



Clean Air Sarnia and Area - PAH Results

Station: Aamjiwnaang First Nation
Data Updated: 27-May-20

Sample Matrix: Teflon
Method: GC/MS

| Parameter | B[a]A | | Chry | | B[b]F | | B[k]F | | B[a]P | | I[1,2,3]P | | D[a,h]A | | B[g,h,i]P | |
|-----------|-------------------|-----------|-------------------|-----------|----------------------|-----------|----------------------|-----------|-------------------|-----------|------------------------|-----------|-----------------------|-----------|----------------------|-----------|
| | Benz[a]anthracene | | Chrysene | | Benzo[b]fluoranthene | | Benzo[k]fluoranthene | | Benzo[a]Pyrene | | Indeno[1,2,3-cd]Pyrene | | Dibenz[a,h]Anthracene | | Benzo[g,h,i]perylene | |
| Units | ng/m ³ | | ng/m ³ | | ng/m ³ | | ng/m ³ | | ng/m ³ | | ng/m ³ | | ng/m ³ | | ng/m ³ | |
| | Concentration | Data Flag | Concentration | Data Flag | Concentration | Data Flag | Concentration | Data Flag | Concentration | Data Flag | Concentration | Data Flag | Concentration | Data Flag | Concentration | Data Flag |
| 09-Jan-19 | 0.025 | <MDL | 0.039 | | 0.062 | | 0.029 | | 0.025 | <MDL | 0.048 | | 0.025 | <MDL | 0.048 | |
| 21-Jan-19 | 0.078 | | 0.185 | | 0.226 | | 0.101 | | 0.12 | | 0.157 | | 0.025 | | 0.164 | |
| 02-Feb-19 | 0.026 | | 0.073 | | 0.146 | | 0.046 | | 0.044 | | 0.073 | | 0.025 | <MDL | 0.087 | |
| 14-Feb-19 | 0.025 | <MDL | 0.046 | | 0.086 | | 0.029 | | 0.037 | | 0.058 | | 0.025 | <MDL | 0.073 | |
| 26-Feb-19 | 0.038 | | 0.088 | | 0.113 | | 0.046 | | 0.052 | | 0.07 | | 0.025 | <MDL | 0.084 | |
| 10-Mar-19 | 0.025 | <MDL | 0.034 | | 0.048 | | 0.025 | <MDL | 0.026 | | 0.046 | | 0.025 | <MDL | 0.067 | |
| 22-Mar-19 | 0.028 | | 0.051 | | 0.082 | | 0.031 | | 0.036 | | 0.051 | | 0.025 | <MDL | 0.066 | |
| 03-Apr-19 | 0.025 | | 0.049 | | 0.072 | | 0.031 | | 0.05 | | 0.063 | | 0.025 | <MDL | 0.084 | |
| 15-Apr-19 | 0.025 | <MDL | 0.034 | | 0.069 | | 0.025 | | 0.025 | <MDL | 0.035 | | 0.025 | <MDL | 0.042 | |
| 27-Apr-19 | 0.025 | <MDL | 0.025 | <MDL | 0.032 | | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.028 | |
| 09-May-19 | 0.025 | <MDL | 0.025 | <MDL | 0.034 | | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL |
| 21-May-19 | 0.025 | <MDL | 0.036 | | 0.081 | | 0.035 | | 0.025 | | 0.051 | | 0.025 | <MDL | 0.06 | |
| 02-Jun-19 | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL |
| 14-Jun-19 | 0.025 | <MDL | 0.025 | <MDL | 0.034 | | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.027 | |
| 26-Jun-19 | 0.025 | <MDL | 0.035 | | 0.069 | | 0.026 | | 0.025 | <MDL | 0.029 | | 0.025 | <MDL | 0.04 | |
| 08-Jul-19 | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF |
| 20-Jul-19 | 0.025 | <MDL | 0.034 | | 0.054 | | 0.025 | <MDL | 0.025 | | 0.025 | | 0.025 | <MDL | 0.031 | |
| 01-Aug-19 | 0.025 | <MDL | 0.033 | | 0.039 | | 0.025 | <MDL | 0.025 | <MDL | 0.027 | | 0.025 | <MDL | 0.038 | |
| 13-Aug-19 | 0.025 | <MDL | 0.029 | | 0.042 | | 0.025 | <MDL | 0.027 | | 0.056 | | 0.025 | <MDL | 0.064 | |
| 25-Aug-19 | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL |
| 06-Sep-19 | 0.025 | <MDL | 0.025 | <MDL | 0.037 | | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.031 | |
| 18-Sep-19 | 0.025 | <MDL | 0.025 | <MDL | 0.031 | | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.025 | <MDL | 0.038 | |
| 30-Sep-19 | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF | | NDIF |
| 12-Oct-19 | 0.025 | <MDL | 0.027 | | 0.05 | | 0.025 | <MDL | 0.025 | <MDL | 0.036 | | 0.025 | <MDL | 0.043 | |
| 24-Oct-19 | 0.025 | <MDL | 0.031 | | 0.061 | | 0.027 | | 0.033 | | 0.056 | | 0.025 | <MDL | 0.075 | |
| 05-Nov-19 | 0.034 | | 0.043 | | 0.102 | | 0.048 | | 0.086 | | 0.12 | | 0.025 | <MDL | 0.149 | |
| 17-Nov-19 | 0.03 | | 0.071 | | 0.166 | | 0.059 | | 0.057 | | 0.103 | | 0.025 | <MDL | 0.106 | |
| 29-Nov-19 | 0.025 | <MDL | 0.027 | | 0.048 | | 0.025 | <MDL | 0.025 | <MDL | 0.029 | | 0.025 | <MDL | 0.031 | |
| 11-Dec-19 | 0.031 | | 0.049 | | 0.117 | | 0.05 | | 0.063 | | 0.119 | | 0.025 | <MDL | 0.135 | |
| 23-Dec-19 | 0.065 | | 0.08 | | 0.245 | | 0.097 | | 0.132 | | 0.197 | | 0.037 | | 0.218 | |

| | | | | | | | | | | | | | | | | |
|----------------------|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|
| No. of valid samples | 28 | | 28 | | 28 | | 28 | | 28 | | 28 | | 28 | | 28 | |
| Maximum | 0.078 | | 0.185 | | 0.245 | | 0.101 | | 0.132 | | 0.197 | | 0.037 | | 0.218 | |
| Minimum | 0.025 | | 0.025 | | 0.025 | | 0.025 | | 0.025 | | 0.025 | | 0.025 | | 0.025 | |
| 24-hour AAQC | n/a | | n/a | | n/a | | n/a | | 0.05 | | n/a | | n/a | | n/a | |
| No. > 24-hour AAQC | n/a | | n/a | | n/a | | n/a | | 6 | | n/a | | n/a | | n/a | |

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|------|------------------------------|
| <MDL | Below detection limit |
| NDIF | No data; invalid filter |
| NDIV | Invalid sample |
| NDEF | Laboratory equipment failure |