



Regional District of Nanaimo - Water Services Department

Melrose Terrace Water Analysis - 2011 Monthly Report



| Date | Sample Location (Address) | Health Department | | In-House | | | | | | | | | |
|-----------|---------------------------|-------------------|------------------|----------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
| | | 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) | Total Iron (mg/L) | Manganese (mg/L) |
| 06-Jan-11 | 3927 Melrose | | | 0 | 0 | | 7.1 | 0.00 | 202 | 0.2 | 430 | 0.82 | 0.063 |
| 10-Jan-11 | Pumphouse | | | 0 | 0 | | 7.0 | 0.00 | 184 | 0.2 | 387 | | |
| 17-Jan-11 | 3927 Melrose | | | 0 | 0 | | 6.8 | 0.07 | 189 | 0.2 | 403 | | |
| 26-Jan-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 7 | 6.6 | 0.08 | 201 | 0.2 | 422 | | |
| | Average | 0 | 0 | 0 | 0 | 7.0 | 6.9 | 0.04 | 194.0 | 0.2 | 410.5 | 0.82 | 0.063 |
| | Maximum | 0 | 0 | 0 | 0 | 7 | 7.1 | 0.08 | 202 | 0.2 | 430 | 0.82 | 0.063 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 6.6 | 0 | 184 | 0.2 | 387 | 0.82 | 0.063 |

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

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

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.



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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 01-Feb-11 | Pumphouse | | | 0 | 0 | 8 | 7.0 | 0.03 | 200 | 0.2 | 419 | 0.24 | 0.021 |
| 09-Feb-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 8 | 6.6 | 0.06 | 203 | 0.2 | 430 | | |
| 15-Feb-11 | Pumphouse | | | 0 | 0 | 10 | 6.5 | 0.00 | 203 | 0.2 | 426 | | |
| 22-Feb-11 | Pumphouse | | | 0 | 0 | 8 | 6.7 | 0.04 | 201 | 0.2 | 424 | | |
| | Average | 0 | 0 | 0 | 0 | 8.5 | 6.7 | 0.03 | 201.8 | 0.2 | 424.8 | 0.24 | 0.021 |
| | Maximum | 0 | 0 | 0 | 0 | 10 | 7 | 0.06 | 203 | 0.2 | 430 | 0.24 | 0.021 |
| | Minimum | 0 | 0 | 0 | 0 | 8 | 6.5 | 0.00 | 200 | 0.2 | 419 | 0.24 | 0.021 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 01-Mar-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 6 | 6.3 | 0.03 | 203 | 0.2 | 425 | 0.44 | 0.032 |
| 07-Mar-11 | Pump house | | | 0 | 0 | 12 | 6.9 | 0.02 | 196 | 0.2 | 412 | | |
| 16-Mar-11 | 3927 Melrose | | | 0 | 0 | 6 | 6.7 | 0.01 | 198 | 0.2 | 416 | | |
| 23-Mar-11 | Pump house | | | 0 | 0 | 10 | 6.8 | 0.02 | 197 | 0.2 | 412 | | |
| 28-Mar-11 | 3927 Melrose | | | 0 | 0 | 8 | 6.7 | 0.16 | 197 | 0.2 | 418 | | |
| | Average | 0 | 0 | 0 | 0 | 8.4 | 6.7 | 0.05 | 198.2 | 0.2 | 416.6 | 0.44 | 0.032 |
| | Maximum | 0 | 0 | 0 | 0 | 12 | 6.9 | 0.16 | 203 | 0.2 | 425 | 0.44 | 0.032 |
| | Minimum | 0 | 0 | 0 | 0 | 6 | 6.3 | 0.01 | 196 | 0.2 | 412 | 0.44 | 0.032 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 05-Apr-11 | 3927 Melrose | | | 0 | 0 | 8 | 6.93 | 0.08 | 190.8 | 0.19 | 396 | | |
| 11-Apr-11 | Pump house | | | 0 | 0 | 11 | 7.06 | 0.02 | 190.2 | 0.19 | 395 | | |
| 19-Apr-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 9 | 6.78 | 0.02 | 192.9 | 0.19 | 400 | 0.14 | 0.017 |
| 27-Apr-11 | Pump house | | | 0 | 0 | 11 | 7.10 | 0.03 | 198.0 | 0.20 | 398 | | |
| | Average | 0 | 0 | 0 | 0 | 9.8 | 6.97 | 0.04 | 193.0 | 0.19 | 397.3 | 0.14 | 0.017 |
| | Maximum | 0 | 0 | 0 | 0 | 11 | 7.10 | 0.08 | 198.0 | 0.20 | 400 | 0.14 | 0.017 |
| | Minimum | 0 | 0 | 0 | 0 | 8 | 6.78 | 0.02 | 190.2 | 0.19 | 395 | 0.14 | 0.017 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 03-May-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 10 | 6.98 | 0.02 | 189.1 | 0.19 | 393 | 0.14 | 0.021 |
| 11-May-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 11 | 7.00 | 0.01 | 191.0 | 0.20 | 321 | | |
| 17-May-11 | Pumphouse | | | 0 | 0 | 12 | 7.20 | 0.05 | 193.0 | 0.20 | 336 | | |
| 24-May-11 | 3927 Melrose | | | 0 | 0 | 12 | 7.10 | 0.03 | 193.0 | 0.20 | 341 | | |
| 31-May-11 | Pumphouse | | | 0 | 0 | 15 | 7.39 | 0.09 | 193.0 | 0.19 | 401 | | |
| | Average | 0 | 0 | 0 | 0 | 12.0 | 7.13 | 0.04 | 191.8 | 0.20 | 358.4 | 0.14 | 0.021 |
| | Maximum | 0 | 0 | 0 | 0 | 15 | 7.39 | 0.09 | 193.0 | 0.20 | 401 | 0.14 | 0.021 |
| | Minimum | 0 | 0 | 0 | 0 | 10 | 6.98 | 0.01 | 189.1 | 0.19 | 321 | 0.14 | 0.021 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 06-Jun-11 | 3927 Melrose Rd | 0 | 0 | 0 | 0 | 14 | 7.10 | 0.04 | 206.0 | 0.2 | 384 | 0.13 | 0.029 |
| 15-Jun-11 | Pump house | | | 0 | 0 | 16 | 7.20 | 0.07 | 287.0 | 0.2 | 429 | | |
| 22-Jun-11 | 3927 Melrose Rd | | | 0 | 0 | 15 | 7.42 | 0.03 | 199.6 | 0.2 | 414 | | |
| 27-Jun-11 | Pump house | | | 0 | 0 | 16 | 7.30 | 0.04 | 198.0 | 0.2 | 380 | | |
| | Average | 0 | 0 | 0 | 0 | 15.3 | 7.26 | 0.05 | 222.7 | 0.2 | 401.8 | 0.13 | 0.029 |
| | Maximum | 0 | 0 | 0 | 0 | 16 | 7.42 | 0.07 | 287.0 | 0.2 | 429 | 0.13 | 0.029 |
| | Minimum | 0 | 0 | 0 | 0 | 14 | 7.10 | 0.03 | 198.0 | 0.2 | 380 | 0.13 | 0.029 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 04-Jul-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 17 | 7.40 | 0.03 | 198.7 | 0.20 | 414 | | |
| 12-Jul-11 | Pump House | | | 0 | 0 | 16 | 7.11 | 0.01 | 194.8 | 0.19 | 405 | 0.4 | 0.021 |
| 19-Jul-11 | 3927 Melrose | | | 0 | 0 | 16 | 6.99 | 0.02 | 192.6 | 0.19 | 400 | | |
| 26-Jul-11 | Pump House | | | 0 | 0 | 15 | 7.10 | 0.04 | 192.0 | 0.20 | 397 | | |
| | Average | 0 | 0 | 0 | 0 | 16.0 | 7.2 | 0.03 | 194.5 | 0.2 | 404.0 | 0.40 | 0.021 |
| | Maximum | 0 | 0 | 0 | 0 | 17 | 7.4 | 0.04 | 198.7 | 0.2 | 414 | 0.4 | 0.021 |
| | Minimum | 0 | 0 | 0 | 0 | 15 | 6.99 | 0.01 | 192 | 0.19 | 397 | 0.4 | 0.021 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 03-Aug-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 18 | 7.24 | 0.06 | 192.0 | 0.19 | 375 | 0.14 | 0.010 |
| 08-Aug-11 | 3927 Melrose | | | 0 | 0 | 19 | 7.01 | 0.02 | 196.4 | 0.19 | 408 | | |
| 16-Aug-11 | Pump House | | | 0 | 0 | 17 | 7.29 | 0.85 | 145.3 | 0.14 | 269 | | |
| 23-Aug-11 | 3927 Melrose | | | 0 | 0 | 19 | 6.84 | 0.04 | 195.9 | 0.19 | 372 | | |
| 30-Aug-11 | 3927 Melrose | | | 0 | 0 | 20 | 6.65 | 0.00 | 201.4 | 0.20 | 377 | | |
| | Average | 0 | 0 | 0 | 0 | 18.6 | 7.01 | 0.19 | 186.2 | 0.18 | 360.2 | 0.14 | 0.01 |
| | Maximum | 0 | 0 | 0 | 0 | 20 | 7.29 | 0.85 | 201.4 | 0.20 | 408 | 0.14 | 0.01 |
| | Minimum | 0 | 0 | 0 | 0 | 17 | 6.65 | 0.00 | 145.3 | 0.14 | 269 | 0.14 | 0.01 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 06-Sep-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 19 | 7.04 | 0.01 | 197.3 | 0.20 | 409.0 | 0.11 | 0.016 |
| 13-Sep-11 | Pump house | | | 0 | 0 | | 6.94 | 0.01 | 195.0 | 0.19 | 405.0 | | |
| 19-Sep-11 | 3927 Melrose | | | 0 | 0 | 18 | 6.93 | 0.01 | 201.2 | 0.20 | 328.0 | | |
| 27-Sep-11 | 3927 Melrose | | | 0 | 0 | 17 | 7.18 | 0.00 | 195.1 | 0.19 | 405.0 | | |
| | Average | 0 | 0 | 0 | 0 | 18.0 | 7.0 | 0.01 | 197.2 | 0.20 | 386.8 | 0.11 | 0.016 |
| | Maximum | 0 | 0 | 0 | 0 | 19 | 7.18 | 0.01 | 201.2 | 0.20 | 409 | 0.11 | 0.016 |
| | Minimum | 0 | 0 | 0 | 0 | 17 | 6.93 | 0 | 195 | 0.19 | 328 | 0.11 | 0.016 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 05-Oct-11 | 3927 Melrose Rd | 0 | 0 | 0 | 0 | 15 | 7.01 | 0.00 | 203.0 | 0.20 | 420.0 | 0.10 | 0.017 |
| 11-Oct-11 | 3927 Melrose Rd | | | 0 | 0 | 15 | 7.03 | 0.00 | 215.9 | 0.21 | 448.0 | | |
| 18-Oct-11 | Pump house | | | 0 | 0 | 12 | 7.14 | 0.03 | 217.7 | 0.22 | 451.0 | | |
| 24-Oct-11 | 3927 Melrose Rd | | | 0 | 0 | 14 | 7.10 | 0.01 | 225.0 | 0.22 | 467.0 | | |
| | | | | | | | | | | | | | |
| | Average | 0 | 0 | 0 | 0 | 14.0 | 7.07 | 0.01 | 215.4 | 0.21 | 446.5 | 0.10 | 0.017 |
| | Maximum | 0 | 0 | 0 | 0 | 15 | 7.14 | 0.03 | 225.0 | 0.22 | 467.0 | 0.10 | 0.017 |
| | Minimum | 0 | 0 | 0 | 0 | 12 | 7.01 | 0.00 | 203.0 | 0.20 | 420.0 | 0.10 | 0.017 |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 01-Nov-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 12 | 7.00 | 0.01 | 226.0 | 0.23 | 469.0 | 0.10 | 0.014 |
| 07-Nov-11 | Pump house | | | 0 | 0 | 10 | 6.56 | 0.02 | 217.3 | 0.22 | 450.0 | | |
| 14-Nov-11 | 3927 Melrose | | | 0 | 0 | 10 | 7.07 | 0.00 | 212.3 | 0.21 | 440.0 | | |
| 21-Nov-11 | Pump house | | | 0 | 0 | 8 | | 0.04 | 202.5 | 0.20 | 345.0 | | |
| 28-Nov-11 | 3927 Melrose | | | 0 | 0 | 7 | 7.27 | 0.02 | 196.4 | 0.20 | 406.0 | | |
| | Average | 0 | 0 | 0 | 0 | 9.4 | 7.0 | 0.02 | 210.9 | 0.2 | 422.0 | 0.10 | 0.014 |
| | Maximum | 0 | 0 | 0 | 0 | 12 | 7.27 | 0.04 | 226 | 0.23 | 469 | 0.1 | 0.014 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 6.56 | 0 | 196.4 | 0.2 | 345 | 0.1 | 0.014 |

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| 05-Dec-11 | Pump house | | | 0 | 0 | 8 | 6.89 | 0.02 | 198.3 | 0.20 | 411 | 0.07 | 0.017 |
| 13-Dec-11 | 3927 Melrose | 0 | 0 | 0 | 0 | 6 | 6.94 | 0.03 | 199.9 | 0.20 | 415 | | |
| 19-Dec-11 | Pump house | | | 0 | 0 | 8 | 6.77 | 0.01 | 195.9 | 0.20 | 285 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Average | 0 | 0 | 0 | 0 | 7.3 | 6.9 | 0.02 | 198.0 | 0.2 | 370.3 | 0.07 | 0.017 |
| | Maximum | 0 | 0 | 0 | 0 | 8 | 6.94 | 0.03 | 199.9 | 0.2 | 415 | 0.07 | 0.017 |
| | Minimum | 0 | 0 | 0 | 0 | 6 | 6.77 | 0.01 | 195.9 | 0.2 | 285 | 0.07 | 0.017 |

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