Table of Contents

1. Checklist 1
2. Applicant Information 2
2.1 Applicant Information 2
2.2 Project Information 2
2.3 Technical Contact 2
3. Regulatory Requirements 3
3.1 Regulatory Requirements 3
3.2 Consultation/Notification 3
4. Site Information 3
4.1 Site Address 3
4.2 Location Information 3
4.3 Source Protection 3
5. Sewage Works 3
5.1 Stormwater Management Facility 3
5.2 Oil and Grit Separator 4
5.3 Pipe Data 5
5.3.1 Drawings 5
5.3.2 Storm Sewers 6
5.3.3 Sanitary Sewers 6
5.3.4 Forcemains 7
6. Acknowledgement 7
6.1 Design Engineer 7

1. Checklist

Please ensure that all items are completed and checked before submitting the CLI ECA application.

- ☐ The City of Kawartha Lakes CLI ECA Application Form is complete (This Form)
- ☐ All required drawings have been attached
  - ☐ Plan and Profile of all Services
  - ☐ Sanitary Drainage Plans
  - ☐ Storm Drainage Plans
  - ☐ Plans of Stormwater Management Facilities
- ☐ Required consultation has been completed

  Proof of consultation is attached (e.g First Nation, Metis, Public, etc.)

  ☐ Yes, attached ☐ No, not applicable

  If consultation with the City's Risk Management Official was required (Source Water Protection), proof of consultation is attached

  ☐ Yes, attached ☐ No, not applicable
- ☐ The Stormwater Management Design Brief is attached
- ☐ The Stormwater Design Sheets are attached
- ☐ The Sanitary Design Sheets are attached
- ☐ Additional documentation has been completed

  Form SW1 (Storm Sewers, Ditches, Culverts) is attached

  ☐ Yes, attached ☐ No, not applicable

  Form SW2 (Stormwater Management Facilities) is attached

  ☐ Yes, attached ☐ No, not applicable

  Form SW3 (Third Pipe Collection Systems) is attached

  ☐ Yes, attached ☐ No, not applicable

  Form SS1 (Separate Sewers, Nominally Separate Sewers, Forcemains) is attached

  ☐ Yes, attached ☐ No, not applicable
- ☐ The Design Engineer has confirms that all Design Criteria has been met

  ☐ The Design Engineer confirms that the versions of the Design Criteria and City of Kawartha Lakes Guidelines used in this project are up to date

2. Applicant Information

2.1 Applicant Information

Applicant Type

- ☐ Corporation
- ☐ Individual
- ☐ Sole Proprietor
- ☐ Partnership
- ☐ Municipal Government
- ☐ Other (specify) _____

Applicant Name

_____

Business Name

_____

Business Number

_____

Address

_____

Telephone Number | Email Address

_____

2.2 Project Information

Project Name

_____

Project Description Executive Summary

_____

2.3 Technical Contact

Name | Company

_____

Address

_____

Telephone Number | Email Address

_____

3. Regulatory Requirements

3.1 Regulatory Requirements

Which of the following Regulatory Requirements was carried out?

☐ Planning Act

☐ Environmental Assessment Act

3.2 Consultation/Notification

Please list all consultations that occurred (ie. First Nation, Metis, Public, etc.)

☐ Proof of consultation is attached

4. Site Information

4.1 Site Address

4.2 Location Information

Site Name

Is the site (property) that is the subject of this application owned by the applicant?

☐ Yes ☐ No

Does the current zoning allow for the proposed activity on the property?

☐ Yes ☐ No

4.3 Source Protection

Is the project located within a sourcewater protection zone?

☐ Yes ☐ No

If 'Yes', please identify the Wellhead Protection Area or Intake Protection Zone, and attach confirmation of consultation with the City's Risk Management Official.

5. Sewage Works

5.1 Stormwater Management Facility

Location			
Watershed/Subwatershed			
Receiver of discharge			
Type of receiver		Policy 2 receiver?	☐ Yes ☐ No

Outlet location	
Catchment area (Ha)	
Level of Treatment for suspended solids	
Treatment for other contaminants, as required	
Level of Volume Control	
Design Storm	Quantity: Quality:
Pond Capacity	
Pond Type	
Reference Works as part of the treatment train	Type / Contributing Drainage Area ☐ Enhanced Grass Swales _____ (Ha) ☐ Bioretention/Rain Garden Swales _____ (Ha) ☐ Permeable Pavers _____ (Ha) ☐ Soakaways, Infiltration Trenches _____ (Ha) ☐ Perforated Pipe System _____ (Ha) ☐ Other (specify) _____ _____ (Ha)
Brief Description	

5.2 Oil and Grit Separator (OGS)

Location (Longitude/Latitude)	
OGS Model	
Contributing Drainage Area (Ha)	
Level of Quality Protection	
Discharge Location	
Sediment Storage Capacity (L):	Total Storage Volume (L):
Oil Storage Capacity (L):	Maximum Treatment Flow (L/s):

5.3 Pipe Data

Type of Work Proposed

☐ Storm Sewers ☐ Ditches ☐ Force Mains

☐ Sanitary Sewers ☐ Other (specify) _____

5.3.1 Drawings

Confirm the following details have been included with this submission:

☐ Plan and Profile of all Pipes

- ☐ Horizontal distance between watermains and sewers
- ☐ Vertical distance between watermains and sewers
- ☐ Length, diameter, and slope of each pipe segment
- ☐ Crossing data for all Sewer/Watermains (conforms to MECP F-6-1 Requirements)
- ☐ Locations, invert elevations, rim elevations of manholes (and their respective IDs)

☐ Storm Drainage Area

- ☐ Identify all areas (external included) which drain into the proposed works
- ☐ Total Drainage area in hectares
- ☐ Runoff Coefficient for each drainage area
- ☐ Storm Sewer Design Sheets

☐ Sanitary Drainage Area

- ☐ Identify all areas which drain into the proposed works
- ☐ Physical area in hectares
- ☐ Population for each drainage area
- ☐ Sanitary Sewer Design Sheets

☐ Other Details

- ☐ Typical separations, where not easily measured from pipe drawings
- ☐ Appurtenances
- ☐ Municipal Drains

Additional Information

Are the proposed works laid below the frost penetration depth for the area at all locations?

☐ Yes ☐ No

Are all existing and proposed watermains separated by at least 2.5 m of clear horizontal distance From all existing and proposed sewers and storm water conveyance systems (ie. ditches)?

☐ Yes ☐ No

Are all existing and proposed watermains separated by at least 0.5 m of clear vertical distance above all existing and proposed sewers and storm water conveyance systems (ie. ditches)?

☐ Yes ☐ No

Are all existing and proposed sewers, including all drains and similar sources of contamination, separated by at least 15 m from potable water resevoirs below normal ground surface and well supplies?

☐ Yes ☐ No

If 'No' to any part of the "Additional Information" questions, please refer to Procedure F-6-1 for solutions to prevent contamination when separation distances cannot be met.
Provide rational below for the solutions chosen to accommodate frost penetration depth/contamination separation distances.

5.3.2 Storm Sewers

For each storm sewer, please provide the following details:

Street	Diameter (mm)	Length (m)

The Storm Sewer Hydraulic Design Sheet must be attached with this submission.

Are the full flow velocities for all storm sewers within the range of 0.8m/s to 6.0m/s?

☐ Yes ☐ No

5.3.3 Sanitary Sewers

For each sanitary sewer, please provide the following details:

Street	Diameter (mm)	Length (m)

The Sanitary Sewer Design Sheet must be attached with this submission.

Are the full flow velocities for all sanitary sewers within the range of 0.6m/s to 3.0m/s?

☐ Yes ☐ No

All sanitary sewer laterals will flow by gravity to the sanitary sewer

☐ Yes ☐ No

5.3.4 Forcemains

☐ Not Applicable

Please provide all Pump Station Design Elements in report.

If this system is not a grinder pump system, is the minimum pipe size at least 100 mm to allow for the passage of small solids?

☐ Yes ☐ No

If 'No', please indicate below which methods will be employed to prevent blockage in the pipe

Are the full flow velocities for all forcemains within the range of 0.8m/s to 2.5m/s?

☐ Yes ☐ No

Have the effects of the hydraulic transient been considered?

☐ Yes ☐ No

If 'Yes', please indicate the results below

6. Acknowledgement

6.1 Design Engineer

The Design Engineer has reviewed the latest revision of the MECP Design Criteria for Sanitary Sewers, Storm Sewers, and Forcemains, and confirms that the Guidelines have been met.
The Design Criteria can be found at the following link: Design Criteria

☐ Yes ☐ No

If 'No', provide rational for why the criteria has not been met.

The Design Engineer has reviewed the latest revision of Appendix 'A' of the Stormwater Management CLI ECA Document and confirms that the Guidelines have been met.

☐ Yes ☐ No

If 'No', provide rational for why the criteria has not been met.