



## Hamilton Air Monitoring Network - PAH Report

### STN29547 - PAH - Pier 25, Hamilton

| PAH Parameter          | 09-Jan-19 | 21-Jan-19   | 02-Feb-19 | 14-Feb-19 | 26-Feb-19 | 10-Mar-19 | 22-Mar-19 | 03-Apr-19   | 15-Apr-19   | 27-Apr-19   | 09-May-19 | 21-May-19 | 02-Jun-19 | 14-Jun-19   | 26-Jun-19   |
|------------------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|-------------|-----------|-----------|-----------|-------------|-------------|
| BENZO(A)ANTHRACENE     | 0.72      | 1.18        | 0.09      | 0.05      | 0.19      | 0.09      | 1.03      | 1.21        | 1.26        | 1.64        | 0.07      | 0.49      | 0.95      | 1.10        | 0.81        |
| CHRYSENE               | 1.14      | 2.83        | 0.27      | 0.05      | 0.37      | 0.14      | 1.56      | 2.57        | 2.13        | 2.49        | 0.12      | 0.60      | 1.32      | 1.66        | 0.99        |
| BENZO(B)FLUORANTHENE   | 1.07      | 2.37        | 0.27      | 0.07      | 0.25      | 0.07      | 2.15      | 2.80        | 2.39        | 3.20        | 0.12      | 0.92      | 1.14      | 2.65        | 1.46        |
| BENZO(K)FLUORANTHENE   | 0.43      | 0.91        | 0.14      | 0.07      | 0.14      | 0.07      | 0.85      | 1.03        | 1.19        | 1.39        | 0.05      | 0.41      | 0.56      | 1.19        | 0.72        |
| BENZO(A)PYRENE (B[a]P) | 0.67      | <b>1.12</b> | 0.11      | 0.05      | 0.13      | 0.21      | 1.10      | <b>1.32</b> | <b>1.27</b> | <b>2.18</b> | 0.08      | 0.55      | 0.78      | <b>1.45</b> | <b>1.11</b> |
| INDENO(123CD)PYRENE    | 0.61      | 1.29        | 0.32      | 0.05      | 0.17      | 0.13      | 1.28      | 1.56        | 1.71        | 2.03        | 0.07      | 0.70      | 0.51      | 1.56        | 0.93        |
| DIBENZO(A,H)ANTHRACENE | 0.12      | 0.20        | 0.11      | 0.05      | 0.03      | 0.04      | 0.20      | 0.22        | 0.29        | 0.34        | 0.05      | 0.05      | 0.05      | 0.16        | 0.07        |
| BENZO(GH)PERYLENE      | 0.57      | 1.14        | 0.43      | 0.09      | 0.25      | 0.24      | 1.20      | 1.50        | 1.39        | 1.56        | 0.05      | 0.56      | 0.45      | 1.36        | 0.87        |

| PAH Parameter          | 08-Jul-19 | 20-Jul-19 | 01-Aug-19 | 13-Aug-19 | 25-Aug-19 | 06-Sep-19 | 18-Sep-19 | 30-Sep-19 | 12-Oct-19   | 24-Oct-19 | 05-Nov-19   | 17-Nov-19 | 29-Nov-19 | 11-Dec-19   | 23-Dec-19 |  |            |            |            |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|-----------|-----------|-------------|-----------|--|------------|------------|------------|
|                        |           |           |           |           |           |           |           |           |             |           |             |           |           |             |           |  | <b>Ave</b> | <b>Max</b> | <b>Min</b> |
| BENZO(A)ANTHRACENE     | 0.07      | 0.25      | 0.05      | 0.07      | 0.05      | 0.05      | 0.13      | 0.05      | 2.31        | 0.96      | 1.79        | 0.05      | 0.06      | 2.92        | 0.63      |  | 0.68       | 2.92       | 0.05       |
| CHRYSENE               | 0.11      | 0.36      | 0.06      | 0.11      | 0.05      | 0.06      | 0.20      | 0.07      | 2.79        | 1.09      | 2.36        | 0.11      | 0.13      | 5.72        | 0.98      |  | 1.08       | 5.72       | 0.05       |
| BENZO(B)FLUORANTHENE   | 0.14      | 0.60      | 0.10      | 0.17      | 0.05      | 0.06      | 0.19      | 0.06      | 2.98        | 1.32      | 2.46        | 0.09      | 0.11      | 4.07        | 0.74      |  | 1.14       | 4.07       | 0.05       |
| BENZO(K)FLUORANTHENE   | 0.05      | 0.26      | 0.05      | 0.07      | 0.05      | 0.12      | 0.11      | 0.05      | 1.64        | 0.42      | 1.50        | 0.05      | 0.06      | 2.34        | 0.39      |  | 0.54       | 2.34       | 0.05       |
| BENZO(A)PYRENE (B[a]P) | 0.07      | 0.38      | 0.04      | 0.14      | 0.05      | 0.05      | 0.12      | 0.03      | <b>2.61</b> | 1.01      | <b>1.91</b> | 0.05      | 0.08      | <b>3.53</b> | 0.64      |  | 0.76       | 3.53       | 0.03       |
| INDENO(123CD)PYRENE    | 0.03      | 0.31      | 0.05      | 0.07      | 0.05      | 0.09      | 0.16      | 0.03      | 1.33        | 0.64      | 1.89        | 0.09      | 0.09      | 3.42        | 0.56      |  | 0.72       | 3.42       | 0.03       |
| DIBENZO(A,H)ANTHRACENE | 0.05      | 0.13      | 0.05      | 0.05      | 0.06      | 0.11      | 0.10      | 0.05      | 0.26        | 0.11      | 0.26        | 0.03      | 0.05      | 0.41        | 0.08      |  | 0.13       | 0.41       | 0.03       |
| BENZO(GH)PERYLENE      | 0.05      | 0.40      | 0.05      | 0.11      | 0.02      | 0.12      | 0.14      | 0.05      | 1.03        | 0.51      | 1.68        | 0.05      | 0.05      | 3.41        | 0.49      |  | 0.66       | 3.41       | 0.02       |

Measurement units : ng/m<sup>3</sup>  
 Minimum detection limit (MDL) : 0.1 ng/m<sup>3</sup>  
 Reported values < 0.1 ng/m<sup>3</sup> : Target compound meets identification criteria but is < MDL  
 Reported '0.00' values : Analyte not detected  
 B[a]P 24 Hour AAQC : 0.05 ng/m<sup>3</sup>  
 B[a]P 24 Hour Reference Level : 1.10 ng/m<sup>3</sup>  
 B[a]P O.Reg 419/05 URT 24 Hour Objective : 5.00 ng/m<sup>3</sup>  
 B[a]P AAQC Annual arithmetic mean : 0.01 ng/m<sup>3</sup>

|  |           |
|--|-----------|
| Number of Sample Dates                 | 30        |
| Number of Valid Samples                | 30        |
| Percent Valid Data (%)                 | 100.0     |
| Maximum 24 Hr B[a]P                    | 3.53      |
| Number of Samples > 24 Hour B[a]P AAQC | <b>24</b> |
| Number of Samples > B[a]P Ref. Level   | <b>9</b>  |
| Number of Samples > B[a]P URT          | <b>0</b>  |
| Annual B[a]P Arithmetic Mean           | 0.76      |

**Note:** " --- " indicates invalid sample