



SWM CLI-ECA

CGS SCENARIO GUIDE

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WHAT IS THE CLI-ECA?

- Transition from individual pipe by pipe approvals to a consolidated permissions framework with :
 - One multi-media ECA for a municipality's stormwater collection, treatment and disposal system
- Enhance environmental outcomes through updated ECA terms and conditions
- Reduce regulatory burden by eliminating the need for municipalities and developers to submit separate ECA applications for future alterations:
 - If alterations are made in accordance with new Design Criteria
 - Where there is an agreement in place and developers are constructing works that the municipality will eventually own, such as for new housing developments, developers will be able to construct these under the municipality's approval.
- Support efforts to oversee sewage works in an area more holistically

LIMITATIONS OF THE CGS CLI-ECA

- Authorization not granted if:
 - To works on Institutional, Commercial, Industrial land
 - Passes under or through surface water (unless construction method approved by CA)
 - Has nominal diameter greater than 3,200 mm
 - Combined sewer, or transmits, stores, or controls sanitary sewage
 - Servicing a drainage area of greater than 120ha
 - Full list of exemptions in Schedule D and Appendix A of the SW CLI-ECA

SCENARIO #1 – STORM SEWER, CULVERT, DITCH REPLACEMENT/MODIFICATION

- Applies to replacement of **existing** storm sewer, road crossing culvert, or ditch – this includes modifications to alignment, size, material, etc.
- Requires completion of **Form SW1**
- Form SW1 Roles & Responsibilities (before being placed into service):
 - Part 1: Environmental Compliance Approval Number – 016-S701 – **Designer**
 - Part 2: Description of Alteration – **Designer**
 - Part 3: Verification by Licensed Practical Engineer – **Engineer**
 - Part 4: Verification by Owner – **Director ICP**
- Form SW1 Roles & Responsibilities (post inspection and testing):
 - Part 5: Post Construction Verification – **City Project Manager**
- **Where SWM Facility also included (e.g., OGS), Form SW2 and DN Form also required (See Scenario #4)**



SCENARIO #2 – STORM SEWER EXTENSION

- Applies to extension of existing storm sewer network – where stormwater management is not required – e.g., adding CB's to meet spacing requirements
- Requires completion of SW1 Form
- Form SW1 Roles & Responsibilities (before being placed into service):
 - Part 1: Environmental Compliance Approval Number – 016-S701 – **Designer**
 - Part 2: Description of Alteration – **Designer**
 - Part 3: Verification by Licensed Practical Engineer – **Engineer**
 - Part 4: Verification by Owner – **Director ICP**
- Form SW1 Roles & Responsibilities (post inspection and testing):
 - Part 5: Post Construction Verification – **City Project Manager**
- **Where SWM Facility also included (e.g., OGS), Form SW2 and DN Form also required (See Scenario #4)**

SCENARIO #3 – URBANIZATION OF RURAL CROSS SECTION

- Applies to the conversion of a road cross section from rural (ditches) to urban (storm sewer and CBs)
- **This scenario requires stormwater management – both quantity and quality control**
- Per CLI-ECA, SW **quantity** must be managed following a hierarchy of controls, with each step exhausted to the **maximum extent possible** before proceeding to the next:
 - a) retention (infiltration, reuse, or evapotranspiration)
 - b) Low Impact Development (LID) filtration*
 - c) Conventional SWM
 - *CGS Constraint of road sand makes roadside LID features infeasible at this time – this may change in the future as pilot studies implemented
- SW **quality** (enhanced, normal, or basic) based on the receiver per the applicable watershed/subwatershed study – or to maximum extent possible

SCENARIO #3 – URBANIZATION OF RURAL CROSS SECTION (CONT'D)

- Requires completion of Form SW1
- Form SW1 Roles & Responsibilities (before being placed into service):
 - Part 1: Environmental Compliance Approval Number – 016-S701 – **Designer**
 - Part 2: Description of Alteration – **Designer**
 - Part 3: Verification by Licensed Practical Engineer – **Engineer**
 - Part 4: Verification by Owner – **Director ICP**
- Form SW1 Roles & Responsibilities (post inspection and testing):
 - Part 5: Post Construction Verification – **City Project Manager**
- **Form SW2 and DN Form also required (See Scenario #4)**

SCENARIO #4 – NEW SWM FACILITY

- Applies to new SWM Facility where not previously established (e.g., Wet/Dry Pond, LID, OGS)*
- Requires completion of Form SW2 and DN Form
- Form SW2 Roles & Responsibilities (before being placed into service):
 - Part 1: Environmental Compliance Approval Number – 016-S701 – **Designer**
 - Part 2: Description of Alteration – **Designer**
 - Part 3: Verification by Licensed Practical Engineer – **Engineer**
 - Part 4: Verification by Owner – **Director ICP**
- Form SW2 Roles & Responsibilities (post inspection and testing):
 - Part 5: Post Construction Verification – **City Project Manager**

**See comprehensive list of SWM Facilities

SCENARIO #4 – NEW SWM FACILITY (CONT'D)

- DN Form Roles & Responsibilities:
 - Statement of Owner – **Director EAM&CP**
 - Municipal Stormwater Management System – **Designer**
 - Technical Information Contact – **Engineer**
 - Municipal Stormwater Management System Alteration Authorization – **Engineer**
 - Description of Alteration – **Designer**
 - Date of Placing into Service/Completion of Alteration – **City Project Manager**
- NOTE: DN Form must be submitted to MECP within **30 Days** of date of placing into service/completion of alteration - **City Project Manager**

SCENARIO #5 – NEW DEVELOPMENT

- Applies to green/brownfield development
- **This scenario requires stormwater management – both quantity and quality control**
- Per CLI-ECA, SW **quantity** must be managed following a hierarchy of controls, with each step exhausted to the **maximum extent possible** before proceeding to the next:
 - a) retention (infiltration, reuse, or evapotranspiration)
 - b) Low Impact Development (LID) filtration*
 - c) Conventional SWM
 - *CGS Constraint of road sand makes roadside LID features infeasible at this time – this may change in the future as pilot studies implemented
- SW **quality** (enhanced)

SCENARIO #5 – NEW DEVELOPMENT (CONT'D)

- Requires completion of **Form SW1**
- Form SW1 Roles & Responsibilities (before being placed into service):
 - Part 1: Environmental Compliance Approval Number – 016-S701 – **Designer**
 - Part 2: Description of Alteration – **Designer**
 - Part 3: Verification by Licensed Practical Engineer – **Consulting Engineer**
 - Part 4: Verification by Owner – **Director ICP**
- Form SW1 Roles & Responsibilities (post inspection and testing):
 - Part 5: Post Construction Verification – **Consultant Representative**
- **Form SW2 and DN Form also required (See Scenario #4)**

APPLICABLE SWM FACILITIES

Rooftop storage	Pervious pipes	Hybrid Facility
Parking lot storage	Pervious catchbasins	Infiltration basin
Superpipe storage	Vegetated filter strips	Filtration MTD
Reduced lot grading	Natural buffer strips	Sedimentation MTD – OGS
Roof leader ponding area	Green roofs/rooftop gardens	Wet Pond
Roof leader to soakaway pit	Engineered Wetland	Dry Pond
Infiltration Trench	Engineered grassed swale/bioswale	
LID that relies on: a) Evapotranspiration; b) Infiltration into the ground; or c) Filtration		
Any other SWM Facility where the Director has provided authorization in writing to proceed with the Alteration		