



Regional District of Nanaimo - Water Services Department

River's Edge Water Analysis - 2024 Monthly Report

| Date | Sample Location (Address) | BC Centre for Disease Control | | RDN In-House Laboratory & Spectrophotometer | | | | | | | | |
|-------------------------------|---------------------------|-------------------------------|------------------|---|------------------|------------|----------|-------------------------------|-------------------------------|--------------|----------------------|-----------------|
| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 10-Jan-24 | 2235 Rascal | 0 | 0 | 0 | 0 | 10 | 7.48 | 0.70 | 279.0 | 0.28 | 574.0 | 0.25 |
| 24-Jan-24 | 1969 Kaye | 0 | 0 | 0 | 0 | 9 | 7.50 | 0.49 | 276.0 | 0.28 | 569.0 | 0.29 |
| 31-Jan-24 | 1969 Kaye | | | 0 | 0 | n/a | 8.12 | 0.58 | 281.0 | 0.28 | 579.0 | 0.49 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

Legend:

* Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Green font indicates a value flagged for operational consideration

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

Comments:

Notes below about pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

| Type | Parameter (published, reaffirmed) | MAC (mg/L) | Other value (mg/L) | Common sources of parameter in water | Health considerations | Comments |
|-------------------|-----------------------------------|------------|--------------------|--------------------------------------|-----------------------|---|
| Treatment-related | pH (2015) | None | 7.0-10.5 | Not applicable | Not applicable | The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components. |



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| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 07-Feb-24 | 2235 Rascal | 0 | 0 | 0 | 0 | 9 | 7.79 | 0.55 | 278 | 0.28 | 572 | 0.32 |
| 13-Feb-24 | 1969 Kaye | 0 | 0 | 0 | 0 | 9 | 7.80 | 0.47 | 274.0 | 0.27 | 564.0 | 0.27 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 5-Mar-24 | 2235 Rascal | 0 | 0 | 0 | 0 | 8 | 7.79 | 0.47 | 276.0 | 0.28 | 567.0 | 0.32 |
| 12-Mar-24 | 1969 Kaye | 0 | 0 | 0 | 0 | 7 | 7.88 | 0.47 | 290.0 | 0.29 | 598.0 | 0.23 |
| 26-Mar-24 | 1969 Kaye | 0 | 0 | 0 | 0 | 8 | 7.55 | 0.41 | 275.0 | 0.27 | 566.0 | 0.28 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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| 10-Apr-24 | 2235 Rascal | | | 0 | 0 | 10 | 7.38 | 0.52 | 275.0 | 0.28 | 568.0 | 0.33 |
| 17-Apr-24 | 1969 Kaye | 0 | 0 | 0 | 0 | 11 | 7.70 | 0.54 | 277.0 | 0.28 | 570.0 | 0.34 |
| 23-Apr-24 | 2235 Rascal | | | 0 | 0 | 11 | 7.21 | 0.63 | 275.0 | 0.27 | 566.0 | 0.29 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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