



Regional District of Nanaimo - Water Services Department

Decourcey Water Analysis - 2016 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) |
| 5-Dec-16 | 2458 Pylades | | | 0 | 1 | | 7.57 | 0.07 | 336.0 | 0.34 | 688.0 | 0.02 | 0.000 |
| 12-Dec-16 | 2458 Pylades | 0 | 0 | 0 | 2 | 5 | 7.52 | 0.02 | 336.0 | 0.34 | 689.0 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Average | 0 | 0 | 0 | 1.5 | 5.0 | 7.5 | 0.05 | 336.0 | 0.3 | 688.5 | 0.02 | 0.000 |
| | Maximum | 0 | 0 | 0 | 2 | 5 | 7.57 | 0.07 | 336 | 0.34 | 689 | 0.02 | 0.000 |
| | Minimum | 0 | 0 | 0 | 1 | 5 | 7.52 | 0.02 | 336 | 0.34 | 688 | 0.02 | 0.000 |

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) |
| 7-Nov-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 11 | 7.33 | 0.01 | 342.0 | 0.34 | 702.0 | 0.01 | 0.027 |
| 14-Nov-16 | 2458 Pylades | | | 0 | 1 | 12 | 7.42 | 0.03 | 339.0 | 0.34 | 695.0 | | |
| 21-Nov-16 | 2458 Pylades | | | 0 | 1 | 8 | 7.35 | 0.02 | 339.0 | 0.34 | 695.0 | | |
| 28-Nov-16 | 2458 Pylades | | | 0 | 1 | 7 | 7.23 | 0.01 | 335.0 | 0.34 | 679.0 | | |
| | Average | 0 | 0 | 0 | 0.75 | 9.5 | 7.3 | 0.02 | 338.8 | 0.3 | 692.8 | 0.01 | 0.027 |
| | Maximum | 0 | 0 | 0 | 1 | 12 | 7.42 | 0.03 | 342 | 0.34 | 702 | 0.01 | 0.027 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 7.23 | 0.01 | 335 | 0.34 | 679 | 0.01 | 0.027 |

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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) |
| 3-Oct-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 12 | 7.52 | 0.03 | 348.0 | 0.35 | 712.0 | 0.01 | 0.008 |
| 11-Oct-16 | 2458 Pylades | | | 0 | 0 | 11 | 7.47 | 0.03 | 343.0 | 0.34 | 704.0 | | |
| 17-Oct-16 | 2458 Pylades | | | 0 | 0 | 10 | 7.54 | 0.02 | 351.0 | 0.35 | 720.0 | | |
| 24-Oct-16 | 2458 Pylades | | | 0 | 0 | 10 | 7.48 | 0.00 | 342.0 | 0.34 | 702.0 | | |
| | Average | 0 | 0 | 0 | 0 | 10.8 | 7.5 | 0.02 | 346.0 | 0.3 | 709.5 | 0.01 | 0.008 |
| | Maximum | 0 | 0 | 0 | 0 | 12 | 7.54 | 0.03 | 351 | 0.35 | 720 | 0.01 | 0.008 |
| | Minimum | 0 | 0 | 0 | 0 | 10 | 7.47 | 0 | 342 | 0.34 | 702 | 0.01 | 0.008 |

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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) |
| 6-Sep-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 17 | 7.62 | 0.04 | 354.0 | 0.35 | 725.0 | 0.02 | 0.001 |
| 13-Sep-16 | 2458 Pylades | | | 0 | 8 | 17 | 7.52 | 0.00 | 364.0 | 0.36 | 746.0 | | |
| 19-Sep-16 | 2458 Pylades | | | 0 | 1 | 16 | 7.51 | 0.01 | 349.0 | 0.35 | 714.0 | | |
| 26-Sep-16 | 2458 Pylades | | | 0 | 1 | 13 | 7.56 | 0.02 | 351.0 | 0.35 | 720.0 | | |
| | Average | 0 | 0 | 0 | 2.5 | 15.8 | 7.6 | 0.02 | 354.5 | 0.4 | 726.3 | 0.02 | 0.001 |
| | Maximum | 0 | 0 | 0 | 8 | 17 | 7.62 | 0.04 | 364 | 0.36 | 746 | 0.02 | 0.001 |
| | Minimum | 0 | 0 | 0 | 0 | 13 | 7.51 | 0.00 | 349 | 0.35 | 714 | 0.02 | 0.001 |

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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) |
| 2-Aug-16 | 2458 Pylades | | | 0 | 0 | 17 | 7.48 | 0.01 | 357.0 | 0.36 | 730.0 | 0.01 | 0.027 |
| 8-Aug-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 18 | 7.39 | 0.02 | 376.0 | 0.38 | 769.0 | | |
| 15-Aug-16 | 2458 Pylades | | | 0 | 0 | 19 | 7.45 | 0.02 | 369.0 | 0.37 | 755.0 | | |
| 22-Aug-16 | 2458 Pylades | | | 0 | 31 | 19 | 7.45 | 0.04 | 356.0 | 0.36 | 733.0 | | |
| 29-Aug-16 | 2458 Pylades | | | 0 | 22 | 19 | 7.65 | 0.02 | 351.0 | 0.35 | 723.0 | | |
| | Average | 0 | 0 | 0 | 10.6 | 18.4 | 7.5 | 0.02 | 361.8 | 0.4 | 742.0 | 0.01 | 0.027 |
| | Maximum | 0 | 0 | 0 | 31 | 19 | 7.65 | 0.04 | 376 | 0.38 | 769 | 0.01 | 0.027 |
| | Minimum | 0 | 0 | 0 | 0 | 17 | 7.39 | 0.01 | 351 | 0.35 | 723 | 0.01 | 0.027 |

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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) |
| 4-Jul-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 15 | 7.33 | 0.06 | 364.0 | 0.36 | 747.0 | 0.01 | 0.011 |
| 11-Jul-16 | 2458 Pylades | | | 0 | 0 | 15 | 7.38 | 0.08 | 367.0 | 0.37 | 752.0 | | |
| 18-Jul-16 | 2458 Pylades | | | 0 | 0 | | 7.32 | 0.03 | 367.0 | 0.37 | 750.0 | | |
| 25-Jul-16 | 2458 Pylades | | | 0 | 0 | | 7.43 | 0.01 | 373.0 | 0.37 | 764.0 | | |
| | Average | 0 | 0 | 0 | 0 | 15.0 | 7.4 | 0.05 | 367.8 | 0.4 | 753.3 | 0.01 | 0.011 |
| | Maximum | 0 | 0 | 0 | 0 | 15 | 7.43 | 0.08 | 373 | 0.37 | 764 | 0.01 | 0.011 |
| | Minimum | 0 | 0 | 0 | 0 | 15 | 7.32 | 0.01 | 364 | 0.36 | 747 | 0.01 | 0.011 |

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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) |
| 6-Jun-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 14 | 7.76 | 0.04 | 374.0 | 0.37 | 764.0 | 0.01 | 0.022 |
| 13-Jun-16 | 2458 Pylades | | | 0 | 0 | 14 | 7.43 | 0.02 | 366.0 | 0.37 | 750.0 | | |
| 21-Jun-16 | 2458 Pylades | | | 0 | 0 | | 7.39 | 0.03 | 357.0 | 0.36 | 728.0 | | |
| 27-Jun-16 | 2484 Pylades | | | 0 | 0 | | 7.41 | 0.04 | 362.0 | 0.36 | 740.0 | | |
| | Average | 0 | 0 | 0 | 0 | 14.0 | 7.5 | 0.03 | 364.8 | 0.4 | 745.5 | 0.01 | 0.022 |
| | Maximum | 0 | 0 | 0 | 0 | 14 | 7.76 | 0.04 | 374 | 0.37 | 764 | 0.01 | 0.022 |
| | Minimum | 0 | 0 | 0 | 0 | 14 | 7.39 | 0.02 | 357 | 0.36 | 728 | 0.01 | 0.022 |

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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) |
| 2-May-16 | 2485 Pylades | | | 0 | 0 | 14 | 7.46 | 0.02 | 353.0 | 0.35 | 723.0 | | |
| 9-May-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 12 | 7.45 | 0.05 | 343.0 | 0.34 | 702.0 | 0.02 | 0.008 |
| 16-May-16 | 2458 Pylades | | | 0 | 0 | 13 | 7.55 | 0.00 | 356.0 | 0.36 | 723.0 | | |
| 24-May-16 | 2458 Pylades | | | 0 | 0 | 14 | 7.52 | 0.02 | 366.0 | 0.36 | 749.0 | | |
| 30-May-16 | 2458 Pylades | | | 0 | 0 | 13.5 | 7.54 | 0.02 | 371.0 | 0.37 | 758.0 | | |
| | Average | 0 | 0 | 0 | 0 | 13.3 | 7.5 | 0.02 | 357.8 | 0.4 | 731.0 | 0.02 | 0.008 |
| | Maximum | 0 | 0 | 0 | 0 | 14 | 7.55 | 0.05 | 371 | 0.37 | 758 | 0.02 | 0.008 |
| | Minimum | 0 | 0 | 0 | 0 | 12 | 7.45 | 0 | 343 | 0.34 | 702 | 0.02 | 0.008 |

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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) |
| 11-Apr-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 9 | 7.36 | 0.02 | 294.0 | 0.29 | 604.0 | 0.01 | 0.006 |
| 18-Apr-16 | 2458 Pylades | | | 0 | 0 | 10 | 7.49 | 0.02 | 320.0 | 0.32 | 656.0 | | |
| 25-Apr-16 | 2458 Pylades | | | 0 | 0 | | 7.54 | 0.03 | 324.0 | 0.32 | 663.0 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Average | 0 | 0 | 0 | 0 | 9.5 | 7.5 | 0.02 | 312.7 | 0.3 | 641.0 | 0.01 | 0.006 |
| | Maximum | 0 | 0 | 0 | 0 | 10 | 7.54 | 0.03 | 324 | 0.32 | 663 | 0.01 | 0.006 |
| | Minimum | 0 | 0 | 0 | 0 | 9 | 7.36 | 0.02 | 294 | 0.29 | 604 | 0.01 | 0.006 |

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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) |
| 7-Mar-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 8 | 7.50 | 0.01 | 321.0 | 0.32 | 658.0 | 0.03 | 0.024 |
| 14-Mar-16 | 2458 Pylades | | | 0 | 0 | 8 | 7.49 | 0.01 | 308.0 | 0.31 | 636.0 | | |
| 21-Mar-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 7 | 7.64 | 0.02 | 326.0 | 0.32 | 672.0 | | |
| 29-Mar-16 | 2458 Pylades | | | 0 | 0 | 9 | 7.32 | 0.03 | 273.0 | 0.27 | 566.0 | | |
| | Average | 0 | 0 | 0 | 0 | 8.0 | 7.5 | 0.02 | 307.0 | 0.3 | 633.0 | 0.03 | 0.024 |
| | Maximum | 0 | 0 | 0 | 0 | 9 | 7.64 | 0.03 | 326 | 0.32 | 672 | 0.03 | 0.024 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 7.32 | 0.01 | 273 | 0.27 | 566 | 0.03 | 0.024 |

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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) |
| 1-Feb-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 9 | 7.37 | 0.02 | 315.0 | 0.32 | 653.0 | 0.04 | 0.008 |
| 9-Feb-16 | 2458 Pylades | | | 0 | 0 | 8 | 7.57 | 0.02 | 318.0 | 0.32 | 652.0 | | |
| 15-Feb-16 | 2485 Pylades | | | 0 | 0 | 6 | 7.34 | 0.00 | 324.0 | 0.33 | 658.0 | | |
| 22-Feb-16 | 2458 Pylades | | | 0 | 0 | 7 | 7.76 | 0.02 | 319.0 | 0.32 | 656.0 | | |
| | Average | 0 | 0 | 0 | 0 | 7.5 | 7.5 | 0.02 | 319.0 | 0.3 | 654.8 | 0.04 | 0.008 |
| | Maximum | 0 | 0 | 0 | 0 | 9 | 7.76 | 0.02 | 324 | 0.33 | 658 | 0.04 | 0.008 |
| | Minimum | 0 | 0 | 0 | 0 | 6 | 7.34 | 0 | 315 | 0.32 | 652 | 0.04 | 0.008 |

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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) |
| 4-Jan-16 | 2458 Pylades | 0 | 0 | 0 | 0 | 7 | 7.60 | 0.00 | 282.0 | 0.28 | 581.0 | 0.02 | 0.009 |
| 11-Jan-16 | 2458 Pylades | | | 0 | 0 | 4 | 7.34 | 0.01 | 351.0 | 0.35 | 720.0 | | |
| 18-Jan-16 | 2458 Pylades | | | 0 | 0 | 6 | 7.22 | 0.02 | 325.0 | 0.33 | 666.0 | | |
| 25-Jan-16 | 2458 Pylades | | | 0 | 0 | 6 | 7.36 | 0.00 | 326.0 | 0.33 | 669.0 | | |
| | Average | 0 | 0 | 0 | 0 | 5.8 | 7.4 | 0.01 | 321.0 | 0.3 | 659.0 | 0.02 | 0.009 |
| | Maximum | 0 | 0 | 0 | 0 | 7 | 7.6 | 0.02 | 351 | 0.35 | 720 | 0.02 | 0.009 |
| | Minimum | 0 | 0 | 0 | 0 | 4 | 7.22 | 0 | 282 | 0.28 | 581 | 0.02 | 0.009 |

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