>            overflow <=   1.0 03:SWMPovfBlk     .00     .000 No_date    0:00     .00  n/a     .000
03164>      {MxStoUsed=.1809E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03165> R0105:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03166>     ADD HYD              1.0 02:SWMPondOut   47.41     .444 No_date    7:44   38.16  n/a     .000
03167>                    +     1.0 02:SWMPondOvf     .00     .000 No_date    0:00     .00  n/a     .000
03168>                  SUM=    1.0 01:Node_3pond   47.41     .444 No_date    7:44   38.16  n/a     .000
03169> R0105:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03170>     SAVE HYD             1.0 01:Node_3pond   47.41     .444 No_date    7:44   38.16  n/a     .000
03171>       fname :Node_3pond.0105
03172>       remark:Pond Outflow
03173> R0105:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03174>     ADD HYD              1.0 02:SWMPoutBlk   47.41     .000 No_date    0:00     .00  n/a     .000
03175>                    +     1.0 02:SWMPovfBlk     .00     .000 No_date    0:00     .00  n/a     .000
03176>                  SUM=    1.0 01:Node_3pBlk   47.41     .000 No_date    0:00     .00  n/a     .000
03177> # Park Block Draining Uncontrolled to Node 3
03178> R0105:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03179>     CALIB STANDHYD       1.0 01:2A_Park        .95     .102 No_date    6:02   19.57 .337     .000
03180>       [XIMP=.11:TIMP=.21]
03181>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03182>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03183>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
03184> R0105:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03185>     ADD HYD              1.0 02:Node_3pond   47.41     .444 No_date    7:44   38.16  n/a     .000
03186>                    +     1.0 02:2A_Park        .95     .102 No_date    6:02   19.57  n/a     .000
03187>                  SUM=    1.0 01:Node_3       48.36     .445 No_date    7:44   37.80  n/a     .000
03188> R0105:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03189>     ROUTE CHANNEL   ->   1.0 02:Node_3       48.36     .445 No_date    7:44   37.80  n/a     .000
03190>      [RDT= 1.00] out<-   1.0 01:Node_3R      48.36     .428 No_date    8:32   37.80  n/a     .000
03191>       [L/S/n=  664./ .200/.035]
03192>       {Vmax=  .278:Dmax=  .160}
03193> R0105:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03194>     CALIB NASHYD         1.0 01:A-08          2.07     .020 No_date    6:48    8.98 .155     .000
03195>       [CN= 49.0: N= 3.00: Tp=  .78]
03196> R0105:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03197>     CALIB NASHYD         1.0 01:A-09          6.16     .040 No_date    7:27    8.98 .155     .000
03198>       [CN= 49.0: N= 3.00: Tp= 1.32]
03199> R0105:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03200>     CALIB NASHYD         1.0 01:A-12          7.79     .074 No_date    7:12   11.28 .194     .000
03201>       [CN= 56.0: N= 3.00: Tp= 1.11]
03202> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
03203> R0105:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03204>     CALIB STANDHYD       1.0 01:Unc_8A         .25     .034 No_date    6:00   26.29 .453     .000
03205>       [XIMP=.26:TIMP=.36]
03206>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03207>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03208>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
03209> R0105:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03210>     CALIB STANDHYD       1.0 01:Unc_8B         .14     .019 No_date    6:00   26.29 .453     .000
03211>       [XIMP=.26:TIMP=.36]
03212>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03213>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03214>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
03215> R0105:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03216>     CALIB STANDHYD       1.0 01:Unc_6          .17     .023 No_date    6:00   26.29 .453     .000
03217>       [XIMP=.26:TIMP=.36]
03218>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03219>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03220>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
```

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03221> # West Branch
03222> R0105:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03223>     CALIB NASHYD          1.0 01:A-04          18.63     .218 No_date    7:37   17.03 .293     .000
03224>       [CN= 69.0: N= 3.00: Tp= 1.47]
03225> R0105:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03226>     CALIB NASHYD          1.0 01:A-10           7.42     .057 No_date    7:41   11.64 .200     .000
03227>       [CN= 57.0: N= 3.00: Tp= 1.51]
03228> R0105:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03229>     ADD HYD               1.0 02:A-04          18.63     .218 No_date    7:37   17.03  n/a     .000
03230>                     +     1.0 02:A-10           7.42     .057 No_date    7:41   11.64  n/a     .000
03231>                   SUM=    1.0 01:Node_4        26.05     .275 No_date    7:38   15.49  n/a     .000
03232> R0105:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03233>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .275 No_date    7:38   15.49  n/a     .000
03234>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .273 No_date    7:48   15.49  n/a     .000
03235>       [L/S/n=  473./ .660/.035]
03236>       {Vmax=  .834:Dmax=  .265}
03237> R0105:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03238>     CALIB NASHYD          1.0 01:A-11           7.93     .103 No_date    7:02   14.08 .242     .000
03239>       [CN= 63.0: N= 3.00: Tp=  .99]
03240> R0105:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03241>     ADD HYD               1.0 02:Node_3R       48.36     .428 No_date    8:32   37.80  n/a     .000
03242>                     +     1.0 02:A-08           2.07     .020 No_date    6:48    8.98  n/a     .000
03243>                     +     1.0 02:A-09           6.16     .040 No_date    7:27    8.98  n/a     .000
03244>                     +     1.0 02:A-11           7.93     .103 No_date    7:02   14.08  n/a     .000
03245>                     +     1.0 02:A-12           7.79     .074 No_date    7:12   11.28  n/a     .000
03246>                     +     1.0 02:Unc_8A          .25     .034 No_date    6:00   26.29  n/a     .000
03247>                     +     1.0 02:Unc_8B          .14     .019 No_date    6:00   26.29  n/a     .000
03248>                     +     1.0 02:Unc_6           .17     .023 No_date    6:00   26.29  n/a     .000
03249>                     +     1.0 02:Node_4R       26.05     .273 No_date    7:48   15.49  n/a     .000
03250>                   SUM=    1.0 01:Outlet        98.92     .880 No_date    7:42   25.47  n/a     .000
03251> R0105:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03252>     SAVE HYD              1.0 01:Outlet        98.92     .880 No_date    7:42   25.47  n/a     .000
03253>       fname :Outlet.0105
03254>       remark:Total Outflows to Sandy Hook Road
03255>   ** END OF RUN :  109
03256>
03257> ************************************************************************************************
03258>
03259>
03260>
03261>
03262>
03263>  RUN#:COMMAND#
03264> R0110:C00001------------------------------------------------------------------------------------
03265>      START
03266>       [TZERO =    .00 hrs on        0]
03267>       [METOUT=   2    (1=imperial, 2=metric output)]
03268>       [NSTORM=   1 ]
03269>       [NRUN  = 0110 ]
03270> #*****************************************************************************
03271> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
03272> #*****************************************************************************
03273> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
03274> #  Date        : 2023-10
03275> #  Modeller    : [JB]
03276> #  Updated             : 2025-05 [PP]
03277> #  Company     : JFSA Ottawa
03278> #  License #   : 2549237
03279> #*****************************************************************************
03280> # Post Development Scenario B - Upstream flows diverted through subdivision
03281> #*****************************************************************************
03282> R0110:C00002------------------------------------------------------------------------------------
03283>      READ STORM
03284>       Filename = STORM.001
03285>       Comment  = 10-Yr 12-hr SCS Storm Type II - Belleville Station
03286>       [SDT= 5.00:SDUR=  12.00:PTOT=  67.19]
03287> #*****************************************************************************
03288> # POST-DEVELOPMENT CONDITIONS
03289> # Flows from upstream lands routed through subdivision
03290> #*****************************************************************************
03291> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
03292> # Improvements and New Urban Retail Development - In SWMHYMO
03293> R0110:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03294>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    1.791 No_date    6:00   56.61 .842     .000
03295>       [XIMP=.76:TIMP=.86]
03296>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03297>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03298>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
03299> R0110:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03300>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    1.791 No_date    6:00   56.61  n/a     .000
03301>                 out <=    1.0 01:NodeB          8.39     .285 No_date    6:29   56.61  n/a     .000
03302>           overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
03303>      {MxStoUsed=.2846E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03304> R0110:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03305>     ADD HYD               1.0 02:NodeB          8.39     .285 No_date    6:29   56.61  n/a     .000
03306>                     +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
03307>                   SUM=    1.0 01:Node_1         8.39     .285 No_date    6:29   56.61  n/a     .000
03308> R0110:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03309>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .285 No_date    6:29   56.61  n/a     .000
03310>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .283 No_date    6:35   56.61  n/a     .000
03311>       [L/S/n=  327./ .920/.035]
03312>       {Vmax=  .815:Dmax=  .274}
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03313> #*******************************************************************************
03314> # Replication of the OTTHYMO model for the Choice Properties REIT
03315> # development as per the November 2023 'Proposed Retails Pads B & C
03316> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
03317> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
03318> # Notes:
03319> # - DT changed from 5 min to 1 min
03320> # - Reservoir Overflows added to the downstream node for all reservoirs
03321> #*******************************************************************************
03322> # 0003
03323> #*******************************************************************************
03324> R0110:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03325>     CALIB STANDHYD        1.0 01:0003            .24     .056 No_date    6:00   61.35 .913     .000
03326>       [XIMP=.90:TIMP=.90]
03327>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03328>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03329>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03330> #*******************************************************************************
03331> # 0002
03332> #*******************************************************************************
03333> R0110:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03334>     CALIB STANDHYD        1.0 01:0002            .07     .017 No_date    6:00   65.72 .978     .000
03335>       [XIMP=.99:TIMP=.99]
03336>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03337>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03338>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
03339> #*******************************************************************************
03340> # 0001
03341> #*******************************************************************************
03342> R0110:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03343>     CALIB STANDHYD        1.0 01:0001            .93     .211 No_date    6:00   58.93 .877     .000
03344>       [XIMP=.85:TIMP=.85]
03345>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03346>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03347>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
03348> #*******************************************************************************
03349> # 0006
03350> #*******************************************************************************
03351> R0110:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03352>     CALIB STANDHYD        1.0 01:0006            .24     .059 No_date    6:00   65.74 .978     .000
03353>       [XIMP=.99:TIMP=.99]
03354>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03355>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03356>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03357> #*******************************************************************************
03358> # 0007
03359> #*******************************************************************************
03360> R0110:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03361>     CALIB STANDHYD        1.0 01:0007            .38     .089 No_date    6:00   61.35 .913     .000
03362>       [XIMP=.90:TIMP=.90]
03363>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03364>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03365>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
03366> #*******************************************************************************
03367> # 0044
03368> #*******************************************************************************
03369> R0110:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03370>     CALIB STANDHYD        1.0 01:0044            .54     .130 No_date    6:00   63.77 .949     .000
03371>       [XIMP=.95:TIMP=.95]
03372>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03373>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03374>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
03375> #*******************************************************************************
03376> # 0005
03377> #*******************************************************************************
03378> R0110:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03379>     CALIB STANDHYD        1.0 01:0005            .16     .039 No_date    6:00   65.73 .978     .000
03380>       [XIMP=.99:TIMP=.99]
03381>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03382>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03383>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
03384> #*******************************************************************************
03385> R0110:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03386>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .017 No_date    6:00   65.72  n/a     .000
03387>                   out <=    1.0 01:0111            .07     .003 No_date    6:03   65.72  n/a     .000
03388>             overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03389>      {MxStoUsed=.2394E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03390> R0110:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03391>     ADD HYD               1.0 02:0111            .07     .003 No_date    6:03   65.72  n/a     .000
03392>                     +     1.0 02:0001            .93     .211 No_date    6:00   58.93  n/a     .000
03393>                     +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03394>                   SUM=    1.0 01:0101           1.00     .214 No_date    6:00   59.41  n/a     .000
03395> R0110:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03396>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .059 No_date    6:00   65.74  n/a     .000
03397>                   out <=    1.0 01:0102            .24     .004 No_date    6:37   65.74  n/a     .000
03398>             overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
03399>      {MxStoUsed=.1085E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03400> R0110:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03401>     ADD HYD               1.0 02:0007            .38     .089 No_date    6:00   61.35  n/a     .000
03402>                     +     1.0 02:0044            .54     .130 No_date    6:00   63.77  n/a     .000
03403>                   SUM=    1.0 01:0106            .92     .218 No_date    6:00   62.77  n/a     .000
03404> R0110:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
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03405>     ROUTE RESERVOIR ->    1.0 02:0005            .16      .039 No_date    6:00   65.73  n/a      .000
03406>                 out <=    1.0 01:0108            .16      .002 No_date    7:00   65.72  n/a      .000
03407>             overflow <=    1.0 03:0108ovf         .00      .000 No_date    0:00     .00  n/a      .000
03408>      {MxStoUsed=.7266E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03409> R0110:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03410>     ROUTE RESERVOIR ->    1.0 02:0101           1.00      .214 No_date    6:00   59.41  n/a      .000
03411>                 out <=    1.0 01:0100           1.00      .059 No_date    6:07   59.41  n/a      .000
03412>             overflow <=    1.0 03:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
03413>      {MxStoUsed=.1489E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03414> R0110:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03415>     ADD HYD               1.0 02:0100           1.00      .059 No_date    6:07   59.41  n/a      .000
03416>                     +     1.0 02:0102            .24      .004 No_date    6:37   65.74  n/a      .000
03417>                     +     1.0 02:0100ovf         .00      .000 No_date    0:00     .00  n/a      .000
03418>                     +     1.0 02:0102ovf         .00      .000 No_date    0:00     .00  n/a      .000
03419>                   SUM=    1.0 01:0103           1.24      .063 No_date    6:12   60.63  n/a      .000
03420> R0110:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03421>     ADD HYD               1.0 02:0106            .92      .218 No_date    6:00   62.77  n/a      .000
03422>                     +     1.0 02:0108            .16      .002 No_date    7:00   65.72  n/a      .000
03423>                     +     1.0 02:0108ovf         .00      .000 No_date    0:00     .00  n/a      .000
03424>                   SUM=    1.0 01:0107           1.08      .220 No_date    6:00   63.21  n/a      .000
03425> R0110:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03426>     ADD HYD               1.0 02:0003            .24      .056 No_date    6:00   61.35  n/a      .000
03427>                     +     1.0 02:0103           1.24      .063 No_date    6:12   60.63  n/a      .000
03428>                   SUM=    1.0 01:0104           1.48      .119 No_date    6:00   60.75  n/a      .000
03429> R0110:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03430>     ROUTE RESERVOIR ->    1.0 02:0107           1.08      .220 No_date    6:00   63.21  n/a      .000
03431>                 out <=    1.0 01:0109           1.08      .073 No_date    6:04   63.14  n/a      .000
03432>             overflow <=    1.0 03:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
03433>      {MxStoUsed=.3864E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03434> R0110:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03435>     ROUTE RESERVOIR ->    1.0 02:0104           1.48      .119 No_date    6:00   60.75  n/a      .000
03436>                 out <=    1.0 01:0105           1.48      .070 No_date    6:31   60.70  n/a      .000
03437>             overflow <=    1.0 03:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
03438>      {MxStoUsed=.3924E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03439> R0110:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03440>     ADD HYD               1.0 02:0105           1.48      .070 No_date    6:31   60.70  n/a      .000
03441>                     +     1.0 02:0109           1.08      .073 No_date    6:04   63.14  n/a      .000
03442>                     +     1.0 02:0105ovf         .00      .000 No_date    0:00     .00  n/a      .000
03443>                     +     1.0 02:0109ovf         .00      .000 No_date    0:00     .00  n/a      .000
03444>                   SUM=    1.0 01:0110           2.56      .106 No_date    6:24   61.72  n/a      .000
03445> # End of the replicated OTTHYMO model
03446> #*****************************************************************************
03447> R0110:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03448>     CALIB NASHYD          1.0 01:A-03E          5.05      .206 No_date    6:37   31.02 .462      .000
03449>       [CN= 80.0: N= 3.00: Tp=  .65]
03450> R0110:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03451>     CALIB NASHYD          1.0 01:A-03W          1.18      .049 No_date    6:33   30.06 .447      .000
03452>       [CN= 79.0: N= 3.00: Tp=  .60]
03453> R0110:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03454>     CALIB NASHYD          1.0 01:A-05E          1.07      .019 No_date    7:29   24.24 .361      .000
03455>       [CN= 72.0: N= 3.00: Tp= 1.38]
03456> R0110:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03457>     CALIB NASHYD          1.0 01:A-05W           .23      .005 No_date    7:05   23.51 .350      .000
03458>       [CN= 71.0: N= 3.00: Tp= 1.05]
03459> R0110:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03460>     ADD HYD               1.0 02:A-03E          5.05      .206 No_date    6:37   31.02  n/a      .000
03461>                     +     1.0 02:A-03W          1.18      .049 No_date    6:33   30.06  n/a      .000
03462>                     +     1.0 02:A-05W           .23      .005 No_date    7:05   23.51  n/a      .000
03463>                     +     1.0 02:A-05E          1.07      .019 No_date    7:29   24.24  n/a      .000
03464>                     +     1.0 02:Node_1R        8.39      .283 No_date    6:35   56.61  n/a      .000
03465>                     +     1.0 02:0110           2.56      .106 No_date    6:24   61.72  n/a      .000
03466>                   SUM=    1.0 01:Node_2        18.48      .655 No_date    6:32   46.33  n/a      .000
03467> # Into SWM Pond via pipe
03468> R0110:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03469>     ROUTE PIPE      ->    1.0 02:Node_2        18.48      .655 No_date    6:32   46.33  n/a      .000
03470>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48      .646 No_date    6:38   46.33  n/a      .000
03471>       [L/S/n=  593./ .500/.013]
03472>       {Vmax= 1.939:Dmax=  .574}
03473>       [Din=  .00:Dused=  .70}
03474> # Cold Creek Subdivision
03475> R0110:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03476>     CALIB STANDHYD        1.0 01:Dev           26.81    4.266 No_date    6:03   45.53 .678      .000
03477>       [XIMP=.53:TIMP=.63]
03478>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03479>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03480>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
03481> R0110:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03482>     CALIB STANDHYD        1.0 01:Pond           1.87      .336 No_date    6:00   39.24 .584      .000
03483>       [XIMP=.40:TIMP=.50]
03484>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03485>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03486>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
03487> R0110:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03488>     ADD HYD               1.0 02:Dev           26.81    4.266 No_date    6:03   45.53  n/a      .000
03489>                     +     1.0 02:Pond           1.87      .336 No_date    6:00   39.24  n/a      .000
03490>                   SUM=    1.0 01:Dev&Pond      28.68    4.554 No_date    6:02   45.12  n/a      .000
03491> #*****************************************************************************
03492> # Existing Gas Station Pad (to proposed SWM Pond)
03493> R0110:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03494>     CALIB STANDHYD        1.0 01:EXT4B           .25      .059 No_date    6:00   59.90 .891      .000
03495>       [XIMP=.83:TIMP=.93]
03496>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
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03497>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03498>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
03499> #*******************************************************************
03500> R0110:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03501>     ADD HYD               1.0 02:Dev           26.81    4.266 No_date    6:03   45.53  n/a     .000
03502>                     +     1.0 02:Pond           1.87     .336 No_date    6:00   39.24  n/a     .000
03503>                     +     1.0 02:EXT4B           .25     .059 No_date    6:00   59.90  n/a     .000
03504>                   SUM=    1.0 01:DevPondGas    28.93    4.590 No_date    6:02   45.24  n/a     .000
03505> R0110:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03506>     ADD HYD               1.0 02:Dev&Pond      28.68    4.554 No_date    6:02   45.12  n/a     .000
03507>                     +     1.0 02:Node_2R       18.48     .646 No_date    6:38   46.33  n/a     .000
03508>                     +     1.0 02:EXT4B           .25     .059 No_date    6:00   59.90  n/a     .000
03509>                   SUM=    1.0 01:SWMPondIn     47.41    4.790 No_date    6:03   45.66  n/a     .000
03510> # SWM Pond (free outlet conditions)
03511> R0110:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03512>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    4.790 No_date    6:03   45.66  n/a     .000
03513>                   out <=  1.0 01:SWMPondOut    47.41     .640 No_date    7:23   45.66  n/a     .000
03514>            overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
03515>      {MxStoUsed=.1159E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03516> # SWM Pond (pond control orifices blockage scenario)
03517> R0110:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03518>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    4.790 No_date    6:03   45.66  n/a     .000
03519>  *                  out <=  1.0 01:SWMPoutBlk    47.41     .111 No_date   12:18    6.01  n/a     .000
03520>            overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
03521>      {MxStoUsed=.1931E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03522> R0110:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03523>     ADD HYD               1.0 02:SWMPondOut    47.41     .640 No_date    7:23   45.66  n/a     .000
03524>                     +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
03525>                   SUM=    1.0 01:Node_3pond    47.41     .640 No_date    7:23   45.66  n/a     .000
03526> R0110:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03527>     SAVE HYD              1.0 01:Node_3pond    47.41     .640 No_date    7:23   45.66  n/a     .000
03528>       fname :Node_3pond.0110
03529>       remark:Pond Outflow
03530> R0110:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03531>     ADD HYD               1.0 02:SWMPoutBlk    47.41     .111 No_date   12:18    6.01  n/a     .000
03532>                     +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
03533>                   SUM=    1.0 01:Node_3pBlk    47.41     .111 No_date   12:18    6.01  n/a     .000
03534> # Park Block Draining Uncontrolled to Node 3
03535> R0110:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03536>     CALIB STANDHYD        1.0 01:2A_Park         .95     .138 No_date    6:01   25.35 .377     .000
03537>       [XIMP=.11:TIMP=.21]
03538>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03539>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03540>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
03541> R0110:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03542>     ADD HYD               1.0 02:Node_3pond    47.41     .640 No_date    7:23   45.66  n/a     .000
03543>                     +     1.0 02:2A_Park         .95     .138 No_date    6:01   25.35  n/a     .000
03544>                   SUM=    1.0 01:Node_3        48.36     .641 No_date    7:23   45.26  n/a     .000
03545> R0110:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03546>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .641 No_date    7:23   45.26  n/a     .000
03547>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .602 No_date    8:08   45.26  n/a     .000
03548>       [L/S/n=  664./ .200/.035]
03549>       {Vmax=  .303:Dmax=  .190}
03550> R0110:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03551>     CALIB NASHYD          1.0 01:A-08           2.07     .027 No_date    6:48   11.96 .178     .000
03552>       [CN= 49.0: N= 3.00: Tp=  .78]
03553> R0110:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03554>     CALIB NASHYD          1.0 01:A-09           6.16     .054 No_date    7:27   11.96 .178     .000
03555>       [CN= 49.0: N= 3.00: Tp= 1.32]
03556> R0110:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03557>     CALIB NASHYD          1.0 01:A-12           7.79     .098 No_date    7:11   14.92 .222     .000
03558>       [CN= 56.0: N= 3.00: Tp= 1.11]
03559> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
03560> R0110:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03561>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .043 No_date    6:00   32.51 .484     .000
03562>       [XIMP=.26:TIMP=.36]
03563>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03564>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03565>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
03566> R0110:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03567>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .025 No_date    6:00   32.51 .484     .000
03568>       [XIMP=.26:TIMP=.36]
03569>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03570>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03571>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
03572> R0110:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03573>     CALIB STANDHYD        1.0 01:Unc_6           .17     .029 No_date    6:00   32.51 .484     .000
03574>       [XIMP=.26:TIMP=.36]
03575>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03576>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03577>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
03578> # West Branch
03579> R0110:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03580>     CALIB NASHYD          1.0 01:A-04          18.63     .286 No_date    7:36   22.13 .329     .000
03581>       [CN= 69.0: N= 3.00: Tp= 1.47]
03582> R0110:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03583>     CALIB NASHYD          1.0 01:A-10           7.42     .076 No_date    7:41   15.38 .229     .000
03584>       [CN= 57.0: N= 3.00: Tp= 1.51]
03585> R0110:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03586>     ADD HYD               1.0 02:A-04          18.63     .286 No_date    7:36   22.13  n/a     .000
03587>                     +     1.0 02:A-10           7.42     .076 No_date    7:41   15.38  n/a     .000
03588>                   SUM=    1.0 01:Node_4        26.05     .362 No_date    7:37   20.21  n/a     .000
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03589> R0110:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03590>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .362 No_date    7:37   20.21  n/a     .000
03591>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .359 No_date    7:45   20.21  n/a     .000
03592>       [L/S/n=  473./ .660/.035]
03593>       {Vmax=  .869:Dmax=  .300}
03594> R0110:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03595>     CALIB NASHYD         1.0 01:A-11           7.93     .136 No_date    7:02   18.47 .275     .000
03596>       [CN= 63.0: N= 3.00: Tp=  .99]
03597> R0110:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03598>     ADD HYD              1.0 02:Node_3R       48.36     .602 No_date    8:08   45.26  n/a     .000
03599>                    +     1.0 02:A-08           2.07     .027 No_date    6:48   11.96  n/a     .000
03600>                    +     1.0 02:A-09           6.16     .054 No_date    7:27   11.96  n/a     .000
03601>                    +     1.0 02:A-11           7.93     .136 No_date    7:02   18.47  n/a     .000
03602>                    +     1.0 02:A-12           7.79     .098 No_date    7:11   14.92  n/a     .000
03603>                    +     1.0 02:Unc_8A          .25     .043 No_date    6:00   32.51  n/a     .000
03604>                    +     1.0 02:Unc_8B          .14     .025 No_date    6:00   32.51  n/a     .000
03605>                    +     1.0 02:Unc_6           .17     .029 No_date    6:00   32.51  n/a     .000
03606>                    +     1.0 02:Node_4R       26.05     .359 No_date    7:45   20.21  n/a     .000
03607>                  SUM=    1.0 01:Outlet        98.92    1.216 No_date    7:40   31.27  n/a     .000
03608> R0110:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03609>     SAVE HYD             1.0 01:Outlet        98.92    1.216 No_date    7:40   31.27  n/a     .000
03610>       fname :Outlet.0110
03611>       remark:Total Outflows to Sandy Hook Road
03612>   ** END OF RUN :  124
03613>
03614> ************************************************************************************************
03615>
03616>
03617>
03618>
03619>
03620>  RUN#:COMMAND#
03621> R0125:C00001------------------------------------------------------------------------------------------
03622>      START
03623>       [TZERO =    .00 hrs on        0]
03624>       [METOUT=   2    (1=imperial, 2=metric output)]
03625>       [NSTORM=   1 ]
03626>       [NRUN  = 0125 ]
03627> #*****************************************************************************
03628> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
03629> #*****************************************************************************
03630> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
03631> #  Date        : 2023-10
03632> #  Modeller    : [JB]
03633> #  Updated             : 2025-05 [PP]
03634> #  Company     : JFSA Ottawa
03635> #  License #   : 2549237
03636> #*****************************************************************************
03637> # Post Development Scenario B - Upstream flows diverted through subdivision
03638> #*****************************************************************************
03639> R0125:C00002------------------------------------------------------------------------------------------
03640>      READ STORM
03641>       Filename = STORM.001
03642>       Comment  = 25-Yr 12-hr SCS Storm Type II - Belleville Station
03643>       [SDT= 5.00:SDUR=  12.00:PTOT=  78.58]
03644> #*****************************************************************************
03645> # POST-DEVELOPMENT CONDITIONS
03646> # Flows from upstream lands routed through subdivision
03647> #*****************************************************************************
03648> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
03649> # Improvements and New Urban Retail Development - In SWMHYMO
03650> R0125:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03651>     CALIB STANDHYD       1.0 01:HIGHWAY33      8.39    2.149 No_date    6:00   66.83 .850     .000
03652>       [XIMP=.76:TIMP=.86]
03653>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03654>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03655>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
03656> R0125:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03657>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.149 No_date    6:00   66.83  n/a     .000
03658>                  out <=   1.0 01:NodeB         8.39     .393 No_date    6:21   66.83  n/a     .000
03659>            overflow <=    1.0 03:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
03660>      {MxStoUsed=.3283E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03661> R0125:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03662>     ADD HYD              1.0 02:NodeB          8.39     .393 No_date    6:21   66.83  n/a     .000
03663>                    +     1.0 02:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
03664>                  SUM=    1.0 01:Node_1         8.39     .393 No_date    6:21   66.83  n/a     .000
03665> R0125:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03666>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .393 No_date    6:21   66.83  n/a     .000
03667>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .388 No_date    6:30   66.83  n/a     .000
03668>       [L/S/n=  327./ .920/.035]
03669>       {Vmax=  .886:Dmax=  .317}
03670> #*****************************************************************************
03671> # Replication of the OTTHYMO model for the Choice Properties REIT
03672> # development as per the November 2023 'Proposed Retails Pads B & C
03673> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
03674> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
03675> # Notes:
03676> # - DT changed from 5 min to 1 min
03677> # - Reservoir Overflows added to the downstream node for all reservoirs
03678> #*****************************************************************************
03679> # 0003
03680> #*****************************************************************************
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03681> R0125:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03682>     CALIB STANDHYD        1.0 01:0003            .24     .066 No_date    6:00   72.27 .920     .000
03683>       [XIMP=.90:TIMP=.90]
03684>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03685>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03686>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03687> #*******************************************************************************
03688> # 0002
03689> #*******************************************************************************
03690> R0125:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03691>     CALIB STANDHYD        1.0 01:0002            .07     .020 No_date    6:00   77.06 .981     .000
03692>       [XIMP=.99:TIMP=.99]
03693>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03694>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03695>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
03696> #*******************************************************************************
03697> # 0001
03698> #*******************************************************************************
03699> R0125:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03700>     CALIB STANDHYD        1.0 01:0001            .93     .250 No_date    6:00   69.62 .886     .000
03701>       [XIMP=.85:TIMP=.85]
03702>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03703>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03704>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
03705> #*******************************************************************************
03706> # 0006
03707> #*******************************************************************************
03708> R0125:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03709>     CALIB STANDHYD        1.0 01:0006            .24     .069 No_date    6:00   77.06 .981     .000
03710>       [XIMP=.99:TIMP=.99]
03711>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03712>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03713>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
03714> #*******************************************************************************
03715> # 0007
03716> #*******************************************************************************
03717> R0125:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03718>     CALIB STANDHYD        1.0 01:0007            .38     .105 No_date    6:00   72.28 .920     .000
03719>       [XIMP=.90:TIMP=.90]
03720>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03721>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03722>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
03723> #*******************************************************************************
03724> # 0044
03725> #*******************************************************************************
03726> R0125:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03727>     CALIB STANDHYD        1.0 01:0044            .54     .152 No_date    6:00   74.93 .954     .000
03728>       [XIMP=.95:TIMP=.95]
03729>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03730>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03731>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
03732> #*******************************************************************************
03733> # 0005
03734> #*******************************************************************************
03735> R0125:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03736>     CALIB STANDHYD        1.0 01:0005            .16     .046 No_date    6:00   77.06 .981     .000
03737>       [XIMP=.99:TIMP=.99]
03738>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03739>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03740>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
03741> #*******************************************************************************
03742> R0125:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03743>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .020 No_date    6:00   77.06  n/a     .000
03744>                   out <=    1.0 01:0111            .07     .004 No_date    6:03   77.06  n/a     .000
03745>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03746>      {MxStoUsed=.2790E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03747> R0125:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03748>     ADD HYD               1.0 02:0111            .07     .004 No_date    6:03   77.06  n/a     .000
03749>                       +     1.0 02:0001            .93     .250 No_date    6:00   69.62  n/a     .000
03750>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
03751>                     SUM=    1.0 01:0101           1.00     .254 No_date    6:00   70.14  n/a     .000
03752> R0125:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03753>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .069 No_date    6:00   77.06  n/a     .000
03754>                   out <=    1.0 01:0102            .24     .004 No_date    6:36   77.06  n/a     .000
03755>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
03756>       {MxStoUsed=.1271E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03757> R0125:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03758>     ADD HYD               1.0 02:0007            .38     .105 No_date    6:00   72.28  n/a     .000
03759>                       +     1.0 02:0044            .54     .152 No_date    6:00   74.93  n/a     .000
03760>                     SUM=    1.0 01:0106            .92     .257 No_date    6:00   73.84  n/a     .000
03761> R0125:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03762>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .046 No_date    6:00   77.06  n/a     .000
03763>                   out <=    1.0 01:0108            .16     .003 No_date    7:00   77.06  n/a     .000
03764>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
03765>       {MxStoUsed=.8496E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03766> R0125:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03767>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .254 No_date    6:00   70.14  n/a     .000
03768>                   out <=    1.0 01:0100           1.00     .060 No_date    6:09   70.14  n/a     .000
03769>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
03770>       {MxStoUsed=.1973E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03771> R0125:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03772>     ADD HYD               1.0 02:0100           1.00     .060 No_date    6:09   70.14  n/a     .000
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03773>                    +     1.0 02:0102           .24     .004 No_date    6:36   77.06  n/a     .000
03774>                    +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
03775>                    +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
03776>                  SUM=    1.0 01:0103          1.24     .064 No_date    6:18   71.48  n/a     .000
03777> R0125:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03778>     ADD HYD              1.0 02:0106           .92     .257 No_date    6:00   73.84  n/a     .000
03779>                    +     1.0 02:0108           .16     .003 No_date    7:00   77.06  n/a     .000
03780>                    +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
03781>                  SUM=    1.0 01:0107          1.08     .260 No_date    6:00   74.31  n/a     .000
03782> R0125:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03783>     ADD HYD              1.0 02:0003           .24     .066 No_date    6:00   72.27  n/a     .000
03784>                    +     1.0 02:0103          1.24     .064 No_date    6:18   71.48  n/a     .000
03785>                  SUM=    1.0 01:0104          1.48     .130 No_date    6:00   71.61  n/a     .000
03786> R0125:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03787>     ROUTE RESERVOIR ->   1.0 02:0107          1.08     .260 No_date    6:00   74.31  n/a     .000
03788>                  out <=  1.0 01:0109          1.04     .100 No_date    5:59   74.24  n/a     .000
03789>            overflow <=   1.0 03:0109ovf        .04     .160 No_date    6:00   74.31  n/a     .000
03790>      {MxStoUsed=.3979E-01  m3, TotOvfVol=.3268E-02  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
03791> R0125:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03792>     ROUTE RESERVOIR ->   1.0 02:0104          1.48     .130 No_date    6:00   71.61  n/a     .000
03793>                  out <=  1.0 01:0105          1.48     .073 No_date    6:21   71.57  n/a     .000
03794>            overflow <=   1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
03795>      {MxStoUsed=.3933E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03796> R0125:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03797>     ADD HYD              1.0 02:0105          1.48     .073 No_date    6:21   71.57  n/a     .000
03798>                    +     1.0 02:0109          1.04     .100 No_date    5:59   74.24  n/a     .000
03799>                    +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
03800>                    +     1.0 02:0109ovf        .04     .160 No_date    6:00   74.31  n/a     .000
03801>                  SUM=    1.0 01:0110          2.56     .260 No_date    6:00   72.70  n/a     .000
03802> # End of the replicated OTTHYMO model
03803> #*****************************************************************************
03804> R0125:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03805>     CALIB NASHYD         1.0 01:A-03E          5.05     .266 No_date    6:36   39.76 .506     .000
03806>       [CN= 80.0: N= 3.00: Tp=  .65]
03807> R0125:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03808>     CALIB NASHYD         1.0 01:A-03W          1.18     .064 No_date    6:33   38.63 .492     .000
03809>       [CN= 79.0: N= 3.00: Tp=  .60]
03810> R0125:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03811>     CALIB NASHYD         1.0 01:A-05E          1.07     .025 No_date    7:28   31.64 .403     .000
03812>       [CN= 72.0: N= 3.00: Tp= 1.38]
03813> R0125:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03814>     CALIB NASHYD         1.0 01:A-05W           .23     .006 No_date    7:05   30.75 .391     .000
03815>       [CN= 71.0: N= 3.00: Tp= 1.05]
03816> R0125:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03817>     ADD HYD              1.0 02:A-03E          5.05     .266 No_date    6:36   39.76  n/a     .000
03818>                    +     1.0 02:A-03W          1.18     .064 No_date    6:33   38.63  n/a     .000
03819>                    +     1.0 02:A-05W           .23     .006 No_date    7:05   30.75  n/a     .000
03820>                    +     1.0 02:A-05E          1.07     .025 No_date    7:28   31.64  n/a     .000
03821>                    +     1.0 02:Node_1R        8.39     .388 No_date    6:30   66.83  n/a     .000
03822>                    +     1.0 02:0110           2.56     .260 No_date    6:00   72.70  n/a     .000
03823>                  SUM=    1.0 01:Node_2        18.48     .847 No_date    6:31   55.94  n/a     .000
03824> # Into SWM Pond via pipe
03825> R0125:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03826>     ROUTE PIPE      ->   1.0 02:Node_2        18.48     .847 No_date    6:31   55.94  n/a     .000
03827>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .837 No_date    6:35   55.94  n/a     .000
03828>       [L/S/n=  593./ .500/.013]
03829>       {Vmax= 2.068:Dmax=  .633}
03830>       [Din=  .00:Dused=  .77}
03831> # Cold Creek Subdivision
03832> R0125:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03833>     CALIB STANDHYD       1.0 01:Dev           26.81    5.289 No_date    6:02   55.00 .700     .000
03834>       [XIMP=.53:TIMP=.63]
03835>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03836>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03837>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
03838> R0125:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03839>     CALIB STANDHYD       1.0 01:Pond           1.87     .410 No_date    6:00   47.93 .610     .000
03840>       [XIMP=.40:TIMP=.50]
03841>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03842>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03843>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
03844> R0125:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03845>     ADD HYD              1.0 02:Dev           26.81    5.289 No_date    6:02   55.00  n/a     .000
03846>                    +     1.0 02:Pond           1.87     .410 No_date    6:00   47.93  n/a     .000
03847>                  SUM=    1.0 01:Dev&Pond      28.68    5.666 No_date    6:02   54.54  n/a     .000
03848> #*****************************************************************************
03849> # Existing Gas Station Pad (to proposed SWM Pond)
03850> R0125:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03851>     CALIB STANDHYD       1.0 01:EXT4B           .25     .069 No_date    6:00   70.66 .899     .000
03852>       [XIMP=.83:TIMP=.93]
03853>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03854>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03855>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
03856> #*****************************************************************************
03857> R0125:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03858>     ADD HYD              1.0 02:Dev           26.81    5.289 No_date    6:02   55.00  n/a     .000
03859>                    +     1.0 02:Pond           1.87     .410 No_date    6:00   47.93  n/a     .000
03860>                    +     1.0 02:EXT4B           .25     .069 No_date    6:00   70.66  n/a     .000
03861>                  SUM=    1.0 01:DevPondGas    28.93    5.708 No_date    6:02   54.67  n/a     .000
03862> R0125:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03863>     ADD HYD              1.0 02:Dev&Pond      28.68    5.666 No_date    6:02   54.54  n/a     .000
03864>                    +     1.0 02:Node_2R       18.48     .837 No_date    6:35   55.94  n/a     .000
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03865>                    +     1.0 02:EXT4B          .25     .069 No_date    6:00   70.66  n/a     .000
03866>                  SUM=    1.0 01:SWMPondIn     47.41    6.098 No_date    6:02   55.16  n/a     .000
03867> # SWM Pond (free outlet conditions)
03868> R0125:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03869>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    6.098 No_date    6:02   55.16  n/a     .000
03870>                 out <=    1.0 01:SWMPondOut    47.41     .893 No_date    7:13   55.16  n/a     .000
03871>           overflow <=    1.0 03:SWMPondOvf     .00     .000 No_date    0:00     .00  n/a     .000
03872>      {MxStoUsed=.1375E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03873> # SWM Pond (pond control orifices blockage scenario)
03874> R0125:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03875>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    6.098 No_date    6:02   55.16  n/a     .000
03876>  *                out <=    1.0 01:SWMPoutBlk    47.41     .348 No_date    9:09   15.51  n/a     .000
03877>           overflow <=    1.0 03:SWMPovfBlk     .00     .000 No_date    0:00     .00  n/a     .000
03878>      {MxStoUsed=.1994E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
03879> R0125:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03880>     ADD HYD               1.0 02:SWMPondOut    47.41     .893 No_date    7:13   55.16  n/a     .000
03881>                       +     1.0 02:SWMPondOvf     .00     .000 No_date    0:00     .00  n/a     .000
03882>                     SUM=    1.0 01:Node_3pond    47.41     .893 No_date    7:13   55.16  n/a     .000
03883> R0125:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03884>     SAVE HYD              1.0 01:Node_3pond    47.41     .893 No_date    7:13   55.16  n/a     .000
03885>       fname :Node_3pond.0125
03886>       remark:Pond Outflow
03887> R0125:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03888>     ADD HYD               1.0 02:SWMPoutBlk    47.41     .348 No_date    9:09   15.51  n/a     .000
03889>                       +     1.0 02:SWMPovfBlk     .00     .000 No_date    0:00     .00  n/a     .000
03890>                     SUM=    1.0 01:Node_3pBlk    47.41     .348 No_date    9:09   15.51  n/a     .000
03891> # Park Block Draining Uncontrolled to Node 3
03892> R0125:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03893>     CALIB STANDHYD        1.0 01:2A_Park         .95     .176 No_date    6:01   32.90 .419     .000
03894>       [XIMP=.11:TIMP=.21]
03895>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03896>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03897>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
03898> R0125:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03899>     ADD HYD               1.0 02:Node_3pond    47.41     .893 No_date    7:13   55.16  n/a     .000
03900>                       +     1.0 02:2A_Park         .95     .176 No_date    6:01   32.90  n/a     .000
03901>                     SUM=    1.0 01:Node_3        48.36     .895 No_date    7:12   54.72  n/a     .000
03902> R0125:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03903>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36     .895 No_date    7:12   54.72  n/a     .000
03904>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .850 No_date    8:00   54.72  n/a     .000
03905>       [L/S/n=  664./ .200/.035]
03906>       {Vmax=  .329:Dmax=  .219}
03907> R0125:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03908>     CALIB NASHYD          1.0 01:A-08           2.07     .037 No_date    6:47   16.15 .206     .000
03909>       [CN= 49.0: N= 3.00: Tp=  .78]
03910> R0125:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03911>     CALIB NASHYD          1.0 01:A-09           6.16     .073 No_date    7:26   16.15 .206     .000
03912>       [CN= 49.0: N= 3.00: Tp= 1.32]
03913> R0125:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03914>     CALIB NASHYD          1.0 01:A-12           7.79     .132 No_date    7:10   19.98 .254     .000
03915>       [CN= 56.0: N= 3.00: Tp= 1.11]
03916> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
03917> R0125:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03918>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .053 No_date    6:00   40.68 .518     .000
03919>       [XIMP=.26:TIMP=.36]
03920>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03921>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03922>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
03923> R0125:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03924>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .031 No_date    6:00   40.68 .518     .000
03925>       [XIMP=.26:TIMP=.36]
03926>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03927>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03928>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
03929> R0125:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03930>     CALIB STANDHYD        1.0 01:Unc_6           .17     .036 No_date    6:00   40.68 .518     .000
03931>       [XIMP=.26:TIMP=.36]
03932>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
03933>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
03934>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
03935> # West Branch
03936> R0125:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03937>     CALIB NASHYD          1.0 01:A-04          18.63     .377 No_date    7:35   29.06 .370     .000
03938>       [CN= 69.0: N= 3.00: Tp= 1.47]
03939> R0125:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03940>     CALIB NASHYD          1.0 01:A-10           7.42     .102 No_date    7:40   20.58 .262     .000
03941>       [CN= 57.0: N= 3.00: Tp= 1.51]
03942> R0125:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03943>     ADD HYD               1.0 02:A-04          18.63     .377 No_date    7:35   29.06  n/a     .000
03944>                       +     1.0 02:A-10           7.42     .102 No_date    7:40   20.58  n/a     .000
03945>                     SUM=    1.0 01:Node_4        26.05     .479 No_date    7:36   26.64  n/a     .000
03946> R0125:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03947>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .479 No_date    7:36   26.64  n/a     .000
03948>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .477 No_date    7:43   26.64  n/a     .000
03949>       [L/S/n=  473./ .660/.035]
03950>       {Vmax=  .921:Dmax=  .347}
03951> R0125:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03952>     CALIB NASHYD          1.0 01:A-11           7.93     .181 No_date    7:01   24.49 .312     .000
03953>       [CN= 63.0: N= 3.00: Tp=  .99]
03954> R0125:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03955>     ADD HYD               1.0 02:Node_3R       48.36     .850 No_date    8:00   54.72  n/a     .000
03956>                       +     1.0 02:A-08           2.07     .037 No_date    6:47   16.15  n/a     .000
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03957>                     +     1.0 02:A-09          6.16     .073 No_date    7:26   16.15  n/a     .000
03958>                     +     1.0 02:A-11          7.93     .181 No_date    7:01   24.49  n/a     .000
03959>                     +     1.0 02:A-12          7.79     .132 No_date    7:10   19.98  n/a     .000
03960>                     +     1.0 02:Unc_8A         .25     .053 No_date    6:00   40.68  n/a     .000
03961>                     +     1.0 02:Unc_8B         .14     .031 No_date    6:00   40.68  n/a     .000
03962>                     +     1.0 02:Unc_6          .17     .036 No_date    6:00   40.68  n/a     .000
03963>                     +     1.0 02:Node_4R      26.05     .477 No_date    7:43   26.64  n/a     .000
03964>                   SUM=    1.0 01:Outlet       98.92    1.682 No_date    7:37   38.87  n/a     .000
03965> R0125:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
03966>     SAVE HYD             1.0 01:Outlet       98.92    1.682 No_date    7:37   38.87  n/a     .000
03967>       fname :Outlet.0125
03968>       remark:Total Outflows to Sandy Hook Road
03969>   ** END OF RUN :  149
03970>
03971> ************************************************************************************************
03972>
03973>
03974>
03975>
03976>
03977>  RUN#:COMMAND#
03978> R0150:C00001------------------------------------------------------------------------------------------
03979>      START
03980>       [TZERO =    .00 hrs on        0]
03981>       [METOUT=   2    (1=imperial, 2=metric output)]
03982>       [NSTORM=   1 ]
03983>       [NRUN  = 0150 ]
03984> #*************************************************************************
03985> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
03986> #*************************************************************************
03987> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
03988> #  Date        : 2023-10
03989> #  Modeller    : [JB]
03990> #  Updated             : 2025-05 [PP]
03991> #  Company     : JFSA Ottawa
03992> #  License #   : 2549237
03993> #*************************************************************************
03994> # Post Development Scenario B - Upstream flows diverted through subdivision
03995> #*************************************************************************
03996> R0150:C00002------------------------------------------------------------------------------------------
03997>      READ STORM
03998>       Filename = STORM.001
03999>       Comment  = 50-Yr 12-hr SCS Storm Type II - Belleville Station
04000>       [SDT= 5.00:SDUR=  12.00:PTOT=  87.10]
04001> #*************************************************************************
04002> # POST-DEVELOPMENT CONDITIONS
04003> # Flows from upstream lands routed through subdivision
04004> #*************************************************************************
04005> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
04006> # Improvements and New Urban Retail Development - In SWMHYMO
04007> R0150:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04008>     CALIB STANDHYD       1.0 01:HIGHWAY33     8.39    2.404 No_date    6:00   74.66 .857     .000
04009>       [XIMP=.76:TIMP=.86]
04010>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04011>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04012>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
04013> R0150:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04014>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33     8.39    2.404 No_date    6:00   74.66  n/a     .000
04015>                 out <=    1.0 01:NodeB         8.39     .449 No_date    6:20   74.66  n/a     .000
04016>            overflow <=    1.0 03:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
04017>      {MxStoUsed=.3632E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04018> R0150:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04019>     ADD HYD              1.0 02:NodeB         8.39     .449 No_date    6:20   74.66  n/a     .000
04020>                     +     1.0 02:NodeBovf       .00     .000 No_date    0:00     .00  n/a     .000
04021>                   SUM=    1.0 01:Node_1        8.39     .449 No_date    6:20   74.66  n/a     .000
04022> R0150:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04023>     ROUTE CHANNEL   ->    1.0 02:Node_1        8.39     .449 No_date    6:20   74.66  n/a     .000
04024>      [RDT= 1.00] out<-    1.0 01:Node_1R       8.39     .440 No_date    6:24   74.66  n/a     .000
04025>       [L/S/n=  327./ .920/.035]
04026>       {Vmax=  .918:Dmax=  .338}
04027> #*************************************************************************
04028> # Replication of the OTTHYMO model for the Choice Properties REIT
04029> # development as per the November 2023 'Proposed Retails Pads B & C
04030> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
04031> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
04032> # Notes:
04033> # - DT changed from 5 min to 1 min
04034> # - Reservoir Overflows added to the downstream node for all reservoirs
04035> #*************************************************************************
04036> # 0003
04037> #*************************************************************************
04038> R0150:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04039>     CALIB STANDHYD       1.0 01:0003           .24     .074 No_date    6:00   80.48 .924     .000
04040>       [XIMP=.90:TIMP=.90]
04041>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04042>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04043>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
04044> #*************************************************************************
04045> # 0002
04046> #*************************************************************************
04047> R0150:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04048>     CALIB STANDHYD       1.0 01:0002           .07     .022 No_date    6:00   85.54 .982     .000
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04049>       [XIMP=.99:TIMP=.99]
04050>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04051>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04052>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
04053> #*******************************************************************************
04054> # 0001
04055> #*******************************************************************************
04056> R0150:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04057>     CALIB STANDHYD        1.0 01:0001           .93     .280 No_date    6:00   77.68 .892     .000
04058>       [XIMP=.85:TIMP=.85]
04059>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04060>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04061>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
04062> #*******************************************************************************
04063> # 0006
04064> #*******************************************************************************
04065> R0150:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04066>     CALIB STANDHYD        1.0 01:0006           .24     .076 No_date    6:00   85.55 .982     .000
04067>       [XIMP=.99:TIMP=.99]
04068>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04069>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04070>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
04071> #*******************************************************************************
04072> # 0007
04073> #*******************************************************************************
04074> R0150:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04075>     CALIB STANDHYD        1.0 01:0007           .38     .117 No_date    6:00   80.49 .924     .000
04076>       [XIMP=.90:TIMP=.90]
04077>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04078>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04079>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
04080> #*******************************************************************************
04081> # 0044
04082> #*******************************************************************************
04083> R0150:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04084>     CALIB STANDHYD        1.0 01:0044           .54     .169 No_date    6:00   83.29 .956     .000
04085>       [XIMP=.95:TIMP=.95]
04086>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04087>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04088>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
04089> #*******************************************************************************
04090> # 0005
04091> #*******************************************************************************
04092> R0150:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04093>     CALIB STANDHYD        1.0 01:0005           .16     .051 No_date    6:00   85.55 .982     .000
04094>       [XIMP=.99:TIMP=.99]
04095>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04096>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04097>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
04098> #*******************************************************************************
04099> R0150:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04100>     ROUTE RESERVOIR ->    1.0 02:0002           .07     .022 No_date    6:00   85.54  n/a     .000
04101>                   out <=    1.0 01:0111           .07     .005 No_date    6:02   85.53  n/a     .000
04102>               overflow <=    1.0 03:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
04103>      {MxStoUsed=.3079E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04104> R0150:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04105>     ADD HYD               1.0 02:0111           .07     .005 No_date    6:02   85.53  n/a     .000
04106>                       +     1.0 02:0001           .93     .280 No_date    6:00   77.68  n/a     .000
04107>                       +     1.0 02:0111ovf        .00     .000 No_date    0:00     .00  n/a     .000
04108>                     SUM=    1.0 01:0101          1.00     .285 No_date    6:00   78.23  n/a     .000
04109> R0150:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04110>     ROUTE RESERVOIR ->    1.0 02:0006           .24     .076 No_date    6:00   85.55  n/a     .000
04111>                   out <=    1.0 01:0102           .24     .005 No_date    6:35   85.55  n/a     .000
04112>               overflow <=    1.0 03:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
04113>      {MxStoUsed=.1410E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04114> R0150:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04115>     ADD HYD               1.0 02:0007           .38     .117 No_date    6:00   80.49  n/a     .000
04116>                       +     1.0 02:0044           .54     .169 No_date    6:00   83.29  n/a     .000
04117>                     SUM=    1.0 01:0106           .92     .286 No_date    6:00   82.13  n/a     .000
04118> R0150:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04119>     ROUTE RESERVOIR ->    1.0 02:0005           .16     .051 No_date    6:00   85.55  n/a     .000
04120>                   out <=    1.0 01:0108           .16     .003 No_date    6:36   85.54  n/a     .000
04121>               overflow <=    1.0 03:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
04122>      {MxStoUsed=.9419E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04123> R0150:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04124>     ROUTE RESERVOIR ->    1.0 02:0101          1.00     .285 No_date    6:00   78.23  n/a     .000
04125>                   out <=    1.0 01:0100          1.00     .061 No_date    6:10   78.23  n/a     .000
04126>               overflow <=    1.0 03:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
04127>      {MxStoUsed=.2351E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04128> R0150:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04129>     ADD HYD               1.0 02:0100          1.00     .061 No_date    6:10   78.23  n/a     .000
04130>                       +     1.0 02:0102           .24     .005 No_date    6:35   85.55  n/a     .000
04131>                       +     1.0 02:0100ovf        .00     .000 No_date    0:00     .00  n/a     .000
04132>                       +     1.0 02:0102ovf        .00     .000 No_date    0:00     .00  n/a     .000
04133>                     SUM=    1.0 01:0103          1.24     .065 No_date    6:15   79.65  n/a     .000
04134> R0150:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04135>     ADD HYD               1.0 02:0106           .92     .286 No_date    6:00   82.13  n/a     .000
04136>                       +     1.0 02:0108           .16     .003 No_date    6:36   85.54  n/a     .000
04137>                       +     1.0 02:0108ovf        .00     .000 No_date    0:00     .00  n/a     .000
04138>                     SUM=    1.0 01:0107          1.08     .289 No_date    6:00   82.64  n/a     .000
04139> R0150:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04140>     ADD HYD               1.0 02:0003           .24     .074 No_date    6:00   80.48  n/a     .000
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04141>                    +     1.0 02:0103          1.24     .065 No_date    6:15   79.65  n/a     .000
04142>                  SUM=    1.0 01:0104          1.48     .138 No_date    6:00   79.78  n/a     .000
04143> R0150:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04144>     ROUTE RESERVOIR ->    1.0 02:0107          1.08     .289 No_date    6:00   82.64  n/a     .000
04145>                out <=    1.0 01:0109           .99     .100 No_date    5:56   82.56  n/a     .000
04146>           overflow <=    1.0 03:0109ovf        .09     .189 No_date    6:00   82.64  n/a     .000
04147>      {MxStoUsed=.3971E-01  m3, TotOvfVol=.7232E-02  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
04148> R0150:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04149>     ROUTE RESERVOIR ->    1.0 02:0104          1.48     .138 No_date    6:00   79.78  n/a     .000
04150>                out <=    1.0 01:0105          1.48     .086 No_date    6:03   79.74  n/a     .000
04151>           overflow <=    1.0 03:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
04152>      {MxStoUsed=.3964E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04153> R0150:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04154>     ADD HYD               1.0 02:0105          1.48     .086 No_date    6:03   79.74  n/a     .000
04155>                       +     1.0 02:0109           .99     .100 No_date    5:56   82.56  n/a     .000
04156>                       +     1.0 02:0105ovf        .00     .000 No_date    0:00     .00  n/a     .000
04157>                       +     1.0 02:0109ovf        .09     .189 No_date    6:00   82.64  n/a     .000
04158>                     SUM=    1.0 01:0110          2.56     .357 No_date    6:00   80.94  n/a     .000
04159> # End of the replicated OTTHYMO model
04160> #*******************************************************************************
04161> R0150:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04162>     CALIB NASHYD          1.0 01:A-03E          5.05     .313 No_date    6:36   46.56 .535     .000
04163>       [CN= 80.0: N= 3.00: Tp=  .65]
04164> R0150:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04165>     CALIB NASHYD          1.0 01:A-03W          1.18     .075 No_date    6:32   45.31 .520     .000
04166>       [CN= 79.0: N= 3.00: Tp=  .60]
04167> R0150:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04168>     CALIB NASHYD          1.0 01:A-05E          1.07     .030 No_date    7:27   37.50 .430     .000
04169>       [CN= 72.0: N= 3.00: Tp= 1.38]
04170> R0150:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04171>     CALIB NASHYD          1.0 01:A-05W           .23     .008 No_date    7:04   36.49 .419     .000
04172>       [CN= 71.0: N= 3.00: Tp= 1.05]
04173> R0150:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04174>     ADD HYD               1.0 02:A-03E          5.05     .313 No_date    6:36   46.56  n/a     .000
04175>                       +     1.0 02:A-03W          1.18     .075 No_date    6:32   45.31  n/a     .000
04176>                       +     1.0 02:A-05W           .23     .008 No_date    7:04   36.49  n/a     .000
04177>                       +     1.0 02:A-05E          1.07     .030 No_date    7:27   37.50  n/a     .000
04178>                       +     1.0 02:Node_1R        8.39     .440 No_date    6:24   74.66  n/a     .000
04179>                       +     1.0 02:0110           2.56     .357 No_date    6:00   80.94  n/a     .000
04180>                     SUM=    1.0 01:Node_2        18.48     .967 No_date    6:31   63.33  n/a     .000
04181> # Into SWM Pond via pipe
04182> R0150:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04183>     ROUTE PIPE      ->    1.0 02:Node_2        18.48     .967 No_date    6:31   63.33  n/a     .000
04184>  *   [RDT= 1.00] out<-    1.0 01:Node_2R       18.48     .958 No_date    6:36   63.33  n/a     .000
04185>       [L/S/n=  593./ .500/.013]
04186>       {Vmax= 2.137:Dmax=  .665}
04187>       [Din=  .00:Dused=  .81}
04188> # Cold Creek Subdivision
04189> R0150:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04190>     CALIB STANDHYD        1.0 01:Dev           26.81    6.101 No_date    6:02   62.17 .714     .000
04191>       [XIMP=.53:TIMP=.63]
04192>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04193>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04194>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
04195> R0150:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04196>     CALIB STANDHYD        1.0 01:Pond           1.87     .478 No_date    6:00   55.23 .634     .000
04197>       [XIMP=.40:TIMP=.50]
04198>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04199>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04200>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
04201> R0150:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04202>     ADD HYD               1.0 02:Dev           26.81    6.101 No_date    6:02   62.17  n/a     .000
04203>                       +     1.0 02:Pond           1.87     .478 No_date    6:00   55.23  n/a     .000
04204>                     SUM=    1.0 01:Dev&Pond      28.68    6.538 No_date    6:02   61.72  n/a     .000
04205> #*******************************************************************************
04206> # Existing Gas Station Pad (to proposed SWM Pond)
04207> R0150:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04208>     CALIB STANDHYD        1.0 01:EXT4B           .25     .076 No_date    6:00   78.73 .904     .000
04209>       [XIMP=.83:TIMP=.93]
04210>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04211>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04212>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
04213> #*******************************************************************************
04214> R0150:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04215>     ADD HYD               1.0 02:Dev           26.81    6.101 No_date    6:02   62.17  n/a     .000
04216>                       +     1.0 02:Pond           1.87     .478 No_date    6:00   55.23  n/a     .000
04217>                       +     1.0 02:EXT4B           .25     .076 No_date    6:00   78.73  n/a     .000
04218>                     SUM=    1.0 01:DevPondGas    28.93    6.588 No_date    6:01   61.86  n/a     .000
04219> R0150:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04220>     ADD HYD               1.0 02:Dev&Pond      28.68    6.538 No_date    6:02   61.72  n/a     .000
04221>                       +     1.0 02:Node_2R       18.48     .958 No_date    6:36   63.33  n/a     .000
04222>                       +     1.0 02:EXT4B           .25     .076 No_date    6:00   78.73  n/a     .000
04223>                     SUM=    1.0 01:SWMPondIn     47.41    7.143 No_date    6:02   62.41  n/a     .000
04224> # SWM Pond (free outlet conditions)
04225> R0150:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04226>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    7.143 No_date    6:02   62.41  n/a     .000
04227>                out <=    1.0 01:SWMPondOut    47.41    1.038 No_date    7:11   62.41  n/a     .000
04228>           overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
04229>      {MxStoUsed=.1556E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04230> # SWM Pond (pond control orifices blockage scenario)
04231> R0150:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04232>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    7.143 No_date    6:02   62.41  n/a     .000
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04233>  *             out <=    1.0 01:SWMPoutBlk    47.41     .684 No_date    8:00   22.78  n/a     .000
04234>           overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
04235>      {MxStoUsed=.2057E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04236> R0150:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04237>     ADD HYD              1.0 02:SWMPondOut    47.41    1.038 No_date    7:11   62.41  n/a     .000
04238>                    +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
04239>                  SUM=    1.0 01:Node_3pond    47.41    1.038 No_date    7:11   62.41  n/a     .000
04240> R0150:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04241>     SAVE HYD             1.0 01:Node_3pond    47.41    1.038 No_date    7:11   62.41  n/a     .000
04242>       fname :Node_3pond.0150
04243>       remark:Pond Outflow
04244> R0150:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04245>     ADD HYD              1.0 02:SWMPoutBlk    47.41     .684 No_date    8:00   22.78  n/a     .000
04246>                    +     1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
04247>                  SUM=    1.0 01:Node_3pBlk    47.41     .684 No_date    8:00   22.78  n/a     .000
04248> # Park Block Draining Uncontrolled to Node 3
04249> R0150:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04250>     CALIB STANDHYD       1.0 01:2A_Park         .95     .209 No_date    6:01   38.63 .444     .000
04251>       [XIMP=.11:TIMP=.21]
04252>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04253>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04254>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
04255> R0150:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04256>     ADD HYD              1.0 02:Node_3pond    47.41    1.038 No_date    7:11   62.41  n/a     .000
04257>                    +     1.0 02:2A_Park         .95     .209 No_date    6:01   38.63  n/a     .000
04258>                  SUM=    1.0 01:Node_3        48.36    1.040 No_date    7:11   61.94  n/a     .000
04259> R0150:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04260>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36    1.040 No_date    7:11   61.94  n/a     .000
04261>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36     .995 No_date    7:56   61.94  n/a     .000
04262>       [L/S/n=  664./ .200/.035]
04263>       {Vmax=  .345:Dmax=  .235}
04264> R0150:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04265>     CALIB NASHYD         1.0 01:A-08           2.07     .045 No_date    6:47   19.59 .225     .000
04266>       [CN= 49.0: N= 3.00: Tp=  .78]
04267> R0150:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04268>     CALIB NASHYD         1.0 01:A-09           6.16     .089 No_date    7:26   19.59 .225     .000
04269>       [CN= 49.0: N= 3.00: Tp= 1.32]
04270> R0150:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04271>     CALIB NASHYD         1.0 01:A-12           7.79     .160 No_date    7:10   24.09 .277     .000
04272>       [CN= 56.0: N= 3.00: Tp= 1.11]
04273> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
04274> R0150:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04275>     CALIB STANDHYD       1.0 01:Unc_8A          .25     .063 No_date    6:00   47.25 .542     .000
04276>       [XIMP=.26:TIMP=.36]
04277>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04278>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04279>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
04280> R0150:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04281>     CALIB STANDHYD       1.0 01:Unc_8B          .14     .036 No_date    6:00   47.24 .542     .000
04282>       [XIMP=.26:TIMP=.36]
04283>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04284>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04285>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
04286> R0150:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04287>     CALIB STANDHYD       1.0 01:Unc_6           .17     .042 No_date    6:00   47.25 .542     .000
04288>       [XIMP=.26:TIMP=.36]
04289>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04290>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04291>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
04292> # West Branch
04293> R0150:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04294>     CALIB NASHYD         1.0 01:A-04          18.63     .451 No_date    7:34   34.57 .397     .000
04295>       [CN= 69.0: N= 3.00: Tp= 1.47]
04296> R0150:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04297>     CALIB NASHYD         1.0 01:A-10           7.42     .124 No_date    7:39   24.79 .285     .000
04298>       [CN= 57.0: N= 3.00: Tp= 1.51]
04299> R0150:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04300>     ADD HYD              1.0 02:A-04          18.63     .451 No_date    7:34   34.57  n/a     .000
04301>                    +     1.0 02:A-10           7.42     .124 No_date    7:39   24.79  n/a     .000
04302>                  SUM=    1.0 01:Node_4        26.05     .574 No_date    7:35   31.79  n/a     .000
04303> R0150:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04304>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .574 No_date    7:35   31.79  n/a     .000
04305>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .572 No_date    7:42   31.79  n/a     .000
04306>       [L/S/n=  473./ .660/.035]
04307>       {Vmax=  .968:Dmax=  .385}
04308> R0150:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04309>     CALIB NASHYD         1.0 01:A-11           7.93     .218 No_date    7:01   29.34 .337     .000
04310>       [CN= 63.0: N= 3.00: Tp=  .99]
04311> R0150:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04312>     ADD HYD              1.0 02:Node_3R       48.36     .995 No_date    7:56   61.94  n/a     .000
04313>                    +     1.0 02:A-08           2.07     .045 No_date    6:47   19.59  n/a     .000
04314>                    +     1.0 02:A-09           6.16     .089 No_date    7:26   19.59  n/a     .000
04315>                    +     1.0 02:A-11           7.93     .218 No_date    7:01   29.34  n/a     .000
04316>                    +     1.0 02:A-12           7.79     .160 No_date    7:10   24.09  n/a     .000
04317>                    +     1.0 02:Unc_8A          .25     .063 No_date    6:00   47.25  n/a     .000
04318>                    +     1.0 02:Unc_8B          .14     .036 No_date    6:00   47.24  n/a     .000
04319>                    +     1.0 02:Unc_6           .17     .042 No_date    6:00   47.25  n/a     .000
04320>                    +     1.0 02:Node_4R       26.05     .572 No_date    7:42   31.79  n/a     .000
04321>                  SUM=    1.0 01:Outlet        98.92    2.008 No_date    7:33   44.80  n/a     .000
04322> R0150:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04323>     SAVE HYD             1.0 01:Outlet        98.92    2.008 No_date    7:33   44.80  n/a     .000
04324>       fname :Outlet.0150
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04325>       remark:Total Outflows to Sandy Hook Road
04326>   ** END OF RUN :  198
04327>
04328> ****************************************************************************************************
04329>
04330>
04331>
04332>
04333>
04334>  RUN#:COMMAND#
04335> R0199:C00001-------------------------------------------------------------------------------------------
04336>      START
04337>       [TZERO =    .00 hrs on        0]
04338>       [METOUT=   2    (1=imperial, 2=metric output)]
04339>       [NSTORM=   1 ]
04340>       [NRUN  = 0199 ]
04341> #*************************************************************************
04342> #  SWMHYMO Ver:5.02/Jan 2001 <BETA> / INPUT DATA FILE
04343> #*************************************************************************
04344> #  Project Name: [Cold Creek Subdivision]    Project Number: [2528]
04345> #  Date        : 2023-10
04346> #  Modeller    : [JB]
04347> #  Updated             : 2025-05 [PP]
04348> #  Company     : JFSA Ottawa
04349> #  License #   : 2549237
04350> #*************************************************************************
04351> # Post Development Scenario B - Upstream flows diverted through subdivision
04352> #*************************************************************************
04353> R0199:C00002-------------------------------------------------------------------------------------------
04354>      READ STORM
04355>       Filename = STORM.001
04356>       Comment  = 100-Yr 12-hr SCS Storm Type II - Belleville Station
04357>       [SDT= 5.00:SDUR=  12.00:PTOT=  95.60]
04358> #*************************************************************************
04359> # POST-DEVELOPMENT CONDITIONS
04360> # Flows from upstream lands routed through subdivision
04361> #*************************************************************************
04362> # Replication of Jewell Feb 2019 - Stormwater Management Report Highway 33
04363> # Improvements and New Urban Retail Development - In SWMHYMO
04364> R0199:C00003------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04365>     CALIB STANDHYD        1.0 01:HIGHWAY33      8.39    2.670 No_date    6:00   82.39 .862     .000
04366>       [XIMP=.76:TIMP=.86]
04367>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04368>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04369>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 263.:MNI=.013:SCI=   .0]
04370> R0199:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04371>     ROUTE RESERVOIR ->    1.0 02:HIGHWAY33      8.39    2.670 No_date    6:00   82.39  n/a     .000
04372>                  out <=    1.0 01:NodeB          8.39     .527 No_date    6:18   82.39  n/a     .000
04373>            overflow <=    1.0 03:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
04374>      {MxStoUsed=.3959E+00  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04375> R0199:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04376>     ADD HYD               1.0 02:NodeB          8.39     .527 No_date    6:18   82.39  n/a     .000
04377>                       +     1.0 02:NodeBovf        .00     .000 No_date    0:00     .00  n/a     .000
04378>                   SUM=     1.0 01:Node_1         8.39     .527 No_date    6:18   82.39  n/a     .000
04379> R0199:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04380>     ROUTE CHANNEL   ->    1.0 02:Node_1         8.39     .527 No_date    6:18   82.39  n/a     .000
04381>      [RDT= 1.00] out<-    1.0 01:Node_1R        8.39     .524 No_date    6:29   82.39  n/a     .000
04382>       [L/S/n=  327./ .920/.035]
04383>       {Vmax=  .953:Dmax=  .362}
04384> #*************************************************************************
04385> # Replication of the OTTHYMO model for the Choice Properties REIT
04386> # development as per the November 2023 'Proposed Retails Pads B & C
04387> # 13311 Loyalist Prkwy. (Hwy. #33) Prince Edward County Picton Ontario -
04388> # Functional Servicing and SWM Report' prepared by Odan Detech Consulting Engineers
04389> # Notes:
04390> # - DT changed from 5 min to 1 min
04391> # - Reservoir Overflows added to the downstream node for all reservoirs
04392> #*************************************************************************
04393> # 0003
04394> #*************************************************************************
04395> R0199:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04396>     CALIB STANDHYD        1.0 01:0003           .24     .082 No_date    6:00   88.63 .927     .000
04397>       [XIMP=.90:TIMP=.90]
04398>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04399>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04400>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
04401> #*************************************************************************
04402> # 0002
04403> #*************************************************************************
04404> R0199:C00008------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04405>     CALIB STANDHYD        1.0 01:0002           .07     .025 No_date    6:00   94.02 .983     .000
04406>       [XIMP=.99:TIMP=.99]
04407>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04408>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04409>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  22.:MNI=.013:SCI=   .0]
04410> #*************************************************************************
04411> # 0001
04412> #*************************************************************************
04413> R0199:C00009------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04414>     CALIB STANDHYD        1.0 01:0001           .93     .309 No_date    6:00   85.66 .896     .000
04415>       [XIMP=.85:TIMP=.85]
04416>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
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04417>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04418>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  79.:MNI=.013:SCI=   .0]
04419> #*******************************************************************************
04420> # 0006
04421> #*******************************************************************************
04422> R0199:C00010------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04423>     CALIB STANDHYD        1.0 01:0006            .24     .084 No_date    6:00   94.03 .983     .000
04424>       [XIMP=.99:TIMP=.99]
04425>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04426>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04427>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  40.:MNI=.013:SCI=   .0]
04428> #*******************************************************************************
04429> # 0007
04430> #*******************************************************************************
04431> R0199:C00011------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04432>     CALIB STANDHYD        1.0 01:0007            .38     .129 No_date    6:00   88.64 .927     .000
04433>       [XIMP=.90:TIMP=.90]
04434>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04435>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04436>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  50.:MNI=.013:SCI=   .0]
04437> #*******************************************************************************
04438> # 0044
04439> #*******************************************************************************
04440> R0199:C00012------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04441>     CALIB STANDHYD        1.0 01:0044            .54     .186 No_date    6:00   91.62 .958     .000
04442>       [XIMP=.95:TIMP=.95]
04443>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04444>       [Pervious     area: IAper= 5.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04445>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  60.:MNI=.013:SCI=   .0]
04446> #*******************************************************************************
04447> # 0005
04448> #*******************************************************************************
04449> R0199:C00013------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04450>     CALIB STANDHYD        1.0 01:0005            .16     .056 No_date    6:00   94.02 .983     .000
04451>       [XIMP=.99:TIMP=.99]
04452>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04453>       [Pervious     area: IAper= 1.00:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04454>       [Impervious   area: IAimp= 1.00:SLPI=1.00:LGI=  33.:MNI=.013:SCI=   .0]
04455> #*******************************************************************************
04456> R0199:C00014------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04457>     ROUTE RESERVOIR ->    1.0 02:0002            .07     .025 No_date    6:00   94.02  n/a     .000
04458>                   out <=    1.0 01:0111            .07     .006 No_date    6:02   94.02  n/a     .000
04459>              overflow <=    1.0 03:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
04460>      {MxStoUsed=.3367E-02  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04461> R0199:C00015------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04462>     ADD HYD               1.0 02:0111            .07     .006 No_date    6:02   94.02  n/a     .000
04463>                       +     1.0 02:0001            .93     .309 No_date    6:00   85.66  n/a     .000
04464>                       +     1.0 02:0111ovf         .00     .000 No_date    0:00     .00  n/a     .000
04465>                     SUM=    1.0 01:0101           1.00     .314 No_date    6:00   86.24  n/a     .000
04466> R0199:C00016------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04467>     ROUTE RESERVOIR ->    1.0 02:0006            .24     .084 No_date    6:00   94.03  n/a     .000
04468>                   out <=    1.0 01:0102            .24     .005 No_date    6:35   94.03  n/a     .000
04469>              overflow <=    1.0 03:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
04470>      {MxStoUsed=.1549E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04471> R0199:C00017------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04472>     ADD HYD               1.0 02:0007            .38     .129 No_date    6:00   88.64  n/a     .000
04473>                       +     1.0 02:0044            .54     .186 No_date    6:00   91.62  n/a     .000
04474>                     SUM=    1.0 01:0106            .92     .315 No_date    6:00   90.39  n/a     .000
04475> R0199:C00018------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04476>     ROUTE RESERVOIR ->    1.0 02:0005            .16     .056 No_date    6:00   94.02  n/a     .000
04477>                   out <=    1.0 01:0108            .16     .003 No_date    6:35   94.02  n/a     .000
04478>              overflow <=    1.0 03:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
04479>      {MxStoUsed=.1034E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04480> R0199:C00019------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04481>     ROUTE RESERVOIR ->    1.0 02:0101           1.00     .314 No_date    6:00   86.24  n/a     .000
04482>                   out <=    1.0 01:0100           1.00     .061 No_date    6:12   86.24  n/a     .000
04483>              overflow <=    1.0 03:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
04484>      {MxStoUsed=.2724E-01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04485> R0199:C00020------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04486>     ADD HYD               1.0 02:0100           1.00     .061 No_date    6:12   86.24  n/a     .000
04487>                       +     1.0 02:0102            .24     .005 No_date    6:35   94.03  n/a     .000
04488>                       +     1.0 02:0100ovf         .00     .000 No_date    0:00     .00  n/a     .000
04489>                       +     1.0 02:0102ovf         .00     .000 No_date    0:00     .00  n/a     .000
04490>                     SUM=    1.0 01:0103           1.24     .066 No_date    6:21   87.75  n/a     .000
04491> R0199:C00021------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04492>     ADD HYD               1.0 02:0106            .92     .315 No_date    6:00   90.39  n/a     .000
04493>                       +     1.0 02:0108            .16     .003 No_date    6:35   94.02  n/a     .000
04494>                       +     1.0 02:0108ovf         .00     .000 No_date    0:00     .00  n/a     .000
04495>                     SUM=    1.0 01:0107           1.08     .318 No_date    6:00   90.93  n/a     .000
04496> R0199:C00022------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04497>     ADD HYD               1.0 02:0003            .24     .082 No_date    6:00   88.63  n/a     .000
04498>                       +     1.0 02:0103           1.24     .066 No_date    6:21   87.75  n/a     .000
04499>                     SUM=    1.0 01:0104           1.48     .147 No_date    6:00   87.89  n/a     .000
04500> R0199:C00023------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04501>     ROUTE RESERVOIR ->    1.0 02:0107           1.08     .318 No_date    6:00   90.93  n/a     .000
04502>                   out <=    1.0 01:0109            .96     .100 No_date    5:54   90.85  n/a     .000
04503>              overflow <=    1.0 03:0109ovf         .12     .218 No_date    6:00   90.93  n/a     .000
04504>      {MxStoUsed=.3984E-01  m3, TotOvfVol=.1121E-01  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
04505> R0199:C00024------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04506>     ROUTE RESERVOIR ->    1.0 02:0104           1.48     .147 No_date    6:00   87.89  n/a     .000
04507>                   out <=    1.0 01:0105           1.47     .100 No_date    5:59   87.85  n/a     .000
04508>              overflow <=    1.0 03:0105ovf         .01     .046 No_date    6:00   87.89  n/a     .000
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04509>      {MxStoUsed=.3992E-01  m3, TotOvfVol=.7294E-03  m3, N-Ovf=    1, TotDurOvf=    0.hrs}
04510> R0199:C00025------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04511>     ADD HYD              1.0 02:0105          1.47     .100 No_date    5:59   87.85  n/a     .000
04512>                    +     1.0 02:0109           .96     .100 No_date    5:54   90.85  n/a     .000
04513>                    +     1.0 02:0105ovf        .01     .046 No_date    6:00   87.89  n/a     .000
04514>                    +     1.0 02:0109ovf        .12     .218 No_date    6:00   90.93  n/a     .000
04515>                  SUM=    1.0 01:0110          2.56     .464 No_date    6:00   89.13  n/a     .000
04516> # End of the replicated OTTHYMO model
04517> #*************************************************************************
04518> R0199:C00026------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04519>     CALIB NASHYD         1.0 01:A-03E         5.05     .360 No_date    6:36   53.55 .560     .000
04520>       [CN= 80.0: N= 3.00: Tp=  .65]
04521> R0199:C00027------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04522>     CALIB NASHYD         1.0 01:A-03W         1.18     .087 No_date    6:32   52.19 .546     .000
04523>       [CN= 79.0: N= 3.00: Tp=  .60]
04524> R0199:C00028------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04525>     CALIB NASHYD         1.0 01:A-05E         1.07     .034 No_date    7:27   43.59 .456     .000
04526>       [CN= 72.0: N= 3.00: Tp= 1.38]
04527> R0199:C00029------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04528>     CALIB NASHYD         1.0 01:A-05W          .23     .009 No_date    7:04   42.47 .444     .000
04529>       [CN= 71.0: N= 3.00: Tp= 1.05]
04530> R0199:C00030------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04531>     ADD HYD              1.0 02:A-03E         5.05     .360 No_date    6:36   53.55  n/a     .000
04532>                    +     1.0 02:A-03W         1.18     .087 No_date    6:32   52.19  n/a     .000
04533>                    +     1.0 02:A-05W          .23     .009 No_date    7:04   42.47  n/a     .000
04534>                    +     1.0 02:A-05E         1.07     .034 No_date    7:27   43.59  n/a     .000
04535>                    +     1.0 02:Node_1R       8.39     .524 No_date    6:29   82.39  n/a     .000
04536>                    +     1.0 02:0110          2.56     .464 No_date    6:00   89.13  n/a     .000
04537>                  SUM=    1.0 01:Node_2       18.48    1.121 No_date    6:31   70.75  n/a     .000
04538> # Into SWM Pond via pipe
04539> R0199:C00031------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04540>     ROUTE PIPE      ->    1.0 02:Node_2       18.48    1.121 No_date    6:31   70.75  n/a     .000
04541>  *   [RDT= 1.00] out<-    1.0 01:Node_2R      18.48    1.112 No_date    6:35   70.75  n/a     .000
04542>       [L/S/n=  593./ .500/.013]
04543>       {Vmax= 2.218:Dmax=  .703}
04544>       [Din=  .00:Dused=  .86}
04545> # Cold Creek Subdivision
04546> R0199:C00032------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04547>     CALIB STANDHYD       1.0 01:Dev           26.81    6.819 No_date    6:02   68.95 .721     .000
04548>       [XIMP=.53:TIMP=.63]
04549>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04550>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04551>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 423.:MNI=.013:SCI=   .0]
04552> R0199:C00033------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04553>     CALIB STANDHYD       1.0 01:Pond          1.87     .534 No_date    6:00   61.54 .644     .000
04554>       [XIMP=.40:TIMP=.50]
04555>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04556>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04557>       [Impervious   area: IAimp= 1.57:SLPI=1.00:LGI= 112.:MNI=.013:SCI=   .0]
04558> R0199:C00034------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04559>     ADD HYD              1.0 02:Dev           26.81    6.819 No_date    6:02   68.95  n/a     .000
04560>                    +     1.0 02:Pond          1.87     .534 No_date    6:00   61.54  n/a     .000
04561>                  SUM=    1.0 01:Dev&Pond      28.68    7.281 No_date    6:01   68.46  n/a     .000
04562> #*************************************************************************
04563> # Existing Gas Station Pad (to proposed SWM Pond)
04564> R0199:C00035------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04565>     CALIB STANDHYD       1.0 01:EXT4B          .25     .084 No_date    6:00   86.83 .908     .000
04566>       [XIMP=.83:TIMP=.93]
04567>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04568>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04569>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
04570> #*************************************************************************
04571> R0199:C00036------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04572>     ADD HYD              1.0 02:Dev           26.81    6.819 No_date    6:02   68.95  n/a     .000
04573>                    +     1.0 02:Pond          1.87     .534 No_date    6:00   61.54  n/a     .000
04574>                    +     1.0 02:EXT4B          .25     .084 No_date    6:00   86.83  n/a     .000
04575>                  SUM=    1.0 01:DevPondGas    28.93    7.354 No_date    6:01   68.62  n/a     .000
04576> R0199:C00037------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04577>     ADD HYD              1.0 02:Dev&Pond      28.68    7.281 No_date    6:01   68.46  n/a     .000
04578>                    +     1.0 02:Node_2R       18.48    1.112 No_date    6:35   70.75  n/a     .000
04579>                    +     1.0 02:EXT4B          .25     .084 No_date    6:00   86.83  n/a     .000
04580>                  SUM=    1.0 01:SWMPondIn     47.41    8.048 No_date    6:01   69.42  n/a     .000
04581> # SWM Pond (free outlet conditions)
04582> R0199:C00038------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04583>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    8.048 No_date    6:01   69.42  n/a     .000
04584>                   out <=    1.0 01:SWMPondOut    47.41    1.159 No_date    7:12   69.42  n/a     .000
04585>             overflow <=    1.0 03:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
04586>      {MxStoUsed=.1740E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04587> # SWM Pond (pond control orifices blockage scenario)
04588> R0199:C00039------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04589>     ROUTE RESERVOIR ->    1.0 02:SWMPondIn     47.41    8.048 No_date    6:01   69.42  n/a     .000
04590>  *                 out <=    1.0 01:SWMPoutBlk    47.41    1.021 No_date    7:22   29.66  n/a     .000
04591>             overflow <=    1.0 03:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
04592>      {MxStoUsed=.2112E+01  m3, TotOvfVol=.0000E+00  m3, N-Ovf=    0, TotDurOvf=    0.hrs}
04593> R0199:C00040------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04594>     ADD HYD              1.0 02:SWMPondOut    47.41    1.159 No_date    7:12   69.42  n/a     .000
04595>                    +     1.0 02:SWMPondOvf      .00     .000 No_date    0:00     .00  n/a     .000
04596>                  SUM=    1.0 01:Node_3pond    47.41    1.159 No_date    7:12   69.42  n/a     .000
04597> R0199:C00041------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04598>     SAVE HYD             1.0 01:Node_3pond    47.41    1.159 No_date    7:12   69.42  n/a     .000
04599>       fname :Node_3pond.0199
04600>       remark:Pond Outflow
```

```
04601> R0199:C00042------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04602>     ADD HYD               1.0 02:SWMPoutBlk    47.41    1.021 No_date    7:22   29.66  n/a     .000
04603>                   +       1.0 02:SWMPovfBlk      .00     .000 No_date    0:00     .00  n/a     .000
04604>                 SUM=      1.0 01:Node_3pBlk    47.41    1.021 No_date    7:22   29.66  n/a     .000
04605> # Park Block Draining Uncontrolled to Node 3
04606> R0199:C00043------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04607>     CALIB STANDHYD        1.0 01:2A_Park         .95     .240 No_date    6:01   44.99 .471     .000
04608>       [XIMP=.11:TIMP=.21]
04609>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04610>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04611>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  80.:MNI=.013:SCI=   .0]
04612> R0199:C00044------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04613>     ADD HYD               1.0 02:Node_3pond    47.41    1.159 No_date    7:12   69.42  n/a     .000
04614>                   +       1.0 02:2A_Park         .95     .240 No_date    6:01   44.99  n/a     .000
04615>                 SUM=      1.0 01:Node_3        48.36    1.161 No_date    7:11   68.94  n/a     .000
04616> R0199:C00045------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04617>     ROUTE CHANNEL   ->    1.0 02:Node_3        48.36    1.161 No_date    7:11   68.94  n/a     .000
04618>      [RDT= 1.00] out<-    1.0 01:Node_3R       48.36    1.119 No_date    7:57   68.94  n/a     .000
04619>       [L/S/n=  664./ .200/.035]
04620>       {Vmax=  .354:Dmax=  .244}
04621> R0199:C00046------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04622>     CALIB NASHYD          1.0 01:A-08           2.07     .053 No_date    6:47   23.27 .243     .000
04623>       [CN= 49.0: N= 3.00: Tp=  .78]
04624> R0199:C00047------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04625>     CALIB NASHYD          1.0 01:A-09           6.16     .106 No_date    7:25   23.27 .243     .000
04626>       [CN= 49.0: N= 3.00: Tp= 1.32]
04627> R0199:C00048------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04628>     CALIB NASHYD          1.0 01:A-12           7.79     .189 No_date    7:10   28.46 .298     .000
04629>       [CN= 56.0: N= 3.00: Tp= 1.11]
04630> # Uncontrolled Rear Yard Drainage Areas to Node Outlet
04631> R0199:C00049------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04632>     CALIB STANDHYD        1.0 01:Unc_8A          .25     .071 No_date    6:00   53.54 .560     .000
04633>       [XIMP=.26:TIMP=.36]
04634>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04635>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04636>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  41.:MNI=.013:SCI=   .0]
04637> R0199:C00050------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04638>     CALIB STANDHYD        1.0 01:Unc_8B          .14     .040 No_date    6:00   53.53 .560     .000
04639>       [XIMP=.26:TIMP=.36]
04640>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04641>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04642>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  31.:MNI=.013:SCI=   .0]
04643> R0199:C00051------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04644>     CALIB STANDHYD        1.0 01:Unc_6           .17     .048 No_date    6:00   53.54 .560     .000
04645>       [XIMP=.26:TIMP=.36]
04646>       [Horton parameters: Fo= 76.20:Fc= 13.20:DCAY=4.14:  F= .00]
04647>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
04648>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI=  34.:MNI=.013:SCI=   .0]
04649> # West Branch
04650> R0199:C00052------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04651>     CALIB NASHYD          1.0 01:A-04          18.63     .527 No_date    7:34   40.33 .422     .000
04652>       [CN= 69.0: N= 3.00: Tp= 1.47]
04653> R0199:C00053------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04654>     CALIB NASHYD          1.0 01:A-10           7.42     .147 No_date    7:39   29.27 .306     .000
04655>       [CN= 57.0: N= 3.00: Tp= 1.51]
04656> R0199:C00054------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04657>     ADD HYD               1.0 02:A-04          18.63     .527 No_date    7:34   40.33  n/a     .000
04658>                   +       1.0 02:A-10           7.42     .147 No_date    7:39   29.27  n/a     .000
04659>                 SUM=      1.0 01:Node_4        26.05     .674 No_date    7:35   37.18  n/a     .000
04660> R0199:C00055------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04661>     ROUTE CHANNEL   ->    1.0 02:Node_4        26.05     .674 No_date    7:35   37.18  n/a     .000
04662>      [RDT= 1.00] out<-    1.0 01:Node_4R       26.05     .672 No_date    7:40   37.18  n/a     .000
04663>       [L/S/n=  473./ .660/.035]
04664>       {Vmax= 1.022:Dmax=  .426}
04665> R0199:C00056------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04666>     CALIB NASHYD          1.0 01:A-11           7.93     .257 No_date    7:00   34.44 .360     .000
04667>       [CN= 63.0: N= 3.00: Tp=  .99]
04668> R0199:C00057------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04669>     ADD HYD               1.0 02:Node_3R       48.36    1.119 No_date    7:57   68.94  n/a     .000
04670>                   +       1.0 02:A-08           2.07     .053 No_date    6:47   23.27  n/a     .000
04671>                   +       1.0 02:A-09           6.16     .106 No_date    7:25   23.27  n/a     .000
04672>                   +       1.0 02:A-11           7.93     .257 No_date    7:00   34.44  n/a     .000
04673>                   +       1.0 02:A-12           7.79     .189 No_date    7:10   28.46  n/a     .000
04674>                   +       1.0 02:Unc_8A          .25     .071 No_date    6:00   53.54  n/a     .000
04675>                   +       1.0 02:Unc_8B          .14     .040 No_date    6:00   53.53  n/a     .000
04676>                   +       1.0 02:Unc_6           .17     .048 No_date    6:00   53.54  n/a     .000
04677>                   +       1.0 02:Node_4R       26.05     .672 No_date    7:40   37.18  n/a     .000
04678>                 SUM=      1.0 01:Outlet        98.92    2.315 No_date    7:31   50.74  n/a     .000
04679> R0199:C00058------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
04680>     SAVE HYD              1.0 01:Outlet        98.92    2.315 No_date    7:31   50.74  n/a     .000
04681>       fname :Outlet.0199
04682>       remark:Total Outflows to Sandy Hook Road
04683> R0199:C00002-------------------------------------------------------------------------------------------
04684>     FINISH
04685> -------------------------------------------------------------------------------------------------------
04686> *******************************************************************************************************
04687>      WARNINGS / ERRORS / NOTES
04688>      -------------------------
04689> R0001:C00031  ROUTE PIPE      ->
04690> *** WARNING: New pipe size used for routing.
04691> R0001:C00039  ROUTE RESERVOIR
04692> *** WARNING: Outflow volume is less than inflow volume.
```

```
04693> R0002:C00031  ROUTE PIPE      ->
04694> *** WARNING: New pipe size used for routing.
04695> R0002:C00039  ROUTE RESERVOIR
04696> *** WARNING: Outflow volume is less than inflow volume.
04697> R0005:C00031  ROUTE PIPE      ->
04698> *** WARNING: New pipe size used for routing.
04699> R0005:C00039  ROUTE RESERVOIR
04700> *** WARNING: Outflow volume is less than inflow volume.
04701> R0010:C00031  ROUTE PIPE      ->
04702> *** WARNING: New pipe size used for routing.
04703> R0010:C00039  ROUTE RESERVOIR
04704> *** WARNING: Outflow volume is less than inflow volume.
04705> R0025:C00031  ROUTE PIPE      ->
04706> *** WARNING: New pipe size used for routing.
04707> R0025:C00039  ROUTE RESERVOIR
04708> *** WARNING: Outflow volume is less than inflow volume.
04709> R0050:C00031  ROUTE PIPE      ->
04710> *** WARNING: New pipe size used for routing.
04711> R0050:C00039  ROUTE RESERVOIR
04712> *** WARNING: Outflow volume is less than inflow volume.
04713> R0099:C00031  ROUTE PIPE      ->
04714> *** WARNING: New pipe size used for routing.
04715> R0099:C00039  ROUTE RESERVOIR
04716> *** WARNING: Outflow volume is less than inflow volume.
04717> R0102:C00031  ROUTE PIPE      ->
04718> *** WARNING: New pipe size used for routing.
04719> R0102:C00039  ROUTE RESERVOIR
04720> *** WARNING: Outflow volume is less than inflow volume.
04721> R0105:C00031  ROUTE PIPE      ->
04722> *** WARNING: New pipe size used for routing.
04723> R0105:C00039  ROUTE RESERVOIR
04724> *** WARNING: Outflow volume is less than inflow volume.
04725> R0110:C00031  ROUTE PIPE      ->
04726> *** WARNING: New pipe size used for routing.
04727> R0110:C00039  ROUTE RESERVOIR
04728> *** WARNING: Outflow volume is less than inflow volume.
04729> R0125:C00031  ROUTE PIPE      ->
04730> *** WARNING: New pipe size used for routing.
04731> R0125:C00039  ROUTE RESERVOIR
04732> *** WARNING: Outflow volume is less than inflow volume.
04733> R0150:C00031  ROUTE PIPE      ->
04734> *** WARNING: New pipe size used for routing.
04735> R0150:C00039  ROUTE RESERVOIR
04736> *** WARNING: Outflow volume is less than inflow volume.
04737> R0199:C00031  ROUTE PIPE      ->
04738> *** WARNING: New pipe size used for routing.
04739> R0199:C00039  ROUTE RESERVOIR
04740> *** WARNING: Outflow volume is less than inflow volume.
04741>    Simulation ended on 2025-05-20     at 15:35:19
04742> ===============================================================================================
04743>
```

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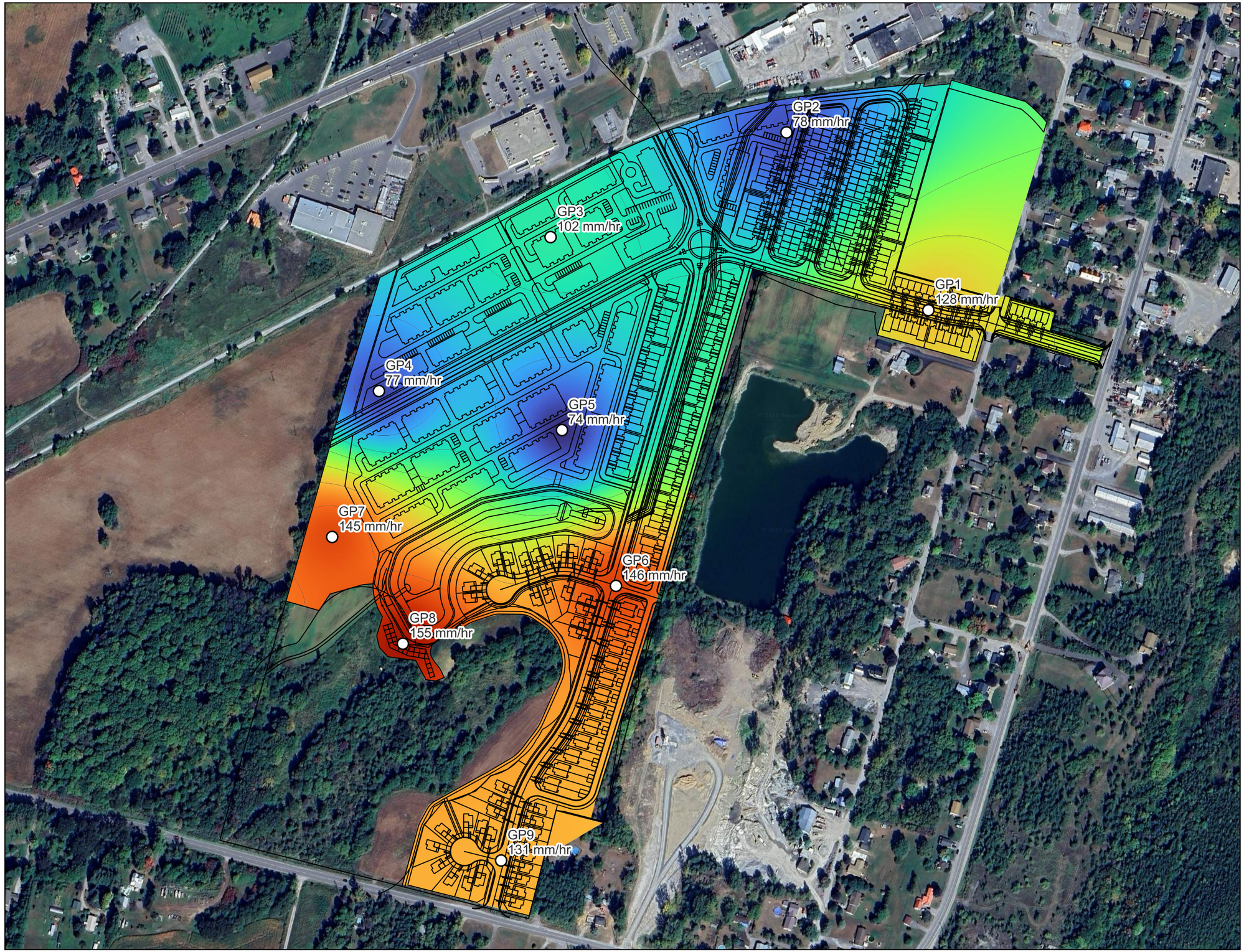
# Attachment B

LID Analysis




N

## Legend

- Infiltration Test Locations
- Site Plan

Infiltration Rate (mm/hr)

- 70
- 80
- 90
- 100
- 110
- 120
- 130
- 140
- 150
- 160

SCALE: 1:4000

0 100 200 m

JFSA CANADA INC.
WATER RESOURCE ENGINEERING, ENVIRONMENTAL MANAGEMENT AND LAND PLANNING CONSULTANTS

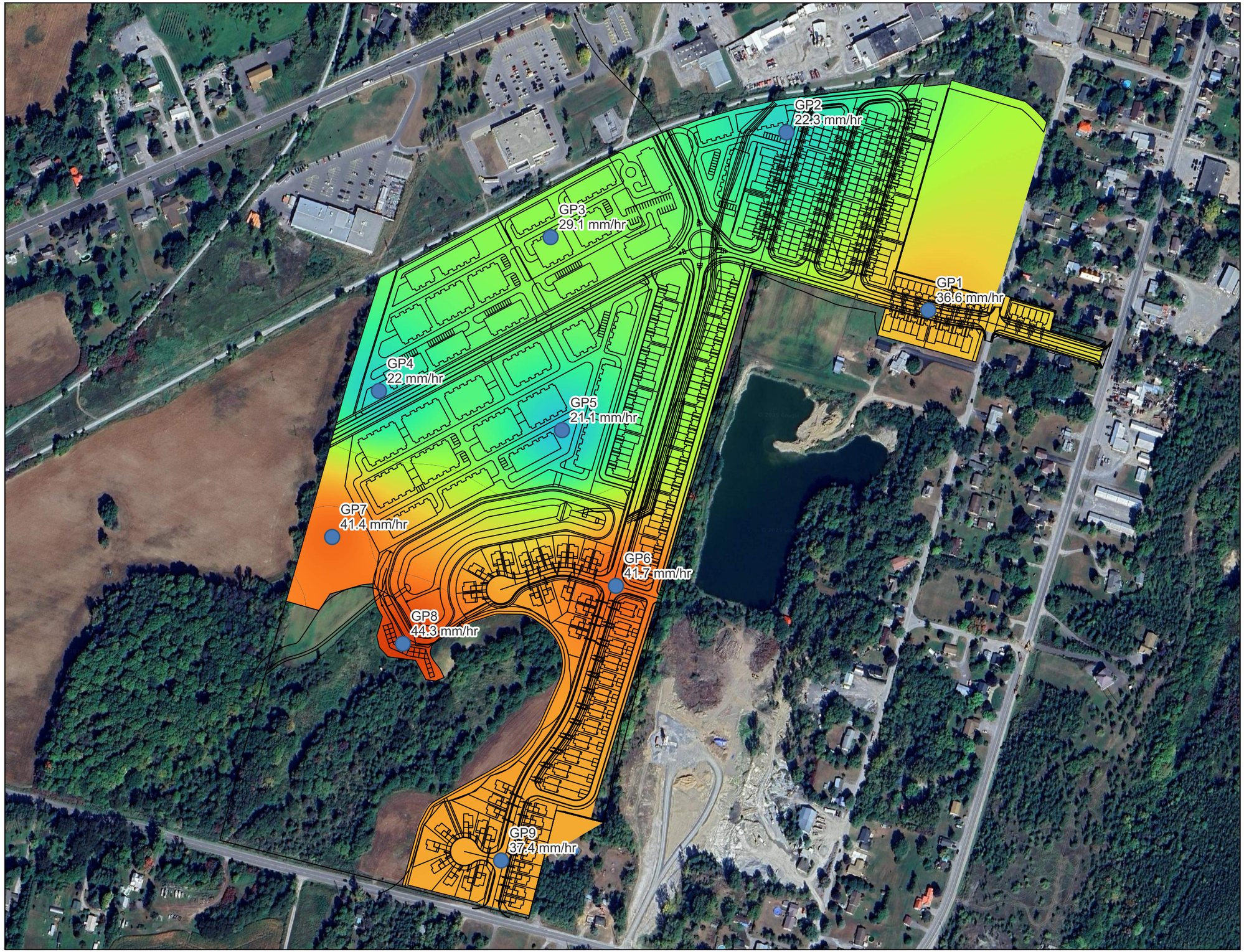
INSITE PROJECT CONSULTING INC.

Cold Creek Subdivision

Figure B1: Soil Infiltration Testing Results

| | |
|---|---|
| PROJECT | 2528-23 |
| DRAWN | JF |
| DATE | 15-05-2025 |

C:\Users\JonathonBurnett\J.F. Sabourin and Associates Inc\JFSA-OTTAWA-SERVER - Documents\PROJ\2528-23\Design\GIS\20250512-Infiltration Testing




N

## Legend

- Infiltration Test Locations
- Site Plan

Design Rate (mm/hr)

- 10
- 15
- 20
- 25
- 30
- 35
- 40
- 45
- 50

SCALE: 1:4000

0 100 200 m

JFSA CANADA INC.
WATER RESOURCE ENGINEERING, ENVIRONMENTAL MANAGEMENT AND LAND PLANNING CONSULTANTS

INSITE PROJECT CONSULTING INC.

Cold Creek Subdivision

Figure B2: Design Infiltration Rates

| | |
|---|---|
| PROJECT | 2528-23 |
| DRAWN | JF |
| DATE | 15-05-2025 |

C:\Users\JonathonBurnett\J.F. Sabourin and Associates Inc\JFSA-OTTAWA-SERVER - Documents\PROJ\2528-23\Design\GIS\20250512-Infiltration Testing

**Table B1 - Phase 1 - Annual LID Infiltration Summary**
**(LID Volume = 160 $m^3$)**

| Year | Total Rainfall (mm/Year) | Development Runoff Volume ($m^3$/yr) | LID Infiltration Volume ($m^3$/yr) | % of Runoff Infiltrated |
|---|---|---|---|---|
| 1982 | 447 | 16,026 | 7,019 | 44% |
| 1983 | 198 | 5,681 | 3,406 | 60% |
| 1984 | 556 | 20,363 | 9,313 | 46% |
| 1985 | 445 | 14,796 | 7,952 | 54% |
| 1986 | 721 | 28,133 | 10,940 | 39% |
| 1987 | 499 | 16,699 | 8,652 | 52% |
| 1988 | 420 | 12,212 | 8,362 | 68% |
| 1989 | 481 | 15,831 | 8,856 | 56% |
| 1990 | 573 | 19,653 | 10,335 | 53% |
| 1991 | 496 | 16,222 | 9,075 | 56% |
| 1992 | 466 | 17,139 | 6,975 | 41% |
| 1993 | 448 | 14,342 | 8,561 | 60% |
| 1994 | 545 | 19,859 | 8,287 | 42% |
| 1998 | 297 | 8,944 | 5,662 | 63% |
| 2003 | 381 | 12,410 | 6,574 | 53% |
| 2008 | 432 | 16,259 | 6,365 | 39% |
| 2009 | 502 | 16,282 | 9,088 | 56% |
| 2010 | 625 | 22,069 | 10,179 | 46% |
| 2012 | 382 | 14,304 | 5,359 | 37% |
| 2013 | 560 | 18,246 | 10,066 | 55% |
| 2014 | 580 | 19,647 | 10,433 | 53% |
| 2015 | 540 | 19,194 | 8,333 | 43% |
| 2016 | 216 | 7,271 | 2,922 | 40% |
| 2017 | 858 | 35,838 | 11,946 | 33% |
| 2019 | 746 | 24,291 | 13,558 | 56% |
| 2020 | 791 | 26,599 | 13,163 | 49% |
| 2021 | 618 | 18,577 | 11,640 | 63% |
| 2022 | 814 | 27,962 | 14,089 | 50% |
| 2023 | 502 | 16,525 | 9,202 | 56% |
| 2024 | 701 | 21,924 | 12,209 | 56% |
| **Average** | **523** | **18,030** | **8,825** | **51%** |
| Min | 198 | 5,681 | 2,922 | 33% |
| Max | 858 | 35,838 | 14,089 | 68% |
| Standard Dev | 161 | 6,310 | 2,758 | 9% |

**Table B2 -Full Development - Annual LID Infiltration Summary**
**(LID Volume = 350 $m^3$)**

| Year | Total Rainfall (mm/Year) | Development Runoff Volume ($m^3$/yr) | LID Infiltration Volume ($m^3$/yr) | % of Runoff Infiltrated |
|---|---|---|---|---|
| 1982 | 447 | 59,189 | 17,779 | 30% |
| 1983 | 198 | 20,405 | 8,876 | 43% |
| 1984 | 556 | 75,315 | 22,645 | 30% |
| 1985 | 445 | 54,133 | 19,825 | 37% |
| 1986 | 721 | 105,390 | 28,270 | 27% |
| 1987 | 499 | 61,176 | 22,190 | 36% |
| 1988 | 420 | 43,774 | 21,813 | 50% |
| 1989 | 481 | 57,479 | 22,239 | 39% |
| 1990 | 573 | 72,057 | 26,618 | 37% |
| 1991 | 496 | 59,079 | 23,480 | 40% |
| 1992 | 466 | 63,817 | 18,418 | 29% |
| 1993 | 448 | 52,197 | 22,490 | 43% |
| 1994 | 545 | 73,755 | 20,628 | 28% |
| 1998 | 297 | 32,059 | 14,220 | 44% |
| 2003 | 381 | 45,393 | 17,883 | 39% |
| 2008 | 432 | 60,585 | 16,096 | 27% |
| 2009 | 502 | 59,302 | 23,153 | 39% |
| 2010 | 625 | 81,197 | 25,347 | 31% |
| 2012 | 382 | 53,549 | 13,972 | 26% |
| 2013 | 560 | 66,659 | 26,365 | 40% |
| 2014 | 580 | 72,384 | 26,764 | 37% |
| 2015 | 540 | 70,963 | 20,752 | 29% |
| 2016 | 216 | 26,759 | 7,239 | 27% |
| 2017 | 858 | 136,000 | 29,990 | 22% |
| 2019 | 746 | 88,802 | 34,727 | 39% |
| 2020 | 791 | 97,794 | 33,481 | 34% |
| 2021 | 618 | 67,200 | 30,341 | 45% |
| 2022 | 814 | 102,677 | 35,710 | 35% |
| 2023 | 502 | 60,333 | 23,707 | 39% |
| 2024 | 701 | 79,710 | 32,135 | 40% |
| **Average** | **523** | **59,418** | **20,307** | **35%** |
| Min | 198 | 20,405 | 7,239 | 26% |
| Max | 858 | 136,000 | 28,270 | 50% |
| Standard Dev | 161 | 23,826 | 5,468 | 7% |

```
20    Metric units / ID numbers OFF
*#*************************************************************************************************
*#  SWMHYMO  / INPUT DATA FILE
*#*************************************************************************************************
*#  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
*#  Date        : [15 MAY 2025]
*#  Modeller    : [JB]
*#  Company     : JFSAinc.
*#  License #   :  2549237
*#*************************************************************************************************
*# SWMHYMO model of Cold Creek development -  LID analysis
*#*************************************************************************************************
*************************************************************************
*%-----------------|-------------------------------------------------------|
START               TZERO=[1982.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[1982]
*%                   [""] <--storm filename, one per line for NSTORM time
*%-----------------|-------------------------------------------------------|
*# Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
READ AES DATA       AES_FILENAME=["Kings_1982-2025.txt"],
                    IELEM=[123], START_DATE=[0], END_DATE=[-364]
*%-----------------|-------------------------------------------------------|
*%-----------------|-------------------------------------------------------|
COMPUTE API         APII=[25], APIK=[0.9]/day
*%-----------------|-------------------------------------------------------|
*#*************************************************************************************************
*# Phase 1
*#*************************************************************************************************
CONTINUOUS STANDHYD NHYD=["P1"], DT=[5](min), AREA=[7.741](ha), XIMP=[0.43], TIMP=[0.53],
 DWF=[0](cms),
                    LOSS=[2]: SCS curve number CN=[ 79  ],
                    Pervious   areas: IAper=[4.67](mm), SLPP=[2.0](%), LGP=[40](m),
                    MNP=[0.25], SCP=[0](min),
                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[227](m),
                    MNI=[0.013], SCI=[0](min),
                    Continuous simulation parameters:
                    IaRECper=[ 8 ](hrs),  IaRECimp=[ 24 ](hrs),
                    SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm), InterEventTime=[ 12
                    ](hrs), END=-1
*%-----------------|-------------------------------------------------------------------
------------------------------|
* Avearge soil infiltration rate 31mm/hr
ROUTE RESERVOIR     NHYDout=["P1-Inf"], NHYDin=["P1"], RDT=[5](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                   (cms) - (ha-m)
                                 [   0.0 ,  0.0 ]
                                 [   0.0043 ,  0.0001 ]
                                 [   0.00431 ,  0.0160 ]
                                 [   -1  ,  -1  ]  (maximum one hundred pairs of points)
                                NHYDovf=["P1-Over"],
*#*************************************************************************************************
*# Full Development
*#*************************************************************************************************
*%-----------------|-------------------------------------------------------------------
------------------------------|
CONTINUOUS STANDHYD NHYD=["Full-Dev"], DT=[5](min), AREA=[31.441](ha), XIMP=[0.37],
TIMP=[0.47], DWF=[0](cms),
                    LOSS=[2]: SCS curve number CN=[ 79  ],
                    Pervious   areas: IAper=[4.67](mm), SLPP=[2.0](%), LGP=[40](m),
                    MNP=[0.25], SCP=[0](min),
                    Impervious areas: IAimp=[1.57](mm), SLPI=[0.5](%), LGI=[458](m),
                    MNI=[0.013], SCI=[0](min),
```

```
                    Continuous simulation parameters:
                    IaRECper=[ 8 ](hrs),  IaRECimp=[ 24 ](hrs),
                    SMIN=[-1](mm), SMAX=[-1](mm), SK=[0.03]/(mm), InterEventTime=[ 12
                    ](hrs), END=-1
*%-----------------|-------------------------------------------------------------------
-----------------------------|
* Avearge soil infiltration rate 31mm/hr
ROUTE RESERVOIR     NHYDout=["Full-Inf"], NHYDin=["Full-Dev"], RDT=[5](min),
                         TABLE of ( OUTFLOW-STORAGE ) values
                                   (cms) - (ha-m)
                                  [   0.0 ,  0.0 ]
                                  [   0.0094 ,  0.0001 ]
                                  [   0.00941 ,  0.0350 ]
                                  [   -1  ,  -1  ]  (maximum one hundred pairs of points)
                                 NHYDovf=["Full-Over"],
*%-----------------|-------------------------------------------------------------------
-----------------|
*#########################################################################
*# STORMS
*#########################################################################
START               TZERO=[1982.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[1982]
*%-----------------|-------------------------------------------------------|
START               TZERO=[1983.0101],  METOUT=[2],  NSTORM=[0],  NRUN=[1983]
*%-----------------|-------------------------------------------------------|
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FINISH
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00001>  ================================================================================
00002>
00003>  SSSSS   W   W   M   M   H   H   Y   Y   M   M    OOO          222     000    11   5555   =========
00004>  S       W W W   MM MM   H   H    Y Y    MM MM   O   O          2   2   0   0  111   5
00005>  SSSSS   W W W   M M M   HHHHH     Y     M M M   O   O          2   0   0   0   11   5       Ver 5.500
00006>      S   W W     M   M   H   H     Y     M   M   O   O        222   0   0   0   11   555     FEB  2015
00007>  SSSSS    W W     M   M   H   H     Y     M   M    OOO        2     0   0   0   11     5     =========
00008>                                                               2     0   0   0   11     5     # 2549237
00009>         StormWater Management HYdrologic Model                222     000    11   555     =========
00010>
00011>  ***********************************************************************************
00012>  ********************************  SWMHYMO Ver 5.500  ********************************
00013>  ********************  A single event and continuous hydrologic simulation model  ********************
00014>  ********************       based on the principles of HYMO and its successors    ********************
00015>  ********************              OTTHYMO-83 and OTTHYMO-89.                      ********************
00016>  ***********************************************************************************
00017>  ********************* Distributed by:  J.F. Sabourin and Associates Inc.          ********************
00018>  ********************                  Ottawa, Ontario: (613) 836-3884            ********************
00019>  ********************                  Gatineau, Quebec: (819) 243-6858           ********************
00020>  ********************                  E-Mail: swmhymo@jfsa.com                   ********************
00021>  ***********************************************************************************
00022>
00023>  ***********************************************************************************************
00024>  ++++++++++++++++++ Licensed user: JFSAinc.                          ++++++++++++++++++++
00025>  ++++++++++++++++++                 Ottawa                SERIAL#:2549237              ++++++++++++++++++++
00026>  ***********************************************************************************************
00027>
00028>  ********************                                                   ********************
00029>  ********************          ++++++ PROGRAM ARRAY DIMENSIONS ++++++   ********************
00030>  ********************      Maximum value for ID numbers  :    11        ********************
00031>  ********************      Max. number of rainfall points: 105408       ********************
00032>  ********************      Max. number of flow points   : 105408        ********************
00033>  ***********************************************************************************
00034>
00035>
00036>  ******************************  S U M M A R Y   O U T P U T  ******************************
00037>  ***********************************************************************************
00038>  *                  RUN DATE: 2025-05-14      TIME: 11:43:12      RUN COUNTER: 006664      *
00039>  ***********************************************************************************
00040>  * Input   file: C:\Temp\20250514-Cold Creek LID Analysis\COLD-LID_v01.0-Cont.dat       *
00041>  * Output  file: C:\Temp\20250514-Cold Creek LID Analysis\COLD-LID_v01.0-Cont.out       *
00042>  * Summary file: C:\Temp\20250514-Cold Creek LID Analysis\COLD-LID_v01.0-Cont.sum       *
00043>  * User comments:                                                                      *
00044>  * 1:_____________________________________________________________________________*
00045>  * 2:_____________________________________________________________________________*
00046>  * 3:_____________________________________________________________________________*
00047>  ***********************************************************************************
00048>
00049>
00050> #*********************************************************************************************
00051> #  SWMHYMO  / INPUT DATA FILE
00052> #*********************************************************************************************
00053> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00054> #  Date        : [15 MAY 2025]
00055> #  Modeller    : [JB]
00056> #  Company     : JFSAinc.
00057> #  License #   :  2549237
00058> #*********************************************************************************************
00059> # SWMHYMO model of Cold Creek development -  LID analysis
00060> #*********************************************************************************************
00061>   ** END OF RUN : 1981
00062>
00063>  ***********************************************************************************
00064>
00065>
00066>
00067>
00068>
00069>  RUN#:COMMAND#
00070> R1982:C00001------------------------------------------------------------------------
00071>       START
00072>         [TZERO =    .00 hrs on 19820101]
00073>         [METOUT=   2    (1=imperial, 2=metric output)]
00074>         [NSTORM=   0 ]
00075>         [NRUN  = 1982 ]
00076> #*********************************************************************************************
00077> #  SWMHYMO  / INPUT DATA FILE
00078> #*********************************************************************************************
00079> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00080> #  Date        : [15 MAY 2025]
00081> #  Modeller    : [JB]
00082> #  Company     : JFSAinc.
00083> #  License #   :  2549237
00084> #*********************************************************************************************
00085> # SWMHYMO model of Cold Creek development -  LID analysis
00086> #*********************************************************************************************
00087> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00088> R1982:C00002------------------------------------------------------------------------
00089>   *  READ AES DATA
00090>         [Filename  = Kings_1982-2025.txt                                  ]
00091>         [Start_date= 1982.0101: End_date= 1982.1231]
00092>         (DT= 60.min: Length= 5592.hrs: WetHrs=  245: DryHrs= 5347: PTOT= 447.30)
00093>         Maximum average rainfall intensities over
00094>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00095>          18.80    14.35    11.57     7.67     4.25     2.13     1.42     1.06      .83    mm/hr
00096>          18.80    28.10    34.70    46.00    51.00    51.00    51.00    51.00    59.40    mm
00097>        19820718 19820825 19820825 19820825 19820825 19820826 19820826 19820826 19820827 19820825  date
00098>        Number of rainfall events per following interevent time
00099>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00100>            88       74       70       57       49       42       35       26       16
00101>        Number of events with at least the following durations
00102>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00103>            87       54       32       13        0        0        0        0        0
00104> R1982:C00003------------------------------------------------------------------------
00105>       COMPUTE API
00106>         [APIinit= 25.00: APIkdy= .9000: APIkdt= .9956]
00107>         (APImax= 64.55: APIavg= 19.27: APImin=  .02)
00108> #*********************************************************************************************
00109> # Phase 1
00110> #*********************************************************************************************
00111> R1982:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00112>       CONTINUOUS STANDHYD    5.0 01:P1              7.74     .283 1982.0825_16:00  207.06 .463     .000
00113>         [XIMP=.43:TIMP=.53]
00114>         [LOSS= 2 :CN= 79.0]
00115>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00116>         [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00117>         [IaRECimp=  24.00: IaRECper=   8.00]
00118>         [SMIN= 27.47: SMAX=183.15: SK= .030]
00119> R1982:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00120>     ROUTE RESERVOIR ->     5.0 02:P1              7.74     .283 1982.0825_16:00  207.06 n/a      .000
00121>                  out <=    5.0 01:P1-Inf          3.39     .004 1982.0524_13:40  207.06 n/a      .000
00122>               overflow <=  5.0 03:P1-Over         4.35     .275 1982.0825_16:05  207.06 n/a      .000
00123>       (MxStoUsed=.1600E-01  m3, TotOvfVol=.9002E+00  m3, N-Ovf=   46, TotDurOvf=   49.hrs)
00124> #*********************************************************************************************
00125> # Full Development
00126> #*********************************************************************************************
00127> R1982:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00128>       CONTINUOUS STANDHYD    5.0 01:Full-Dev       31.44    1.075 1982.0825_16:05  188.26 .421     .000
00129>         [XIMP=.37:TIMP=.47]
00130>         [LOSS= 2 :CN= 79.0]
00131>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00132>         [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00133>         [IaRECimp=  24.00: IaRECper=   8.00]
00134>         [SMIN= 27.47: SMAX=183.15: SK= .030]
00135> R1982:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00136>     ROUTE RESERVOIR ->     5.0 02:Full-Dev       31.44    1.075 1982.0825_16:05  188.26 n/a      .000
00137>                  out <=    5.0 01:Full-Inf        9.44     .009 1982.0520_ 0:40  188.34 n/a      .000
00138>               overflow <=  5.0 03:Full-Over      22.00    1.060 1982.0825_16:05  188.26 n/a      .000
00139>       (MxStoUsed=.3499E-01  m3, TotOvfVol=.4142E+01  m3, N-Ovf=   60, TotDurOvf=   79.hrs)
00140> ###############################################################################
00141> # STORMS
00142> ###############################################################################
00143>   ** END OF RUN : 1982
00144>
00145>  ***********************************************************************************
00146>
00147>
00148>
00149>
00150>
00151>  RUN#:COMMAND#
00152> R1983:C00001------------------------------------------------------------------------
00153>       START
00154>         [TZERO =    .00 hrs on 19830101]
00155>         [METOUT=   2    (1=imperial, 2=metric output)]
00156>         [NSTORM=   0 ]
00157>         [NRUN  = 1983 ]
00158> #*********************************************************************************************
00159> #  SWMHYMO  / INPUT DATA FILE
00160> #*********************************************************************************************
00161> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00162> #  Date        : [15 MAY 2025]
00163> #  Modeller    : [JB]
00164> #  Company     : JFSAinc.
00165> #  License #   :  2549237
00166> #*********************************************************************************************
00167> # SWMHYMO model of Cold Creek development -  LID analysis
00168> #*********************************************************************************************
00169> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00170> R1983:C00002------------------------------------------------------------------------
00171>   *  READ AES DATA
00172>         [Filename  = Kings_1982-2025.txt                                  ]
00173>         [Start_date= 1983.0101: End_date= 1983.1231]
00174>         (DT= 60.min: Length= 8760.hrs: WetHrs=  150: DryHrs= 8610: PTOT= 197.90)
00175>         Maximum average rainfall intensities over
00176>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00177>          20.80    10.40     6.93     4.48     2.33     1.17      .78      .58      .40    mm/hr
00178>          20.80    20.80    20.80    26.90    28.00    28.00    28.00    29.00    29.00    mm
00179>        19830807 19830807 19830807 19830921 19830922 19830922 19830923 19830923 19830924  date
00180>        Number of rainfall events per following interevent time
00181>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00182>             63       51       48       42       39       32       32       27       19
00183>        Number of events with at least the following durations
00184>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00185>             62       30       19        6        0        0        0        0        0
00186> R1983:C00003------------------------------------------------------------------------
00187>       COMPUTE API
00188>         [APIinit= 25.00: APIkdy= .9000: APIkdt= .9956]
00189>         (APImax= 37.43: APIavg=  5.81: APImin=   .00)
00190> #*********************************************************************************************
00191> # Phase 1
00192> #*********************************************************************************************
00193> R1983:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00194>       CONTINUOUS STANDHYD    5.0 01:P1              7.74     .209 1983.0807_ 3:00   73.40 .371     .000
00195>         [XIMP=.43:TIMP=.53]
00196>         [LOSS= 2 :CN= 79.0]
00197>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00198>         [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00199>         [IaRECimp=  24.00: IaRECper=   8.00]
00200>         [SMIN= 27.47: SMAX=183.15: SK= .030]
00201> R1983:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00202>     ROUTE RESERVOIR ->     5.0 02:P1              7.74     .209 1983.0807_ 3:00   73.40  n/a      .000
00203>                  out <=    5.0 01:P1-Inf          4.64     .004 1983.0508_14:25   73.40  n/a      .000
00204>               overflow <=  5.0 03:P1-Over         3.10     .202 1983.0807_ 3:00   73.40  n/a      .000
00205>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.2279E+00  m3, N-Ovf=   19, TotDurOvf=   20.hrs)
00206> #*********************************************************************************************
00207> # Full Development
00208> #*********************************************************************************************
00209> R1983:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00210>       CONTINUOUS STANDHYD    5.0 01:Full-Dev       31.44     .700 1983.0807_ 3:00   64.90 .328     .000
00211>         [XIMP=.37:TIMP=.47]
00212>         [LOSS= 2 :CN= 79.0]
00213>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00214>         [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00215>         [IaRECimp=  24.00: IaRECper=   8.00]
00216>         [SMIN= 27.47: SMAX=183.15: SK= .030]
00217> R1983:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00218>     ROUTE RESERVOIR ->     5.0 02:Full-Dev       31.44     .700 1983.0807_ 3:00   64.90  n/a      .000
00219>                  out <=    5.0 01:Full-Inf       13.67     .009 1983.0508_12:50   64.93  n/a      .000
00220>               overflow <=  5.0 03:Full-Over      17.77     .677 1983.0807_ 3:05   64.90  n/a      .000
00221>       (MxStoUsed=.3495E-01  m3, TotOvfVol=.1154E+01  m3, N-Ovf=   37, TotDurOvf=   38.hrs)
00222> ###############################################################################
00223> # STORMS
00224> ###############################################################################
00225>   ** END OF RUN : 1983
00226>
00227>  ***********************************************************************************
00228>
00229>
00230>
00231>
00232>
00233>  RUN#:COMMAND#
00234> R1984:C00001------------------------------------------------------------------------
00235>       START
00236>         [TZERO =    .00 hrs on 19840101]
00237>         [METOUT=   2    (1=imperial, 2=metric output)]
00238>         [NSTORM=   0 ]
00239>         [NRUN  = 1984 ]
00240> #*********************************************************************************************
00241> #  SWMHYMO  / INPUT DATA FILE
00242> #*********************************************************************************************
00243> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00244> #  Date        : [15 MAY 2025]
00245> #  Modeller    : [JB]
00246> #  Company     : JFSAinc.
00247> #  License #   :  2549237
00248> #*********************************************************************************************
00249> # SWMHYMO model of Cold Creek development -  LID analysis
00250> #*********************************************************************************************
00251> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00252> R1984:C00002------------------------------------------------------------------------
00253>   *  READ AES DATA
00254>         [Filename  = Kings_1982-2025.txt                                  ]
00255>         [Start_date= 1984.0101: End_date= 1984.1230]
00256>         (DT= 60.min: Length= 8760.hrs: WetHrs=  361: DryHrs= 8399: PTOT= 555.90)
00257>         Maximum average rainfall intensities over
00258>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00259>          18.60    15.60    10.60     6.40     3.41     2.10     2.22     1.86     1.41    mm/hr
00260>          18.60    31.20    31.80    38.40    40.90    50.40    79.90    89.20   101.20    mm
00261>        19840816 19840813 19840813 19840813 19840814 19840815 19840814 19840815 19840815  date
00262>        Number of rainfall events per following interevent time
00263>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00264>            121       97       71       58       40       36       32       25
00265>        Number of events with at least the following durations
00266>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00267>            120       66       43       17        5        0        0        0        0
00268> R1984:C00003------------------------------------------------------------------------
00269>       COMPUTE API
00270>         [APIinit= 25.00: APIkdy= .9000: APIkdt= .9956]
00271>         (APImax=108.90: APIavg= 15.13: APImin=   .00)
00272> #*********************************************************************************************
00273> # Phase 1
00274> #*********************************************************************************************
00275> R1984:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00276>       CONTINUOUS STANDHYD    5.0 01:P1              7.74     .263 1984.0813_10:05  263.09 .473     .000
00277>         [XIMP=.43:TIMP=.53]
00278>         [LOSS= 2 :CN= 79.0]
00279>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00280>         [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00281>         [IaRECimp=  24.00: IaRECper=   8.00]
00282>         [SMIN= 27.47: SMAX=183.15: SK= .030]
00283> R1984:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00284>     ROUTE RESERVOIR ->     5.0 02:P1              7.74     .263 1984.0813_10:05  263.09  n/a      .000
00285>                  out <=    5.0 01:P1-Inf          3.54     .004 1984.0405_18:25  263.09  n/a      .000
00286>               overflow <=  5.0 03:P1-Over         4.20     .256 1984.0813_10:05  263.09  n/a      .000
00287>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.1104E+01  m3, N-Ovf=   68, TotDurOvf=   91.hrs)
00288> #*********************************************************************************************
00289> # Full Development
00290> #*********************************************************************************************
00291> R1984:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00292>       CONTINUOUS STANDHYD    5.0 01:Full-Dev       31.44    1.003 1984.0813_10:25  239.55 .431     .000
00293>         [XIMP=.37:TIMP=.47]
00294>         [LOSS= 2 :CN= 79.0]
00295>         [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00296>         [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00297>         [IaRECimp=  24.00: IaRECper=   8.00]
00298>         [SMIN= 27.47: SMAX=183.15: SK= .030]
00299> R1984:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00300>     ROUTE RESERVOIR ->     5.0 02:Full-Dev       31.44    1.003 1984.0813_10:25  239.55  n/a      .000
00301>                  out <=    5.0 01:Full-Inf        9.45     .009 1984.0405_15:20  239.63  n/a      .000
00302>               overflow <=  5.0 03:Full-Over      21.99     .985 1984.0813_10:25  239.55  n/a      .000
00303>       (MxStoUsed=.3493E-01  m3, TotOvfVol=.5268E+01  m3, N-Ovf=   94, TotDurOvf=  149.hrs)
00304> ###############################################################################
00305> # STORMS
00306> ###############################################################################
00307>   ** END OF RUN : 1984
00308>
00309>  ***********************************************************************************
00310>
00311>
00312>
00313>
00314>
00315>  RUN#:COMMAND#
00316> R1985:C00001------------------------------------------------------------------------
00317>       START
00318>         [TZERO =    .00 hrs on 19850101]
00319>         [METOUT=   2    (1=imperial, 2=metric output)]
00320>         [NSTORM=   0 ]
00321>         [NRUN  = 1985 ]
00322> #*********************************************************************************************
00323> #  SWMHYMO  / INPUT DATA FILE
00324> #*********************************************************************************************
00325> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00326> #  Date        : [15 MAY 2025]
00327> #  Modeller    : [JB]
00328> #  Company     : JFSAinc.
00329> #  License #   :  2549237
00330> #*********************************************************************************************
00331> # SWMHYMO model of Cold Creek development -  LID analysis
00332> #*********************************************************************************************
00333> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00334> R1985:C00002------------------------------------------------------------------------
00335>   *  READ AES DATA
00336>         [Filename  = Kings_1982-2025.txt                                  ]
00337>         [Start_date= 1985.0101: End_date= 1985.1231]
00338>         (DT= 60.min: Length= 8760.hrs: WetHrs=  320: DryHrs= 8440: PTOT= 445.30)
00339>         Maximum average rainfall intensities over
00340>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00341>          31.00    21.95    16.17     8.08     4.04     2.03     1.36     1.02      .68    mm/hr
00342>          31.00    43.90    48.50    48.50    48.50    48.80    48.80    48.80    48.80    mm
00343>        19850715 19850715 19850715 19850715 19850715 19850716 19850716 19850717 19850717  date
00344>        Number of rainfall events per following interevent time
00345>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00346>            130      100       89       71       62       52       43       38       25
00347>        Number of events with at least the following durations
00348>           1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00349>            129       68       39       13        1        0        0        0        0
00350> R1985:C00003------------------------------------------------------------------------
00351>       COMPUTE API
00352>         [APIinit= 25.00: APIkdy= .9000: APIkdt= .9956]
00353>         (APImax= 68.49: APIavg= 12.25: APImin=   .00)
00354> #*********************************************************************************************
00355> # Phase 1
00356> #*********************************************************************************************
00357> R1985:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00358>       CONTINUOUS STANDHYD    5.0 01:P1              7.74     .464 1985.0715_20:00  191.16 .429     .000
00359>         [XIMP=.43:TIMP=.53]
00360>         [LOSS= 2 :CN= 79.0]
```

```
00361>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00362>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00363>       [IaRECimp=  24.00: IaRECper=   8.00]
00364>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00365> R1985:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00366>     ROUTE RESERVOIR ->    5.0 02:P1             7.74     .464 1985.0715_20:00  191.16  n/a     .000
00367>               out <=    5.0 01:P1-Inf         4.16     .004 1985.0505_19:30  191.16  n/a     .000
00368>           overflow <=   5.0 03:P1-Over        3.58     .457 1985.0715_20:05  191.16  n/a     .000
00369>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.6843E+00  m3, N-Ovf=   54, TotDurOvf=   52.hrs)
00370> ##########################################################################
00371> # Full Development
00372> ##########################################################################
00373> R1985:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00374>     CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44    1.711 1985.0715_20:05  172.18 .387     .000
00375>       [XIMP=.37:TIMP=.47]
00376>       [LOSS= 2 :CN= 79.0]
00377>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00378>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00379>       [IaRECimp=  24.00: IaRECper=   8.00]
00380>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00381> R1985:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00382>     ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44    1.711 1985.0715_20:05  172.18  n/a     .000
00383>               out <=    5.0 01:Full-Inf      11.51     .009 1985.0405_7:00  172.24  n/a     .000
00384>           overflow <=   5.0 03:Full-Over      19.94    1.685 1985.0715_20:10  172.18  n/a     .000
00385>       (MxStoUsed=.3495E-01  m3, TotOvfVol=.3433E+01  m3, N-Ovf=   89, TotDurOvf=   98.hrs)
00386> ##########################################################################
00387> # STORMS
00388> ##########################################################################
00389>  ** END OF RUN : 1985
00390>
00391> ************************************************************************************************
00392>
00393>
00394>
00395>
00396>
00397>  RUN#:COMMAND#
00398> R1986:C00001------------------------------------------------------------------------------------
00399>       START
00400>       [TZERO =    .00 hrs on 19860101]
00401>       [METOUT=   2     (1=imperial, 2=metric output)]
00402>       [NSTORM=   0 ]
00403>       [NRUN  = 1986 ]
00404> ************************************************************************************************
00405> #  SWMHYMO  / INPUT DATA FILE
00406> ************************************************************************************************
00407> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00408> #  Date        : [15 MAY 2025]
00409> #  Modeller    : [JB]
00410> #  Company     : JFSAinc.
00411> #  License #   : 2549237
00412> ************************************************************************************************
00413> # SWMHYMO model of Cold Creek development -  LID analysis
00414> ************************************************************************************************
00415> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00416> R1986:C00002------------------------------------------------------------------------------------
00417>  *  READ AES DATA
00418>       [Filename  = Kings_1982-2025.txt                                    ]
00419>       [Start_date= 1986.0101: End_date= 1986.1231]
00420>       [DT= 60.min: Length= 8760.hrs: WetHrs=  450: DryHrs= 8310: PTOT= 721.20)
00421>       Maximum average rainfall intensities over
00422>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00423>        19.60    12.90     9.40     7.60     5.08     2.86     2.16     1.98     1.36    mm/hr
00424>        19.60    25.80    28.20    45.60    61.00    68.60    77.80    95.00    97.60    mm
00425>       19860613 19860613 19860911 19860911 19860911 19860911 19860912 19860613 19860613  date
00426>       Number of rainfall events per following interevent time
00427>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00428>          160      123      108       90       65       49       39       34       23
00429>       Number of events with at least the following durations
00430>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00431>          159       87       62       23        3        0        0        0        0
00432> R1986:C00003------------------------------------------------------------------------------------
00433>       COMPUTE API
00434>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00435>       (APImax= 99.87: APIavg= 19.44: APImin=   .00)
00436> ************************************************************************************************
00437> # Phase 1
00438> ************************************************************************************************
00439> R1986:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00440>     CONTINUOUS STANDHYD    5.0 01:P1             7.74     .360 1986.0613_ 3:00  363.47 .504     .000
00441>       [XIMP=.43:TIMP=.53]
00442>       [LOSS= 2 :CN= 79.0]
00443>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00444>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00445>       [IaRECimp=  24.00: IaRECper=   8.00]
00446>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00447> R1986:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00448>     ROUTE RESERVOIR ->    5.0 02:P1             7.74     .360 1986.0613_ 3:00  363.47  n/a     .000
00449>               out <=    5.0 01:P1-Inf         3.01     .004 1986.0416_21:15  363.47  n/a     .000
00450>           overflow <=   5.0 03:P1-Over        4.73     .352 1986.0613_ 3:05  363.47  n/a     .000
00451>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.1718E+01  m3, N-Ovf=   69, TotDurOvf=  101.hrs)
00452> ************************************************************************************************
00453> # Full Development
00454> ************************************************************************************************
00455> R1986:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00456>     CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44    1.314 1986.0613_ 3:05  335.21 .465     .000
00457>       [XIMP=.37:TIMP=.47]
00458>       [LOSS= 2 :CN= 79.0]
00459>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00460>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00461>       [IaRECimp=  24.00: IaRECper=   8.00]
00462>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00463> R1986:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00464>     ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44    1.314 1986.0613_ 3:05  335.21  n/a     .000
00465>               out <=    5.0 01:Full-Inf       8.43     .009 1986.0408_ 4:50  335.35  n/a     .000
00466>           overflow <=   5.0 03:Full-Over      23.01    1.293 1986.0613_ 3:05  335.21  n/a     .000
00467>       (MxStoUsed=.3496E-01  m3, TotOvfVol=.7712E+01  m3, N-Ovf=  102, TotDurOvf=  157.hrs)
00468> ##########################################################################
00469> # STORMS
00470> ##########################################################################
00471>  ** END OF RUN : 1986
00472>
00473> ************************************************************************************************
00474>
00475>
00476>
00477>
00478>
00479>  RUN#:COMMAND#
00480> R1987:C00001------------------------------------------------------------------------------------
00481>       START
00482>       [TZERO =    .00 hrs on 19870101]
00483>       [METOUT=   2     (1=imperial, 2=metric output)]
00484>       [NSTORM=   0 ]
00485>       [NRUN  = 1987 ]
00486> ************************************************************************************************
00487> #  SWMHYMO  / INPUT DATA FILE
00488> ************************************************************************************************
00489> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00490> #  Date        : [15 MAY 2025]
00491> #  Modeller    : [JB]
00492> #  Company     : JFSAinc.
00493> #  License #   : 2549237
00494> ************************************************************************************************
00495> # SWMHYMO model of Cold Creek development -  LID analysis
00496> ************************************************************************************************
00497> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00498> R1987:C00002------------------------------------------------------------------------------------
00499>  *  READ AES DATA
00500>       [Filename  = Kings_1982-2025.txt                                    ]
00501>       [Start_date= 1987.0101: End_date= 1987.1231]
00502>       [DT= 60.min: Length= 8760.hrs: WetHrs=  353: DryHrs= 8407: PTOT= 498.70)
00503>       Maximum average rainfall intensities over
00504>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00505>        13.20    10.45     7.90     6.03     4.09     2.20     1.49     1.12      .75    mm/hr
00506>        13.20    20.90    23.70    36.20    49.10    52.80    53.80    53.80    53.80    mm
00507>       19870908 19871007 19871007 19870908 19870908 19870909 19870909 19870910 19870910  date
00508>       Number of rainfall events per following interevent time
00509>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00510>          130      108       96       73       58       49       41       34       25
00511>       Number of events with at least the following durations
00512>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00513>          129       77       44       15        2        0        0        0        0
00514> R1987:C00003------------------------------------------------------------------------------------
00515>       COMPUTE API
00516>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00517>       (APImax= 66.37: APIavg= 13.64: APImin=   .00)
00518> ************************************************************************************************
00519> # Phase 1
00520> ************************************************************************************************
00521> R1987:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00522>     CONTINUOUS STANDHYD    5.0 01:P1             7.74     .230 1987.0908_20:00  215.75 .433     .000
00523>       [XIMP=.43:TIMP=.53]
00524>       [LOSS= 2 :CN= 79.0]
00525>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00526>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00527>       [IaRECimp=  24.00: IaRECper=   8.00]
00528>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00529> R1987:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00530>     ROUTE RESERVOIR ->    5.0 02:P1             7.74     .230 1987.0908_20:00  215.75  n/a     .000
00531>               out <=    5.0 01:P1-Inf         4.01     .004 1987.0404_14:10  215.76  n/a     .000
00532>           overflow <=   5.0 03:P1-Over        3.73     .221 1987.0908_20:05  215.75  n/a     .000
00533>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.8041E+00  m3, N-Ovf=   61, TotDurOvf=   72.hrs)
00534> ************************************************************************************************
00535> # Full Development
00536> ************************************************************************************************
00537> R1987:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00538>     CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .862 1987.0908_20:05  194.58 .390     .000
00539>       [XIMP=.37:TIMP=.47]
00540>       [LOSS= 2 :CN= 79.0]
00541>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00542>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00543>       [IaRECimp=  24.00: IaRECper=   8.00]
00544>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00545> R1987:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00546>     ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     .862 1987.0908_20:05  194.58  n/a     .000
00547>               out <=    5.0 01:Full-Inf      11.40     .009 1987.0404_13:10  194.65  n/a     .000
00548>           overflow <=   5.0 03:Full-Over      20.04     .845 1987.0908_20:10  194.58  n/a     .000
00549>       (MxStoUsed=.3500E-01  m3, TotOvfVol=.3899E+01  m3, N-Ovf=   89, TotDurOvf=  120.hrs)
00550> ##########################################################################
00551> # STORMS
00552> ##########################################################################
00553>  ** END OF RUN : 1987
00554>
00555> ************************************************************************************************
00556>
00557>
00558>
00559>
00560>
00561>  RUN#:COMMAND#
00562> R1988:C00001------------------------------------------------------------------------------------
00563>       START
00564>       [TZERO =    .00 hrs on 19880101]
00565>       [METOUT=   2     (1=imperial, 2=metric output)]
00566>       [NSTORM=   0 ]
00567>       [NRUN  = 1988 ]
00568> ************************************************************************************************
00569> #  SWMHYMO  / INPUT DATA FILE
00570> ************************************************************************************************
00571> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00572> #  Date        : [15 MAY 2025]
00573> #  Modeller    : [JB]
00574> #  Company     : JFSAinc.
00575> #  License #   : 2549237
00576> ************************************************************************************************
00577> # SWMHYMO model of Cold Creek development -  LID analysis
00578> ************************************************************************************************
00579> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00580> R1988:C00002------------------------------------------------------------------------------------
00581>  *  READ AES DATA
00582>       [Filename  = Kings_1982-2025.txt                                    ]
00583>       [Start_date= 1988.0101: End_date= 1988.1230]
00584>       (DT= 60.min: Length= 8760.hrs: WetHrs=  317: DryHrs= 8443: PTOT= 420.00)
00585>       Maximum average rainfall intensities over
00586>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00587>        10.30     7.50     6.10     3.68     2.21     1.26      .92      .71      .49    mm/hr
00588>        10.30    15.00    18.30    22.10    26.50    30.20    33.10    34.20    35.60    mm
00589>       19880724 19881025 19881025 19881025 19880404 19880404 19881025 19881025 19881005  date
00590>       Number of rainfall events per following interevent time
00591>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00592>          129      111       94       76       56       45       37       31       22
00593>       Number of events with at least the following durations
00594>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00595>          128       75       39        8        1        0        0        0        0
00596> R1988:C00003------------------------------------------------------------------------------------
00597>       COMPUTE API
00598>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00599>       (APImax= 45.22: APIavg= 11.59: APImin=   .00)
00600> ************************************************************************************************
00601> # Phase 1
00602> ************************************************************************************************
00603> R1988:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00604>     CONTINUOUS STANDHYD    5.0 01:P1             7.74     .103 1988.1025_15:00  157.78 .376     .000
00605>       [XIMP=.43:TIMP=.53]
00606>       [LOSS= 2 :CN= 79.0]
00607>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00608>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00609>       [IaRECimp=  24.00: IaRECper=   8.00]
00610>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00611> R1988:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00612>     ROUTE RESERVOIR ->    5.0 02:P1             7.74     .103 1988.1025_15:00  157.78  n/a     .000
00613>               out <=    5.0 01:P1-Inf         5.30     .004 1988.0403_22:55  157.78  n/a     .000
00614>           overflow <=   5.0 03:P1-Over        2.44     .098 1988.1025_15:05  157.78  n/a     .000
00615>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.3857E+00  m3, N-Ovf=   42, TotDurOvf=   45.hrs)
00616> ************************************************************************************************
00617> # Full Development
00618> ************************************************************************************************
00619> R1988:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00620>     CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .348 1988.1025_15:05  139.23 .332     .000
00621>       [XIMP=.37:TIMP=.47]
00622>       [LOSS= 2 :CN= 79.0]
00623>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00624>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00625>       [IaRECimp=  24.00: IaRECper=   8.00]
00626>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00627> R1988:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00628>     ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     .348 1988.1025_15:05  139.23  n/a     .000
00629>               out <=    5.0 01:Full-Inf      15.66     .009 1988.0403_22:35  139.29  n/a     .000
00630>           overflow <=   5.0 03:Full-Over      15.78     .337 1988.1025_15:10  139.23  n/a     .000
00631>       (MxStoUsed=.3498E-01  m3, TotOvfVol=.2198E+01  m3, N-Ovf=   79, TotDurOvf=   84.hrs)
00632> ##########################################################################
00633> # STORMS
00634> ##########################################################################
00635>  ** END OF RUN : 1988
00636>
00637> ************************************************************************************************
00638>
00639>
00640>
00641>
00642>
00643>  RUN#:COMMAND#
00644> R1989:C00001------------------------------------------------------------------------------------
00645>       START
00646>       [TZERO =    .00 hrs on 19890101]
00647>       [METOUT=   2     (1=imperial, 2=metric output)]
00648>       [NSTORM=   0 ]
00649>       [NRUN  = 1989 ]
00650> ************************************************************************************************
00651> #  SWMHYMO  / INPUT DATA FILE
00652> ************************************************************************************************
00653> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00654> #  Date        : [15 MAY 2025]
00655> #  Modeller    : [JB]
00656> #  Company     : JFSAinc.
00657> #  License #   : 2549237
00658> ************************************************************************************************
00659> # SWMHYMO model of Cold Creek development -  LID analysis
00660> ************************************************************************************************
00661> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00662> R1989:C00002------------------------------------------------------------------------------------
00663>  *  READ AES DATA
00664>       [Filename  = Kings_1982-2025.txt                                    ]
00665>       [Start_date= 1989.0101: End_date= 1989.1231]
00666>       (DT= 60.min: Length= 8760.hrs: WetHrs=  344: DryHrs= 8416: PTOT= 480.50)
00667>       Maximum average rainfall intensities over
00668>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00669>        15.80     8.75     7.77     4.73     2.67     1.42     1.08      .85      .57    mm/hr
00670>        15.80    17.50    23.30    28.40    32.10    34.10    39.00    41.00    41.00    mm
00671>       19890804 19890804 19890602 19891020 19891021 19891021 19891021 19891022 19891022  date
00672>       Number of rainfall events per following interevent time
00673>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00674>          113       95       85       62       57       42       40       30       22
00675>       Number of events with at least the following durations
00676>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00677>          112       67       38       24        1        0        0        0        0
00678> R1989:C00003------------------------------------------------------------------------------------
00679>       COMPUTE API
00680>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00681>       (APImax= 59.61: APIavg= 13.17: APImin=   .00)
00682> ************************************************************************************************
00683> # Phase 1
00684> ************************************************************************************************
00685> R1989:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00686>     CONTINUOUS STANDHYD    5.0 01:P1             7.74     .163 1989.0804_23:00  204.53 .426     .000
00687>       [XIMP=.43:TIMP=.53]
00688>       [LOSS= 2 :CN= 79.0]
00689>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00690>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00691>       [IaRECimp=  24.00: IaRECper=   8.00]
00692>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00693> R1989:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00694>     ROUTE RESERVOIR ->    5.0 02:P1             7.74     .163 1989.0804_23:00  204.53  n/a     .000
00695>               out <=    5.0 01:P1-Inf         4.33     .004 1989.0404_16:00  204.53  n/a     .000
00696>           overflow <=   5.0 03:P1-Over        3.41     .156 1989.0804_23:00  204.53  n/a     .000
00697>       (MxStoUsed=.1598E-01  m3, TotOvfVol=.6971E+00  m3, N-Ovf=   51, TotDurOvf=   83.hrs)
00698> ************************************************************************************************
00699> # Full Development
00700> ************************************************************************************************
00701> R1989:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00702>     CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .546 1989.0804_23:00  182.82 .380     .000
00703>       [XIMP=.37:TIMP=.47]
00704>       [LOSS= 2 :CN= 79.0]
00705>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00706>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00707>       [IaRECimp=  24.00: IaRECper=   8.00]
00708>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00709> R1989:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00710>     ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     .546 1989.0804_23:00  182.82  n/a     .000
00711>               out <=    5.0 01:Full-Inf      12.16     .009 1989.0403_19:05  182.89  n/a     .000
00712>           overflow <=   5.0 03:Full-Over      19.28     .530 1989.0804_23:05  182.82  n/a     .000
00713>       (MxStoUsed=.3499E-01  m3, TotOvfVol=.3526E+01  m3, N-Ovf=   85, TotDurOvf=  130.hrs)
00714> ##########################################################################
00715> # STORMS
00716> ##########################################################################
00717>  ** END OF RUN : 1989
00718>
00719> ************************************************************************************************
00720>
```

```
00721>
00722>
00723>
00724>
00725>  RUN#:COMMAND#
00726> R1990:C00001-------------------------------------------------------------------------------
00727>      START
00728>       [TZERO =    .00 hrs on 19900101]
00729>       [METOUT=   2    (1=imperial, 2=metric output)]
00730>       [NSTORM=   0 ]
00731>       [NRUN  = 1990 ]
00732> ********************************************************************************************
00733> #  SWMHYMO  / INPUT DATA FILE
00734> ********************************************************************************************
00735> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00736> #  Date        : [15 MAY 2025]
00737> #  Modeller    : [JB]
00738> #  Company     : JFSAinc.
00739> #  License #   :  2549237
00740> ********************************************************************************************
00741> # SWMHYMO model of Cold Creek development -  LID analysis
00742> ********************************************************************************************
00743> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00744> R1990:C00002-------------------------------------------------------------------------------
00745>   *  READ AES DATA
00746>       [Filename  = Kings_1982-2025.txt                                              ]
00747>       [Start_date= 1990.0101: End_date= 1990.1231]
00748>       (DT= 60.min: Length= 8760.hrs: WetHrs=  411: DryHrs= 8349: PTOT= 573.10)
00749>       Maximum average rainfall intensities over
00750>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00751>        12.50     8.75     8.10     5.77     3.09     1.80     1.20      .96      .80    mm/hr
00752>        12.50    17.50    24.30    34.60    37.10    43.20    43.20    46.00    57.90    mm
00753>       19900517 19901013 19901013 19901018 19900813 19900814 19900814 19901013 19901014  date
00754>       Number of rainfall events per following interevent time
00755>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00756>          128      105       96       75       64       52       44       39       25
00757>       Number of events with at least the following durations
00758>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00759>          127       78        0       56       19        4        0        0        0
00760> R1990:C00003-------------------------------------------------------------------------------
00761>      COMPUTE API
00762>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00763>       (APImax= 82.98: APIavg= 15.58: APImin=  .00)
00764> ********************************************************************************************
00765> # Phase 1
00766> ********************************************************************************************
00767> R1990:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00768>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .147 1990.0517_17:00  253.92 .443     .000
00769>       [XIMP=.43:TIMP=.53]
00770>       [LOSS= 2 :CN= 79.0]
00771>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00772>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00773>       [IaRECimp=  24.00: IaRECper=   8.00]
00774>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00775> R1990:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00776>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .147 1990.0517_17:00  253.92  n/a     .000
00777>                  out <=     5.0 01:P1-Inf         4.07     .004 1990.0403_22:45  253.92  n/a     .000
00778>              overflow <=    5.0 03:P1-Over        3.67     .140 1990.0517_17:05  253.92  n/a     .000
00779>       (MxStoUsed=.1600E-01  m3, TotOvfVol=.9319E+00  m3, N-Ovf=   54, TotDurOvf=   96.hrs)
00780> ********************************************************************************************
00781> # Full Development
00782> ********************************************************************************************
00783> R1990:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00784>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .524 1990.1018_20:10  229.19 .400     .000
00785>       [XIMP=.37:TIMP=.47]
00786>       [LOSS= 2 :CN= 79.0]
00787>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00788>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00789>       [IaRECimp=  24.00: IaRECper=   8.00]
00790>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00791> R1990:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00792>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     .524 1990.1018_20:10  229.19  n/a     .000
00793>                  out <=     5.0 01:Full-Inf      11.61     .009 1990.0403_15:55  229.27  n/a     .000
00794>              overflow <=    5.0 03:Full-Over     19.83     .514 1990.1018_20:15  229.19  n/a     .000
00795>       (MxStoUsed=.3498E-01  m3, TotOvfVol=.4545E+01  m3, N-Ovf=   90, TotDurOvf=  153.hrs)
00796> ############################################################################
00797> # STORMS
00798> ############################################################################
00799>  ** END OF RUN : 1990
00800>
00801> ********************************************************************************************
00802>
00803>
00804>
00805>
00806>
00807>  RUN#:COMMAND#
00808> R1991:C00001-------------------------------------------------------------------------------
00809>      START
00810>       [TZERO =    .00 hrs on 19910101]
00811>       [METOUT=   2    (1=imperial, 2=metric output)]
00812>       [NSTORM=   0 ]
00813>       [NRUN  = 1991 ]
00814> ********************************************************************************************
00815> #  SWMHYMO  / INPUT DATA FILE
00816> ********************************************************************************************
00817> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00818> #  Date        : [15 MAY 2025]
00819> #  Modeller    : [JB]
00820> #  Company     : JFSAinc.
00821> #  License #   :  2549237
00822> ********************************************************************************************
00823> # SWMHYMO model of Cold Creek development -  LID analysis
00824> ********************************************************************************************
00825> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00826> R1991:C00002-------------------------------------------------------------------------------
00827>   *  READ AES DATA
00828>       [Filename  = Kings_1982-2025.txt                                              ]
00829>       [Start_date= 1991.0101: End_date= 1991.1231]
00830>       (DT= 60.min: Length= 8760.hrs: WetHrs=  352: DryHrs= 8408: PTOT= 496.00)
00831>       Maximum average rainfall intensities over
00832>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00833>        14.20     9.90     7.77     4.30     2.28     1.64     1.28     1.03      .69    mm/hr
00834>        14.20    19.80    23.30    25.80    27.40    39.40    46.00    49.60    49.60    mm
00835>       19910410 19910705 19910705 19910705 19910705 19910410 19910410 19910410 19910411  date
00836>       Number of rainfall events per following interevent time
00837>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00838>          118       94       84       69       59       46       40       37       29
00839>       Number of events with at least the following durations
00840>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00841>          117       80       54       13        2        0        0        0        0
00842> R1991:C00003-------------------------------------------------------------------------------
00843>      COMPUTE API
00844>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00845>       (APImax= 58.30: APIavg= 13.57: APImin=  .00)
00846> ********************************************************************************************
00847> # Phase 1
00848> ********************************************************************************************
00849> R1991:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00850>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .211 1991.0410_  7:00  209.59 .423     .000
00851>       [XIMP=.43:TIMP=.53]
00852>       [LOSS= 2 :CN= 79.0]
00853>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00854>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00855>       [IaRECimp=  24.00: IaRECper=   8.00]
00856>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00857> R1991:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00858>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .211 1991.0410_  7:00  209.59  n/a     .000
00859>                  out <=     5.0 01:P1-Inf         4.33     .004 1991.0409_  8:55  209.59  n/a     .000
00860>              overflow <=    5.0 03:P1-Over        3.41     .203 1991.0410_  7:05  209.59  n/a     .000
00861>       (MxStoUsed=.1600E-01  m3, TotOvfVol=.7151E+00  m3, N-Ovf=   52, TotDurOvf=   72.hrs)
00862> ********************************************************************************************
00863> # Full Development
00864> ********************************************************************************************
00865> R1991:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00866>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .730 1991.0410_  7:05  187.91 .379     .000
00867>       [XIMP=.37:TIMP=.47]
00868>       [LOSS= 2 :CN= 79.0]
00869>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00870>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00871>       [IaRECimp=  24.00: IaRECper=   8.00]
00872>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00873> R1991:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00874>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     .730 1991.0410_  7:05  187.91  n/a     .000
00875>                  out <=     5.0 01:Full-Inf      12.49     .009 1991.0409_  7:15  187.99  n/a     .000
00876>              overflow <=    5.0 03:Full-Over     18.95     .714 1991.0410_  7:05  187.91  n/a     .000
00877>       (MxStoUsed=.3500E-01  m3, TotOvfVol=.3561E+01  m3, N-Ovf=   77, TotDurOvf=  116.hrs)
00878> ############################################################################
00879> # STORMS
00880> ############################################################################
00881>  ** END OF RUN : 1991
00882>
00883> ********************************************************************************************
00884>
00885>
00886>
00887>
00888>
00889>  RUN#:COMMAND#
00890> R1992:C00001-------------------------------------------------------------------------------
00891>      START
00892>       [TZERO =    .00 hrs on 19920101]
00893>       [METOUT=   2    (1=imperial, 2=metric output)]
00894>       [NSTORM=   0 ]
00895>       [NRUN  = 1992 ]
00896> ********************************************************************************************
00897> #  SWMHYMO  / INPUT DATA FILE
00898> ********************************************************************************************
00899> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00900> #  Date        : [15 MAY 2025]
00901> #  Modeller    : [JB]
00902> #  Company     : JFSAinc.
00903> #  License #   :  2549237
00904> ********************************************************************************************
00905> # SWMHYMO model of Cold Creek development -  LID analysis
00906> ********************************************************************************************
00907> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00908> R1992:C00002-------------------------------------------------------------------------------
00909>   *  READ AES DATA
00910>       [Filename  = Kings_1982-2025.txt                                              ]
00911>       [Start_date= 1992.0101: End_date= 1992.1230]
00912>       (DT= 60.min: Length= 8760.hrs: WetHrs=  311: DryHrs= 8449: PTOT= 466.20)
00913>       Maximum average rainfall intensities over
00914>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00915>        25.60    18.25    13.33     8.93     4.65     2.42     1.66     1.25      .84    mm/hr
00916>        25.60    36.50    40.00    53.60    55.80    58.00    59.80    59.80    60.80    mm
00917>       19920717 19920717 19920717 19920717 19920829 19920829 19920829 19920829 19920829 19920831  date
00918>       Number of rainfall events per following interevent time
00919>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00920>          115       90       82       65       55       43       38       29       18
00921>       Number of events with at least the following durations
00922>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00923>          114       69       43       13        2        0        0        0        0
00924> R1992:C00003-------------------------------------------------------------------------------
00925>      COMPUTE API
00926>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
00927>       (APImax= 83.67: APIavg= 12.80: APImin=  .00)
00928> ********************************************************************************************
00929> # Phase 1
00930> ********************************************************************************************
00931> R1992:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00932>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .391 1992.0903_21:00  221.44 .475     .000
00933>       [XIMP=.43:TIMP=.53]
00934>       [LOSS= 2 :CN= 79.0]
00935>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00936>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
00937>       [IaRECimp=  24.00: IaRECper=   8.00]
00938>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00939> R1992:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00940>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .391 1992.0903_21:00  221.44  n/a     .000
00941>                  out <=     5.0 01:P1-Inf         3.15     .004 1992.0416_19:25  221.44  n/a     .000
00942>              overflow <=    5.0 03:P1-Over        4.59     .383 1992.0903_21:05  221.44  n/a     .000
00943>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.1016E+01  m3, N-Ovf=   38, TotDurOvf=   45.hrs)
00944> ********************************************************************************************
00945> # Full Development
00946> ********************************************************************************************
00947> R1992:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00948>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     1.436 1992.0903_21:05  202.98 .435     .000
00949>       [XIMP=.37:TIMP=.47]
00950>       [LOSS= 2 :CN= 79.0]
00951>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
00952>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
00953>       [IaRECimp=  24.00: IaRECper=   8.00]
00954>       [SMIN= 27.47: SMAX=183.15: SK= .030]
00955> R1992:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
00956>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     1.436 1992.0903_21:05  202.98  n/a     .000
00957>                  out <=     5.0 01:Full-Inf       9.07     .009 1992.0416_18:10  203.06  n/a     .000
00958>              overflow <=    5.0 03:Full-Over     22.37     1.415 1992.0903_21:10  202.98  n/a     .000
00959>       (MxStoUsed=.3496E-01  m3, TotOvfVol=.4541E+01  m3, N-Ovf=   59, TotDurOvf=   77.hrs)
00960> ############################################################################
00961> # STORMS
00962> ############################################################################
00963>  ** END OF RUN : 1992
00964>
00965> ********************************************************************************************
00966>
00967>
00968>
00969>
00970>
00971>  RUN#:COMMAND#
00972> R1993:C00001-------------------------------------------------------------------------------
00973>      START
00974>       [TZERO =    .00 hrs on 19930101]
00975>       [METOUT=   2    (1=imperial, 2=metric output)]
00976>       [NSTORM=   0 ]
00977>       [NRUN  = 1993 ]
00978> ********************************************************************************************
00979> #  SWMHYMO  / INPUT DATA FILE
00980> ********************************************************************************************
00981> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
00982> #  Date        : [15 MAY 2025]
00983> #  Modeller    : [JB]
00984> #  Company     : JFSAinc.
00985> #  License #   :  2549237
00986> ********************************************************************************************
00987> # SWMHYMO model of Cold Creek development -  LID analysis
00988> ********************************************************************************************
00989> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
00990> R1993:C00002-------------------------------------------------------------------------------
00991>   *  READ AES DATA
00992>       [Filename  = Kings_1982-2025.txt                                              ]
00993>       [Start_date= 1993.0101: End_date= 1993.1231]
00994>       (DT= 60.min: Length= 8760.hrs: WetHrs=  365: DryHrs= 8395: PTOT= 447.70)
00995>       Maximum average rainfall intensities over
00996>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
00997>        26.60    15.50    10.47     5.33     3.07     1.76     1.24      .95      .71    mm/hr
00998>        26.60    31.00    31.40    32.00    36.80    42.30    44.80    45.60    50.90    mm
00999>       19930621 19930621 19930621 19930621 19930621 19930622 19930622 19930622 19930622  date
01000>       Number of rainfall events per following interevent time
01001>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01002>          132      107       99       73       59       49       41       35       24
01003>       Number of events with at least the following durations
01004>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01005>          131       81       46       14        3        0        0        0        0
01006> R1993:C00003-------------------------------------------------------------------------------
01007>      COMPUTE API
01008>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01009>       (APImax= 75.11: APIavg= 12.31: APImin=  .00)
01010> ********************************************************************************************
01011> # Phase 1
01012> ********************************************************************************************
01013> R1993:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01014>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .366 1993.0621_14:00  185.30 .414     .000
01015>       [XIMP=.43:TIMP=.53]
01016>       [LOSS= 2 :CN= 79.0]
01017>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01018>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01019>       [IaRECimp=  24.00: IaRECper=   8.00]
01020>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01021> R1993:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01022>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .366 1993.0621_14:00  185.30  n/a     .000
01023>                  out <=     5.0 01:P1-Inf         4.62     .004 1993.0410_23:50  185.30  n/a     .000
01024>              overflow <=    5.0 03:P1-Over        3.12     .353 1993.0621_14:05  185.30  n/a     .000
01025>       (MxStoUsed=.1598E-01  m3, TotOvfVol=.5789E+00  m3, N-Ovf=   54, TotDurOvf=   59.hrs)
01026> ********************************************************************************************
01027> # Full Development
01028> ********************************************************************************************
01029> R1993:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01030>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     1.299 1993.0621_14:05  166.02 .371     .000
01031>       [XIMP=.37:TIMP=.47]
01032>       [LOSS= 2 :CN= 79.0]
01033>       [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01034>       [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01035>       [IaRECimp=  24.00: IaRECper=   8.00]
01036>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01037> R1993:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01038>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     1.299 1993.0621_14:05  166.02  n/a     .000
01039>                  out <=     5.0 01:Full-Inf      13.54     .009 1993.0410_21:05  166.10  n/a     .000
01040>              overflow <=    5.0 03:Full-Over     17.90     1.279 1993.0621_14:05  166.02  n/a     .000
01041>       (MxStoUsed=.3498E-01  m3, TotOvfVol=.2972E+01  m3, N-Ovf=   71, TotDurOvf=   99.hrs)
01042> ############################################################################
01043> # STORMS
01044> ############################################################################
01045>  ** END OF RUN : 1993
01046>
01047> ********************************************************************************************
01048>
01049>
01050>
01051>
01052>
01053>  RUN#:COMMAND#
01054> R1994:C00001-------------------------------------------------------------------------------
01055>      START
01056>       [TZERO =    .00 hrs on 19940101]
01057>       [METOUT=   2    (1=imperial, 2=metric output)]
01058>       [NSTORM=   0 ]
01059>       [NRUN  = 1994 ]
01060> ********************************************************************************************
01061> #  SWMHYMO  / INPUT DATA FILE
01062> ********************************************************************************************
01063> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01064> #  Date        : [15 MAY 2025]
01065> #  Modeller    : [JB]
01066> #  Company     : JFSAinc.
01067> #  License #   :  2549237
01068> ********************************************************************************************
01069> # SWMHYMO model of Cold Creek development -  LID analysis
01070> ********************************************************************************************
01071> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01072> R1994:C00002-------------------------------------------------------------------------------
01073>   *  READ AES DATA
01074>       [Filename  = Kings_1982-2025.txt                                              ]
01075>       [Start_date= 1994.0101: End_date= 1994.1231]
01076>       (DT= 60.min: Length= 8760.hrs: WetHrs=  311: DryHrs= 8449: PTOT= 544.60)
01077>       Maximum average rainfall intensities over
01078>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01079>        25.40    16.30    12.83     6.88     5.43     2.97     1.98     1.55     1.09    mm/hr
01080>        25.40    32.60    38.50    41.30    65.20    71.20    71.40    74.40    78.60    mm
```

```
01081>       19940709 19940709 19940709 19940627 19940628 19940628 19940628 19940628 19940629  date
01082>       Number of rainfall events per following interevent time
01083>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01084>          127      114      106       82       66       50       40       33       23
01085>       Number of events with at least the following durations
01086>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01087>          126       76       44       10        0        0        0        0        0
01088> R1994:C00003----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01089>      COMPUTE API
01090>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01091>       [APImax= 78.53: APIavg= 14.84: APImin=  .00]
01092> ********************************************************************************************************************
01093> # Phase 1
01094> ********************************************************************************************************************
01095> R1994:C00004----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01096>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .372 1994.0709_ 5:00  256.57 .471     .000
01097>       [XIMP=.43:TIMP=.53]
01098>       [LOSS= 2 :CN= 79.0]
01099>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01100>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01101>       [IaRECimp=  24.00: IaRECper=   8.00]
01102>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01103> R1994:C00005----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01104>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .372 1994.0709_ 5:00  256.57  n/a     .000
01105>                   out <=    5.0 01:P1-Inf         3.23     .004 1994.0403_12:10  256.57  n/a     .000
01106>                 overflow <=    5.0 03:P1-Over      4.52     .362 1994.0709_ 5:05  256.57  n/a     .000
01107>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.1158E+01  m3, N-Ovf=   70, TotDurOvf=   61.hrs)
01108> ********************************************************************************************************************
01109> # Full Development
01110> ********************************************************************************************************************
01111> R1994:C00006----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01112>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     1.349 1994.0709_ 5:05  234.59 .431     .000
01113>       [XIMP=.37:TIMP=.47]
01114>       [LOSS= 2 :CN= 79.0]
01115>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01116>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01117>       [IaRECimp=  24.00: IaRECper=   8.00]
01118>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01119> R1994:C00007----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01120>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     1.349 1994.0709_ 5:05  234.59  n/a     .000
01121>                   out <=    5.0 01:Full-Inf       8.79     .009 1994.0403_ 9:20  234.68  n/a     .000
01122>                 overflow <=    5.0 03:Full-Over    22.65     1.326 1994.0709_ 5:05  234.59  n/a     .000
01123>       (MxStoUsed=.3498E-01  m3, TotOvfVol=.5313E+01  m3, N-Ovf=   81, TotDurOvf=   95.hrs)
01124> ********************************************************************************************************************
01125> # STORMS
01126> ########################################################################
01127>  ** END OF RUN : 1997
01128>
01129> ********************************************************************************************************************
01130>
01131>
01132>
01133>
01134>
01135>  RUN#:COMMAND#
01136> R1998:C00001----------------------------------------------------------------------------------------------------
01137>      START
01138>       [TZERO =    .00 hrs on 19980101]
01139>       [METOUT=   2    (1=imperial, 2=metric output)]
01140>       [NSTORM=   0 ]
01141>       [NRUN  = 1998 ]
01142> ********************************************************************************************************************
01143> #  SWMHYMO  / INPUT DATA FILE
01144> ********************************************************************************************************************
01145> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01146> #  Date        : [15 MAY 2025]
01147> #  Modeller    : [JB]
01148> #  Company     : JFSAinc.
01149> #  License #   :  2549237
01150> ********************************************************************************************************************
01151> # SWMHYMO model of Cold Creek development -  LID analysis
01152> ********************************************************************************************************************
01153> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01154> R1998:C00002----------------------------------------------------------------------------------------------------
01155>   *  READ AES DATA
01156>       [Filename  = Kings_1982-2025.txt                                          ]
01157>       [Start_date= 1998.0101: End_date= 1998.1231]
01158>       [DT= 60.min: Length= 8760.hrs: WetHrs=  201: DryHrs= 8559: PTOT= 296.80]
01159>       Maximum average rainfall intensities over
01160>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01161>        17.00     9.00     6.20     3.13     2.20     1.18      .97      .83      .58    mm/hr
01162>        17.00    18.00    18.60    18.80    26.40    28.40    34.80    39.80    41.40    mm
01163>       19980927 19980927 19980927 19980927 19980824 19980824 19980824 19980825 19980825 19980826  date
01164>       Number of rainfall events per following interevent time
01165>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01166>           93       80       69       60       49       34       29       26       16
01167>       Number of events with at least the following durations
01168>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01169>           92       44       22        6        0        0        0        0        0
01170> R1998:C00003----------------------------------------------------------------------------------------------------
01171>      COMPUTE API
01172>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01173>       [APImax= 44.05: APIavg=  8.38: APImin=  .00]
01174> ********************************************************************************************************************
01175> # Phase 1
01176> ********************************************************************************************************************
01177> R1998:C00004----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01178>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .168 1998.0927_ 2:00  115.55 .389     .000
01179>       [XIMP=.43:TIMP=.53]
01180>       [LOSS= 2 :CN= 79.0]
01181>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01182>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01183>       [IaRECimp=  24.00: IaRECper=   8.00]
01184>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01185> R1998:C00005----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01186>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .168 1998.0927_ 2:00  115.55  n/a     .000
01187>                   out <=    5.0 01:P1-Inf         4.90     .004 1998.0625_11:00  115.55  n/a     .000
01188>                 overflow <=    5.0 03:P1-Over      2.84     .162 1998.0927_ 2:00  115.55  n/a     .000
01189>       (MxStoUsed=.1600E-01  m3, TotOvfVol=.3281E+00  m3, N-Ovf=   49, TotDurOvf=   35.hrs)
01190> ********************************************************************************************************************
01191> # Full Development
01192> ********************************************************************************************************************
01193> R1998:C00006----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01194>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44      .561 1998.0927_ 2:00  101.97 .344     .000
01195>       [XIMP=.37:TIMP=.47]
01196>       [LOSS= 2 :CN= 79.0]
01197>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01198>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01199>       [IaRECimp=  24.00: IaRECper=   8.00]
01200>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01201> R1998:C00007----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01202>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44      .561 1998.0927_ 2:00  101.97  n/a     .000
01203>                   out <=    5.0 01:Full-Inf      13.94      .009 1998.0625_10:50  102.01  n/a     .000
01204>                 overflow <=    5.0 03:Full-Over    17.51      .542 1998.0927_ 2:00  101.97  n/a     .000
01205>       (MxStoUsed=.3498E-01  m3, TotOvfVol=.1785E+01  m3, N-Ovf=   65, TotDurOvf=   68.hrs)
01206> ########################################################################
01207> # STORMS
01208> ########################################################################
01209>  ** END OF RUN : 2002
01210>
01211> ********************************************************************************************************************
01212>
01213>
01214>
01215>
01216>
01217>  RUN#:COMMAND#
01218> R2003:C00001----------------------------------------------------------------------------------------------------
01219>      START
01220>       [TZERO =    .00 hrs on 20030101]
01221>       [METOUT=   2    (1=imperial, 2=metric output)]
01222>       [NSTORM=   0 ]
01223>       [NRUN  = 2003 ]
01224> ********************************************************************************************************************
01225> #  SWMHYMO  / INPUT DATA FILE
01226> ********************************************************************************************************************
01227> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01228> #  Date        : [15 MAY 2025]
01229> #  Modeller    : [JB]
01230> #  Company     : JFSAinc.
01231> #  License #   :  2549237
01232> ********************************************************************************************************************
01233> # SWMHYMO model of Cold Creek development -  LID analysis
01234> ********************************************************************************************************************
01235> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01236> R2003:C00002----------------------------------------------------------------------------------------------------
01237>   *  READ AES DATA
01238>       [Filename  = Kings_1982-2025.txt                                          ]
01239>       [Start_date= 2003.0101: End_date= 2003.1231]
01240>       [DT= 60.min: Length= 8760.hrs: WetHrs=  311: DryHrs= 8449: PTOT= 381.40]
01241>       Maximum average rainfall intensities over
01242>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01243>        11.20     9.50     7.00     4.93     3.08     1.60     1.07      .80      .57    mm/hr
01244>        11.20    19.00    21.00    29.60    37.00    38.40    38.40    38.40    41.00    mm
01245>       20030804 20030927 20030928 20030928 20030928 20030928 20030928 20030929 20030928  date
01246>       Number of rainfall events per following interevent time
01247>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01248>           109       93       86       68       52       46       41       30       21
01249>       Number of events with at least the following durations
01250>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01251>           108       62       42       12        3        0        0        0        0
01252> R2003:C00003----------------------------------------------------------------------------------------------------
01253>      COMPUTE API
01254>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01255>       [APImax= 51.59: APIavg= 10.59: APImin=  .00]
01256> ********************************************************************************************************************
01257> # Phase 1
01258> ********************************************************************************************************************
01259> R2003:C00004----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01260>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .113 2003.0613_11:00  160.34 .420     .000
01261>       [XIMP=.43:TIMP=.53]
01262>       [LOSS= 2 :CN= 79.0]
01263>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01264>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01265>       [IaRECimp=  24.00: IaRECper=   8.00]
01266>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01267> R2003:C00005----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01268>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .113 2003.0613_11:00  160.34  n/a     .000
01269>                   out <=    5.0 01:P1-Inf         4.10     .004 2003.0511_22:05  160.34  n/a     .000
01270>                 overflow <=    5.0 03:P1-Over      3.64     .107 2003.0613_11:00  160.34  n/a     .000
01271>       (MxStoUsed=.1600E-01  m3, TotOvfVol=.5830E+00  m3, N-Ovf=   31, TotDurOvf=   69.hrs)
01272> ********************************************************************************************************************
01273> # Full Development
01274> ********************************************************************************************************************
01275> R2003:C00006----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01276>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44      .380 2003.0613_11:05  144.38 .379     .000
01277>       [XIMP=.37:TIMP=.47]
01278>       [LOSS= 2 :CN= 79.0]
01279>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01280>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01281>       [IaRECimp=  24.00: IaRECper=   8.00]
01282>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01283> R2003:C00007----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01284>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44      .380 2003.0613_11:05  144.39  n/a     .000
01285>                   out <=    5.0 01:Full-Inf      12.38      .009 2003.0506_ 9:05  144.45  n/a     .000
01286>                 overflow <=    5.0 03:Full-Over    19.06      .371 2003.0613_11:05  144.39  n/a     .000
01287>       (MxStoUsed=.3500E-01  m3, TotOvfVol=.2752E+01  m3, N-Ovf=   45, TotDurOvf=   92.hrs)
01288> ########################################################################
01289> # STORMS
01290> ########################################################################
01291>  ** END OF RUN : 2007
01292>
01293> ********************************************************************************************************************
01294>
01295>
01296>
01297>
01298>
01299>  RUN#:COMMAND#
01300> R2008:C00001----------------------------------------------------------------------------------------------------
01301>      START
01302>       [TZERO =    .00 hrs on 20080101]
01303>       [METOUT=   2    (1=imperial, 2=metric output)]
01304>       [NSTORM=   0 ]
01305>       [NRUN  = 2008 ]
01306> ********************************************************************************************************************
01307> #  SWMHYMO  / INPUT DATA FILE
01308> ********************************************************************************************************************
01309> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01310> #  Date        : [15 MAY 2025]
01311> #  Modeller    : [JB]
01312> #  Company     : JFSAinc.
01313> #  License #   :  2549237
01314> ********************************************************************************************************************
01315> # SWMHYMO model of Cold Creek development -  LID analysis
01316> ********************************************************************************************************************
01317> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01318> R2008:C00002----------------------------------------------------------------------------------------------------
01319>   *  READ AES DATA
01320>       [Filename  = Kings_1982-2025.txt                                          ]
01321>       [Start_date= 2008.0101: End_date= 2008.1230]
01322>       [DT= 60.min: Length= 8760.hrs: WetHrs=  231: DryHrs= 8529: PTOT= 432.00]
01323>       Maximum average rainfall intensities over
01324>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01325>        20.60    13.90     9.87     6.40     4.40     2.53     1.72     1.29     1.04    mm/hr
01326>        20.60    27.80    29.60    38.40    52.80    60.80    61.80    62.00    74.60    mm
01327>       20080724 20080724 20080724 20081025 20081025 20081025 20080724 20080725 20080725 20080726  date
01328>       Number of rainfall events per following interevent time
01329>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01330>           99       82       72       59       47       37       28       19       13
01331>       Number of events with at least the following durations
01332>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01333>           98       50       27        8        1        0        0        0        0
01334> R2008:C00003----------------------------------------------------------------------------------------------------
01335>      COMPUTE API
01336>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01337>       [APImax= 82.61: APIavg= 11.90: APImin=  .00]
01338> ********************************************************************************************************************
01339> # Phase 1
01340> ********************************************************************************************************************
01341> R2008:C00004----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01342>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .360 2008.0724_10:00  210.07 .486     .000
01343>       [XIMP=.43:TIMP=.53]
01344>       [LOSS= 2 :CN= 79.0]
01345>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01346>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01347>       [IaRECimp=  24.00: IaRECper=   8.00]
01348>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01349> R2008:C00005----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01350>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .360 2008.0724_10:00  210.07  n/a     .000
01351>                   out <=    5.0 01:P1-Inf         3.03     .004 2008.0709_12:50  210.07  n/a     .000
01352>                 overflow <=    5.0 03:P1-Over      4.71     .349 2008.0724_10:05  210.07  n/a     .000
01353>       (MxStoUsed=.1600E-01  m3, TotOvfVol=.9893E+00  m3, N-Ovf=   50, TotDurOvf=   58.hrs)
01354> ********************************************************************************************************************
01355> # Full Development
01356> ********************************************************************************************************************
01357> R2008:C00006----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01358>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     1.341 2008.0724_10:05  192.70 .446     .000
01359>       [XIMP=.37:TIMP=.47]
01360>       [LOSS= 2 :CN= 79.0]
01361>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01362>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01363>       [IaRECimp=  24.00: IaRECper=   8.00]
01364>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01365> R2008:C00007----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01366>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     1.341 2008.0724_10:05  192.70  n/a     .000
01367>                   out <=    5.0 01:Full-Inf       8.35     .009 2008.0709_ 6:00  192.77  n/a     .000
01368>                 overflow <=    5.0 03:Full-Over    23.10     1.325 2008.0724_10:05  192.70  n/a     .000
01369>       (MxStoUsed=.3499E-01  m3, TotOvfVol=.1445E+01  m3, N-Ovf=   64, TotDurOvf=   85.hrs)
01370> ########################################################################
01371> # STORMS
01372> ########################################################################
01373>  ** END OF RUN : 2008
01374>
01375> ********************************************************************************************************************
01376>
01377>
01378>
01379>
01380>
01381>  RUN#:COMMAND#
01382> R2009:C00001----------------------------------------------------------------------------------------------------
01383>      START
01384>       [TZERO =    .00 hrs on 20090101]
01385>       [METOUT=   2    (1=imperial, 2=metric output)]
01386>       [NSTORM=   0 ]
01387>       [NRUN  = 2009 ]
01388> ********************************************************************************************************************
01389> #  SWMHYMO  / INPUT DATA FILE
01390> ********************************************************************************************************************
01391> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01392> #  Date        : [15 MAY 2025]
01393> #  Modeller    : [JB]
01394> #  Company     : JFSAinc.
01395> #  License #   :  2549237
01396> ********************************************************************************************************************
01397> # SWMHYMO model of Cold Creek development -  LID analysis
01398> ********************************************************************************************************************
01399> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01400> R2009:C00002----------------------------------------------------------------------------------------------------
01401>   *  READ AES DATA
01402>       [Filename  = Kings_1982-2025.txt                                          ]
01403>       [Start_date= 2009.0101: End_date= 2009.1231]
01404>       [DT= 60.min: Length= 8760.hrs: WetHrs=  351: DryHrs= 8409: PTOT= 501.80]
01405>       Maximum average rainfall intensities over
01406>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01407>        11.40     8.30     6.00     3.70     2.83     1.67     1.27     1.06      .73    mm/hr
01408>        11.40    16.60    18.00    22.20    34.00    40.20    45.60    50.80    52.80    mm
01409>       20090718 20090821 20090929 20090829 20090528 20090528 20090528 20090529 20090530  date
01410>       Number of rainfall events per following interevent time
01411>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01412>           143      121      106       85       67       53       43       31       18
01413>       Number of events with at least the following durations
01414>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01415>           142       69       45       16        1        0        0        0        0
01416> R2009:C00003----------------------------------------------------------------------------------------------------
01417>      COMPUTE API
01418>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01419>       [APImax= 55.35: APIavg= 13.72: APImin=  .00]
01420> ********************************************************************************************************************
01421> # Phase 1
01422> ********************************************************************************************************************
01423> R2009:C00004----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01424>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .115 2009.0829_17:00  210.36 .419     .000
01425>       [XIMP=.43:TIMP=.53]
01426>       [LOSS= 2 :CN= 79.0]
01427>       [Pervious    area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01428>       [Impervious  area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01429>       [IaRECimp=  24.00: IaRECper=   8.00]
01430>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01431> R2009:C00005----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01432>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .115 2009.0829_17:00  210.36  n/a     .000
01433>                   out <=    5.0 01:P1-Inf         4.32     .004 2009.0501_ 4:55  210.36  n/a     .000
01434>                 overflow <=    5.0 03:P1-Over      3.42     .109 2009.0829_17:00  210.36  n/a     .000
01435>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.7195E+00  m3, N-Ovf=   64, TotDurOvf=   75.hrs)
01436> ********************************************************************************************************************
01437> # Full Development
01438> ********************************************************************************************************************
01439> R2009:C00006----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01440>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44      .397 2009.0829_17:05  188.62 .376     .000
```

```
      [XIMP=.37:TIMP=.47]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2009:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     .397 2009.0829_17:05  188.62  n/a     .000
                  out <=    5.0 01:Full-Inf     12.27     .009 2009.0501_ 4:10  188.70  n/a     .000
            overflow <=    5.0 03:Full-Over    19.17     .385 2009.0829_17:10  188.62  n/a     .000
    (MxStoUsed=.3499E-01  m3, TotOvfVol=.3617E+01  m3, N-Ovf=    90, TotDurOvf=  120.hrs)
##############################################################################
# STORMS
##############################################################################
  ** END OF RUN : 2009


 RUN#:COMMAND#
R2010:C00001------------------------------------------------------------------------------
      START
      [TZERO =    .00 hrs on 20100101]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   0 ]
      [NRUN  = 2010 ]
#*****************************************************************************************
#  SWMHYMO  / INPUT DATA FILE
#*****************************************************************************************
#  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
#  Date        : [15 MAY 2025]
#  Modeller    : [JB]
#  Company     : JFSAinc.
#  License #   : 2549237
#*****************************************************************************************
# SWMHYMO model of Cold Creek development -  LID analysis
#*****************************************************************************************
# Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
R2010:C00002------------------------------------------------------------------------------
  *  READ AES DATA
      [Filename  = Kings_1982-2025.txt                                          ]
      [Start_date= 2010.0101: End_date= 2010.1231]
      [DT= 60.min: Length= 8760.hrs: WetHrs=  398: DryHrs= 8362: PTOT= 624.80)
      Maximum average rainfall intensities over
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
       20.40    15.00    11.47     7.67     4.33     2.32     1.54     1.16      .84    mm/hr
       20.40    30.00    34.40    46.00    52.00    55.60    55.60    60.60    mm
      20101117 20101117 20101117 20101117 20101117 20101117 20101118 20101118 20101117  date
      Number of rainfall events per following intervent time
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
         138      118      102       84       71       51       41       32       27
      Number of events with at least the following durations
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
         137       73       51       17        4        0        0        0        0
R2010:C00003------------------------------------------------------------------------------
      COMPUTE API
      [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
      [APImax= 71.48: APIavg= 16.77: APImin=   .00]
#*****************************************************************************************
# Phase 1
#*****************************************************************************************
R2010:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:P1             7.74     .325 2010.1117_ 8:05  285.13 .456     .000
      [XIMP=.43:TIMP=.53]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2010:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:P1             7.74     .325 2010.1117_ 8:05  285.13  n/a     .000
                  out <=    5.0 01:P1-Inf       3.57     .004 2010.0506_ 5:35  285.13  n/a     .000
            overflow <=    5.0 03:P1-Over      4.17     .318 2010.1117_ 8:05  285.13  n/a     .000
    (MxStoUsed=.1600E-01  m3, TotOvfVol=.1189E+01  m3, N-Ovf=   78, TotDurOvf=   98.hrs)
#*****************************************************************************************
# Full Development
#*****************************************************************************************
R2010:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     1.165 2010.1117_ 8:10  258.26 .413     .000
      [XIMP=.37:TIMP=.47]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2010:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     1.165 2010.1117_ 8:10  258.27  n/a     .000
                  out <=    5.0 01:Full-Inf     9.81     .009 2010.0506_ 5:25  258.38  n/a     .000
            overflow <=    5.0 03:Full-Over    21.63     1.152 2010.1117_ 8:10  258.27  n/a     .000
    (MxStoUsed=.3498E-01  m3, TotOvfVol=.5587E+01  m3, N-Ovf=   94, TotDurOvf=  148.hrs)
##############################################################################
# STORMS
##############################################################################
  ** END OF RUN : 2011


 RUN#:COMMAND#
R2012:C00001------------------------------------------------------------------------------
      START
      [TZERO =    .00 hrs on 20120101]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   0 ]
      [NRUN  = 2012 ]
#*****************************************************************************************
#  SWMHYMO  / INPUT DATA FILE
#*****************************************************************************************
#  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
#  Date        : [15 MAY 2025]
#  Modeller    : [JB]
#  Company     : JFSAinc.
#  License #   : 2549237
#*****************************************************************************************
# SWMHYMO model of Cold Creek development -  LID analysis
#*****************************************************************************************
# Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
R2012:C00002------------------------------------------------------------------------------
  *  READ AES DATA
      [Filename  = Kings_1982-2025.txt                                          ]
      [Start_date= 2012.0101: End_date= 2012.1230]
      [DT= 60.min: Length= 8760.hrs: WetHrs=  267: DryHrs= 8493: PTOT= 382.20)
      Maximum average rainfall intensities over
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
       29.80    21.20    16.13    12.03     6.85     3.48     2.33     1.75     1.16    mm/hr
       29.80    42.40    57.40    72.20    82.20    83.60    83.80    83.80    83.80    mm
      20120904 20120905 20120905 20120905 20120905 20120905 20120905 20120905 20120906  date
      Number of rainfall events per following intervent time
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
          96       85       77       65       53       40       35       27       23
      Number of events with at least the following durations
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
          95       55       32       12        2        0        0        0        0
R2012:C00003------------------------------------------------------------------------------
      COMPUTE API
      [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
      [APImax= 84.73: APIavg= 10.52: APImin=   .00]
#*****************************************************************************************
# Phase 1
#*****************************************************************************************
R2012:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:P1             7.74     .505 2012.0905_ 0:05  184.81 .484     .000
      [XIMP=.43:TIMP=.53]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2012:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:P1             7.74     .505 2012.0905_ 0:05  184.81  n/a     .000
                  out <=    5.0 01:P1-Inf       2.90     .004 2012.0603_23:55  184.81  n/a     .000
            overflow <=    5.0 03:P1-Over      4.84     .492 2012.0905_ 0:05  184.81  n/a     .000
    (MxStoUsed=.1599E-01  m3, TotOvfVol=.8941E+00  m3, N-Ovf=   26, TotDurOvf=   51.hrs)
#*****************************************************************************************
# Full Development
#*****************************************************************************************
R2012:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     1.906 2012.0905_ 0:10  170.32 .446     .000
      [XIMP=.37:TIMP=.47]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2012:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     1.906 2012.0905_ 0:10  170.32  n/a     .000
                  out <=    5.0 01:Full-Inf     8.20     .009 2012.0601_21:55  170.39  n/a     .000
            overflow <=    5.0 03:Full-Over    23.24     1.886 2012.0905_ 0:15  170.32  n/a     .000
    (MxStoUsed=.3500E-01  m3, TotOvfVol=.3958E+01  m3, N-Ovf=   44, TotDurOvf=   72.hrs)
##############################################################################
# STORMS
##############################################################################
  ** END OF RUN : 2012


 RUN#:COMMAND#
R2013:C00001------------------------------------------------------------------------------
      START
      [TZERO =    .00 hrs on 20130101]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   0 ]
      [NRUN  = 2013 ]
#*****************************************************************************************
#  SWMHYMO  / INPUT DATA FILE
#*****************************************************************************************
#  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
#  Date        : [15 MAY 2025]
#  Modeller    : [JB]
#  Company     : JFSAinc.
#  License #   : 2549237
#*****************************************************************************************
# SWMHYMO model of Cold Creek development -  LID analysis
#*****************************************************************************************
# Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
R2013:C00002------------------------------------------------------------------------------
      READ AES DATA
      [Filename  = Kings_1982-2025.txt                                          ]
      [Start_date= 2013.0101: End_date= 2013.1231]
      [DT= 60.min: Length= 8760.hrs: WetHrs=  461: DryHrs= 8299: PTOT= 559.60)
      Maximum average rainfall intensities over
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
       14.00     9.20     6.13     3.90     2.97     1.81     1.21      .91      .61    mm/hr
       14.00    18.40    18.40    23.40    35.60    43.40    43.40    43.60    43.80    mm
      20130803 20130803 20130803 20130803 20130921 20130611 20130611 20130612 20130612 20130613  date
      Number of rainfall events per following intervent time
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
         176      147      127      106       86       61       48       42       35
      Number of events with at least the following durations
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
         175       89       61       17        3        0        0        0        0
R2013:C00003------------------------------------------------------------------------------
      COMPUTE API
      [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
      [APImax= 78.86: APIavg= 15.22: APImin=   .17]
#*****************************************************************************************
# Phase 1
#*****************************************************************************************
R2013:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:P1             7.74     .145 2013.0803_ 6:00  235.73 .421     .000
      [XIMP=.43:TIMP=.53]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2013:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:P1             7.74     .145 2013.0803_ 6:00  235.73  n/a     .000
                  out <=    5.0 01:P1-Inf       4.27     .004 2013.0113_14:50  235.73  n/a     .000
            overflow <=    5.0 03:P1-Over      3.47     .139 2013.0803_ 6:00  235.73  n/a     .000
    (MxStoUsed=.1597E-01  m3, TotOvfVol=.8173E+00  m3, N-Ovf=   61, TotDurOvf=   91.hrs)
#*****************************************************************************************
# Full Development
#*****************************************************************************************
R2013:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .496 2013.0803_ 6:00  212.02 .379     .000
      [XIMP=.37:TIMP=.47]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2013:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     .496 2013.0803_ 6:00  212.02  n/a     .000
                  out <=    5.0 01:Full-Inf     12.43     .009 2013.0113_14:35  212.11  n/a     .000
            overflow <=    5.0 03:Full-Over    19.01     .479 2013.0803_ 6:05  212.02  n/a     .000
    (MxStoUsed=.3497E-01  m3, TotOvfVol=.4030E+01  m3, N-Ovf=  101, TotDurOvf=  137.hrs)
##############################################################################
# STORMS
##############################################################################
  ** END OF RUN : 2013


 RUN#:COMMAND#
R2014:C00001------------------------------------------------------------------------------
      START
      [TZERO =    .00 hrs on 20140101]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   0 ]
      [NRUN  = 2014 ]
#*****************************************************************************************
#  SWMHYMO  / INPUT DATA FILE
#*****************************************************************************************
#  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
#  Date        : [15 MAY 2025]
#  Modeller    : [JB]
#  Company     : JFSAinc.
#  License #   : 2549237
#*****************************************************************************************
# SWMHYMO model of Cold Creek development -  LID analysis
#*****************************************************************************************
# Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
R2014:C00002------------------------------------------------------------------------------
      READ AES DATA
      [Filename  = Kings_1982-2025.txt                                          ]
      [Start_date= 2014.0101: End_date= 2014.1231]
      [DT= 60.min: Length= 8760.hrs: WetHrs=  458: DryHrs= 8302: PTOT= 580.40)
      Maximum average rainfall intensities over
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
       17.80    10.80     7.53     4.53     3.15     2.56     1.73     1.30      .88    mm/hr
       17.80    21.60    22.60    27.20    37.80    61.40    62.40    62.40    63.20    mm
      20140611 20140611 20140611 20140812 20140812 20140813 20140813 20140814 20140815  date
      Number of rainfall events per following intervent time
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
         171      152      135      111       87       63       53       41       36
      Number of events with at least the following durations
        1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
         170       92       56       19        4        0        0        0        0
R2014:C00003------------------------------------------------------------------------------
      COMPUTE API
      [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
      [APImax= 64.89: APIavg= 15.65: APImin=   .00]
#*****************************************************************************************
# Phase 1
#*****************************************************************************************
R2014:C00004------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:P1             7.74     .207 2014.0613_13:05  253.84 .437     .000
      [XIMP=.43:TIMP=.53]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2014:C00005------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:P1             7.74     .207 2014.0613_13:05  253.84  n/a     .000
                  out <=    5.0 01:P1-Inf       4.11     .004 2014.0111_16:35  253.84  n/a     .000
            overflow <=    5.0 03:P1-Over      3.63     .202 2014.0613_13:05  253.84  n/a     .000
    (MxStoUsed=.1596E-01  m3, TotOvfVol=.9222E+00  m3, N-Ovf=   63, TotDurOvf=   88.hrs)
#*****************************************************************************************
# Full Development
#*****************************************************************************************
R2014:C00006------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .766 2014.0613_13:10  230.23 .397     .000
      [XIMP=.37:TIMP=.47]
      [LOSS= 2 :CN= 79.0]
      [Pervious     area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
      [Impervious   area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
      [IaRECimp=  24.00: IaRECper=   8.00]
      [SMIN= 27.47: SMAX=183.15: SK= .030]
R2014:C00007------------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
    ROUTE RESERVOIR ->    5.0 02:Full-Dev      31.44     .766 2014.0613_13:10  230.23  n/a     .000
                  out <=    5.0 01:Full-Inf     11.62     .009 2014.0111_16:10  230.33  n/a     .000
            overflow <=    5.0 03:Full-Over    19.82     .754 2014.0613_13:20  230.23  n/a     .000
    (MxStoUsed=.3500E-01  m3, TotOvfVol=.4564E+01  m3, N-Ovf=  104, TotDurOvf=  143.hrs)
##############################################################################
# STORMS
##############################################################################
  ** END OF RUN : 2014


 RUN#:COMMAND#
R2015:C00001------------------------------------------------------------------------------
      START
      [TZERO =    .00 hrs on 20150101]
      [METOUT=   2    (1=imperial, 2=metric output)]
      [NSTORM=   0 ]
      [NRUN  = 2015 ]
#*****************************************************************************************
#  SWMHYMO  / INPUT DATA FILE
#*****************************************************************************************
```

```
01801> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01802> #  Date        : [15 MAY 2025]
01803> #  Modeller    : [JB]
01804> #  Company     : JFSAinc.
01805> #  License #   :  2549237
01806> #*****************************************************************************************************
01807> # SWMHYMO model of Cold Creek development -  LID analysis
01808> #*****************************************************************************************************
01809> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01810> R2015:C00002-------------------------------------------------------------------------------------------
01811>      READ AES DATA
01812>       [Filename  = Kings_1982-2025.txt                                    ]
01813>       [Start_date= 2015.0101: End_date= 2015.1231]
01814>       [DT= 60.min: Length= 8760.hrs: WetHrs=  349: DryHrs= 8411: PTOT= 539.60)
01815>       Maximum average rainfall intensities over
01816>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01817>        39.40    19.90    14.33     9.03     4.53     2.31     1.54     1.43     .96    mm/hr
01818>        39.40    39.80    43.00    54.20    54.40    55.40    55.60    68.60    68.80    mm
01819>       20150623 20150623 20150623 20150623 20150623 20150623 20150623 20150623 20150624  date
01820>       Number of rainfall events per following interevent time
01821>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01822>          143      119      106       85       72       57       46       40       28
01823>       Number of events with at least the following durations
01824>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01825>          142       67       41       18        0        0        0        0        0
01826> R2015:C00003-------------------------------------------------------------------------------------------
01827>      COMPUTE API
01828>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01829>       [APImax= 88.28: APIavg= 14.70: APImin=   .00]
01830> #*****************************************************************************************************
01831> # Phase 1
01832> #*****************************************************************************************************
01833> R2015:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01834>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .731 2015.0623_11:00  247.99 .460     .000
01835>       [XIMP=.43:TIMP=.53]
01836>       [LOSS= 2 :CN= 79.0]
01837>       [Pervious      area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01838>       [Impervious    area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01839>       [IaRECimp=  24.00: IaRECper=   8.00]
01840>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01841> R2015:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01842>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .731 2015.0623_11:00  247.99  n/a     .000
01843>                      out <=    5.0 01:P1-Inf         3.36     .004 2015.0410_ 8:00  248.00  n/a     .000
01844>                 overflow <=    5.0 03:P1-Over        4.38     .688 2015.0623_11:00  247.99  n/a     .000
01845>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.1087E+01  m3, N-Ovf=   53, TotDurOvf=   74.hrs)
01846> #*****************************************************************************************************
01847> # Full Development
01848> #*****************************************************************************************************
01849> R2015:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01850>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44    2.659 2015.0623_11:00  225.71 .418     .000
01851>       [XIMP=.37:TIMP=.47]
01852>       [LOSS= 2 :CN= 79.0]
01853>       [Pervious      area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01854>       [Impervious    area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01855>       [IaRECimp=  24.00: IaRECper=   8.00]
01856>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01857> R2015:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01858>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44    2.659 2015.0623_11:00  225.71  n/a     .000
01859>                      out <=    5.0 01:Full-Inf       9.19     .009 2015.0403_ 3:55  225.81  n/a     .000
01860>                 overflow <=    5.0 03:Full-Over     22.25    2.640 2015.0623_11:05  225.71  n/a     .000
01861>       (MxStoUsed=.3500E-01  m3, TotOvfVol=.5023E+01  m3, N-Ovf=   79, TotDurOvf=  115.hrs)
01862> ###################################################################################
01863> # STORMS
01864> ###################################################################################
01865>    ** END OF RUN : 2015
01866>
01867> *****************************************************************************************************
01868>
01869>
01870>
01871>
01872>
01873>  RUN#:COMMAND#
01874> R2016:C00001-------------------------------------------------------------------------------------------
01875>      START
01876>       [TZERO =     .00 hrs on 20160101]
01877>       [METOUT=   2     (1=imperial, 2=metric output)]
01878>       [NSTORM=   0 ]
01879>       [NRUN  = 2016 ]
01880> #*****************************************************************************************************
01881> #  SWMHYMO  / INPUT DATA FILE
01882> #*****************************************************************************************************
01883> #  Project Name: [Cold Creek - LID Model]    Project Number: [2528]
01884> #  Date        : [15 MAY 2025]
01885> #  Modeller    : [JB]
01886> #  Company     : JFSAinc.
01887> #  License #   :  2549237
01888> #*****************************************************************************************************
01889> # SWMHYMO model of Cold Creek development -  LID analysis
01890> #*****************************************************************************************************
01891> # Kingston Airport - January 1st to December 31st - 1967 - 2016 - Environment Canada
01892> R2016:C00002-------------------------------------------------------------------------------------------
01893>      READ AES DATA
01894>       [Filename  = Kings_1982-2025.txt                                    ]
01895>       [Start_date= 2016.0101: End_date= 2016.1230]
01896>       [DT= 60.min: Length= 8760.hrs: WetHrs=  133: DryHrs= 8627: PTOT= 215.80)
01897>       Maximum average rainfall intensities over
01898>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01899>        15.40    11.20     8.00     4.00     2.13     1.81     1.27      .95      .64    mm/hr
01900>        15.40    22.40    24.00    24.00    25.60    43.40    45.60    45.60    46.20    mm
01901>       20160831 20160831 20160831 20160831 20161021 20161021 20161022 20161022 20161023  date
01902>       Number of rainfall events per following interevent time
01903>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01904>           45       45       45       43       42       40       36       35       29
01905>       Number of events with at least the following durations
01906>         1 hr    2 hrs    3 hrs    6 hrs   12 hrs   24 hrs   36 hrs   48 hrs   72 hrs
01907>           44       24       14        5        3        0        0        0        0
01908> R2016:C00003-------------------------------------------------------------------------------------------
01909>      COMPUTE API
01910>       [APIini= 25.00: APIkdy= .9000: APIkdt= .9956]
01911>       [APImax= 46.92: APIavg=  6.27: APImin=   .05]
01912> #*****************************************************************************************************
01913> # Phase 1
01914> #*****************************************************************************************************
01915> R2016:C00004-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01916>      CONTINUOUS STANDHYD    5.0 01:P1             7.74     .177 2016.0831_21:00   93.94 .435     .000
01917>       [XIMP=.43:TIMP=.53]
01918>       [LOSS= 2 :CN= 79.0]
01919>       [Pervious      area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01920>       [Impervious    area: IAimp= 1.57:SLPI= .50:LGI= 227.:MNI=.013:SCI=   .0]
01921>       [IaRECimp=  24.00: IaRECper=   8.00]
01922>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01923> R2016:C00005-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01924>      ROUTE RESERVOIR ->     5.0 02:P1             7.74     .177 2016.0831_21:00   93.94  n/a     .000
01925>                      out <=    5.0 01:P1-Inf         3.11     .004 2016.0331_15:45   93.94  n/a     .000
01926>                 overflow <=    5.0 03:P1-Over        4.63     .170 2016.0831_21:00   93.94  n/a     .000
01927>       (MxStoUsed=.1599E-01  m3, TotOvfVol=.4354E+00  m3, N-Ovf=   21, TotDurOvf=   36.hrs)
01928> #*****************************************************************************************************
01929> # Full Development
01930> #*****************************************************************************************************
01931> R2016:C00006-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01932>      CONTINUOUS STANDHYD    5.0 01:Full-Dev      31.44     .616 2016.0831_21:00   85.11 .394     .000
01933>       [XIMP=.37:TIMP=.47]
01934>       [LOSS= 2 :CN= 79.0]
01935>       [Pervious      area: IAper= 4.67:SLPP=2.00:LGP=  40.:MNP=.250:SCP=   .0]
01936>       [Impervious    area: IAimp= 1.57:SLPI= .50:LGI= 458.:MNI=.013:SCI=   .0]
01937>       [IaRECimp=  24.00: IaRECper=   8.00]
01938>       [SMIN= 27.47: SMAX=183.15: SK= .030]
01939> R2016:C00007-----------DTmin-ID:NHYD---------AREAha-QPEAKcms-TpeakDate_hh:mm----RVmm-R.C.---DWFcms
01940>      ROUTE RESERVOIR ->     5.0 02:Full-Dev      31.44     .616 2016.0831_21:00   85.11  n/a     .000
01941>                      out <=    5.0 01:Full-Inf       8.50     .009 2016.0331_14:25   85.16  n/a     .000
01942>                 overflow <=    5.0 03:Full-Over     22.94     .601 2016.0831_21:05   85.11  n/a     .000
01943>       (MxStoUsed=.3501E-01  m3, TotOvfVol=.1953E+01  m3, N-Ovf=   23, TotDurOvf=   48.hrs)
01944> ###################################################################################
01945> # STORMS
01946> ###################################################################################
01947> R2016:C00002-------------------------------------------------------------------------------------------
01948>      FINISH
01949> -------------------------------------------------------------------------------------------------------
01950> *****************************************************************************************************
01951>       WARNINGS / ERRORS / NOTES
01952>       -------------------------
01953> R1982:C00002  READ AES DATA
01954> *** WARNING: Requested start date is less than start date in file.
01955> *** WARNING: Missing rainfall increments were set to 0.
01956> *** WARNING: Missing rainfall increments were set to 0.
01957> *** WARNING: Missing rainfall increments were set to 0.
01958> *** WARNING: Missing rainfall increments were set to 0.
01959> *** WARNING: Missing rainfall increments were set to 0.
01960> *** WARNING: Missing rainfall increments were set to 0.
01961> *** WARNING: Missing rainfall increments were set to 0.
01962> *** WARNING: Missing rainfall increments were set to 0.
01963> *** WARNING: Missing rainfall increments were set to 0.
01964> *** WARNING: Missing rainfall increments were set to 0.
01965> *** WARNING: Missing rainfall increments were set to 0.
01966> *** WARNING: Missing rainfall increments were set to 0.
01967> *** WARNING: Missing rainfall increments were set to 0.
01968> *** WARNING: Missing rainfall increments were set to 0.
01969> *** WARNING: Missing rainfall increments were set to 0.
01970> *** WARNING: Missing rainfall increments were set to 0.
01971> *** WARNING: Missing rainfall increments were set to 0.
01972> *** WARNING: Missing rainfall increments were set to 0.
01973> *** WARNING: Missing rainfall increments were set to 0.
01974>    Simulation ended on 2025-05-14     at 11:43:18
01975> ===================================================================================================
01976>
```

# APPENDIX B

Infiltration Gallery Calculations

**Infiltration Gallery Design**
**Cold Creek Subdivision**
**Dated: May 16th, 2025**

INSITE PROJECT CONSULTING INC.

**Required LID storage volumes per SWM memo by JFSA, dated May 2025**

| | | |
|---|---|---|
| **Phase 1** | 160 | $m^3$ |
| **Full Development** | 350 | $m^3$ |

BMP Sizing Reference:
LID Stormwater Mangement Planning and Design Guide, version 1.0, 2010, CVC & TRCA)

| | |
|---|---|
| WQV (water quality volume) | Volume in 15mm event. |
| Dr (stone trench depth) | Design depth |
| Ar (stone trench area) | Design Area |
| Vr (void space) for 50mm Clearstone | 0.4 |

**Phase 1 Infiltration Volumes**
**Within SWM Pond Block (A)**

| | | |
|---|---|---|
| **Infiltration Gallery Downstream of Pond Outlet (Area)** | 651 | $m^2$ |
| Dr (stone trench depth) | 0.70 | m |
| Total Volume including pipes | 456 | m3 |
| Pipe size | 0.38 | m |
| Pipe radius | 0.19 | m |
| Pipe length | 248 | m |
| Pipe WQV | 28 | m3 |
| Stone trench volume = total volume - pipe volume | 428 | m3 |
| Stone trench WQV = (Ar x Dr x Vr) | 171 | m3 |
| **WQV = Stone trench WQV + Pipe volume** | 199 | m3 |

**Within Condo Blocks (B)**

| | | |
|---|---|---|
| **Infiltration Gallery in Condo Block (Area)** | 25 | $m^2$ |
| Dr (stone trench depth) | 1.00 | m |
| Total Volume including pipes | 25 | $m^3$ |
| Pipe size | 0.30 | m |
| Pipe radius | 0.15 | m |
| Pipe length | 15 | m |
| Pipe WQV | 1 | $m^3$ |
| Stone Trench volume = total volume - pipe volume | 24 | $m^3$ |
| Stone trench WQV = (Ar x Dr x Vr) | 10 | $m^3$ |
| Infiltration galleries | 3 | |
| **WQV = Stone trench WQV + Pipe WQV** | 32 | $m^3$ |

| | | |
|---|---|---|
| **Phase 1 WQV = A + B** | **231** | $m^3$ |

**Future Infiltration Within Condo Blocks (C)**

| | | |
|---|---|---|
| **Infiltration Gallery in Condo Block (Area)** | 25 | $m^2$ |
| Dr (stone trench depth) | 1.00 | m |
| Total Volume including pipes | 25 | $m^3$ |
| Pipe size | 0.30 | m |
| Pipe radius | 0.15 | m |
| Pipe length | 15 | m |
| Pipe WQV | 1 | $m^3$ |
| Stone Trench volume = total volume - pipe volume | 24 | $m^3$ |
| Stone trench WQV = (Ar x Dr x Vr) | 10 | $m^3$ |
| Infiltration galleries | 12 | |
| **WQV = Stone trench WQV + Pipe WQV** | 128 | $m^3$ |

| | | |
|---|---|---|
| **Total Development WQV = A + B + C** | **359** | $m^3$ |