



# Regional District of Nanaimo - Water Services Department

## Englishman River Water Analysis - 2018 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) |
| 3-Dec-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 9          | 7.93 | 0.62                          | 263.0                         | 0.26         | 545.0                | 0.02              | 0.008            |
| 10-Dec-18 | 2235 Rascal               | 0                 | 0                | 0        | 0                | 8          | 8.05 | 0.64                          | 262.0                         | 0.26         | 540.0                |                   |                  |
| 17-Dec-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 7          | 8.12 | 0.66                          | 259.0                         | 0.26         | 535.0                |                   |                  |
|           |                           |                   |                  |          |                  |            |      |                               |                               |              |                      |                   |                  |
|           |                           |                   |                  |          |                  |            |      |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 8.0        | 8.0  | 0.64                          | 261.3                         | 0.26         | 540.0                | 0.02              | 0.008            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 9          | 8.12 | 0.66                          | 263.0                         | 0.26         | 545.0                | 0.02              | 0.008            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 7          | 7.93 | 0.62                          | 259.0                         | 0.26         | 535.0                | 0.02              | 0.008            |

**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-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 11         | 8.01 | 0.51                          | 262.0                         | 0.26         | 541.0                | 0.00              | 0.011            |
| 14-Nov-18 | 2235 Rascal               | 0                 | 0                | 0        | 0                | 10         | 8.22 | 0.70                          | 263.0                         | 0.26         | 544.0                |                   |                  |
| 19-Nov-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 9          | 8.07 | 0.66                          | 263.0                         | 0.26         | 543.0                |                   |                  |
| 27-Nov-18 | 2235 Rascal               |                   |                  | 0        | 0                | 9          | 8.34 | 0.65                          | 262.0                         | 0.26         | 541.0                |                   |                  |
|           |                           |                   |                  |          |                  |            |      |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 9.8        | 8.2  | 0.63                          | 262.5                         | 0.26         | 542.3                | 0.00              | 0.011            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 11         | 8.34 | 0.70                          | 263.0                         | 0.26         | 544.0                | 0.00              | 0.011            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 9          | 8.01 | 0.51                          | 262.0                         | 0.26         | 541.0                | 0.00              | 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) |
| 1-Oct-18  | 2235 Rascal               |                   |                  | 0        | 0                |            | 8.25 | 1.68                          | 272.0                         | 0.27         | 561.0                | 0.01              | 0.031            |
| 9-Oct-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 14         | 7.85 | 1.29                          | 271.0                         | 0.27         | 559.0                |                   |                  |
| 15-Oct-18 | 2235 Rascal               | 0                 | 0                | 0        | 0                | 12         | 8.19 | 0.62                          | 266.0                         | 0.26         | 549.0                |                   |                  |
| 22-Oct-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 13         | 8.18 | 0.50                          | 267.0                         | 0.27         | 551.0                |                   |                  |
| 30-Oct-18 | 2235 Rascal               |                   |                  | 0        | 0                | 11         | 8.29 | 0.54                          | 266.0                         | 0.26         | 548.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 12.5       | 8.2  | 0.93                          | 268.4                         | 0.27         | 553.6                | 0.01              | 0.031            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 14         | 8.29 | 1.68                          | 272.0                         | 0.27         | 561.0                | 0.01              | 0.031            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 11         | 7.85 | 0.5                           | 266.0                         | 0.26         | 548.0                | 0.01              | 0.031            |

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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-Sep-18  | 2235 Rascal               | 0                 | 0                | 0        | 0                | 14         | 7.93 | 0.34                          | 272.0                         | 0.27         | 562.0                | 0.01              | 0.057            |
| 10-Sep-18 | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 15         | 8.06 | 0.45                          | 270.0                         | 0.27         | 556.0                |                   |                  |
| 17-Sep-18 | 2235 Rascal               |                   |                  | 0        | 0                | 15         | 8.28 | 0.45                          | 271.0                         | 0.27         | 558.0                |                   |                  |
| 24-Sep-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 14         | 8.29 | 0.44                          | 272.0                         | 0.27         | 561.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 14.5       | 8.1  | 0.42                          | 271.3                         | 0.27         | 559.3                | 0.01              | 0.057            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 15         | 8.29 | 0.45                          | 272.0                         | 0.27         | 562.0                | 0.01              | 0.057            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 14         | 7.93 | 0.34                          | 270.0                         | 0.27         | 556.0                | 0.01              | 0.057            |

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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) |
| 7-Aug-18  | 2235 Rascal               | 0                 | 0                | 0        | 0                | 16         | 7.85 | 0.52                          | 272.0                         | 0.27         | 559.0                | 0.02              | 0.042            |
| 13-Aug-18 | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 15.5       | 7.70 | 0.69                          | 267.0                         | 0.27         | 548.0                |                   |                  |
| 20-Aug-18 | 2235 Rascal               |                   |                  | 0        | 0                | 13         | 7.88 | 0.72                          | 266.0                         | 0.27         | 549.0                |                   |                  |
| 29-Aug-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 15         | 7.92 | 0.60                          | 271.0                         | 0.27         | 560.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 14.9       | 7.8  | 0.63                          | 269.0                         | 0.27         | 554.0                | 0.02              | 0.042            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 16         | 7.92 | 0.72                          | 272.0                         | 0.27         | 560.0                | 0.02              | 0.042            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 13         | 7.70 | 0.52                          | 266.0                         | 0.27         | 548.0                | 0.02              | 0.042            |

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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-Jul-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 14         | 7.90 | 0.70                          | 261.0                         | 0.26         | 538.0                | 0.00              | 0.044            |
| 9-Jul-18  | 2235 Rascal               | 0                 | 0                | 0        | 0                | 15         | 7.89 | 0.65                          | 263.0                         | 0.26         | 543.0                |                   |                  |
| 16-Jul-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 14         | 8.02 | 0.66                          | 265.0                         | 0.26         | 546.0                |                   |                  |
| 24-Jul-18 | 2235 Rascal               |                   |                  | 0        | 0                | 14         | 7.78 | 0.54                          | 267.0                         | 0.27         | 552.0                |                   |                  |
| 30-Jul-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 15         | 8.05 | 0.78                          | 268.0                         | 0.27         | 552.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 14.4       | 7.9  | 0.67                          | 264.8                         | 0.26         | 546.2                | 0.00              | 0.044            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 15         | 8.05 | 0.78                          | 268.0                         | 0.27         | 552.0                | 0.00              | 0.044            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 14         | 7.78 | 0.54                          | 261.0                         | 0.26         | 538.0                | 0.00              | 0.044            |

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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-Jun-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 12         | 7.89 | 0.85                          | 261.0                         | 0.26         | 539.0                |                   |                  |
| 11-Jun-18 | 2235 Rascal               | 0                 | 0                | 0        | 0                | 12         | 8.04 | 0.79                          | 261.0                         | 0.26         | 538.0                | 0.00              | 0.015            |
| 18-Jun-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 15         | 7.72 | 0.80                          | 264.0                         | 0.26         | 544.0                |                   |                  |
| 25-Jun-18 | 2235 Rascal               |                   |                  | 0        | 0                | 13         | 7.97 | 0.78                          | 264.0                         | 0.26         | 544.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 13.0       | 7.9  | 0.81                          | 262.5                         | 0.26         | 541.3                | 0.00              | 0.015            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 15         | 8.04 | 0.85                          | 264.0                         | 0.26         | 544.0                | 0.00              | 0.015            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 12         | 7.72 | 0.78                          | 261.0                         | 0.26         | 538.0                | 0.00              | 0.015            |

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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-May-18  | 2235 Rascal               | 0                 | 0                | 0        | 0                | 10         | 7.79 | 0.82                          | 252.0                         | 0.25         | 520.0                |                   |                  |
| 7-May-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 10         | 7.84 | 0.81                          | 253.0                         | 0.25         | 523.0                | 0.03              | 0.025            |
| 14-May-18 | 2235 Rascal               |                   |                  | 0        | 0                | 11         | 8.04 | 0.96                          | 258.0                         | 0.26         | 533.0                |                   |                  |
| 22-May-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 12         | 7.95 | 1.39                          | 261.0                         | 0.26         | 539.0                |                   |                  |
| 29-May-18 | 2235 Rascal               |                   |                  | 0        | 0                | 13         | 7.87 | 0.83                          | 261.0                         | 0.26         | 539.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 11.2       | 7.9  | 0.96                          | 257.0                         | 0.26         | 530.8                | 0.03              | 0.025            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 13         | 8.04 | 1.39                          | 261.0                         | 0.26         | 539.0                | 0.03              | 0.025            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 10         | 7.79 | 0.81                          | 252.0                         | 0.25         | 520.0                | 0.03              | 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) |
| 4-Apr-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 5          | 7.42 | 0.69                          | 254.0                         | 0.25         | 525.0                | 0.00              | 0.004            |
| 9-Apr-18  | 2235 Rascal               | 0                 | 0                | 0        | 0                | 8          | 7.65 | 0.71                          | 254.0                         | 0.25         | 525.0                |                   |                  |
| 16-Apr-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 8          | 7.53 | 0.68                          | 252.0                         | 0.25         | 520.0                |                   |                  |
| 25-Apr-18 | 2235 Rascal               |                   |                  | 0        | 0                | 9          | 7.76 | 0.81                          | 252.0                         | 0.25         | 520.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 7.5        | 7.6  | 0.72                          | 253.0                         | 0.25         | 522.5                | 0.00              | 0.004            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 9          | 7.76 | 0.81                          | 254.0                         | 0.25         | 525.0                | 0.00              | 0.004            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 5          | 7.42 | 0.68                          | 252.0                         | 0.25         | 520.0                | 0.00              | 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) |
| 5-Mar-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 6          | 7.82 | 0.55                          | 251.0                         | 0.25         | 519.0                | 0.00              | 0.006            |
| 12-Mar-18 | 2235 Rascal               | 0                 | 0                | 0        | 0                | 6          | 7.74 | 0.53                          | 249.0                         | 0.25         | 515.0                |                   |                  |
| 20-Mar-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 6          | 7.66 | 0.67                          | 250.0                         | 0.25         | 516.0                |                   |                  |
| 27-Mar-18 | 2235 Rascal               |                   |                  | 0        | 0                | 6          | 7.82 | 0.79                          | 252.0                         | 0.25         | 520.0                |                   |                  |
|           |                           |                   |                  |          |                  |            |      |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 6.0        | 7.8  | 0.64                          | 250.5                         | 0.25         | 517.5                | 0.00              | 0.006            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 6          | 7.82 | 0.79                          | 252.0                         | 0.25         | 520.0                | 0.00              | 0.006            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 6          | 7.66 | 0.53                          | 249.0                         | 0.25         | 515.0                | 0.00              | 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) |
| 5-Feb-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 6          | 7.81 | 0.66                          | 254.0                         | 0.25         | 524.0                | 0.00              | 0.000            |
| 14-Feb-18 | 2235 Rascal               | 0                 | 0                | 0        | 0                |            | 7.65 | 0.66                          | 253.0                         | 0.25         | 523.0                |                   |                  |
| 20-Feb-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 7          | 7.51 | 0.64                          | 250.0                         | 0.25         | 522.0                |                   |                  |
| 26-Feb-18 | 2235 Rascal               |                   |                  | 0        | 0                | 6          | 7.77 | 1.09                          | 252.0                         | 0.25         | 520.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 6.3        | 7.7  | 0.76                          | 252.3                         | 0.25         | 522.3                | 0.00              | 0.000            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 7          | 7.81 | 1.09                          | 254.0                         | 0.25         | 524.0                | 0.00              | 0.000            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 6          | 7.51 | 0.64                          | 250.0                         | 0.25         | 520.0                | 0.00              | 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.



# Regional District of Nanaimo - Water Services Department

## Englishman River Water Analysis - 2018 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) |
| 2-Jan-18  | 2235 Rascal               | 0                 | 0                | 0        | 0                |            | 7.86 | 0.74                          | 253.0                         | 0.25         | 523.0                | 0.01              | 0.018            |
| 8-Jan-18  | 1969 Kaye                 | 0                 | 0                | 0        | 0                | 7          | 7.85 | 0.78                          | 253.0                         | 0.25         | 523.0                |                   |                  |
| 15-Jan-18 | 2235 Rascal               |                   |                  | 0        | 0                | 6          | 7.70 | 0.73                          | 251.0                         | 0.25         | 520.0                |                   |                  |
| 22-Jan-18 | 1969 Kaye                 |                   |                  | 0        | 0                | 7          | 6.64 | 0.71                          | 250.0                         | 0.25         | 518.0                |                   |                  |
| 29-Jan-18 | 2235 Rascal               |                   |                  | 0        | 0                | 7          | 7.70 | 0.70                          | 253.0                         | 0.25         | 523.0                |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0        | 0                | 6.8        | 7.6  | 0.73                          | 252.0                         | 0.25         | 521.4                | 0.01              | 0.018            |
|           | <b>Maximum</b>            | 0                 | 0                | 0        | 0                | 7          | 7.86 | 0.78                          | 253.0                         | 0.25         | 523.0                | 0.01              | 0.018            |
|           | <b>Minimum</b>            | 0                 | 0                | 0        | 0                | 6          | 6.64 | 0.7                           | 250.0                         | 0.25         | 518.0                | 0.01              | 0.018            |

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**Comments:**

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