

Instructions: **All applicants must complete items 1-9. Complete sections 10, 11, 12, 13, 14, 15 and 16 as applicable. This form along with the attached Fee Schedule and drawings must be sent to the appropriate regional office with an additional copy sent to the headquarters office, Attention Mr. Robert Picco, P. Eng. Note: For submissions to the eastern regional office, a headquarters copy is not required.**

A. General

As required under Sections 36, 37 and/or 48 of the *Water Resources Act*, SNL 2002, cW-4.01, the undersigned as owner or agent do hereby apply for your permission for the construction and installation of:

1. _____

2. Name & address of proponent (**owner**) including contact person: _____

3. Location of project: _____

4. Project description: _____

5. Predesign report: Year: _____ Author: _____

6. Total service population: To date: _____ This project: _____ Future: _____

7. Status of units for servicing:	Type	No. to date	This project	Future
	House	_____	_____	_____
	School	_____	_____	_____
	Medical Institution	_____	_____	_____
	Industrial	_____	_____	_____
	Other (specify)	_____	_____	_____

Number of units for water service only: _____ Sanitary survey conducted: _____

8. Permit Fee Submitted: \$ _____ Cheque #: _____

9. Date: _____ Signature: _____
(If signed by an agent, attach written authorization duly executed by owner)

B. Water System

10. Details of Water Source and Distribution System

Source: _____

Available yield: _____ (m³/day) Storage: _____ (m³) Present demand: _____ (m³/day)

Type (gravity or pumped): _____

Bacteriological condition of source: _____ Testing results submitted: _____

Chemical/physical water quality of source: _____ Testing results submitted: _____

Treatment proposed : _____ (Complete Section 11)

Type of disinfection proposed: _____ Contact time provided: _____ (min.)

Future flows: estimated _____ (m³/day) Present flows: estimated _____ (m³/day) Metered flows: _____ (m³/day)

Estimated line pressure: _____ (kPa)

Distribution system storage proposed (type): _____ Volume: _____ (m³)

Expected residence time: _____ Residual chlorination provision: _____

Fire flows proposed: _____ Hydrants for this project: _____

Noted problems: _____

11. Water Treatment Plants:

Treatment Objective: _____

Treatment process proposed (e.g. conventional, membrane, etc.): _____

Plant capacity: _____ (m³/day) Maximum daily demand: _____ (m³) Design period: _____ (yrs) Storage: _____ (m³)

Pretreatment: _____

Process description: _____

Disinfection: Chlorination UV Other _____

Corrosion control proposed: Soda ash Lime Soda ash/lime combination Other: _____

Estimated sludge production: _____ (m³/year) Sludge disposal: _____

Testing facilities at plant: _____ Sanitary facilities: _____

Backflow prevention device(s) proposed: _____

Comments/other details: _____

C. Wastewater System

12. Sanitary Sewers:

Sewage characteristics:	Domestic	Schools	Institutional	Industrial	Other _____
% of total	_____	_____	_____	_____	_____
BOD ₅ (mg/l)	_____	_____	_____	_____	_____
TSS (mg/l)	_____	_____	_____	_____	_____

Technical study completed (if yes, study name and date): _____

Proposed sewer flows: _____ (l/s) Capacity of receiving sewer _____ (l/s) Condition of receiving sewer: _____

Storm water problems: _____

Location of outfall (UTM coordinates and NAD) _____

Length of outfall from last manhole: _____ (m) Depth of water over outfall pipe: _____ (m)

Serviced area: _____ (Ha) Total flow: _____ (m³/day)

Outfall area description: (pond/river/harbour/ocean, dispersion, dilution, tidal action, prevailing winds, etc.)

Existing or potential problems (shoreline impacts, fisheries impacts, damaged outfall, etc.)

13. Sewage Lift Stations Number: _____ Type (wet/dry) _____

Capacity of each (l/s) _____ Estimated load on each (l/s) _____

Provisions for electrical/mechanical failure _____

14. **Wastewater Treatment Plants:**

Treatment process proposed (e.g. activated sludge, fixed film, etc.): _____

Plant capacity: Hydraulic _____ (m³/day) Organic BOD₅ _____ (kg/day) TSS _____ (kg/day)

Plant loading: Hydraulic: Average _____ (m³/day) Peak: _____ (m³/day)

Organic: _____ (kg/day BOD₅) Industrial loading: _____ (kg/day BOD₅) TSS _____ (kg/day)

Included components (check):

Pre/Primary: Bar screen Grit chamber Comminutor Microscreening Primary clarifier

Secondary: Extended aeration Contact stabilization Sequencing batch reactor Aerated lagoon

Wetland Rotating biological contactor Other _____

Disinfection: Chlorination/dechlorination UV Other _____

Estimated sludge production _____ (m³/year) Sludge digestion: Aerobic Anaerobic None

Sludge disposal _____

Provision for winter operation (enclosure, etc.) _____

Testing facilities at plant _____ Sanitary facilities _____

Potable water provided: Yes No If yes, backflow prevention device(s) proposed: _____

Proximity to residential/recreational areas: _____

Discharge location & area description: (pond/river/harbour/ocean, dispersion, dilution, tidal action, prevailing winds, etc.)

Existing and potential problems (shoreline impacts, fisheries impacts, damaged outfall, etc.)

D. Alterations to a Water Body

15. Pipelines Crossing Streams

Included on drawings (check) General site plan Cross-sectional plan Profile

Location: (UTM coordinates and NAD) _____

Channel slope _____ Depth below stream bed _____ (m)

Physical description of stream bottom:

Material type: Clay Sand Gravel Cobble Boulder

Presence of vegetation: None Sparse Moderate Heavy

Particle size: _____ (mm) Depth to bedrock: _____ (m) Manning's n: _____

Hydraulic description:

Minimum flow: _____ (m³/s) Minimum velocity: _____ (m/s)

Maximum flow: _____ (m³/s) Maximum velocity: _____ (m/s)

Construction Details (include method of dewatering, diversion, etc.)

16. Storm Sewer Discharge

Included on drawings (check) Headwall details Location plan General site plan Drainage area

Setback from river, stream, pond or lake _____ (m)

Hydraulic description:

Maximum flow _____ (m³/s) Maximum velocity _____ (m/s)

Construction Details (include method of dewatering, diversion, etc.)

**If additional details are needed on the required information, please contact
Robert Picco, P. Eng. at (709) 729-4290**