

Newfoundland and Labrador Drinking Water Treatment Plants - November 2023

Town	Water Supply	Serviced Area(s)	Population Serviced	Region	Commission Date	Water Treatment Type	Water Treatment Class	Water Treatment Process	Rated Capacity (m3/day)
Burgeo	Long Pond	Burgeo	1,464	W	March 2013	Ozone-Direct Filtration	3	Sand filtration; ozone; multi-media filtration; activated carbon filtration; gas chlorination; and caustic soda for pH adjustment.	2,712
Channel-Port aux Basques	Gull Pond & Wilcox Pond	Channel-Port aux Basques	4,170	W	1988	Conventional water treatment	3	Lime, alum and polymer addition; coagulation/flocculation; multi-media filters (anthracite and sand); gas chlorination; lime addition for pH adjustment; carbonation basin.	10,000
Clarenville	Shoal Harbour River	Clarenville, Shoal Harbour	6,000	E	November 15, 2007	Conventional water treatment	3	Lime and alum addition; coagulation/flocculation; sedimentation using two plate settling tanks; three multi-media filters (anthracite and sand); gas chlorination; and pH adjustment using soda ash.	8,500
Come by Chance	Butchers Brook	Come by Chance	246	E	October 28, 2012	Membrane water treatment	2	100 micron strainers; tubular nanofiltration membrane units; UV disinfection system; mixed oxidant secondary disinfection system; and limestone contactor for pH adjustment.	300
Conne River	Southwest Brook	Conne River	920	C	2006	Membrane water treatment	-	Sand filtration; nano-filtration; soda ash addition for pH adjustment; and hypochlorination using sodium hypochlorite.	-
Corner Brook	Trout Pond	Corner Brook (+Massey Drive, +Mount Moriah)	21,618	W	February 12, 2015	Conventional water treatment (dissolved air floatation)	4	Coagulation/flocculation; clarification using dissolved air floatation; multi-media filters (anthracite and sand); UV disinfection; soda ash addition for pH and alkalinity adjustment; gas chlorination; and polyphosphate addition as a corrosion inhibitor.	36,000
Exploits Regional Water Supply Committee	Northern Arm Lake	Windsor (+Bishop's Falls, +Wooddale, +Botwood,	21,256	C	January 1996	Conventional water treatment	4	Pre-treatment with hydrated lime; alum addition; coagulation/flocculation; sedimentation using plate settlers; multi-media filters (anthracite and sand); gas chlorination; and hydrated lime addition for pH adjustment.	27,000
Ferryland	Deep Cove Pond	Ferryland	292	E	February 2022	Direct Filtration	2	Pre-treatment pH adjustment with soda ash; coagulation with polyaluminum chloride; in-line static mixer; two 630L flocculation pressure tanks in series; six multi-media filters (sand and anthracite) in parallel; four GAC filter tanks in parallel; post pH adjustment using soda ash, disinfection using	1,194
Gander	Gander Lake	Gander	11,054	C	2006	Ozone-Direct Filtration	3	Sand filtration; ozonation; multi-media filter (anthracite and sand); activated carbon filter; chloramination; and soda ash addition.	8,000
Happy Valley-Goose Bay	Well Field	Happy Valley-Goose Bay	7,552 (including Spring Gulch)	L	November 2002	Semi-conventional water treatment	3	Pre-screening; Alum and chlorine gas addition; coagulation/flocculation within the reactor tank; potassium permanganate addition; three greensand pressure filters; and pH adjustment with lime.	8,172
Heart's Delight-Islington	Long Pond	Heart's Delight-Islington	700	E	2001	Conventional water treatment	2	Pre-treatment (pH adjustment) using soda ash; coagulation using polyaluminum chloride; polymer addition; flocculation; sedimentation using tube settlers; sodium hypochlorite addition; two multi-media filters (anthracite and sand); disinfection with sodium hypochlorite, and pH adjustment with soda ash.	545
Long Harbour-Mount Arlington Heights	Shingle Pond and/or Trout Pond	Long Harbour - Arlington Heights	250	E	September 2016	Conventional water treatment (DAF)	2	alum addition and coagulation/flocculation; clarification (dissolved air floatation process); multi-media filtration (sand and anthracite); hypo-chlorination using sodium hypochlorite; pH and alkalinity adjustment using soda ash.	572

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Lourdes	Victor's Brook	Lourdes (+West Bay)	532	W	September 2004	Semi-conventional water treatment	2	Pre-filtration using cyclone filters; coagulation using aluminum chloride hydroxide sulphate (Sternpac); multi-media filters; and gas chlorination.	760
Lumsden	Gull Pond	Lumsden	520	C	1972	Conventional water treatment	2	Soda ash, alum and polymer addition; coagulation/flocculation; tube settler sedimentation; multi-media filter (anthracite, sand, and garnet); gas chlorination; and soda ash addition.	1,090
Marystown	Clam Pond (back-up from Fox Hill Reservoir)	Marystown	5436	E	June 2012	Membrane water treatment	2	pH and alkalinity adjustment using soda ash; coagulation/flocculation; microfiltration membrane units (chemical cleaning system using citric acid, sodium hypochlorite, and casutic soda); UV disinfection; secondary disinfection using mixed oxidants; and corrosion inhibitor addition (zinc orthophosphate).	13,608
Musgrave Harbour	Rocky Pond	Musgrave Harbour	1,053	C	1998	Conventional water treatment	3	Pre-treatment using soda ash; alum and polymer addition; coagulation/flocculation; tube settler sedimentation; multi-media filters (athracite and sand); and gas chlorination.	2,180
Natuashish	Sango Brook and Wellfield	Natuashish (Sango Bay)	931	L		Slow sand filtration	1	Slow sand filtration, UV disinfection, sodium hypochlorite chlorination	
Pasadena	Blue Gulch Pond	Pasadena	3,133	W	October 2023	Membrane water treatment	2	Pre-filtration using (4) 80-micron filters; (3) 3-micron thread filters; nanofiltration membrane system, clean-in-place system, UV disinfection; gas chlorination.	4,200
Pouch Cove	North Three Island Pond	Pouch Cove	1,866	E	April 2019	Membrane water treatment	2	Multimedia filtration (anthracite and sand), 5 micron cartridge filter, nano filtration, UV disinfection, Cl2 gas disinfection and soda ash pH adjustment	1,880
Ramea	Northwest Pond	Ramea	526	W	February 2002	Conventional water treatment	3	Pre-screening, Lime addition; alum and polymer addition; coagulation/flocculation; sedimentation using tube filters; multi-media filters; gas chlorination; pH adjustment with caustic soda.	1,080
St. John's	Bay Bulls Big Pond	St. John's (+Mount Pearl, +Paradise, +Portugal Cove-St. Phillips, +Conception Bay South)	77,232	E	1978 (original WTP) Jan 2014 (DAF)	Conventional water treatment (DAF)	4	Travelling screens; pre-treatment using carbon dioxide, ACH and lime addition; coagulation/flocculation; clarification using dissolved air floatation; ozonation; dual-media filters (anthracite and sand); chloramination; UV disinfection, and lime addition.	110,000
St. John's	Petty Harbour-Long Pond	St. John's	14,758	E	2015	Conventional water treatment (DAF)	4	Pre and post treatment for pH and alkalinity adjustment (carbon dioxide and lime); coagulation using ACH; flocculation; dissolved air flotation; dual media filtration (anthracite and sand); UV disinfection; and a gas chlorination secondary disinfection system.	26,000
St. John's	Windsor Lake	St. John's	60,518	E	2007	Membrane water treatment	4	Travelling screens; pre-treatment using carbon dioxide and lime; microfiltration membrane system (5 primary filters and 3 secondary filters); membrane chemical cleaning system using citric acid, sodium hydroxide and sodium bisulphate; UV disinfection; and gas chlorination.	70,000