

# CEM - 2014 (Quarterly)

British Columbia Hydro and Power Authority

Permit: 0330 / Due Date: July 30, 2014

| 01A - Power boiler #1                            |  |
|--|--|
| Nitrogen Oxides                                  |  |
| Test Date Range:                                 | April 1 - June 30                          |
| Total Hours of Data Collected:                   | 0.00 hours                                 |
| Permitted Flow Limit:                            | 7600.00 m3/min                             |
| Contaminant Permit Limit:                        | 52.0000 mg/m3                              |
| Minimum Hourly Average Test Result:              | 0.000 mg/m3                                |
| Date/Time of Minimum Hourly Average Test Result: | April 01, 2014                             |
| Maximum Hourly Average Test Result:              | 0.000 mg/m3                                |
| Date/Time of Maximum Hourly Average Test Result: | April 01, 2014                             |
| Average of Test Results Over the Quarter:        | 0.000 mg/m3                                |
| 98th Percentile Value:                           | 0.000 mg/m3                                |
| Data Recovery:                                   | 100.000 %                                  |
| Comments:  | unit 1 did not operate during this quarter |
| 01B - Power boiler #1                            |  |
| Nitrogen Oxides                                  |  |
| Test Date Range:                                 | April 1 - June 30                          |
| Total Hours of Data Collected:                   | 0.00 hours                                 |
| Permitted Flow Limit:                            | 7600.00 m3/min                             |
| Contaminant Permit Limit:                        | 35.0000 mg/m3                              |
| Minimum Hourly Average Test Result:              | 0.000 mg/m3                                |
| Date/Time of Minimum Hourly Average Test Result: | April 01, 2014                             |
| Maximum Hourly Average Test Result:              | 0.000 mg/m3                                |
| Date/Time of Maximum Hourly Average Test Result: | April 01, 2014                             |
| Average of Test Results Over the Quarter:        | 0.000 mg/m3                                |
| 98th Percentile Value:                           | 0.000 mg/m3                                |
| Data Recovery:                                   | 100.000 %                                  |
| Comments:  | unit 1 did not operate during this quarter |

| <b>02A - Power boiler #2</b>                            |  |
|---|--|
| <b>Nitrogen Oxides</b>                                  |  |
| <b>Test Date Range:</b>                                 | April 1 - June 30                          |
| <b>Total Hours of Data Collected:</b>                   | 0.00 hours                                 |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min                             |
| <b>Contaminant Permit Limit:</b>                        | 52.0000 mg/m3                              |
| <b>Minimum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Maximum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Average of Test Results Over the Quarter:</b>        | 0.000 mg/m3                                |
| <b>98th Percentile Value:</b>                           | 0.000 mg/m3                                |
| <b>Data Recovery:</b>                                   | 100.000 %                                  |
| <b>Comments:</b>  | unit 2 did not operate during this quarter |
| <b>02B - Power boiler #2</b>                            |  |
| <b>Nitrogen Oxides</b>                                  |  |
| <b>Test Date Range:</b>                                 | April 1 - June 30                          |
| <b>Total Hours of Data Collected:</b>                   | 0.00 hours                                 |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min                             |
| <b>Contaminant Permit Limit:</b>                        | 35.0000 mg/m3                              |
| <b>Minimum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Maximum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Average of Test Results Over the Quarter:</b>        | 0.000 mg/m3                                |
| <b>98th Percentile Value:</b>                           | 0.000 mg/m3                                |
| <b>Data Recovery:</b>                                   | 100.000 %                                  |
| <b>Comments:</b>  | unit 2 did not operate during this quarter |

| <b>03A - Power boiler #3</b>                            |  |
|---|--|
| <b>Nitrogen Oxides</b>                                  |  |
| <b>Test Date Range:</b>                                 | April 1 - June 30                          |
| <b>Total Hours of Data Collected:</b>                   | 0.00 hours                                 |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min                             |
| <b>Contaminant Permit Limit:</b>                        | 52.0000 mg/m3                              |
| <b>Minimum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Maximum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Average of Test Results Over the Quarter:</b>        | 0.000 mg/m3                                |
| <b>98th Percentile Value:</b>                           | 0.000 mg/m3                                |
| <b>Data Recovery:</b>                                   | 100.000 %                                  |
| <b>Comments:</b>  | unit 3 did not operate during this quarter |
| <b>03B - Power boiler #3</b>                            |  |
| <b>Nitrogen Oxides</b>                                  |  |
| <b>Test Date Range:</b>                                 | April 1 - June 30                          |
| <b>Total Hours of Data Collected:</b>                   | 0.00 hours                                 |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min                             |
| <b>Contaminant Permit Limit:</b>                        | 35.0000 mg/m3                              |
| <b>Minimum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Maximum Hourly Average Test Result:</b>              | 0.000 mg/m3                                |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 01, 2014                             |
| <b>Average of Test Results Over the Quarter:</b>        | 0.000 mg/m3                                |
| <b>98th Percentile Value:</b>                           | 0.000 mg/m3                                |
| <b>Data Recovery:</b>                                   | 100.000 %                                  |
| <b>Comments:</b>  | unit 3 did not operate during this quarter |

| <b>04A - Power boiler #4</b>                            |                   |
|---|-------------------|
| <b>Nitrogen Oxides</b>                                  |                   |
| <b>Test Date Range:</b>                                 | April 1 - June 30 |
| <b>Total Hours of Data Collected:</b>                   | 52.00 hours       |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min    |
| <b>Contaminant Permit Limit:</b>                        | 52.0000 mg/m3     |
| <b>Minimum Hourly Average Test Result:</b>              | 26.900 mg/m3      |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 12, 2014    |
| <b>Maximum Hourly Average Test Result:</b>              | 29.900 mg/m3      |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 12, 2014    |
| <b>Average of Test Results Over the Quarter:</b>        | 28.729 mg/m3      |
| <b>98th Percentile Value:</b>                           | 29.300 mg/m3      |
| <b>Data Recovery:</b>                                   | 100.000 %         |
| <b>Comments:</b>  |                   |
| <b>04B - Power boiler #4</b>                            |                   |
| <b>Nitrogen Oxides</b>                                  |                   |
| <b>Test Date Range:</b>                                 | April 1 - June 30 |
| <b>Total Hours of Data Collected:</b>                   | 52.00 hours       |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min    |
| <b>Contaminant Permit Limit:</b>                        | 35.0000 mg/m3     |
| <b>Minimum Hourly Average Test Result:</b>              | 2.900 mg/m3       |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 11, 2014    |
| <b>Maximum Hourly Average Test Result:</b>              | 13.800 mg/m3      |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 13, 2014    |
| <b>Average of Test Results Over the Quarter:</b>        | 11.406 mg/m3      |
| <b>98th Percentile Value:</b>                           | 13.798 mg/m3      |
| <b>Data Recovery:</b>                                   | 100.000 %         |
| <b>Comments:</b>  |                   |

| <b>05A - Power boiler #5</b>                            |                   |
|---|-------------------|
| <b>Nitrogen Oxides</b>                                  |                   |
| <b>Test Date Range:</b>                                 | April 1 - June 30 |
| <b>Total Hours of Data Collected:</b>                   | 38.00 hours       |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min    |
| <b>Contaminant Permit Limit:</b>                        | 52.0000 mg/m3     |
| <b>Minimum Hourly Average Test Result:</b>              | 25.000 mg/m3      |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 12, 2014    |
| <b>Maximum Hourly Average Test Result:</b>              | 29.400 mg/m3      |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 12, 2014    |
| <b>Average of Test Results Over the Quarter:</b>        | 28.176 mg/m3      |
| <b>98th Percentile Value:</b>                           | 29.104 mg/m3      |
| <b>Data Recovery:</b>                                   | 100.000 %         |
| <b>Comments:</b>  |                   |
| <b>05B - Power boiler #5</b>                            |                   |
| <b>Nitrogen Oxides</b>                                  |                   |
| <b>Test Date Range:</b>                                 | April 1 - June 30 |
| <b>Total Hours of Data Collected:</b>                   | 38.00 hours       |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min    |
| <b>Contaminant Permit Limit:</b>                        | 35.0000 mg/m3     |
| <b>Minimum Hourly Average Test Result:</b>              | 18.300 mg/m3      |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 12, 2014    |
| <b>Maximum Hourly Average Test Result:</b>              | 28.500 mg/m3      |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 13, 2014    |
| <b>Average of Test Results Over the Quarter:</b>        | 26.661 mg/m3      |
| <b>98th Percentile Value:</b>                           | 28.500 mg/m3      |
| <b>Data Recovery:</b>                                   | 100.000 %         |
| <b>Comments:</b>  |                   |

| <b>06A - Power boiler #6</b>                            |                   |
|---|-------------------|
| <b>Nitrogen Oxides</b>                                  |                   |
| <b>Test Date Range:</b>                                 | April 1 - June 30 |
| <b>Total Hours of Data Collected:</b>                   | 5.00 hours        |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min    |
| <b>Contaminant Permit Limit:</b>                        | 52.0000 mg/m3     |
| <b>Minimum Hourly Average Test Result:</b>              | 13.500 mg/m3      |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 09, 2014    |
| <b>Maximum Hourly Average Test Result:</b>              | 44.000 mg/m3      |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 09, 2014    |
| <b>Average of Test Results Over the Quarter:</b>        | 25.340 mg/m3      |
| <b>98th Percentile Value:</b>                           | 42.664 mg/m3      |
| <b>Data Recovery:</b>                                   | 100.000 %         |
| <b>Comments:</b>  |                   |
| <b>06B - Power boiler #6</b>                            |                   |
| <b>Nitrogen Oxides</b>                                  |                   |
| <b>Test Date Range:</b>                                 | April 1 - June 30 |
| <b>Total Hours of Data Collected:</b>                   | 5.00 hours        |
| <b>Permitted Flow Limit:</b>                            | 7600.00 m3/min    |
| <b>Contaminant Permit Limit:</b>                        | 35.0000 mg/m3     |
| <b>Minimum Hourly Average Test Result:</b>              | 9.600 mg/m3       |
| <b>Date/Time of Minimum Hourly Average Test Result:</b> | April 09, 2014    |
| <b>Maximum Hourly Average Test Result:</b>              | 12.600 mg/m3      |
| <b>Date/Time of Maximum Hourly Average Test Result:</b> | April 09, 2014    |
| <b>Average of Test Results Over the Quarter:</b>        | 11.080 mg/m3      |
| <b>98th Percentile Value:</b>                           | 12.560 mg/m3      |
| <b>Data Recovery:</b>                                   | 100.000 %         |
| <b>Comments:</b>  |                   |