



Regional District of Nanaimo - Water Services Department

Decourcey Water Analysis - 2015 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) |
| 7-Dec-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 7 | 7.43 | 0.02 | 362.0 | 0.36 | 740.0 | 0.01 | 0.004 |
| 14-Dec-15 | 2458 Pylades | | | 0 | 0 | 7 | 7.42 | 0.02 | 354.0 | 0.35 | 729.0 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | Average | 0 | 0 | 0 | 0 | 7.0 | 7.4 | 0.02 | 358.0 | 0.4 | 734.5 | 0.01 | 0.004 |
| | Maximum | 0 | 0 | 0 | 0 | 7 | 7.43 | 0.02 | 362 | 0.36 | 740 | 0.01 | 0.004 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 7.42 | 0.02 | 354 | 0.35 | 729 | 0.01 | 0.004 |

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) |
| 2-Nov-15 | 2458 Pylades | 0 | 0 | 0 | 0 | | 7.40 | 0.01 | 367.0 | 0.37 | 751.0 | | |
| 9-Nov-15 | 2458 Pylades | | | 0 | 0 | 13 | 7.48 | 0.03 | 358.0 | 0.36 | 734.0 | | |
| 16-Nov-15 | 2458 Pylades | | | 0 | 0 | 11 | 7.48 | 0.01 | 360.0 | 0.36 | 737.0 | 0.01 | 0.006 |
| 23-Nov-15 | 2458 Pylades | | | 0 | 0 | | 7.49 | 0.05 | 361.0 | 0.36 | 738.0 | | |
| 30-Nov-15 | 2458 Pylades | | | 0 | 0 | 8 | 7.48 | 0.01 | 360.0 | 0.36 | 737.0 | | |
| | Average | 0 | 0 | 0 | 0 | 10.7 | 7.5 | 0.02 | 361.2 | 0.4 | 739.4 | 0.01 | 0.006 |
| | Maximum | 0 | 0 | 0 | 0 | 13 | 7.49 | 0.05 | 367 | 0.37 | 751 | 0.01 | 0.006 |
| | Minimum | 0 | 0 | 0 | 0 | 8 | 7.4 | 0.01 | 358 | 0.36 | 734 | 0.01 | 0.006 |

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Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

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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) |
| 5-Oct-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 15 | 7.61 | 0.03 | 363.0 | 0.36 | 742.0 | 0.02 | 0.008 |
| 13-Oct-15 | 2458 Pylades | | | 0 | 0 | 15 | 7.59 | 0.03 | 363.0 | 0.36 | 743.0 | | |
| 19-Oct-15 | 2458 Pylades | | | 0 | 0 | 12 | 7.58 | 0.01 | 362.0 | 0.36 | 742.0 | | |
| 26-Oct-15 | 2458 Pylades | | | 0 | 0 | 13 | 7.56 | 0.02 | 384.0 | 0.38 | 784.0 | | |
| | Average | 0 | 0 | 0 | 0 | 13.8 | 7.6 | 0.02 | 368.0 | 0.4 | 752.8 | 0.02 | 0.008 |
| | Maximum | 0 | 0 | 0 | 0 | 15 | 7.61 | 0.03 | 384 | 0.38 | 784 | 0.02 | 0.008 |
| | Minimum | 0 | 0 | 0 | 0 | 12 | 7.56 | 0.01 | 362 | 0.36 | 742 | 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) |
| 8-Sep-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 17 | 7.57 | 0.02 | 364.0 | 0.36 | 747.0 | 0.01 | 0.000 |
| 14-Sep-15 | 2458 Pylades | | | 0 | 0 | 16 | 7.56 | 0.02 | 365.0 | 0.36 | 745.0 | | |
| 21-Sep-15 | 2458 Pylades | | | 0 | 0 | 16 | 7.59 | 0.06 | 364.0 | 0.36 | 745.0 | | |
| 28-Sep-15 | 2458 Pylades | | | 0 | 0 | 15 | 7.57 | 0.03 | 367.0 | 0.37 | 751.0 | | |
| | Average | 0 | 0 | 0 | 0 | 16.0 | 7.6 | 0.03 | 365.0 | 0.4 | 747.0 | 0.01 | 0.000 |
| | Maximum | 0 | 0 | 0 | 0 | 17 | 7.59 | 0.06 | 367 | 0.37 | 751 | 0.01 | 0.000 |
| | Minimum | 0 | 0 | 0 | 0 | 15 | 7.56 | 0.02 | 364 | 0.36 | 745 | 0.01 | 0.000 |

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Aesthetic Objective for Iron is ≤0.3 mg/L

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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-Aug-15 | 2458 Pylades | | | 0 | 0 | 19 | 7.34 | 0.06 | 366.0 | 0.37 | 749.0 | 0.02 | 0.013 |
| 10-Aug-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 18 | 7.55 | 0.02 | 372.0 | 0.37 | 762.0 | | |
| 17-Aug-15 | 2458 Pylades | | | 0 | 0 | 20 | 7.48 | 0.03 | 362.0 | 0.36 | 739.0 | | |
| 24-Aug-15 | 2458 Pylades | | | 0 | 0 | 19 | 7.54 | 0.02 | 367.0 | 0.37 | 751.0 | | |
| 31-Aug-15 | 2458 Pylades | | | 0 | 0 | 17 | 7.61 | 0.03 | 369.0 | 0.37 | 756.0 | | |
| | Average | 0 | 0 | 0 | 0 | 18.6 | 7.5 | 0.03 | 367.2 | 0.4 | 751.4 | 0.02 | 0.013 |
| | Maximum | 0 | 0 | 0 | 0 | 20 | 7.61 | 0.06 | 372 | 0.37 | 762 | 0.02 | 0.013 |
| | Minimum | 0 | 0 | 0 | 0 | 17 | 7.34 | 0.02 | 362 | 0.36 | 739 | 0.02 | 0.013 |

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Aesthetic Objective for Manganese is ≤0.05mg/L

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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-Jul-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 17 | 7.37 | 0.06 | 368.0 | 0.37 | 751.0 | 0.02 | 0.029 |
| 13-Jul-15 | 2458 Pylades | | | 0 | 1 | 17 | 7.75 | 0.04 | 381.0 | 0.38 | 774.0 | | |
| 14-Jul-15 | 2458 Pylades | | | 0 | 0 | | | | | | | | |
| 20-Jul-15 | 2458 Pylades | | | 0 | 0 | 18 | 7.47 | 0.05 | 379.0 | 0.38 | 770.0 | | |
| 27-Jul-15 | 2458 Pylades | | | 0 | 0 | 18 | 7.57 | 0.02 | 374.0 | 0.37 | 765.0 | | |
| Average | | 0 | 0 | 0 | 0.20 | 17.5 | 7.5 | 0.04 | 375.5 | 0.4 | 765.0 | 0.02 | 0.029 |
| Maximum | | 0 | 0 | 0 | 1 | 18 | 7.75 | 0.06 | 381 | 0.38 | 774 | 0.02 | 0.029 |
| Minimum | | 0 | 0 | 0 | 0 | 17 | 7.37 | 0.02 | 368 | 0.37 | 751 | 0.02 | 0.029 |

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Aesthetic Objective for Manganese is ≤0.05mg/L

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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-Jun-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 14 | 7.39 | 0.02 | 376.0 | 0.38 | 770.0 | 0.03 | 0.039 |
| 8-Jun-15 | 2458 Pylades | | | 0 | 0 | 14 | 7.02 | 0.06 | 376.0 | 0.37 | 773.0 | | |
| 15-Jun-15 | 2458 Pylades | | | 0 | 0 | 18 | 7.15 | 0.01 | 381.0 | 0.38 | 783.0 | | |
| 22-Jun-15 | 2458 Pylades | | | 0 | 0 | 15 | 7.30 | 0.03 | 371.0 | 0.37 | 777.0 | | |
| 29-Jun-15 | 2458 Pylades | | | 0 | 0 | 16 | 7.44 | 0.00 | 375.0 | 0.37 | 767.0 | | |
| | Average | 0 | 0 | 0 | 0 | 15.4 | 7.3 | 0.02 | 375.8 | 0.4 | 774.0 | 0.03 | 0.039 |
| | Maximum | 0 | 0 | 0 | 0 | 18 | 7.44 | 0.06 | 381 | 0.38 | 783 | 0.03 | 0.039 |
| | Minimum | 0 | 0 | 0 | 0 | 14 | 7.02 | 0 | 371 | 0.37 | 767 | 0.03 | 0.039 |

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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-May-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 10 | 7.33 | 0.02 | 321.0 | 0.32 | 658.0 | 0.11 | 0.004 |
| 11-May-15 | 2458 Pylades | | | 0 | 0 | 11 | 7.26 | 0.00 | 325.0 | 0.33 | 668.0 | | |
| 19-May-15 | 2458 Pylades | | | 0 | 0 | 12 | 7.26 | 0.05 | 342.0 | 0.34 | 701.0 | | |
| 25-May-15 | 2458 Pylades | | | 0 | 1 | 13 | 7.22 | 0.02 | 369.0 | 0.37 | 755.0 | | |
| | Average | 0 | 0 | 0 | 0.25 | 11.5 | 7.3 | 0.02 | 339.3 | 0.3 | 695.5 | 0.11 | 0.004 |
| | Maximum | 0 | 0 | 0 | 1 | 13 | 7.33 | 0.05 | 369 | 0.37 | 755 | 0.11 | 0.004 |
| | Minimum | 0 | 0 | 0 | 0 | 10 | 7.22 | 0 | 321 | 0.32 | 658 | 0.11 | 0.004 |

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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-Apr-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 9 | 6.97 | 0.03 | 327.0 | 0.33 | 671.0 | 0.04 | 0.010 |
| 14-Apr-15 | 2458 Pylades | | | 0 | 0 | 10 | 7.17 | 0.03 | 319.0 | 0.32 | 657.0 | | |
| 20-Apr-15 | 2458 Pylades | | | 0 | 0 | | 7.13 | 0.02 | 320.0 | 0.32 | 657.0 | | |
| 27-Apr-15 | 2458 Pylades | | | 0 | 0 | 12 | 7.26 | 0.02 | 317.0 | 0.32 | 652.0 | | |
| | Average | 0 | 0 | 0 | 0 | 10.3 | 7.1 | 0.03 | 320.8 | 0.3 | 659.3 | 0.04 | 0.01 |
| | Maximum | 0 | 0 | 0 | 0 | 12 | 7.26 | 0.03 | 327 | 0.33 | 671 | 0.04 | 0.01 |
| | Minimum | 0 | 0 | 0 | 0 | 9 | 6.97 | 0.02 | 317 | 0.32 | 652 | 0.04 | 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) |
| 2-Mar-15 | 2458 Pylades | 0 | 0 | 0 | 1 | 8 | 7.18 | 0.02 | 332.0 | 0.33 | 682.0 | 0.05 | 0.000 |
| 4-Mar-15 | 2458 Pylades | | | 0 | 0 | | | | | | | | |
| 9-Mar-15 | 2458 Pylades | | | 0 | 0 | 7 | 7.02 | 0.02 | 327.0 | 0.33 | 670.0 | | |
| 16-Mar-15 | 2458 Pylades | | | 0 | 0 | | 7.08 | 0.01 | 327.0 | 0.33 | 671.0 | | |
| 24-Mar-15 | 2458 Pylades | | | 0 | 0 | 8 | 7.15 | 0.02 | 324.0 | 0.32 | 663.0 | | |
| 30-Mar-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 9 | 7.23 | 0.02 | 327.0 | 0.33 | 671.0 | | |
| | Average | 0 | 0 | 0 | 0.17 | 8.0 | 7.1 | 0.02 | 327.4 | 0.3 | 671.4 | 0.05 | 0 |
| | Maximum | 0 | 0 | 0 | 1 | 9 | 7.23 | 0.02 | 332 | 0.33 | 682 | 0.05 | 0 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 7.02 | 0.01 | 324 | 0.32 | 663 | 0.05 | 0 |

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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-Feb-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 7 | 7.17 | 0.03 | 347.0 | 0.35 | 700.0 | 0.04 | 0.025 |
| 10-Feb-15 | 2458 Pylades | | | 0 | 0 | 8 | 6.96 | 0.02 | 337.0 | 0.34 | 691.0 | | |
| 16-Feb-15 | 2458 Pylades | | | 0 | 0 | 8 | 6.86 | 0.03 | 335.0 | 0.34 | 688.0 | | |
| 23-Feb-15 | 2458 Pylades | | | 0 | 0 | 8 | 7.25 | 0.01 | 332.0 | 0.33 | 683.0 | | |
| | Average | 0 | 0 | 0 | 0 | 7.8 | 7.1 | 0.02 | 337.8 | 0.3 | 690.5 | 0.04 | 0.025 |
| | Maximum | 0 | 0 | 0 | 0 | 8 | 7.25 | 0.03 | 347 | 0.35 | 700 | 0.04 | 0.025 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 6.86 | 0.01 | 332 | 0.33 | 683 | 0.04 | 0.025 |

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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-Jan-15 | 2458 Pylades | 0 | 0 | 0 | 0 | 8 | 7.08 | 0.02 | 351.0 | 0.36 | 716.0 | 0.10 | 0.026 |
| 12-Jan-15 | 2458 Pylades | | | 0 | 0 | 7 | 7.20 | 0.00 | 340.0 | 0.34 | 700.0 | | |
| 20-Jan-15 | 2458 Pylades | | | 0 | 0 | 8 | 7.23 | 0.02 | 348.0 | 0.35 | 713.0 | | |
| 26-Jan-15 | 2458 Pylades | | | 0 | 0 | 7 | 7.22 | 0.00 | 346.0 | 0.35 | 707.0 | | |
| | Average | 0 | 0 | 0 | 0 | 7.5 | 7.2 | 0.01 | 346.3 | 0.4 | 709.0 | 0.10 | 0.026 |
| | Maximum | 0 | 0 | 0 | 0 | 8 | 7.23 | 0.02 | 351 | 0.36 | 716 | 0.1 | 0.026 |
| | Minimum | 0 | 0 | 0 | 0 | 7 | 7.08 | 0 | 340 | 0.34 | 700 | 0.1 | 0.026 |

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