



# Regional District of Nanaimo - Water Services Department

## Melrose Terrace Water Analysis - 2010 Monthly Report



| Date      | Sample Location (Address) | Health Department |                  | In-House         |                  |            |     |                               |                               |              |                      |                   |                  |
|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-Jan-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                | 6          | 6.4 | 0.02                          | 172                           | 0.2          | 362                  | 0.34              | 0.046            |
| 11-Jan-10 | Pumphouse                 |                   |                  | 0                | 0                | 11         | 6.7 | 0.02                          | 169                           | 0.2          | 355                  |                   |                  |
| 19-Jan-10 | 3927 Melrose              |                   |                  | 0                | 0                | 7          | 6.8 | 0.02                          | 169                           | 0.2          | 360                  |                   |                  |
| 27-Jan-10 | Pumphouse                 |                   |                  | 0                | 0                | 10         | 6.7 | 0.02                          | 167                           | 0.2          | 353                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 8.5        | 6.7 | 0.02                          | 169.3                         | 0.2          | 357.5                | 0.34              | 0.046            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 11         | 6.8 | 0.02                          | 172                           | 0.2          | 362                  | 0.34              | 0.046            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 6          | 6.4 | 0.02                          | 167                           | 0.2          | 353                  | 0.34              | 0.046            |

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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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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) |
| 9-Feb-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                | 9          | 6.5 | 0.02                          | 170                           | 0.2          | 360                  | 0.25              | 0.028            |
| 16-Feb-10 | Pumphouse                 |                   |                  | 0                | 0                | 13         | 6.8 | 0.01                          | 171                           | 0.2          | 358                  |                   |                  |
| 23-Feb-10 | Pumphouse                 |                   |                  | 0                | 0                | 11         | 6.7 | 0.02                          | 171                           | 0.2          | 361                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 11.0       | 6.7 | 0.02                          | 170.7                         | 0.2          | 359.7                | 0.25              | 0.028            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 13         | 6.8 | 0.02                          | 171                           | 0.2          | 361                  | 0.25              | 0.028            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 9          | 6.5 | 0.01                          | 170                           | 0.2          | 358                  | 0.25              | 0.028            |

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Aesthetic Objective for Iron is • 0.3 mg/L

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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-Mar-10  | 3927 Melrose              |                   |                  | 0                | 0                | 9          | 6.3 | 0.03                          | 172                           | 0.2          | 364                  | 0.26              | 0.020            |
| 8-Mar-10  | Pumphouse                 |                   |                  | 0                | 0                | 11         | 6.6 | 0.03                          | 171                           | 0.2          | 360                  |                   |                  |
| 17-Mar-10 | 3927 Melrose              | 0                 | 0                | 0                | 0                | 9          | 6.5 | 0.02                          | 176                           | 0.2          | 370                  |                   |                  |
| 23-Mar-10 | Pumphouse                 |                   |                  | 0                | 0                | 11         | 6.7 | 0.02                          | 178                           | 0.2          | 375                  |                   |                  |
| 29-Mar-10 | Pumphouse                 |                   |                  | 0                | 0                | 11         | 6.7 | 0.02                          | 174                           | 0.2          | 366                  |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 10.2       | 6.6 | 0.02                          | 174.2                         | 0.2          | 367.0                | 0.26              | 0.02             |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 11         | 6.7 | 0.03                          | 178                           | 0.2          | 375                  | 0.26              | 0.02             |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 9          | 6.3 | 0.02                          | 171                           | 0.2          | 360                  | 0.26              | 0.02             |

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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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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                |            | 6.6 | 0.03                          | 173                           | 0.2          | 365                  | 0.32              | 0.016            |
| 12-Apr-10 | Pumphouse                 |                   |                  | 0                | 0                | 11         | 6.5 | 0.02                          | 175                           | 0.2          | 367                  |                   |                  |
| 19-Apr-10 | 3927 Melrose              |                   |                  | 0                | 0                | 11         | 6.6 | 0.03                          | 170                           | 0.2          | 358                  |                   |                  |
| 26-Apr-10 | Pumphouse                 |                   |                  | 0                | 0                | 13         | 6.7 | 0.01                          | 165                           | 0.2          | 349                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 11.7       | 6.6 | 0.02                          | 170.8                         | 0.2          | 359.8                | 0.32              | 0.016            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 13         | 6.7 | 0.03                          | 175                           | 0.2          | 367                  | 0.32              | 0.016            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 11         | 6.5 | 0.01                          | 165                           | 0.2          | 349                  | 0.32              | 0.016            |

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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                | 12         | 6.4 | 0.02                          | 175                           | 0.2          | 371                  | 0.2               | 0.026            |
| 17-May-10 | Pumphouse                 |                   |                  | 0                | 0                | 16         | 6.8 | 0.02                          | 180                           | 0.2          | 375                  |                   |                  |
| 25-May-10 | 3927 Melrose              |                   |                  | 0                | 0                | n/a        | 6.6 | 0.02                          | 182                           | 0.2          | 381                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 14.0       | 6.6 | 0.02                          | 179.0                         | 0.2          | 375.7                | 0.20              | 0.026            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 16         | 6.8 | 0.02                          | 182                           | 0.2          | 381                  | 0.2               | 0.026            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 12         | 6.4 | 0.02                          | 175                           | 0.2          | 371                  | 0.2               | 0.026            |

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



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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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) |
| 9-Jun-10  | Pumphouse                 |                   |                  | 0                | 0                |            | 6.9 | 0.02                          | 192                           | 0.2          | 403                  | 0.17              | 0.015            |
| 15-Jun-10 | 3927 Melrose              | 0                 | 0                | 0                | 0                |            | 6.8 | 0.02                          | 196                           | 0.2          | 413                  |                   |                  |
| 21-Jun-10 | Pumphouse                 |                   |                  | 0                | 0                |            | 6.8 | 0.02                          | 196                           | 0.2          | 410                  |                   |                  |
| 29-Jun-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 6.7 | 0.02                          | 194                           | 0.2          | 407                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | #DIV/0!    | 6.8 | 0.02                          | 194.5                         | 0.2          | 408.3                | 0.17              | 0.015            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 0          | 6.9 | 0.02                          | 196                           | 0.2          | 413                  | 0.17              | 0.015            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 0          | 6.7 | 0.02                          | 192                           | 0.2          | 403                  | 0.17              | 0.015            |

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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-Jul-10  | 3927 Melrose              |                   |                  | 0                | 0                |            | 6.8 |                               | 196                           | 0.2          | 410                  |                   |                  |
| 12-Jul-10 | 3927 Melrose              | T                 | T                | 0                | 0                |            | 6.8 |                               | 195                           | 0.2          | 410                  |                   |                  |
| 21-Jul-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 7   |                               | 218                           | 0.2          | 455                  |                   |                  |
| 26-Jul-10 | Pumphouse                 |                   |                  | 0                | 0                | 19         | 6.7 | 0.01                          | 217                           | 0.2          | 456                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | #DIV/0!           | #DIV/0!          | 0                | 0                | 19.0       | 6.8 | 0.01                          | 206.5                         | 0.2          | 432.8                | #DIV/0!           | #DIV/0!          |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 19         | 7   | 0.01                          | 218                           | 0.2          | 456                  | 0                 | 0                |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 19         | 6.7 | 0.01                          | 195                           | 0.2          | 410                  | 0                 | 0                |

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T- Transport time was too long to laboratory.

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Aesthetic Objective for Manganese is • 0.05mg/L

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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                |            | 6.8 | 0.01                          | 192                           | 0.2          | 402                  | 0.23              | 0.023            |
| 11-Aug-10 | Pumphouse                 |                   |                  | 0                | 0                | 17         | 7   | 0.02                          | 184                           | 0.2          | 390                  |                   |                  |
| 16-Aug-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 6.9 |                               | 183                           | 0.2          | 384                  |                   |                  |
| 23-Aug-10 | Pumphouse                 |                   |                  | 0                | 0                | 17.5       | 6.7 |                               | 184                           | 0.2          | 385                  |                   |                  |
| 31-Aug-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 7   |                               | 182                           | 0.2          | 382                  |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 17.3       | 6.9 | 0.02                          | 185.0                         | 0.2          | 388.6                | 0.23              | 0.023            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 17.5       | 7   | 0.02                          | 192                           | 0.2          | 402                  | 0.23              | 0.023            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 17         | 6.7 | 0.01                          | 182                           | 0.2          | 382                  | 0.23              | 0.023            |

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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                | 17         | 6.7 | 0.01                          | 187                           | 0.2          | 392                  | 0.18              | 0.013            |
| 13-Sep-10 | Pumphouse                 |                   |                  | 0                | 0                | 15         | 6.8 | 0.01                          | 183                           | 0.2          | 388                  |                   |                  |
| 20-Sep-10 | 3927 Melrose              |                   |                  | 0                | 0                | 16         | 6.8 | 0.04                          | 210                           | 0.2          | 439                  |                   |                  |
| 28-Sep-10 | Pumphouse                 |                   |                  | 0                | 0                |            | 7.1 | 0.01                          | 192                           | 0.2          | 404                  |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 16.0       | 6.9 | 0.02                          | 193.0                         | 0.2          | 405.8                | 0.18              | 0.013            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 17         | 7.1 | 0.04                          | 210                           | 0.2          | 439                  | 0.18              | 0.013            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 15         | 6.7 | 0.01                          | 183                           | 0.2          | 388                  | 0.18              | 0.013            |

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|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                |            | 6.4 | 0.01                          | 195                           | 0.2          | 407                  | 0.18              | 0.023            |
| 12-Oct-10 | Pump house                |                   |                  | 0                | 0                | 14         |     | 0.02                          | 180                           | 0.2          | 377                  |                   |                  |
| 18-Oct-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 7.1 | 0.04                          | 182                           | 0.2          | 383                  |                   |                  |
| 25-Oct-10 | Pumphouse                 |                   |                  | 0                | 0                |            | 6.9 |                               | 191                           | 0.2          | 402                  |                   |                  |
|           |                           |                   |                  |                  |                  |            |     |                               |                               |              |                      |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 14.0       | 6.8 | 0.02                          | 187.0                         | 0.2          | 392.3                | 0.18              | 0.023            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 14         | 7.1 | 0.04                          | 195                           | 0.2          | 407                  | 0.18              | 0.023            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 14         | 6.4 | 0.01                          | 180                           | 0.2          | 377                  | 0.18              | 0.023            |

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|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-Nov-10  | Pumphouse                 |                   |                  | 0                | 0                | 19         | 7   | 0.02                          | 204                           | 0.2          | 419                  | 0.07              | 0.023            |
| 8-Nov-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                | 11         | 6.9 | 0.07                          | 199                           | 0.2          | 433                  |                   |                  |
| 15-Nov-10 | Pumphouse                 |                   |                  | 0                | 0                | 10         | 7   | 0.02                          | 196                           | 0.2          | 411                  |                   |                  |
| 22-Nov-10 | Pumphouse                 |                   |                  | 0                | 0                | 6          | 7.1 | 0.03                          | 181                           | 0.2          | 358                  |                   |                  |
| 29-Nov-10 | 3927 Melrose              |                   |                  | 0                | 0                | 8          | 7.2 | 0.01                          | 178                           | 0.2          | 378                  |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 10.8       | 7.0 | 0.03                          | 191.6                         | 0.2          | 399.8                | 0.07              | 0.023            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 19         | 7.2 | 0.07                          | 204                           | 0.2          | 433                  | 0.07              | 0.023            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 6          | 6.9 | 0.01                          | 178                           | 0.2          | 358                  | 0.07              | 0.023            |

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

## Melrose Terrace Water Analysis - 2010 Monthly Report



| Date      | Sample Location (Address) | Health Department |                  | In-House         |                  |            |     |                               |                               |              |                      |                   |                  |
|-----------|---------------------------|-------------------|------------------|------------------|------------------|------------|-----|-------------------------------|-------------------------------|--------------|----------------------|-------------------|------------------|
|           |                           | Fecal Coliform *  | Total Coliform * | Fecal Coliform * | 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-10  | 3927 Melrose              | 0                 | 0                | 0                | 0                | 7          | 6.7 | 0                             | 191                           | 0.2          | 403                  | 2.86              | 0.255            |
| 14-Dec-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 7.2 | 0.1                           | 191                           | 0.2          | 406                  |                   |                  |
| 20-Dec-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 7   | 0.01                          | 191                           | 0.2          | 406                  |                   |                  |
| 29-Dec-10 | 3927 Melrose              |                   |                  | 0                | 0                |            | 7   | 0.02                          | 186                           | 0.2          | 397                  |                   |                  |
|           | <b>Average</b>            | 0                 | 0                | 0                | 0                | 7.0        | 7.0 | 0.03                          | 189.8                         | 0.2          | 403.0                | 2.86              | 0.255            |
|           | <b>Maximum</b>            | 0                 | 0                | 0                | 0                | 7          | 7.2 | 0.1                           | 191                           | 0.2          | 406                  | 2.86              | 0.255            |
|           | <b>Minimum</b>            | 0                 | 0                | 0                | 0                | 7          | 6.7 | 0                             | 186                           | 0.2          | 397                  | 2.86              | 0.255            |

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**Comments:**

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