

# CLI-ECA For a Municipal Stormwater Management System

## Post Construction Verification Checklist

This checklist and supporting documents will verify that **Part 5 - Post Construction Verification by Owner** of the Stormwater Management Systems alteration (addition, modification, replacement, or extension) conforms to all the conditions of the City of Kitchener’s Consolidated Linear Infrastructure (CLI) ECA review and approval process.

*This checklist should be completed concurrently with the inspections and testing conducted to confirm substantial performance (OPSS MUNI-100 and Construction Act, Form 9).*

### A. PROJECT BACKGROUND INFORMATION:

CLI-ECA Application #		
Project Name		
Date		
Contract #		
Project Address (if applicable)		
City Design Project Manager (PM)		
City Construction PM		
Contract Administrator (City /Consultant)		

**Note:** If any section is marked as “Not applicable”, supporting references or comments are required.

### B. CONSTRUCTION PHASE INFORMATION

Indicate the substantial performance date for each construction phase:

Single-Phase Project			Phase 3		
Phase 1			Phase 4		
Phase 2			Phase 5		

### C. PROJECT SCOPE

Indicate applicable components and provide descriptions:

Component	Check, if applicable	Description
Storm Sewers		
LID		
SWM Facility		
OGS		
Others		

## D. INSPECTION AND TESTING RECORDS

All inspections and testing must comply with [MECP Design Criteria](#) (Section 8), [CLI-ECA 019-S701](#), The Region of Waterloo, Design Guidelines and Supplemental Specifications for Municipal Services (DGSSMS), City of Kitchener Standard Specifications (CKSS), Development Manual (DM), and others, whichever is more stringent.

### 1. STORM SEWERS

Items	Included	When selecting 'Yes'- Attach pertinent documents, and when selecting 'No' or 'N/A'- Provide justification
Erosion and Sediment Control (ESC) inspection and records were completed during infrastructure installation per <b>CLI-ECA Schedule D, 3.10 and 3.11</b> .		
CCTV/ Zoom/ Sonar/Laser inspection videos/ reports and reports, as applicable, per <b>MECP Design Criteria, Section 8</b> . Where applicable, provide a deficiency list and corrective action taken.		
Deflection Testing for flexible pipe up to and including 600mm dia. (e.g., Mandrel Test /Laser Profiling reports, as applicable, per <b>MECP Design Criteria, Section 8</b> .		
Other Test Reports, if applicable.		

## 2. Low Impact Development (LID)

For projects involving multiple LIDs, refer to Attachment 1 and complete the forms as instructed

Item	Included	When selecting 'Yes'- Attach pertinent documents, and when selecting 'No' or 'N/A'- Provide justification
Soil type, filter media, liner, etc., must be certified by the supplier and as per the recommendations in project design and specifications.		
The LID construction is as per the project design and specifications.		
Are observation wells, sampling ports, covers etc., accessible?		
Are vegetation cover, condition, and composition as per in project design and specifications?		
Are trash, debris, sediment, weeds, etc., present or impairing the function of LID?		
Do surface infiltration rate test results conform to the design infiltration rate?		
Is a natural or simulated storm event specified in the design drawings or specifications? If yes, include a copy of the test results.		

## 3. Oil and Grit Separator (OGS)

For projects involving multiple OGS units, refer to Attachment 2 and complete the forms as instructed

Item	Included	When selecting 'Yes'- Attach pertinent documents and when selecting 'No' or N/A- Provide justification
The OGS construction is as per the project design and specifications.		
Are maintenance holes (MHs), grates, covers, and steps accessible?		
Are inlets accumulating sediment and /or Trash?		
Are trash racks corroded /obstructed?		
Are oil containment chambers obstructed/ leaking/ cracking?		
Do sediment collection chambers have leakages, cracks, displacements, trash accumulation?  Measure depth of accumulated sediment (m) = Measure Distance from the rim of the access cover to the bottom of the structure – distance from the rim of the access cover to the top of the sediment.		

Item	Included	When selecting 'Yes'- Attach pertinent documents and when selecting 'No' or N/A- Provide justification
Are outlets accumulating sediment and /or trash?		
Any other items – missing components, structural condition, public hazard, etc.?		

#### 4. Stormwater Management Facility (SWMF)

For projects involving multiple SWMFs, refer to Attachment 3 and complete the forms as instructed.

Item	Included	When selecting 'Yes'- Attach pertinent documents, and when selecting 'No' or 'N/A'- provide justification
SWM Facility conforms to design and specifications.		
Is the Permanent Pool level as per design?		
Are the control & drain valves set per design?		
Were there any visual /olfactory observations? – turbidity, algae, foul odour.		
Are sediment and/or debris accumulating at the inlet, forebay, main cell, and outlet?		
Are there any visible signs of erosion, spills, sheen, etc.?		
Are the structural conditions for inlet, outlet, and headwall acceptable? <ul style="list-style-type: none"> <li>i. Joint failure, leaks, corrosion, settlement, etc.</li> <li>ii. Rip-rap condition – (displaced / good)</li> <li>iii. Erosion</li> <li>iv. Other concerns</li> </ul>		
Any obstructions /debris, vegetative growth accumulated at the inlet, outlet, and emergency spillway?		
Note any other items of concern, e.g., missing components, public hazard, signs, etc..		



## E. APPLICANT ACKNOWLEDGEMENT

Name:

Date:

Title:

Company:

