

WATER AND WASTEWATER FACILITY CLASSIFICATION APPLICATION FORM

APPLICATION INSTRUCTIONS

- Please print or type.
- Include the classification application fee.
- Cheques may be made payable to the Nova Scotia Minister of Finance.
- Completed applications should be returned to your local district office of the Department of Environment and Labour.
- Only complete sections applicable to your facility.

OFFICE USE ONLY

Date Received

Classification

Certificate #

Certificate Date

FACILITY CONTACT INFORMATION

FACILITY OWNER

PRIMARY CONTACT

POSITION

ADDRESS

CITY

PROVINCE

POSTAL CODE

PHONE NUMBER

FAX NUMBER

CLASSIFICATION APPLIED FOR

Water Treatment

FACILITY NAME

Water Distribution

FACILITY NAME

Wastewater Treatment

FACILITY NAME

Wastewater Collection

FACILITY NAME

OFFICIAL VERIFICATION

I hereby certify with my signature that the information contained in this application was completed to the best of my knowledge.

PRINT NAME

POSITION

SIGNATURE

DATE

WATER DISTRIBUTION FACILITY CLASSIFICATION

Only complete this section if you requested a **water distribution facility** to be classified.

POPULATION SERVED

WASTEWATER COLLECTION FACILITY CLASSIFICATION

Only complete this section if you requested a **wastewater collection facility** to be classified.

POPULATION SERVED

WATER TREATMENT FACILITY CLASSIFICATION

Only complete this section if you requested a **water treatment facility** to be classified.

MAXIMUM POPULATION SERVED

DESIGN FLOW (AVERAGE DAY)

PEAK MONTH'S (AVERAGE DAY)

| |
|---|
| Water Supply Source |
| <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Surface Water/GUDI |
| Average Raw Water Quality |
| <input type="checkbox"/> Little or no variation |
| <input type="checkbox"/> Raw water quality (excluding turbidity) varies enough to require treatment changes approximately 10% of the time |
| <input type="checkbox"/> Raw water quality varies severely enough to require pronounced and/or very frequent treatment changes |
| <input type="checkbox"/> Raw water quality subject to periodic serious industrial waste pollution |
| Chemical Treatment/Addition Process |
| <input type="checkbox"/> pH adjustment for process control |
| <input type="checkbox"/> Stability or Corrosion Control |
| <input type="checkbox"/> Taste and Odour Control |
| <input type="checkbox"/> Colour Control |
| <input type="checkbox"/> Fluoridation |
| Coagulation/Flocculation |
| <input type="checkbox"/> Coagulation |
| <input type="checkbox"/> Flocculation |
| Clarification |
| <input type="checkbox"/> Sedimentation |
| <input type="checkbox"/> Dissolved Air Flotation |
| <input type="checkbox"/> Upflow Clarification |
| Filtration |
| <input type="checkbox"/> Rapid Rate |
| <input type="checkbox"/> Iron or manganese removal |

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| Disinfection |
| <input type="checkbox"/> Chlorination, Ultraviolet, or comparable |
| <input type="checkbox"/> On-site generation of disinfectant |
| Other Treatment Processes |
| <input type="checkbox"/> Aeration |
| <input type="checkbox"/> Packed Tower Aeration |
| <input type="checkbox"/> Ion exchange softening |
| <input type="checkbox"/> Chemical Precipitation Softening |
| Special Processes |
| <input type="checkbox"/> Reverse Osmosis |
| <input type="checkbox"/> Electrodialysis |
| <input type="checkbox"/> Other Specify: |
| Sludge Handling |
| <input type="checkbox"/> In-plant treatment of sludge |
| Laboratory Control – Bacteriological/Biological |
| <input type="checkbox"/> Lab work done outside the plant |
| <input type="checkbox"/> Membrane filter procedures |
| <input type="checkbox"/> Use of fermentation tubes or any dilution method; fecal coliform determination |
| <input type="checkbox"/> Biological identification |
| Laboratory Control - Chemical/Physical |
| <input type="checkbox"/> Lab work done outside the plant |
| <input type="checkbox"/> Push button or colorimetric methods for simple tests such as chlorine residual or pH. |
| <input type="checkbox"/> Additional procedures such as titration, jar tests, alkalinity, and hardness. |
| <input type="checkbox"/> Highly sophisticated instrumentation such as atomic absorption and gas chromatography |

WASTEWATER TREATMENT FACILITY CLASSIFICATION

Only complete this section if you requested a **wastewater treatment facility** to be classified

| | | |
|---------------------------|---------------------------|----------------------------|
| MAXIMUM POPULATION SERVED | DESIGN FLOW (AVERAGE DAY) | PEAK MONTH'S (AVERAGE DAY) |
|---------------------------|---------------------------|----------------------------|

| | |
|-------------------------------|---|
| Variation in Raw Waste | |
| <input type="checkbox"/> | Variations do not exceed those normally or typically expected |
| <input type="checkbox"/> | Recurring deviations or excessive variation of 100 to 200% in strength and/or flow |
| <input type="checkbox"/> | Recurring deviations or excessive variation of more than 200% in strength and/or flow |
| <input type="checkbox"/> | Raw wastes subject to toxic waste discharges |
| 0 1 2 3 4 | Impact of septage or truck-hauled waste, zero is low (circle one) |
| Preliminary Treatment | |
| <input type="checkbox"/> | Plant pumping of main flow |
| <input type="checkbox"/> | Screening or Comminution |
| <input type="checkbox"/> | Grit Removal |
| <input type="checkbox"/> | Equalization |
| Primary Treatment | |
| <input type="checkbox"/> | Clarifiers |
| <input type="checkbox"/> | Imhoff Tanks or similar |
| Secondary Treatment | |
| <input type="checkbox"/> | Fixed Film Reactor |
| <input type="checkbox"/> | Activated Sludge |
| <input type="checkbox"/> | Stabilization ponds without aeration |
| <input type="checkbox"/> | Stabilization Ponds with aeration |
| Tertiary Treatment | |
| <input type="checkbox"/> | Polishing ponds for advanced waste treatment |
| <input type="checkbox"/> | Chemical/physical advanced waste treatment w/o secondary |
| <input type="checkbox"/> | Chemical/physical advanced waste treatment following secondary |
| <input type="checkbox"/> | Biological or chemical/biological advanced waste treatment |
| <input type="checkbox"/> | Nitrification by designed extended aeration only |
| <input type="checkbox"/> | Ion exchange for advanced waste treatment |
| <input type="checkbox"/> | Reverse osmosis, electrodialysis and other membrane filtration techniques |
| <input type="checkbox"/> | Advanced waste treatment chemical recovery, carbon regeneration |
| <input type="checkbox"/> | Media filtration |

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| Additional Treatment Processes | |
| <input type="checkbox"/> | Chemical Additions |
| <input type="checkbox"/> | Dissolved Air Flotation |
| <input type="checkbox"/> | Intermittent Sand Filter |
| <input type="checkbox"/> | Recirculating Intermittent Sand Filter |
| <input type="checkbox"/> | Microscreens |
| <input type="checkbox"/> | Generation of Oxygen |
| Solids Handling | |
| <input type="checkbox"/> | Solids stabilization |
| <input type="checkbox"/> | Gravity thickening |
| <input type="checkbox"/> | Mechanical dewatering |
| <input type="checkbox"/> | Anaerobic digestion of solids |
| <input type="checkbox"/> | Utilization of digester gas for heating or cogeneration |
| <input type="checkbox"/> | Aerobic digestion of solids |
| <input type="checkbox"/> | Evaporative sludge drying |
| <input type="checkbox"/> | Solids reduction (including incineration, wet oxidation) |
| <input type="checkbox"/> | On-site landfill for solids |
| <input type="checkbox"/> | Solids composting |
| <input type="checkbox"/> | Land application of biosolids by contractor |
| <input type="checkbox"/> | Land application of biosolids under direction of facility operator in direct responsible charge |
| Disinfection | |
| <input type="checkbox"/> | Chlorination or Ultraviolet irradiation |
| <input type="checkbox"/> | Ozonation |
| Effluent Discharge | |
| <input type="checkbox"/> | Mechanical post aeration |
| <input type="checkbox"/> | Direct recycle and reuse |
| <input type="checkbox"/> | Land treatment and disposal (surface or subsurface) |

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| Instrumentation | |
|--|---|
| <input type="checkbox"/> | The use of SCADA or similar instrumentation systems to provide data with no process operation |
| <input type="checkbox"/> | The use of SCADA or similar instrumentation systems to provide data with limited process operation |
| <input type="checkbox"/> | The use of SCADA or similar instrumentation systems to provide data with moderate process operation |
| <input type="checkbox"/> | The use of SCADA or similar instrumentation systems to provide data with extensive or total process operation |
| Laboratory Control – Bacteriological/Biological | |
| <input type="checkbox"/> | Lab work done outside the plant |
| <input type="checkbox"/> | Membrane filter procedures |
| <input type="checkbox"/> | Use of fermentation tubes or any dilution method; fecal coliform determination |
| Laboratory Control - Chemical/Physical | |
| <input type="checkbox"/> | Lab work done outside the plant |
| <input type="checkbox"/> | Push button or visual methods for simple tests such as pH or settleable solids |
| <input type="checkbox"/> | Additional procedures such as Dissolved Oxygen (DO), Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), gas analysis, titrations, solids, volatile content |
| <input type="checkbox"/> | More advanced determinations such as specific constituents; nutrients; total oils, phenols |
| <input type="checkbox"/> | Highly sophisticated instrumentation such as atomic absorption, gas chromatography |