



Annual | 2025

Hamilton Air Monitoring Network 2025 Annual

Air Quality Monitoring Report

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SECTION 1 - OVERVIEW

Executive Summary

Since May 1st, 2003, the industrial air shed monitoring network in the City of Hamilton has been operated, serviced and maintained by the Hamilton Air Monitoring Network (HAMN). HAMN is a group of industries that are committed to the ongoing measurement of local air quality as part of the Ministry of the Environment, Conservation and Parks (MECP) industrial Source Emissions Monitoring (SEM) program.

HAMN has successfully completed its 22nd year of operation and has consecutively collected >97% valid data. HAMN has contributed approximately \$885,000 in upgrading the network with new stations and state-of-the-art air monitoring equipment.

Individual companies participating in the MECP SEM program are required to submit an annual summary report of their air quality monitoring results obtained during the previous calendar year. This annual report is submitted by HAMN on behalf of the members.

This report contains an overview of the HAMN network, historical trends for major air pollutants and an explanation of the roles and responsibilities of HAMN and the MECP in the SEM program. The complete 2025 monitoring results are provided in a separate appendix to this report.

Some of the highlights of this report include:

- There were 315 exceedances of the 10 minute Sulphur Dioxide (SO₂) AAQC, 179 exceedances at STN29102 and 136 at STN29667.
- There were 285 exceedances of the 1 hour Sulphur Dioxide (SO₂) AAQC, 191 exceedances at STN29102 and 94 at STN29667.
- STN29102 exceeded the SO₂ AAQC annual average of 0.004 ppm.
- There were 18 exceedances of the Total Reduced Sulphur (TRS) 1 hour clock odour threshold of 10 ppb, 17 at STN29102 and 1 at STN29168. There were 9 exceedances of the 24 hour TRS Standard of 4 ppb at STN29102.
- There were no exceedances of Nitrogen Dioxide (NO₂) AAQC or Oxides of Nitrogen (NO_x) Standards.
- Based on the location of the air monitoring stations and their proximity to local sources, it is evident that road dust and fugitive emissions continue to be major contributors which elevate ambient particulate levels.
- Annual concentrations of Inhalable Particulate (PM₁₀) have remained consistent over the past several years. PM₁₀ levels continue to exceed the 24 hour interim Ambient Air Quality Criterion (AAQC) of 50 µg/m³.
- There were 58 exceedances of Respirable Particulate (PM_{2.5}) Reference Level of 27 µg/m³, 10 at STN29102, 14 at STN29153, 14 at STN29168, 13 at STN29180 and 7 at STN29667.
- The annual Total Suspended Particulate (TSP) AAQC of 60 µg/m³ was not exceeded at any station. The average of the 3 industry sites used for trend graphing was 48.0 µg/m³.
- None of the Benzo[a]Pyrene (BaP) sampling sites met the annual Standard of 0.01 ng/m³. There were 76 exceedances of the 24 hour AAQC of 0.05 ng/m³. There was 1 exceedance of the 24 hour Upper Risk Threshold (URT) limit of 5.00 ng/m³ at STN29547.
- None of the Benzene sampling sites met the annual Standard of 0.45 µg/m³. There were 16 exceedances of the 24 hour AAQC limit of 2.3 µg/m³, 6 at STN29102, 5 at STN29180 and 5 at STN29667. There were no exceedances of the 24 hour URT limit of 100 µg/m³.
- There were 15 exceedances of the 24 hour AAQC for Manganese of 0.4 µg/m³, 4 at STN29180, and 11 at STN29667. There were no exceedances of the 24 hour URT limit of 4.0 µg/m³.

Hamilton Air Monitoring Network Overview

Since May 1st, 2003, the point source air monitoring network in the City of Hamilton has been funded, operated, serviced and maintained by the Hamilton Air Monitoring Network (HAMN).

The Hamilton industrial area is made up of various industrial sectors including integrated iron and steel plants, chemical producers, manufacturing facilities and several recycling facilities. With the close proximity of these facilities to each other and the complexity of meteorological conditions, assessing sources of industrial emissions has always been a difficult task.

HAMN represents participating industries that are committed to conducting air quality monitoring as part of the MECP's SEM program. The SEM program is designed to identify, monitor and report the levels of target pollutants near industrial facilities.

Table 1 – HAMN Participating Industries

ArcelorMittal Dofasco G.P.	Lafarge Canada - Jones Road
Bartek Ingredients	Lafarge Hamilton Slag
Baycoat Ltd.	Rain Carbon Canada
Birla Carbon	Stelco - Hamilton Works
Bunge Canada	GFL Environmental Inc.
HARSCO (at ArcelorMittal Dofasco)	Triple M Metal LP

Annual Report Overview

Companies participating in the MECP's SEM program are required to submit an annual summary report of their air quality monitoring results obtained during the previous calendar year. This annual report is submitted by HAMN on behalf of the members. This report summarizes HAMN's 2025 air quality data as per the MECP's reporting requirements and includes an overview of the network, historical trends, data statistics, and an explanation of the roles and responsibilities of HAMN and the MECP in the SEM program.

The MECP performs regular audits of HAMN activities and processes related to the collection of air quality data under the MECP SEM program. The audits provide an indication of the effectiveness of quality control activities used by station operators and data management staff. The overall valid data recovery and audit success rates continue to surpass ministry criteria.

Public Web Based Data Access

Since June 1st, 2009, the HAMN website has been available to the general public. Current and historical hourly data from all real time continuous analyzers can be accessed at www.hamnair.ca. In addition, non-continuous air quality data such as Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAH) and Total Suspended Particulate (TSP) are available. The website provides general information on network operations, HAMN structure, funding, and the MECP's role in HAMN. The website also provides a detailed description of contaminants measured and sampling methodologies. HAMN annual reports are posted online.

SECTION 2 - AIR QUALITY SUMMARY DATA POLLUTANT TRENDS

An important tool used for air pollution data analysis is the evaluation of pollutant trends. Data collected from the HAMN air monitoring sites are summarized and illustrated in the following 'historical trend' graphs. Trend analysis is a useful approach to examine how a pollutant behaves over time. Some data trend categories include the following:

- **Hourly Data** How a given pollutant behaves during an average day.
- **Monthly Data** How a given pollutant behaves during an average month.
- **Seasonal Data** How a given pollutant behaves during a specific season.
- **Annual Data** How a given pollutant behaves during the course of the year.
- **Historical Data** How data behaves over several years.

These analyses help in assessing the impacts of emission reduction initiatives, deciding where to deploy monitors and gauging the effectiveness of provincial pollution abatement and control legislation.

The following graphs and bar charts provide annual trends for the pollutants monitored at selected monitoring locations. Figure 29 in Appendix 4 provides the locations of the individual monitoring stations.

A summary table for each pollutant (if applicable) is provided indicating:

- Maximum 1 Hr Average Value
- Maximum 24 Hr Average Value
- Number of Events over the 10 Minute Standard
- Number of Events over the ½ Hr Standards and Upper Risk Thresholds (URT)
- Number of Events over the 1 Hr AAQCs and Standards
- Number of Days over the 24 Hr AAQCs, Standards and URT
- Annual Mean
- Percent Valid Data

Data for 2025 are available in Appendix 7 "2025 Summary Statistics and Data Set".

Air Quality Monitoring – Sulphur Dioxide

Characteristics

Sulphur Dioxide (SO₂) belongs to the family of Sulphur Oxide gases (SO_x). These gases dissolve easily in water. Sulphur is prevalent in many raw materials including crude oil, coal, and ores that contain common metals like aluminum, copper, zinc, lead and iron. SO_x gases are formed when fuels containing sulphur, such as coal or oil, are burned, when gasoline is extracted from oil or when metals are processed from sulfide ores. SO₂ dissolves in water vapour to form an acid which interacts with other gases and particles in the air to form sulphate particulates and other products that can be harmful to people and the environment.

Sources of SO₂ include industrial facilities that derive their products from raw materials like metallic ore, coal, and crude oil, or that utilize coal or oil to produce or process heat. Examples include steel industries, electric utilities, petroleum refineries, cement manufacturing and metal processing facilities.

Ontario Criteria for SO₂ are:

10 min running average (AAQC)	0.067 ppm
½ hour running average (URT)	0.300 ppm
1 hour running average (AAQC & Standard)	0.040 ppm
1 hour running average (URT)	0.250 ppm
annual average (AAQC & Standard)	0.004 ppm

There were multiple exceedances of both the 10 minute and 1 hour AAQC and Standards at both stations.

There were no exceedances of the ½ hour URT or 1 hour URT (Upper Risk Threshold).

In 2025, the annual mean for STN29102 was 0.006 ppm compared to 0.003 ppm at STN29667.

STN29102 exceeded the annual average criteria.

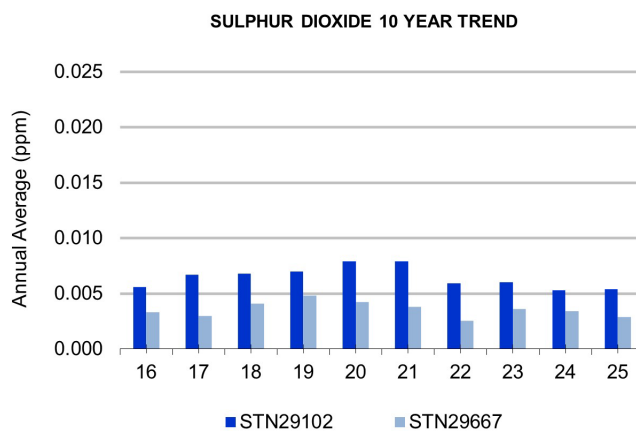


Figure 1

Annual average SO₂ trend over the past 10 years from STN29102 and STN29667.

Figure 2

Monthly SO₂ trends for 2025.

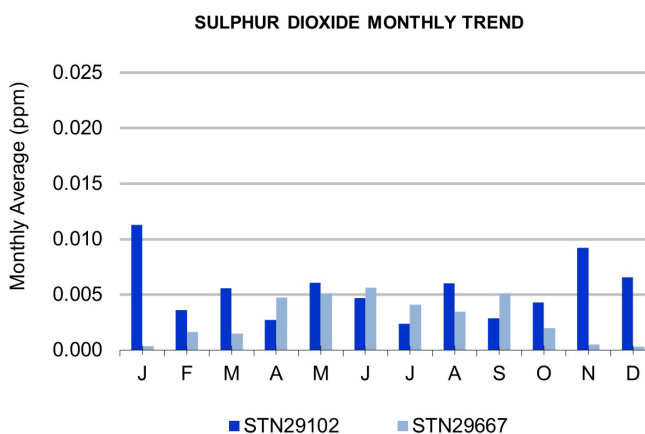
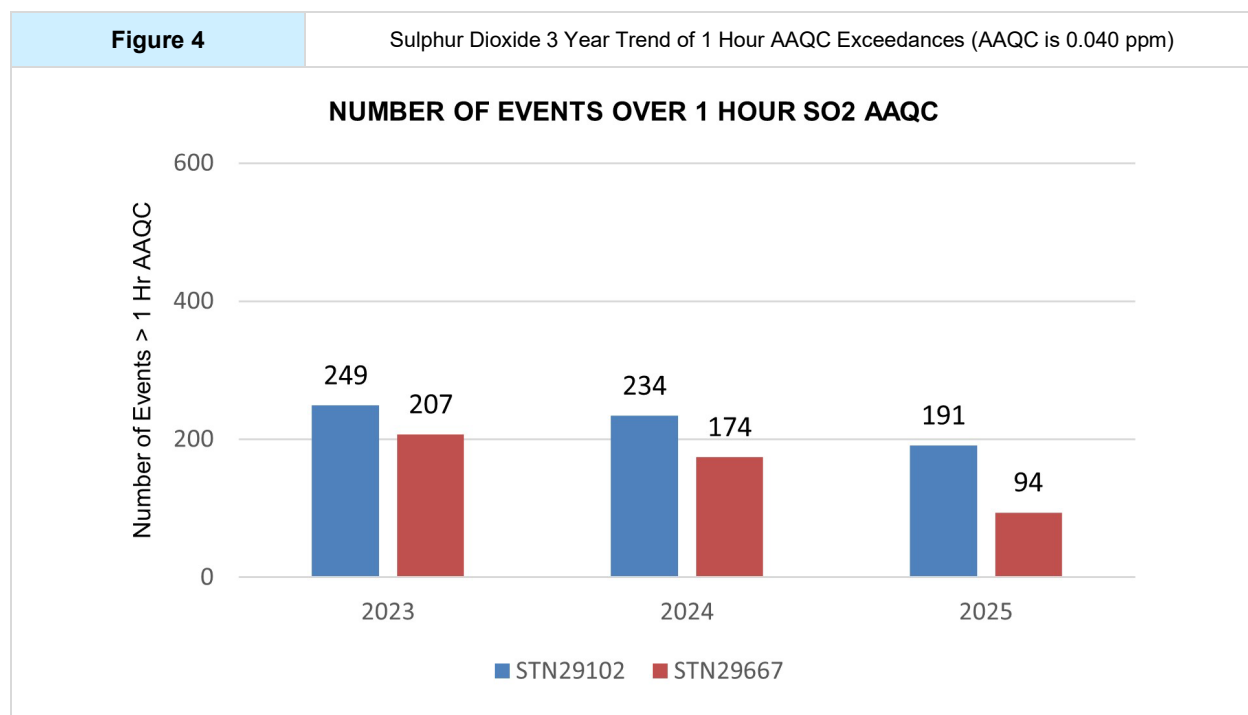
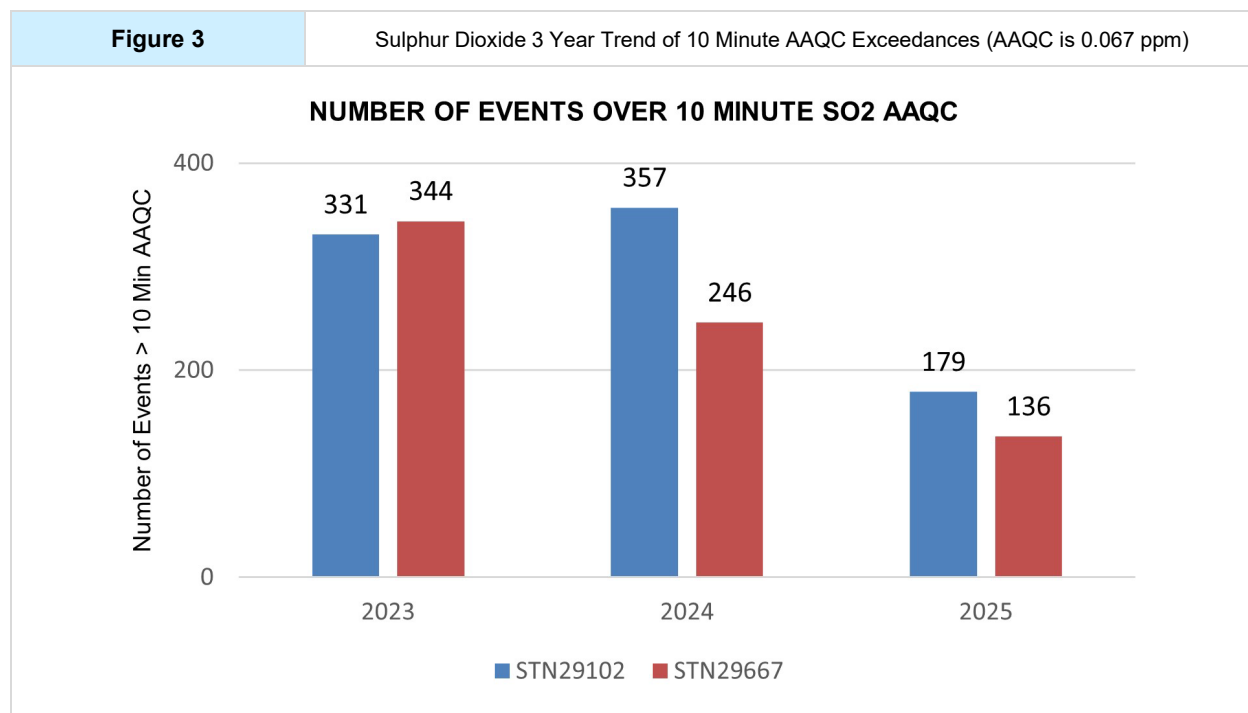


Table 2 Sulphur Dioxide Statistics								
Station	Maximum 10 Min Running Average	Maximum 1 Hr Running Average	Events > 10 Min AAQC	Events > 1 Hr AAQC & Standard	Events > ½ Hr URT	Events > 1 Hr URT	Annual Mean	Percent Valid Data
	ppm	ppm					ppm	
STN29102	0.122	0.109	179	191	0	0	0.006	93.9
STN29667	0.161	0.097	136	94	0	0	0.003	94.1

Figure 3 represents the number of 10 Minute SO₂ AAQC exceedances (effective 2023) over a 3 year trend. Figure 4 represents the number of 1 Hour SO₂ AAQC exceedances over a 3 year trend.



Air Quality Monitoring – Total Reduced Sulphur (TRS)

Characteristics

Total Reduced Sulphur (TRS) is a term used for a class of compounds that have offensive odours similar to rotten eggs; these compounds are a common basis for odour complaints. Common sources of TRS compounds are the steel industry (coke ovens and blast furnace releases), and pulp and paper mills. TRS compounds are not normally considered a health hazard except at very high concentrations.

There are currently no annual standards or criteria for TRS. Interpreting long term trends can be challenging or misleading because the majority of measurements are recorded at or below detection limits. The significance of TRS trends and impacts are best assessed at shorter averaging periods (i.e. 10 min for odour and 24 hrs for health).

The reportable odour threshold (RT) for TRS is 10 parts per billion (ppb).

Ontario Criteria for TRS are:

10 min running average (Standard)	9 ppb
1 hour clock odour threshold (RT)	10 ppb
24 hour running average (Standard)	4 ppb
½ hour running average (URT)	143 ppb
24 hour running average (URT)	48 ppb

In 2025, there were 17 hours over the 10 ppb odour threshold at STN29102 and 1 at STN29168. There were 9 events over the 24 hour Standard of 4 ppb at STN29102.

There were no exceedances of the ½ hour or 24 hour URT (Upper Risk Threshold).

The TRS annual averages were 1.0 ppb at STN29102, 0.3 ppb at STN29168 and 0.4 ppb at STN29667.

STN29163 was decommissioned December 31, 2023.

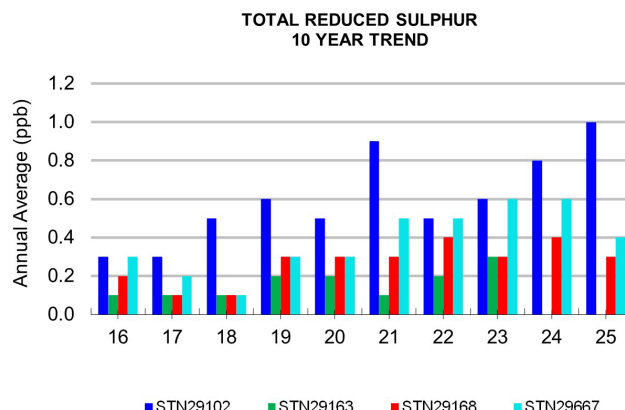


Figure 5

Annual average TRS trend over the past 10 years.

Figure 6

Annual number of hours over the odour threshold of 10 ppb for the past 10 years.

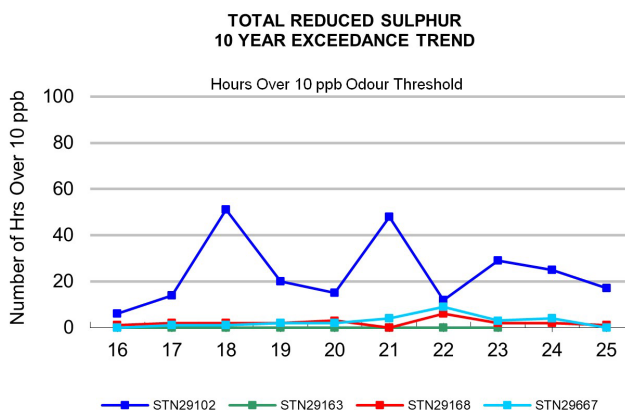


Table 3 Total Reduced Sulphur Statistics

Station	Maximum 10 Min Running Average	Maximum ½ Hr Running Average	Maximum 1 Hr Clock Average	Maximum 24 Hr Running Average	Events > 10 Min Standard	Events > 1 Hr RT	Events > 24 Hr Standard	Events > ½ Hr URT	Events > 24 Hr URT	Annual Mean	Percent Valid Data
	ppb	ppb	ppb	ppb						ppb	
STN29102	44.0	36.6	20.9	5.4	397	17	9	0	0	1.0	93.7
STN29168	37.1	23.2	14.2	1.5	38	1	0	0	0	0.3	99.0
STN29667	19.5	12.8	7.9	2.2	32	0	0	0	0	0.4	94.1

Air Quality Monitoring – Oxides of Nitrogen (NO_x)

Characteristics

Oxides of Nitrogen (NO_x) is the generic term used for a group of highly reactive gases, all of which contain nitrogen and oxygen in varying amounts. The MECP lists criteria for NO_x as Oxides of Nitrogen which is defined as the sum of Nitrogen Oxide and Nitric Dioxide (NO + NO₂). Nitric Oxide (NO) is a colorless and odourless gas which is emitted from combustion sources. Nitrogen Dioxide (NO₂) is a reddish brown gas that causes the brown layer commonly seen over many urban areas.

Oxides of Nitrogen form when air is heated to over 675°C, usually during combustion processes. The primary man-made sources of NO_x are motor vehicles as well as sources that burn fuels (commercial, residential or industrial). NO_x can also be formed naturally by lightning. Emissions of NO_x consist mainly of NO and to a lesser extent NO₂. In the atmosphere NO is converted to NO₂ by oxidation. NO_x causes a wide variety of health and environmental impacts.

Ontario Criteria for NO_x are:

1 hour running average (Standard)	0.261 ppm
24 hour running average (Standard)	0.131 ppm

There were no exceedances of the NO_x Standards.

The NO_x annual average at STN29102 was 0.013 ppm and 0.015 ppm at STN29667.

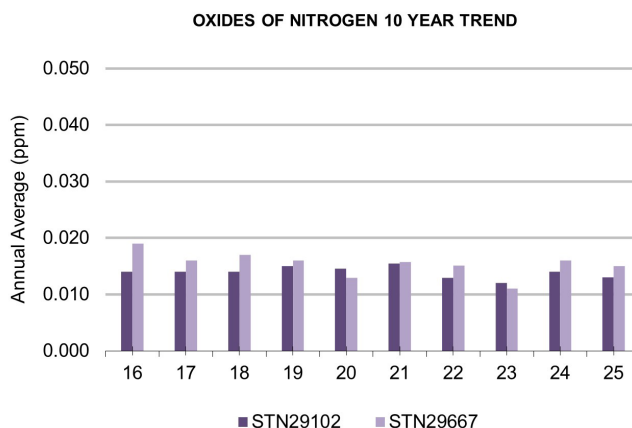


Figure 7

Annual average NO_x trend over the past 10 years.

Figure 8

Monthly NO_x trends for 2025.

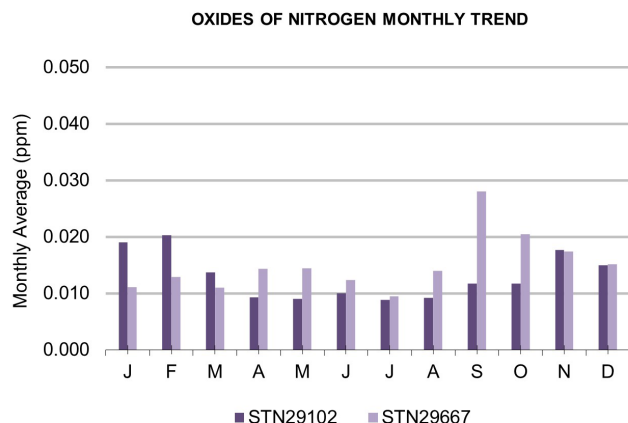


Table 4 Oxides of Nitrogen Statistics						
Station	Maximum 1 Hr Running Average	Maximum 24 Hr Running Average	Events > 1 Hr Standard	Events > 24 Hr Standard	Annual Mean	Percent Valid Data
	ppm	ppm			ppm	
STN29102	0.127	0.046	0	0	0.013	93.7
STN29667	0.158	0.058	0	0	0.015	93.7

Air Quality Monitoring – Nitrogen Dioxide (NO₂)

Characteristics

Nitrogen Dioxide (NO₂) is a reddish-brown gas with a pungent and irritating odour. It transforms in the air to form gaseous nitric acid and toxic organic nitrates. NO₂ also plays a major role in atmospheric reactions that produce ground-level ozone, a major component of smog. It is a precursor to nitrates, which contribute to increased respirable particle levels in the atmosphere. The MECP lists criteria for NO₂ because it causes a wide variety of health and environmental impacts.

All combustion in air produces Oxides of Nitrogen (NO_x), of which NO₂ is a component.

Ontario Criteria for NO₂ are:

1 hour running average (AAQC)	0.200 ppm
24 hour running average (AAQC)	0.100 ppm

There were no exceedances of the NO₂ AAQCs.

The NO₂ annual average at STN29102 was 0.010 ppm and 0.011 ppm at STN29667.

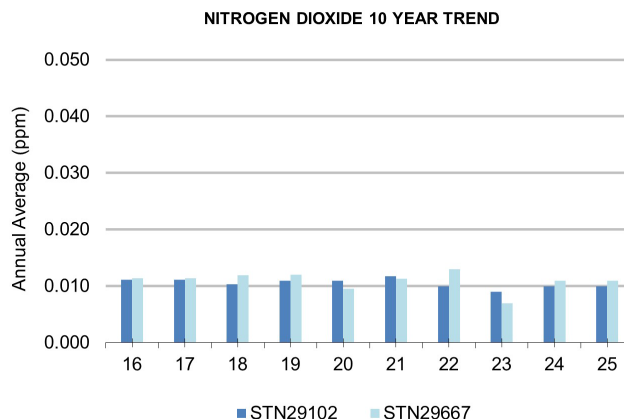


Figure 9

Annual average NO₂ trend over the past 10 years.

Figure 10

Monthly NO₂ trends for 2025.

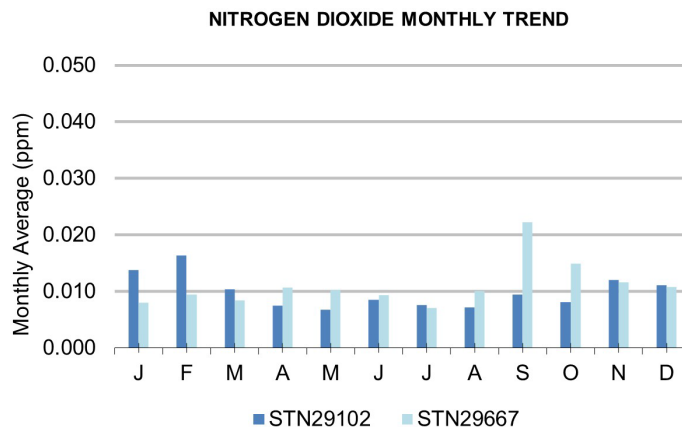


Table 5 Nitrogen Dioxide Statistics						
Station	Maximum 1 Hr Running Average	Maximum 24 Hr Running Average	Events > 1 Hr AAQC	Events > 24 Hr AAQC	Annual Mean	Percent Valid Data
	ppm	ppm			ppm	
STN29102	0.064	0.039	0	0	0.010	93.7
STN29667	0.061	0.052	0	0	0.011	93.7

Air Quality Monitoring – Total Suspended Particulate (TSP)

Characteristics

Total Suspended Particulate (TSP) includes all particulate material smaller than 44 µm (44 micrometres or 44 microns) in diameter. Some particles such as dust, dirt, soot, or smoke are large or dark enough to be seen with the naked eye. The largest TSP particles have diameters similar to the diameter of a human hair (about 50 µm) while others are so small they can only be detected using an electron microscope.

A substantial portion of TSP is related to transportation, industrial activities, road dusts, agricultural dusts and other sources of airborne soils.

Ontario Criteria for TSP are:

24 hour clock average (AAQC) 120 µg/m³
annual geometric mean (AAQC) 60 µg/m³

The TSP values in Figure 11 illustrate the geometric means from 3 industrial monitoring sites and are representative of the impacts experienced by those communities bordering on the industrial area. In 2025, the average of the 3 industry sites (STN29102, STN29180 and STN29667) was 48.0 µg/m³.

Table 6 summarizes statistics for 5 TSP monitoring sites. No station exceeded the annual objective of 60 µg/m³.

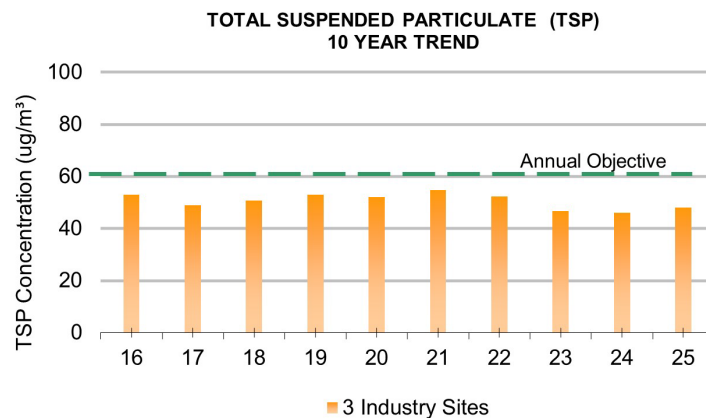


Figure 11

Network annual geometric average TSP trend over the past 10 years.

Figure 12

Number of events over 24 hour TSP AAQC per station.

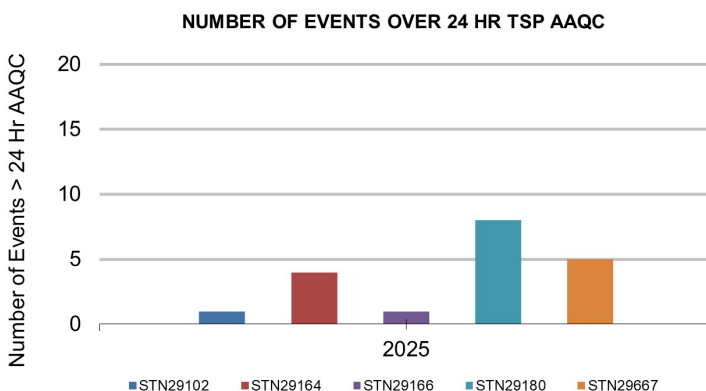


Table 6 Total Suspended Particulate Statistics

Station	Number of Valid Samples	Maximum 24 Hr Clock Average	Events > 24 Hr AAQC	Annual Geometric Mean	Percent Valid Data
		µg/m ³		µg/m ³	
STN29102	61	154	1	42	100.0
STN29164	59	152	4	56	96.7
STN29166	61	136	1	44	100.0
STN29180	61	166	8	57	100.0
STN29667	57	330	5	45	93.4

Air Quality Monitoring – Metals in Total Suspended Particulate (TSP)

Characteristics

Airborne particulate matter has a mixture of components, including metals, sulphates and nitrates. Exposure to metals in the air is capable of causing human health effects but the degree of concern about human and environmental health varies with each metal. Some metals are toxic. Others are known to be essential micronutrients for humans and animals. Cadmium, Chromium, Iron, Copper, Lead, Manganese, Nickel and Vanadium are routinely analyzed in TSP. Manganese and Lead are common air pollutants, emitted mainly as a result of industrial activity and vehicle emissions.

Ontario Criteria for Lead (Pb) are:

24 hour clock average (AAQC)	0.5 µg/m ³
24 hour clock average (URT)	2.0 µg/m ³

Ontario Criteria for Manganese (Mn) are:

24 hour clock average (AAQC)	0.4 µg/m ³
24 hour clock average (URT)	4.0 µg/m ³

Ontario Criteria for Nickel (Ni) are:

24 hour clock average (AAQC)	0.2 µg/m ³
24 hour clock average (URT)	2.0 µg/m ³

Figure 13 illustrates the average Manganese concentrations from 5 industry sites.

There were 15 exceedances of the 24 hour AAQC for Manganese, 4 at STN29180 and 11 at STN29667.

There were no exceedances of the 24 hour AAQC for Lead or Nickel.

There were no exceedances of the 24 hour URT limit for Manganese, Lead or Nickel.

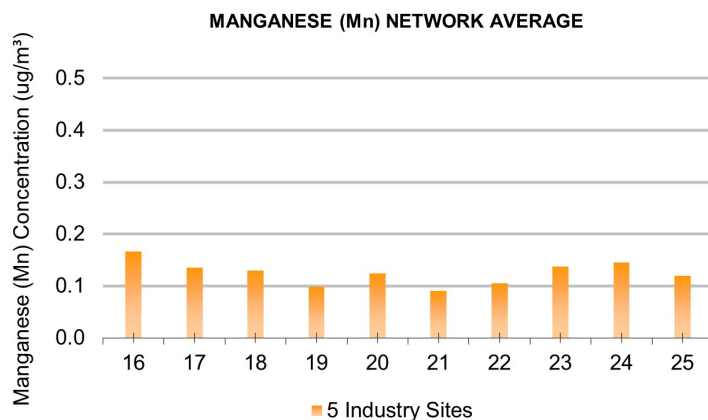


Figure 13

Network annual average Mn trend over the past 10 years.

Figure 14

Number of Mn events over the 24 hour AAQC per station.

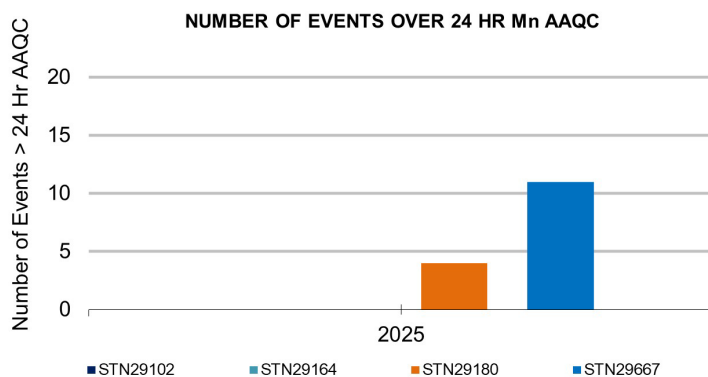


Table 7	Metals Statistics									
Station	Maximum 24 Hr Clock Average Pb	Maximum 24 Hr Clock Average Mn	Maximum 24 Hr Clock Average Ni	Events > 24 Hr AAQC Pb	Events > 24 Hr AAQC Mn	Events > 24 Hr AAQC Ni	Events > 24 Hr URT Pb	Events > 24 Hr URT Mn	Events > 24 Hr URT Ni	Percent Valid Data
	µg/m ³									
STN29102	0.02	0.357	0.02	0	0	0	0	0	0	100.0
STN29164	0.04	0.291	0.02	0	0	0	0	0	0	96.7
STN29180	0.04	0.556	0.02	0	4	0	0	0	0	100.0
STN29667	0.02	0.804	0.01	0	11	0	0	0	0	95.1

Air Quality Monitoring – Inhalable Particulate Matter (PM₁₀)

Characteristics

Particulate Matter (PM) is a complex mixture of extremely small particles and liquid droplets. PM is made up of a number of components including acids (such as nitrates and sulphates), organic chemicals, metals and soil or dust particles.

The size of particles is directly linked to their potential for causing health problems. There is concern about particles that are 10 micrometers in diameter or smaller (PM₁₀) because they can enter the lungs. Once inhaled, these particles can affect the heart and lungs causing serious health effects.

Primary particles are emitted directly from sources such as construction sites, unpaved roads, fields, smokestacks or fires. Other particles are formed in complex reactions in the atmosphere from gases such as SO₂ and NO_x that are emitted from power plants, industries and automobiles.

Ontario Criterion for PM₁₀ is:

24 hour running average (AAQC) 50 µg/m³

Figure 15 represents the network annual average PM₁₀ trend over the past 10 years.

Figure 16 represents the 2025 annual PM₁₀ means from each station. Annual means ranged from 18 to 28 µg/m³.

Figure 17 represents the annual trend for each station over the past 7 years.

STN29170 was decommissioned in 2021, therefore no annual statistics are available.

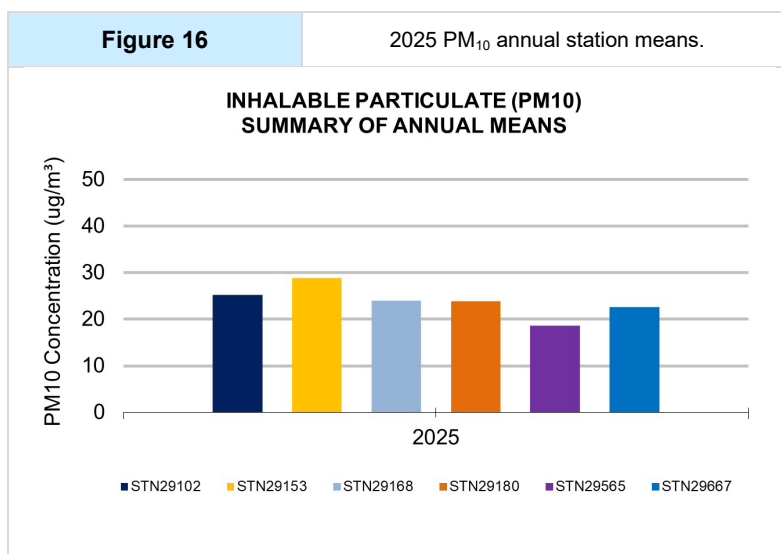
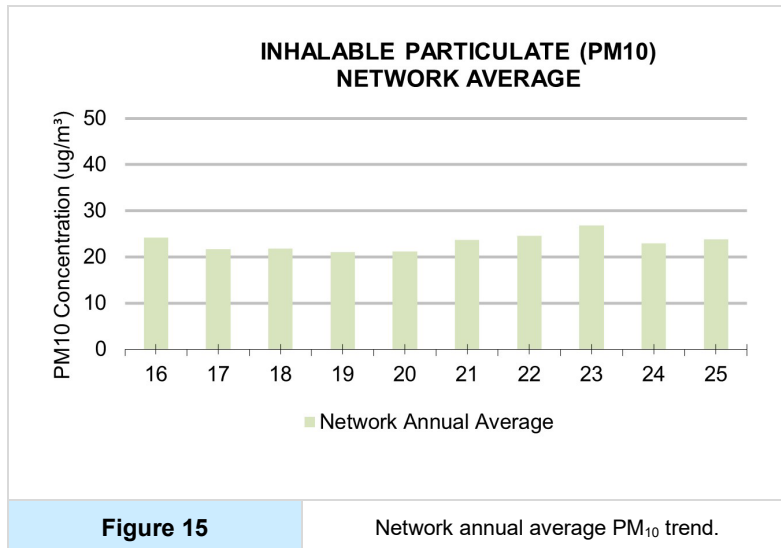


Figure 17 Annual average PM₁₀ trends by station.

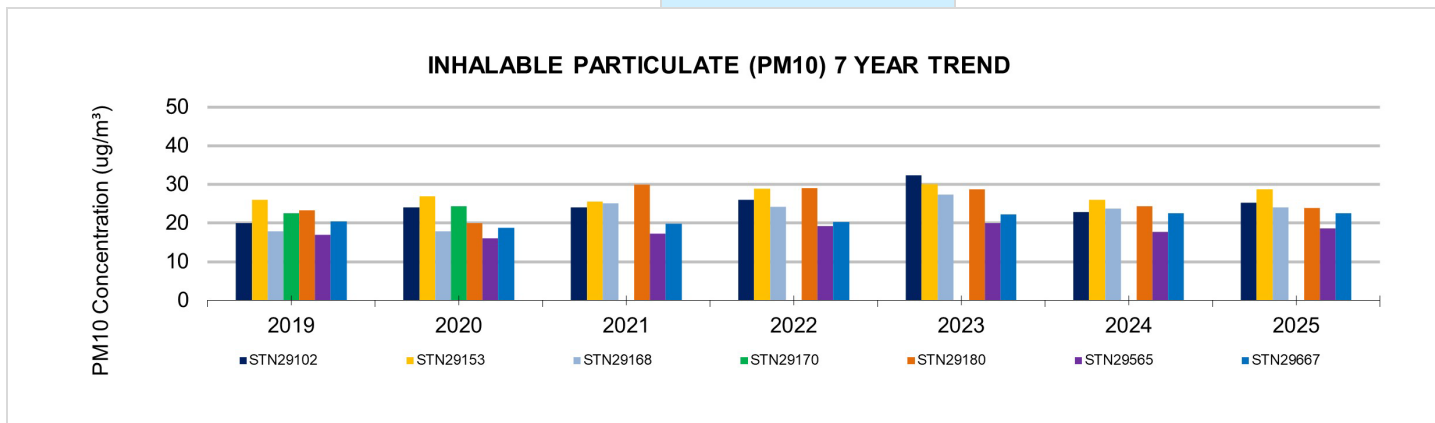


Figure 18 shows the number of 24 hour PM₁₀ AAQC exceedances in each month of 2025. STN29153 recorded the highest number of events (35) over the year.

Table 8 provides statistics on data collected from the continuous PM₁₀ monitors in the network.

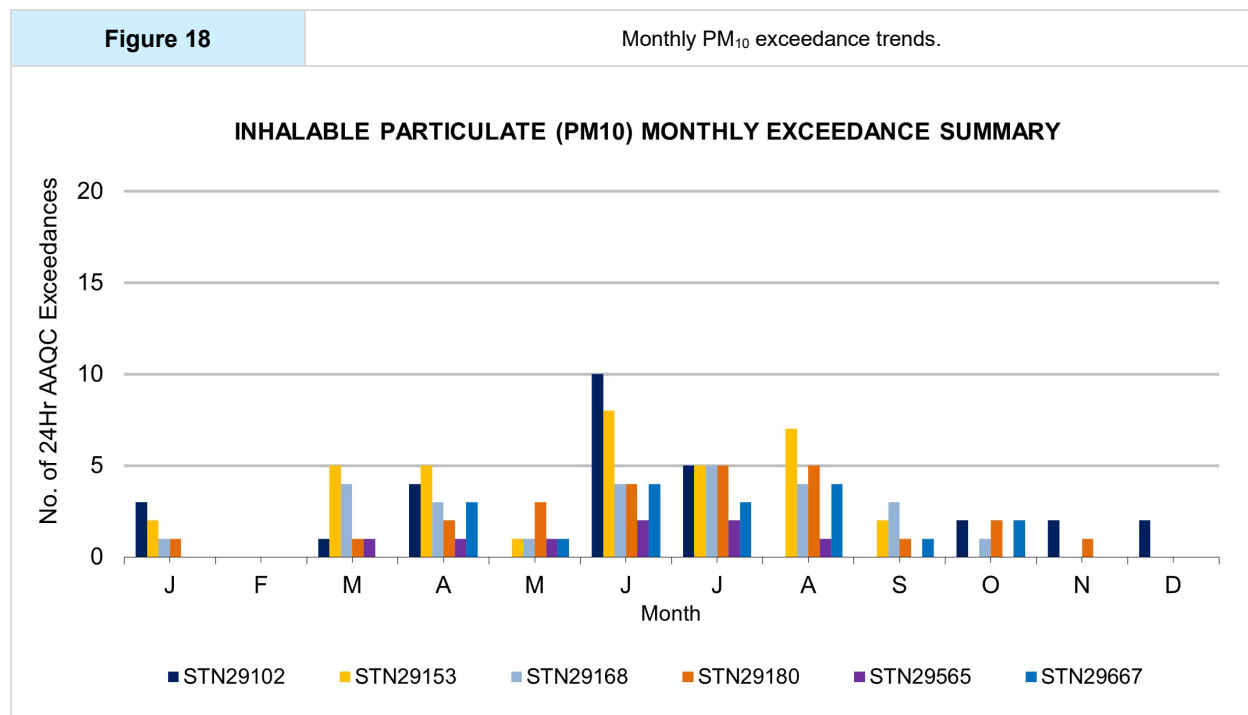


Table 8	Inhalable Particulate Matter Statistics				
Station	Maximum 1 Hr Clock Average	Maximum 24 Hr Running Average	Events > 24 Hr AAQC	Annual Mean	Percent Valid Data
	µg/m ³	µg/m ³		µg/m ³	
STN29102	621	149	29	25	90.0
STN29153	223	116	35	29	98.0
STN29168	720	103	26	24	99.0
STN29180	262	106	25	24	99.6
STN29565	670	100	8	19	98.8
STN29667	390	132	18	22	94.5

Air Quality Monitoring – Respirable Particulate Matter (PM_{2.5})

Characteristics

Particulate matter is characterized according to size, mainly because of the different health effects associated with particles of different diameters. Particulate matter is the general term used for a mixture of solid particles and liquid droplets in the air. It includes aerosols, smoke, fumes, dust, ash and pollen. The composition of particulate matter varies with place, season and weather conditions. Fine particulate matter is 2.5 microns in diameter and less. It is also known as PM_{2.5} or respirable particulate because it penetrates further into the respiratory system than larger particles.

PM_{2.5} is primarily formed from chemical reactions in the atmosphere and through fuel combustion, e.g. motor vehicles, power generation, industrial facilities, residential fire places, wood stoves and agricultural burning.

Some studies suggest that approximately 75% of PM_{2.5} emissions in Hamilton can be attributed to transboundary sources.

Ontario Criterion for PM_{2.5} is:

24 hour clock average (Ref Level) 27 µg/m³

The MECP Reference Level (Ref Level) of 27 µg/m³ is based on the Canadian Ambient Air Quality Standard (CAAQS).

There were 58 exceedances of the 24 hour Reference Level, 10 at STN29102, 14 at STN29153, 14 at STN29168, 13 at STN29180 and 7 at STN29667.

Figure 19 shows monthly PM_{2.5} trends.

Figure 20 shows the Annual Means at all five stations.

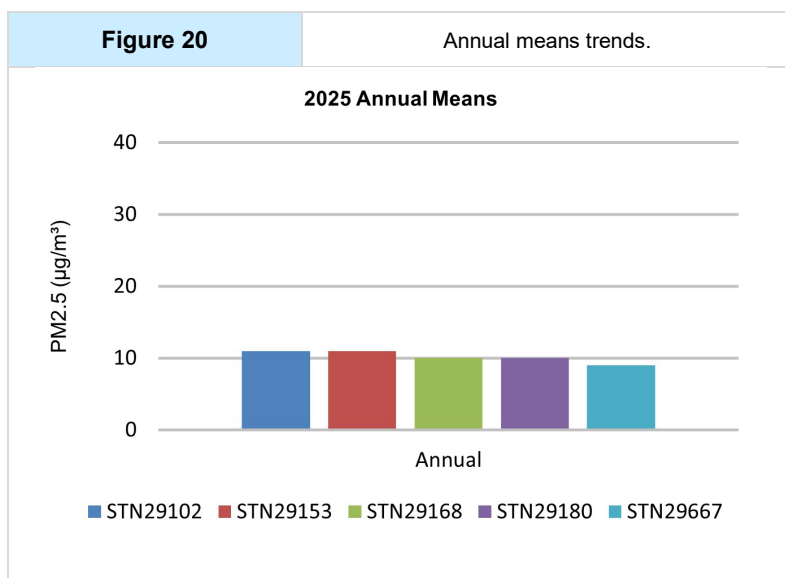
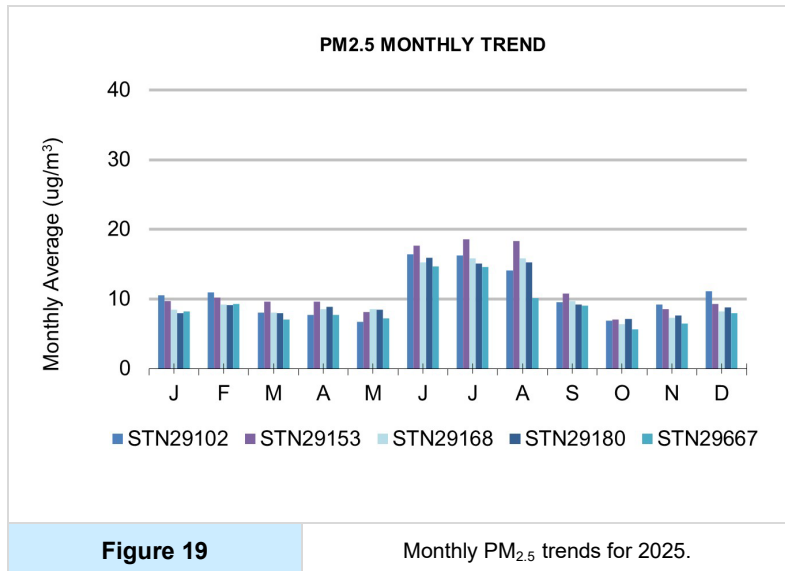


Table 9 Respirable Particulate Matter Statistics					
Station	Maximum 1 Hr Clock Average	Maximum 24 Hr Clock Average	Events > 24 Hr Ref Level	Annual Mean	Percent Valid Data
	µg/m ³	µg/m ³		µg/m ³	
STN29102	104	72	10	11	90.0
STN29153	120	81	14	11	98.0
STN29168	113	70	14	10	99.0
STN29180	106	68	13	10	99.6
STN29667	101	61	7	9	94.5

Air Quality Monitoring – Polycyclic Aromatic Hydrocarbons (PAH)

Characteristics

Benzo[a]Pyrene (BaP) is a compound representative of a class of chemicals called Polycyclic Aromatic Hydrocarbons (PAH). PAH are present in the atmosphere predominantly in particulate form. A less significant formation mechanism is the volatilization of lightweight polycyclic organic matter, which occurs in the production and use of naphthalene. BaP is a known carcinogen and is produced by the combustion of carbonaceous fuels (gasoline, diesel fuel, wood, coal, etc.) and tobacco.

The principal source of BaP in Hamilton is coke oven emissions. Improvements made to the coke oven operations have led to dramatic reductions (65-85% since the mid-1990's) in the ambient BaP levels near and away from industry.

A scan of 8 PAH compounds are routinely analyzed, however, only BaP has Ontario criteria.

Ontario Criteria for Benzo[a]Pyrene are:

24 hour clock average (AAQC)	0.05 ng/m ³
24 hour clock average (URT)	5.00 ng/m ³
24 hour reference level	1.10 ng/m ³
annual average (AAQC)	0.01 ng/m ³

The 24 hour AAQC of 0.05 ng/m³ is below the current analytical method detection limit. The previous AAQC of 1.10 ng/m³ is used for historical comparison purposes.

There were 17 exceedances of the 24 hour Reference Level of 1.10 ng/m³. 5 at STN29180, 5 at STN29547 and 7 at STN29667.

There was 1 exceedance of the 5.00 ng/m³ URT at STN29547.

None of the stations met the annual average BaP AAQC of 0.01 ng/m³.

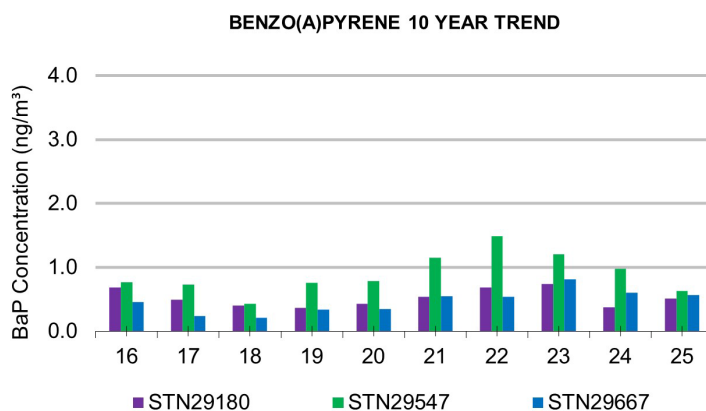


Figure 21

Annual average BaP trends over the past 10 years for STN29180, STN29547 and STN29667.

Figure 22

Number of events exceeding the BaP 24 hour Reference Level of 1.10 ng/m³.

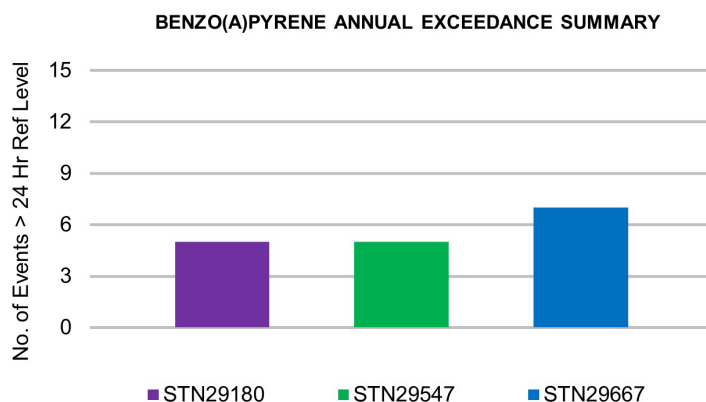


Table 10 Benzo[a]Pyrene (BaP) Statistics

Station	Number of Valid Samples	Maximum 24 Hr Clock Average	Events > 24 Hr AAQC	Events > 1.10 ng/m ³ 24 Hr Ref Level	Events > 24 Hr URT	Annual Mean	Percent Valid Data
		ng/m ³				ng/m ³	
STN29180	31	1.90	27	5	0	0.51	100.0
STN29547	31	6.46	25	5	1	0.63	100.0
STN29667	31	2.65	24	7	0	0.57	100.0

Air Quality Monitoring – Volatile Organic Compounds (VOC)

Characteristics

Volatile Organic Compounds (VOCs) consist of various compounds including Benzene. Benzene is a volatile organic compound that has been classified as a human carcinogen. The main sources of Benzene are transportation, steel industry, petroleum distribution and refining, forest fires and wood combustion.

Industrial Benzene emissions arise primarily from the coke ovens and the associated by-products in the steel industry.

Ontario Criteria for Benzene are:

24 hour clock average (AAQC)	2.3 µg/m ³
24 hour clock average (URT)	100 µg/m ³
annual average (AAQC)	0.45 µg/m ³

Figure 23 represents annual averages for Benzene over the past 10 years.

Figure 24 illustrates annual exceedance summary of the Benzene 24 hour (AAQC).

There were 16 exceedances of the 24 hour AAQC of 2.3 µg /m³, 6 at STN29102, 5 at STN29180 and 5 at STN29667.

There were no exceedances of the URT.

None of the stations met the annual AAQC of 0.45 µg/m³.

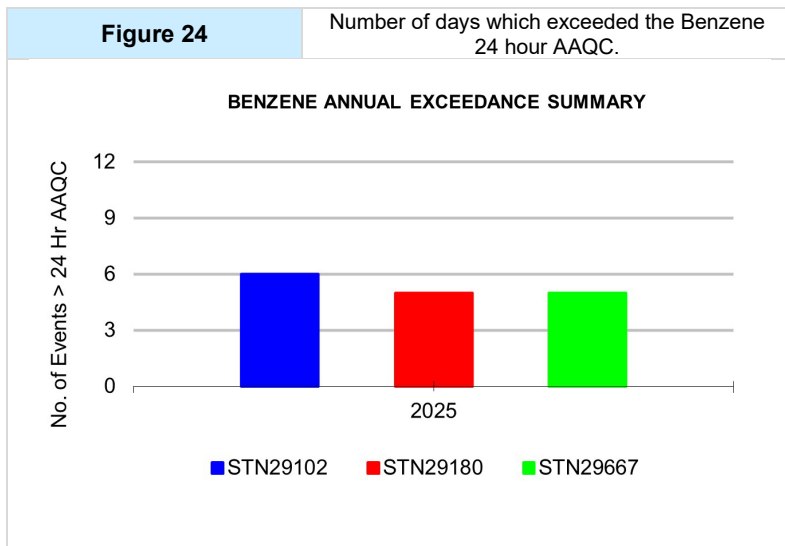
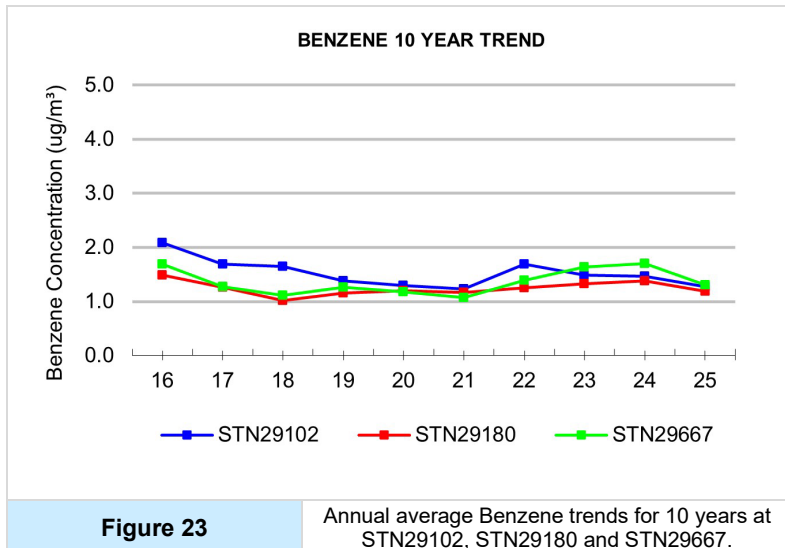


Table 11 Volatile Organic Compounds Benzene Statistics						
Station	Number of Valid Samples	Maximum 24 Hr Clock Average	Events > 24 Hr AAQC	Events > 24 Hr URT	Annual Mean	Percent Valid Data
		µg/m ³			µg/m ³	
STN29102	31	3.16	6	0	1.27	100.0
STN29180	31	3.89	5	0	1.19	100.0
STN29667	29	3.28	5	0	1.31	93.5

Appendix 1

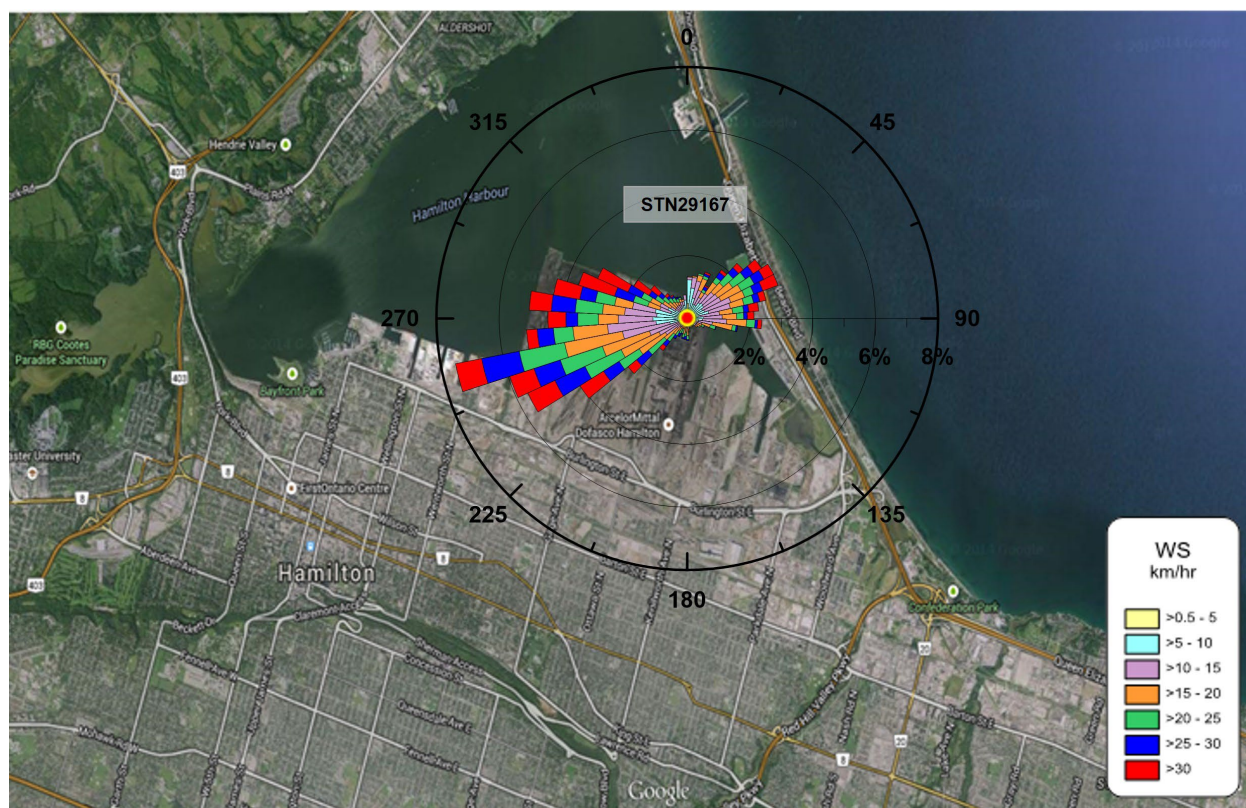
Wind Frequency Distribution 2025 Wind Rose

A wind rose, which is developed from meteorological observations, is used to show predominant wind speed and direction. Wind roses vary from one location to the next, and are a form of meteorological fingerprint. Figure 25 overlays an annual wind rose from meteorological station STN29167 superimposed on an aerial view of the Hamilton area.

Wind roses summarize the occurrence of winds at a specific location, showing their strength, direction and frequency. Each branch of the rose represents wind coming from that direction, with north to the top of the graphic. The branches are divided into segments of different colours, which represent wind speed ranges from that direction. The length of each segment within a branch is proportional to the frequency of winds blowing within the corresponding range of speeds from that direction. Wind directions are always characterized by the direction from which the wind blew.

The annual wind rose illustration for STN29167 indicates a predominant wind direction vector of southwest to northwest with some contribution from the east-northeast.

2025 Annual Wind Rose – Figure 25



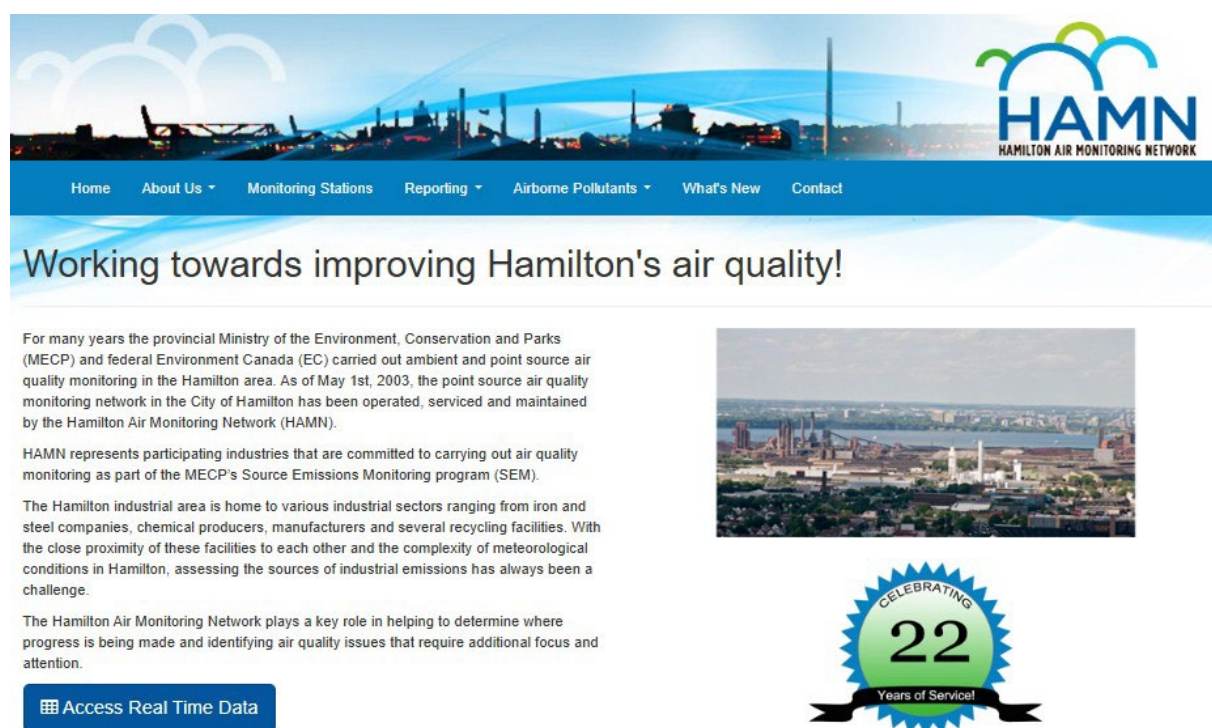
Appendix 2

Activities and Progress

Hamilton Air Monitoring Network (HAMN) Website

On June 1st, 2009, the HAMN website was made available to the general public. An upgraded website was launched on January 1st, 2017. Current and historical data from real time continuous analyzers and non-continuous data can be accessed through the website at www.hamnair.ca. The website provides general information on network operations such as HAMN structure, contaminants measured, sampling methods, funding, and the MECP's role in HAMN. The website also provides public access to annual reports. In 2025, HAMN was supported by 12 companies that provided funding to support and operate the network.

HAMN Website Home Page - Figure 26

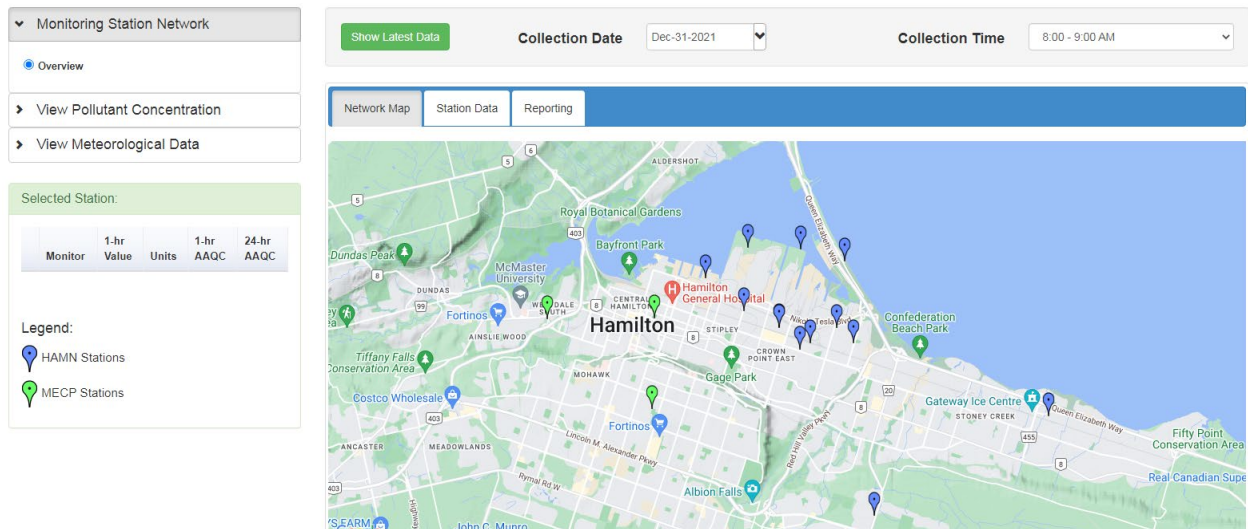


The main focus of the website is to provide access to real time data for HAMN members, MECP staff and the general public. Data is available from all continuous analyzers such as Sulphur Dioxide (SO₂), Total Reduced Sulphur (TRS), Oxides of Nitrogen (NO, NO₂, NO_x), Inhalable Particulates (PM₁₀) and Respirable Particulates (PM_{2.5}). There is also a compilation of non-continuous sampler measurements (e.g., VOC, PAH, TSP and metal data). Data is available for a number of meteorological stations that provide wind speed, wind direction and temperature.

Monitoring Station Network Overview - Figure 27

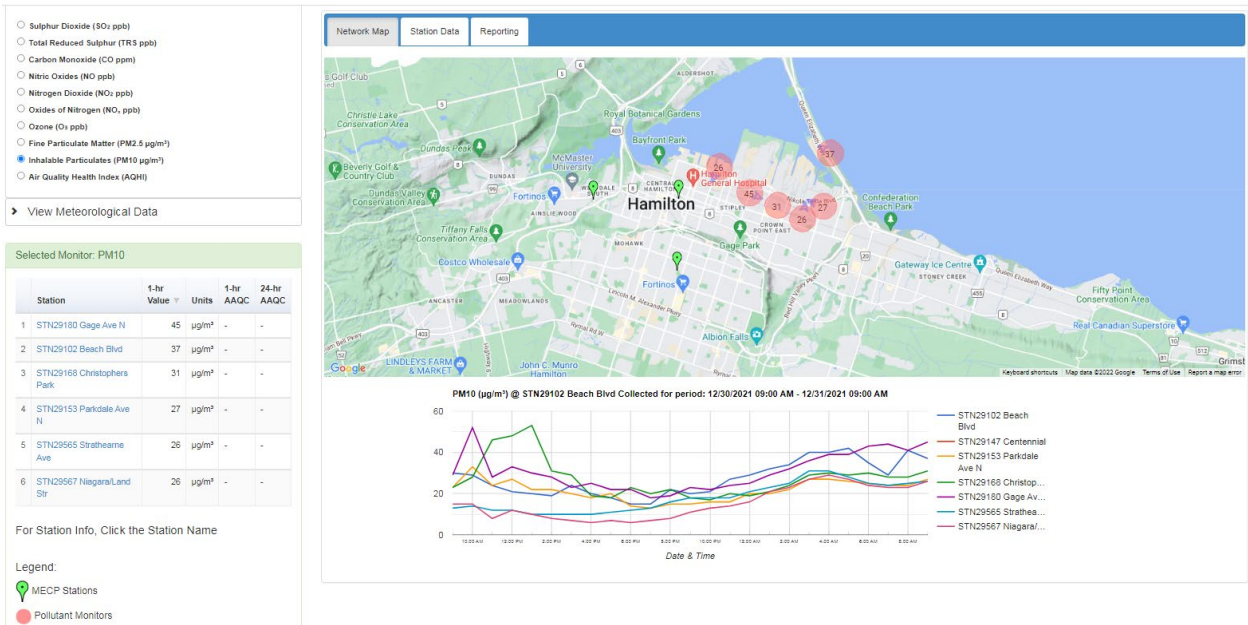


Hamilton Air Monitoring Network Reporting



A series of simplified graphical and tabular displays make near real time and historical data easily accessible. A number of report formats are available for data viewing and assessments.

Real Time Data Overview - Figure 28



Enhancements to the Network Monitoring Program

In 2025 a new PM₁₀/PM_{2.5} monitor was commissioned at STN29667 (Wentworth North) at a cost of \$29k.

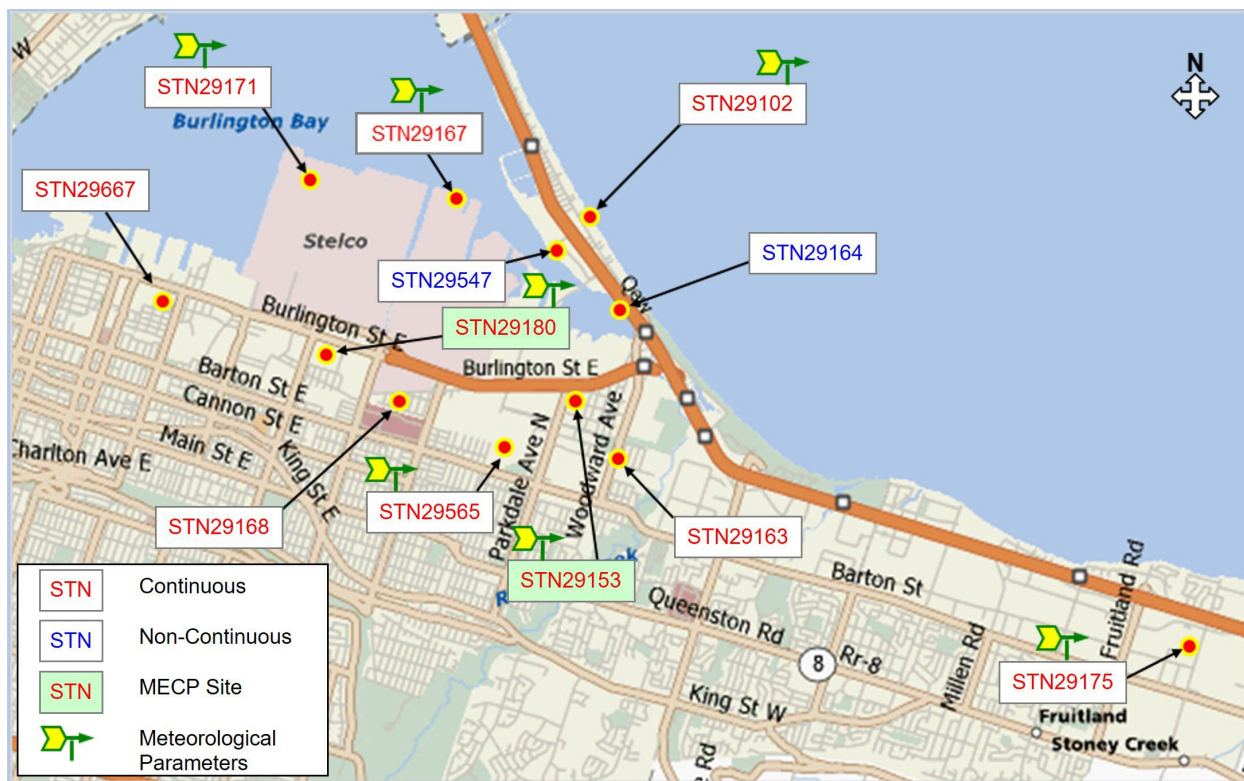
Appendix 3		Legend
QA/QC	-	Quality Assurance/Quality Control
SEM	-	Source Emissions Monitoring
HAMN	-	Hamilton Air Monitoring Network
AAQC	-	Ambient Air Quality Criteria (Ontario)
EST	-	Eastern Standard Time
MECP	-	Ministry of the Environment, Conservation and Parks
NO	-	Nitric Oxide
NO₂	-	Nitrogen Dioxide
NO_x	-	Oxides of Nitrogen
PM₁₀	-	Inhalable Particulates less than 10 microns in diameter
PM_{2.5}	-	Respirable Particulates less than 2.5 microns in diameter
SO₂	-	Sulphur Dioxide
TSP	-	Total Suspended Particulate
TRS	-	Total Reduced Sulphur
VOCs	-	Volatile Organic Compounds
PAH	-	Polycyclic Aromatic Hydrocarbons
BaP	-	Benzo[a]Pyrene
MDL	-	Minimum Detection Limit
ng/m³	-	Nanograms (of contaminant) Per Cubic Meter (of air)
µg/m³	-	Micrograms (of contaminant) Per Cubic Meter (of air)
ppb	-	Parts (of contaminant) Per Billion (parts of air)
ppm	-	Parts (of contaminant) Per Million (parts of air)
Mn	-	Manganese
Fe	-	Iron
Continuous	-	Continuous 'Real Time' Monitoring
Non-Continuous	-	24 Hr samples collected on a 6 or 12 day schedule
URT	-	Upper Risk Threshold
RT	-	Reportable Threshold

Appendix 4

Where We Measure Air Quality Data in Hamilton

For many years the MECP and Environment and Climate Change Canada (ECCC) carried out routine ambient monitoring in the Hamilton area. Since May 2003 HAMN's industrial air quality monitoring program has been responsible for collecting and reporting accurate, real time continuous measurements of ambient pollutants at several sites located around the industrial area (Figure 29). These pollutants include Sulphur Dioxide (SO₂), Total Reduced Sulphur (TRS), Oxides of Nitrogen (NO_x), Inhalable Particulate Matter (PM₁₀) and Respirable Particulate Matter (PM_{2.5}). Sampling site labels with a weather vane icon are sites equipped with meteorological sensors. As well, there are 12 non-continuous air monitoring samplers in the HAMN network that collect data every 6th or 12th day on a rotating schedule. These samplers monitor such pollutants as Total Suspended Particulates (TSP), Volatile Organic Compounds (VOCs), Polycyclic Aromatic Hydrocarbons (PAH) and Metals. Table 12 identifies the parameters monitored at each site.

Hamilton Air Monitoring Network Map - Figure 29



Data generated are used to monitor air quality in and around the industrial area and determine which areas meet and/or exceed applicable O. Reg 419/05 standards, AAQCs, URTs, and ministry guidelines in order to develop pollution trends. The HAMN program encompasses operation of the sampling and monitoring network, laboratory analysis of air samples, and quality assurance activities to ensure the quality of the data collected.

HAMN provides the MECP with real time access to continuous air monitoring data and submits quarterly and annual data summary reports of all continuous and non-continuous air monitoring data. HAMN provides immediate notification of AAQC, Standards and URT exceedances. The MECP has real time data access to the air quality information to assist them with abatement programs and complaint investigations.

HAMN Air Monitoring Network Configuration

Network Configuration – Table 12

Parameter	SO ₂	TRS	NO _X	PM ₁₀	PM _{2.5}	TSP	VOCs	PAH	MET
						Metals			
STN29102	◆	◆	◆	◆	◆	○	○		◆
STN29153				◆	◆				◆
STN29164						○			
STN29166						○			
STN29167									◆
STN29168		◆		◆	◆				
STN29171									◆
STN29175									◆
STN29180				◆	◆	○	○	○	◆
STN29547								○	
STN29565				◆					◆
STN29667	◆	◆	◆	◆	◆	○	○	○	◆

◆ Continuous ○ Non-Continuous

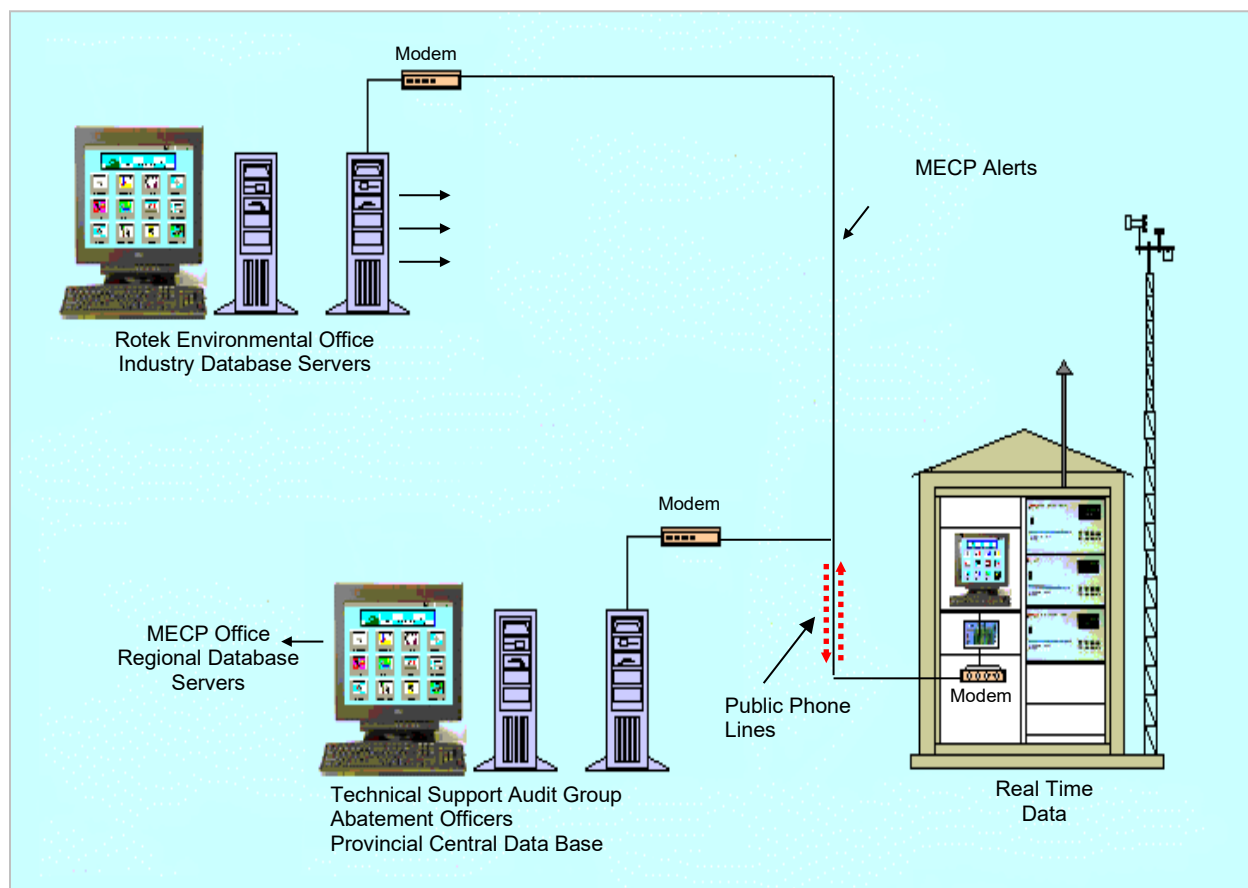
How We Measure Air Quality Data

Network data is used to provide HAMN members and the MECP with accurate air quality information. The continuous monitoring sites in the network include instruments that measure ambient levels of gaseous and particulate air pollutants, and in some cases, meteorological parameters. The data signals from these analyzers and sensors must be averaged, digitized and processed according to detailed MECP guidelines for collecting air quality monitoring data. Figure 30 illustrates the real time movement of data to both industry and MECP servers.

Telemetry System

Data that is received by HAMN operated servers is utilized for troubleshooting and rectifying network anomalies, generating reports, implementing QA/QC protocols and notifying both MECP and industry personnel of exceedances and/or unusual air quality events. The MECP database provides for real time oversight of network operations to ensure compliance with defined protocols and provides immediate access to daily pollutant trends for tracking of abatement program initiatives.

Telemetry System - Figure 30



Appendix 5

Ministry of the Environment, Conservation and Parks (MECP) Role in HAMN

In April of 2003 the MECP launched a new program called Source Emissions Monitoring (SEM). This initiative requires that companies in Ontario assume the responsibility for monitoring air quality near their facilities.

The objectives of the air quality monitoring program near industrial point sources include the following:

- Assist in the prevention of possible adverse effects due to air emissions from an industrial facility.
- Demonstrate conformance with Schedule 1, 2 and/or 3 standards set out in Regulation 419 and listed in the document “SUMMARY of STANDARDS and GUIDELINES to support Ontario Regulation 419: Air Pollution – Local Air Quality”, and Ambient Air Quality Criteria listed in the document “ONTARIO’S AMBIENT AIR QUALITY CRITERIA” which are developed by the MECP as a component of the MECP standard setting process. These lists are updated periodically.
- Provide accurate and reliable data in support of air quality modeling calculations.
- Determine the impact of industrial air emissions on local air quality in adjacent communities and in the regional air shed.
- Provide accurate and reliable data as part of an integrated air quality management control system.
- Determine air quality improvements and trends in conjunction with industrial air emissions abatement programs.
- Provide data to assess local population and ecosystem exposure to air pollutants.

Links to the Ministry of the Environment, Conservation and Parks

The HAMN air monitoring network is funded and operated by 12 industrial members. HAMN has hired two consultants 1) Administrator - to oversee the network operations as per MECP requirements, and a second 2) Service Contractor - to provide the service, repair and maintenance of the monitoring network.

The following is a list of requirements specified by the MECP:

A) Data Access

- The MECP has access to all continuous monitoring stations.
- MECP can review and assess all raw air quality data collected by HAMN. Data corrections and/or edits are electronically logged and made available to the MECP for review. Data is reviewed by the MECP Air Quality Analyst and forwarded to District abatement staff should further investigation be required.
- The MECP has access to all performance and calibration records.

B) Notification

- HAMN to notify the MECP immediately of any URT exceedances.

C) Reporting

- HAMN to provide a monthly episode summary report.
- HAMN to provide a quarterly data summary report.
- HAMN to provide an annual data summary report.

D) Auditing

- MECP staff will conduct routine auditing of all HAMN air monitoring samplers.
- MECP audits conducted on continuous analyzers are performed with certified test gases.
- MECP staff will conduct a performance check on all non-continuous samplers.
- Duplicate monitoring of HAMN samplers is conducted to verify system audits and laboratory analyses.

E) Communication

- 2 HAMN committees have been established to provide communication between HAMN members and the MECP.
 - i. HAMN Steering Committee
The HAMN steering committee members include 6 HAMN members, HAMN Administrator, MECP District abatement and MECP Technical support staff.
 - ii. HAMN Technical Sub-Working Group.
This working group deals with the operation of the network. The group is comprised of MECP technical support staff, the HAMN administrator and the network contractor who meet on a quarterly basis. On occasion, MECP district abatement staff may be called in to discuss specific abatement issues.

F) Service Contractor Performance Audit Review

- HAMN conducts a yearly review of the service contractor's performance. Performance assessment criteria are determined by the MECP 'Operations Manual for Air Quality Monitoring in Ontario' (January 2018).

Ministry of the Environment, Conservation and Parks – Audit Program

The MECP performs regular audits of activities and processes related to the collection of air quality data under the SEM program. The audit program provides an indication of the effectiveness of quality control activities used by station operators and data management staff. Performance audits are independent evaluations of data quality produced by the analyzers, and are performed in addition to the normal quality control activities. In addition to auditing analyzer and sampler performance, quality control activities of the operator, siting criteria, assessment of the complete sampling system, and completeness and quality of the site logging information is verified by MECP staff and is incorporated in their audit reports.

The MECP uses a conformance/non-conformance limit of $\pm 10\%$ of the test gas value or sampler air flow rate standard. Non-conformance with this criterion requires immediate and/or quick corrective action by station operators and data management individuals if data correction/editing are required. In such instances, a follow up audit by MECP staff is required to ensure that appropriate corrective actions have been taken in a timely manner. For continuously monitored parameters (such as SO_2 or TRS) acquired with a telemetry system, a systems audit starting from the analyzer through to the operator's central computer is undertaken periodically. For non-continuous monitored parameters such as TSP, PAH and VOCs, ministry staff conduct co-located duplicate sampling in addition to auditing sampler performance, sample handling, storage, and submission procedures. The MECP's Laboratory Services Branch also participates in these audit activities with respect to the use and performance of private laboratories.

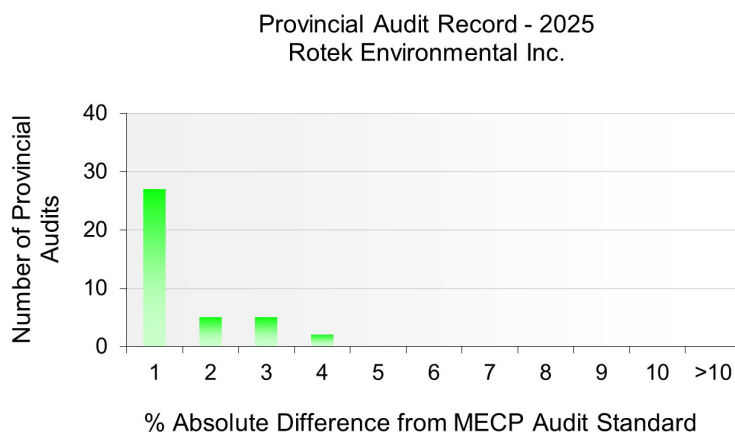
As described above the MECP carries out a QA/QC function in ensuring quality of data. The QA/QC program is made up of two parts:

- 1) Auditing field samplers to ensure sampling equipment is being maintained and operated as per MECP 'Operations Manual for Air Quality Monitoring in Ontario', January 2018.
- 2) Auditing contract laboratories to ensure analyses are carried out as per MECP Standard Operating Procedures.

Ministry of the Environment, Conservation and Parks Provincial Audit Record

In 2025 there were a total of 39 Provincial audits of both the continuous and non-continuous air monitoring equipment operated and maintained by Rotek Environmental Inc. All of the 39 audits were certified by the MECP as being acceptable, a 100% audit success rate. Figure 31 illustrates the Provincial Audit Record for 2025.

Figure 31



Appendix 6

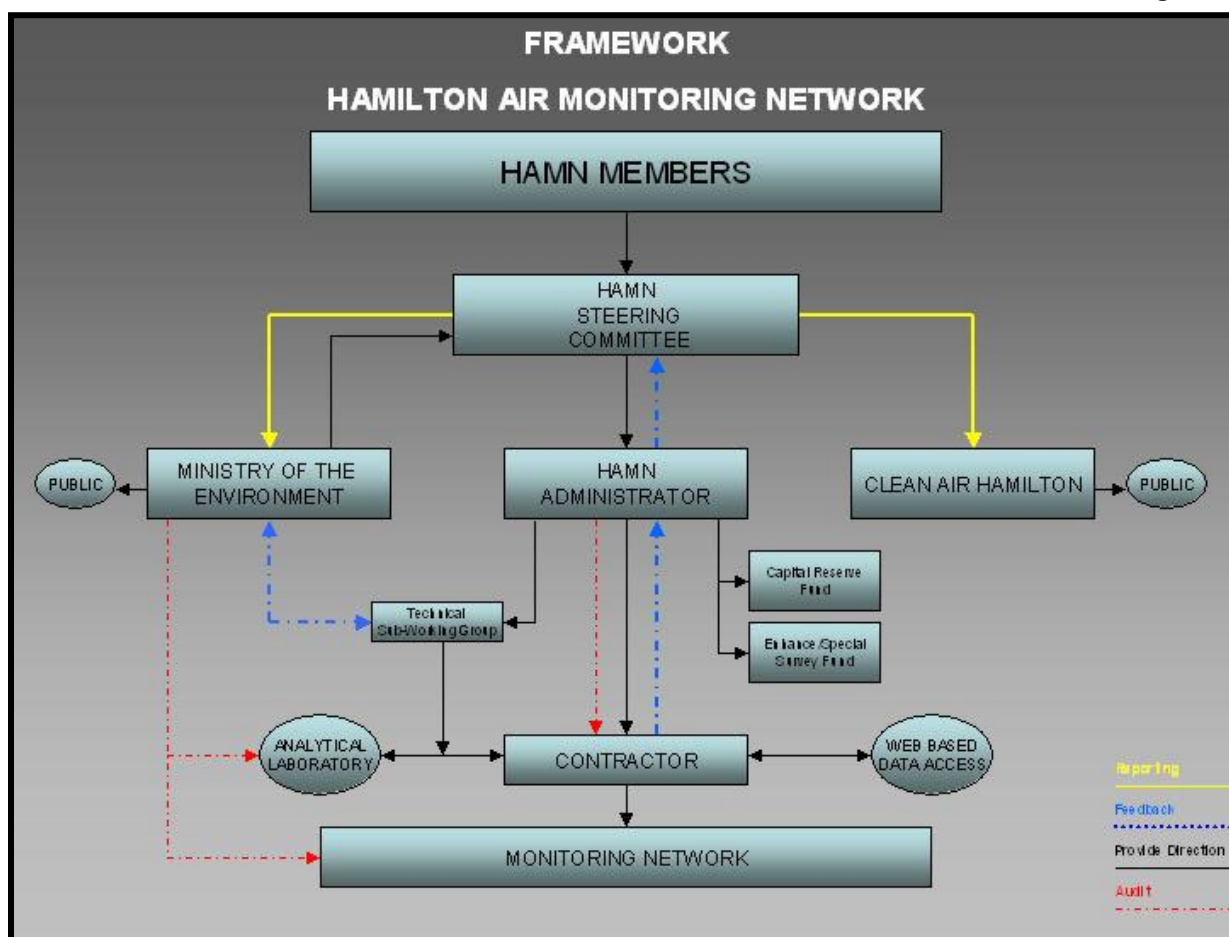
HAMN Structure

Working Committees:

- 1) **HAMN Steering Committee** - a management group comprising of 6 industry members, the HAMN administrator, and a representative from the MECP. The mandate of this committee is to ensure that both the MECP and the industrial partners' needs are met with regards to their SEM responsibilities.
- 2) **HAMN Technical Working Group** - a technical working group to deal with day to day issues related to the operation of the air monitoring network.

These committees provide a continuous line of communication among the industrial partners, air monitoring network contractor, Clean Air Hamilton, and the MECP. In February, 2003, HAMN acquired the services of an administrator to oversee the SEM project and ensure compliance with MECP requirements and protocols.

HAMN Framework – Figure 32



Contacts

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Annual | 2025

Hamilton Air Monitoring Network
Appendix 7

2025 Summary Statistics and Data Set



Hamilton Air Monitoring Network - 2025 Statistics

HAMN Station ID		STN29102 - Beach Blvd, Hamilton			Monthly Statistics													
Parameter		Statistic	Average Type	Units	Q1			Q2			Q3			Q4			Annual Mean	
					J	F	M	A	M	J	J	A	S	O	N	D		
Sulphur Dioxide	SO2	Period Arithmetic Mean	Clock	ppb	7			5			4			7			6	
		Monthly Arithmetic Mean	Clock	ppb	11	4	6	3	6	5	2	6	*ins	4	9	7	---	
		Maximum 10 Minute	Running	ppb	94	57	76	90	121	122	96	115	101	81	95	59	---	
		Maximum ½ Hour	Running	ppb	76	49	74	71	109	108	91	113	86	72	77	54	---	
		Maximum 1 Hour	Running	ppb	64	44	71	68	97	106	90	109	73	66	72	48	---	
		Maximum 24 Hour	Running	ppb	35	23	23	20	35	35	26	38	13	22	34	24	---	
		% Valid Data	---	%	99.6	99.7	99.7	96.9	98.1	87.6	96.8	77.6	72.8	98.4	99.7	99.7	93.9	
Total Reduced Sulphur	TRS	Period Arithmetic Mean	Clock	ppb	1.1			0.8			0.6			1.4			1.0	
		Monthly Arithmetic Mean	Clock	ppb	1.3	1.0	0.9	0.6	0.9	1.0	0.5	0.6	*ins	1.2	1.8	1.2	---	
		Maximum 10 Minute	Running	ppb	19.2	14.9	17.7	20.4	24.0	42.9	16.1	15.3	22.9	44.0	21.2	28.6	---	
		Maximum ½ Hour	Running	ppb	12.8	13.2	14.3	15.6	20.4	36.6	9.1	13.8	15.5	28.0	15.3	23.9	---	
		Maximum 1 Hour	Clock	ppb	10.2	8.9	9.6	11.2	16.1	20.9	7.0	11.7	11.9	18.9	10.4	12.6	---	
		Maximum 24 Hour	Running	ppb	5.3	2.8	3.1	1.9	3.4	4.6	1.4	2.7	2.7	5.4	5.4	3.6	---	
		% Valid Data	---	%	98.5	99.7	99.7	97.1	98.1	86.9	96.6	76.9	72.6	98.3	99.7	99.6	93.7	
Nitrogen Dioxide	NO2	Period Arithmetic Mean	Clock	ppb	13			8			8			10			10	
		Monthly Arithmetic Mean	Clock	ppb	14	16	10	8	7	9	8	7	*ins	8	12	11	---	
		Maximum 1 Hour	Running	ppb	43	64	45	43	47	44	33	37	43	37	34	37	---	
		Maximum 24 Hour	Running	ppb	28	39	24	18	21	23	15	19	19	21	22	23	---	
		% Valid Data	---	%	99.9	99.3	99.5	96.5	98.1	87.4	96.9	77.3	72.2	98.3	99.9	99.6	93.7	
Oxides of Nitrogen (NO + NO2)	NOX	Period Arithmetic Mean	Clock	ppb	18			9			10			15			13	
		Monthly Arithmetic Mean	Clock	ppb	19	20	14	9	9	10	9	9	*ins	12	18	15	---	
		Maximum 1 Hour	Running	ppb	127	83	120	90	63	59	43	59	75	121	69	74	---	
		Maximum 24 Hour	Running	ppb	46	42	36	26	28	28	19	27	29	29	36	35	---	
		% Valid Data	---	%	99.9	99.3	99.5	96.5	98.1	87.4	96.9	77.3	72.2	98.3	99.9	99.6	93.7	
Particulate Matter < 10 µm	PM10	Period Arithmetic Mean	Clock	µg/m ³	26			25			25			25			25	
		Monthly Arithmetic Mean	Clock	µg/m ³	31	23	23	23	16	36	29	26	*ins	21	26	*ins	---	
		Maximum 1 Hour	Clock	µg/m ³	268	83	144	621	126	182	145	81	122	251	200	147	---	
		Maximum 24 Hour	Running	µg/m ³	105	39	62	149	49	81	96	52	47	58	73	55	---	
		% Valid Data	---	%	99.7	100.0	100.0	96.9	98.5	87.9	96.9	77.6	73.1	87.2	93.5	69.0	90.0	
Particulate Matter < 2.5 µm	PM2.5	Period Arithmetic Mean	Clock	µg/m ³	10			10			14			9			11	
		Monthly Arithmetic Mean	Clock	µg/m ³	11	11	8	8	7	16	16	14	*ins	7	9	*ins	---	
		Maximum 1 Hour	Clock	µg/m ³	40	29	33	57	28	85	104	58	66	39	34	36	---	
		Maximum 24 Hour	Clock	µg/m ³	24	23	18	17	14	58	72	34	17	17	21	23	---	
		% Valid Data	---	%	99.7	100.0	100.0	96.9	98.5	87.9	96.9	77.6	73.1	87.2	93.5	69.0	90.0	

*ins - insignificant data to calculate mean

2025 Standards, Guidelines and Upper Risk Thresholds Summary

O. Reg. 419/05 Standards, Guidelines, Upper Risk Thresholds and Ambient Air Quality Criteria							Number of Exceedances												
Parameter		Type	Average Period	Average Type	Value	Units	Q1			Q2		Q3			Q4			Total	
							J	F	M	A	M	J	J	A	S	O	N		D
Sulphur Dioxide	SO2	AAQC	10 Min	Running	67	ppb	5	0	7	7	44	30	14	30	6	5	31	0	179
Sulphur Dioxide	SO2	AAQC	1 Hr	Running	40	ppb	37	3	16	6	29	17	9	21	5	7	37	4	191
Sulphur Dioxide	SO2	Standard	1 Hr	Running	250	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	SO2	Standard	24 Hr	Running	100	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	SO2	URT	½ Hr	Running	300	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	SO2	URT	1 Hr	Running	250	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	Standard	10 Min	Running	9	ppb	43	9	26	20	20	42	5	9	12	64	110	37	397
Total Reduced Sulphur	TRS	RT	1 Hr	Clock	10	ppb	1	0	0	1	1	3	0	1	1	5	3	1	17
Total Reduced Sulphur	TRS	Standard	24 Hr	Running	4	ppb	2	0	0	0	0	1	0	0	0	2	4	0	9
Total Reduced Sulphur	TRS	URT	½ Hr	Running	143	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	URT	24 Hr	Running	48	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrogen Dioxide	NO2	AAQC	1 Hr	Running	200	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrogen Dioxide	NO2	AAQC	24 Hr	Running	100	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxides of Nitrogen (NO + NO2)	NOx	Standard	1 Hr	Running	261	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxides of Nitrogen (NO + NO2)	NOx	Standard	24 Hr	Running	131	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Particulate Matter < 10 µm	PM10	AAQC	24 Hr	Running	50	µg/m³	3	0	1	4	0	10	5	0	0	2	2	2	29
Particulate Matter < 2.5 µm	PM2.5	CAAQS	24 Hr	Clock	27	µg/m³	0	0	0	0	0	3	4	3	0	0	0	0	10
Suspended Particulate < 44 µm	SP	Standard	½ Hr	Running	100	µg/m³	37	1	17	37	4	46	32	3	13	17	24	15	246
Suspended Particulate < 44 µm	SP	Standard	24 Hr	Running	120	µg/m³	0	0	0	1	0	0	0	0	0	0	0	0	1
Suspended Particulate < 44 µm	TSP	Standard	24 Hr	Clock	120	µg/m³	0	0	0	0	0	1	0	0	0	0	0	0	1
Cadmium	Cd	Standard	24 Hr	Clock	0.025	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium	Cd	URT	24 Hr	Clock	0.25	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium	Cr	Guideline	24 Hr	Clock	0.5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium	Cr	URT	24 Hr	Clock	5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron - Ferric Oxide	Fe	AAQC	24 Hr	Clock	4	µg/m³	0	0	0	0	0	1	1	0	0	0	2	3	7
Iron - Ferric Oxide	Fe	Standard	24 Hr	Clock	25	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper	Cu	Standard	24 Hr	Clock	50	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead	Pb	Standard	24 Hr	Clock	0.5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead	Pb	URT	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese	Mn	AAQC	24 Hr	Clock	0.4	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese	Mn	URT	24 Hr	Clock	4	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel	Ni	Standard	24 Hr	Clock	0.2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel	Ni	URT	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium	V	Standard	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Benzene	C6H6	AAQC	24 Hr	Clock	2.3	µg/m³	1	1	0	0	1	0	0	0	1	1	0	1	6
Benzene	C6H6	URT	24 Hr	Clock	100	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0

Standard	O. Reg. 419/05 Standard
Guideline	MECP Guideline
URT	O. Reg. 419/05 Upper Risk Threshold
RT	MECP Reportable Threshold
AAQC	MECP Ambient Air Quality Criteria
SP ½ Hour Standard (100 µg/m ³)	PM10 data used as surrogate for SP < 44 µm
CAAQS	Canadian Ambient Air Quality Standards



Hamilton Air Monitoring Network - 2025 Statistics

HAMN Station ID		STN29153 - Parkdale, Hamilton				Monthly Statistics											
Parameter		Statistic	Average Type	Units	Q1			Q2			Q3			Q4			Annual Mean
					J	F	M	A	M	J	J	A	S	O	N	D	
Particulate Matter < 10 µm	PM10	Period Arithmetic Mean	Clock	µg/m³	27			32			33			22			29
		Monthly Arithmetic Mean	Clock	µg/m³	30	20	32	33	25	38	37	34	29	23	22	22	----
		Maximum 1 Hour	Clock	µg/m³	223	77	186	195	126	138	175	113	126	116	95	76	----
		Maximum 24 Hour	Running	µg/m³	84	35	87	84	54	87	116	89	54	55	45	46	----
		% Valid Data	----	%	91.1	100.0	100.0	99.6	99.7	86.8	100.0	100.0	99.9	100.0	99.3	99.9	98.0
Particulate Matter < 2.5 µm	PM2.5	Period Arithmetic Mean	Clock	µg/m³	10			11			16			8			11
		Monthly Arithmetic Mean	Clock	µg/m³	10	10	10	10	8	18	19	18	11	7	9	9	----
		Maximum 1 Hour	Clock	µg/m³	38	46	63	45	42	97	120	80	54	29	28	31	----
		Maximum 24 Hour	Clock	µg/m³	23	22	22	17	14	60	81	62	17	15	19	19	----
		% Valid Data	----	%	91.1	100.0	100.0	99.6	99.7	86.8	100.0	100.0	99.9	100.0	99.3	99.9	98.0



2025 Standards, Guidelines and Upper Risk Thresholds Summary

O. Reg. 419/05 Standards, Guidelines, Upper Risk Thresholds and Ambient Air Quality Criteria							Number of Exceedances												
Parameter		Type	Average Period	Average Type	Value	Units	Q1			Q2			Q3			Q4			Total
							J	F	M	A	M	J	J	A	S	O	N	D	
Particulate Matter < 10 µm	PM10	AAQC	24 Hr	Running	50	µg/m³	2	0	5	5	1	8	5	7	2	0	0	0	35
Particulate Matter < 2.5 µm	PM2.5	CAAQS	24 Hr	Clock	27	µg/m³	0	0	0	0	0	3	5	6	0	0	0	0	14
Suspended Particulate < 44 µm	SP	Standard	½ Hr	Running	100	µg/m³	28	0	48	67	15	36	67	15	13	11	4	0	304
Suspended Particulate < 44 µm	SP	Standard	24 Hr	Running	120	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0

Standard	O. Reg. 419/05 Standard
Guideline	MECP Guideline
URT	O. Reg. 419/05 Upper Risk Threshold
RT	MECP Reportable Threshold
AAQC	MECP Ambient Air Quality Criteria
SP ½ Hour Standard (100 µg/m ³)	PM10 data used as surrogate for SP < 44 µm



Hamilton Air Monitoring Network - 2025 Statistics

HAMN Station ID		STN29168 - Christopher Park, Hamilton			Monthly Statistics												
Parameter		Statistic	Average Type	Units	Q1			Q2			Q3			Q4			Annual Mean
					J	F	M	A	M	J	J	A	S	O	N	D	
Total Reduced Sulphur	TRS	Period Arithmetic Mean	Clock	ppb	0.3			0.4			0.3			0.4			0.3
		Monthly Arithmetic Mean	Clock	ppb	0.3	0.3	0.3	0.4	0.4	0.4	0.2	0.2	0.4	0.5	0.3	0.3	---
		Maximum 10 Minute	Running	ppb	6.9	4.9	3.9	13.3	37.1	24.1	13.3	12.1	11.3	7.6	15.4	1.7	---
		Maximum ½ Hour	Running	ppb	4.2	4.1	2.9	9.0	23.2	13.7	10.6	6.5	9.4	3.8	13.6	1.3	---
		Maximum 1 Hour	Clock	ppb	2.8	3.4	2.3	4.7	14.2	9.4	6.2	3.0	7.5	2.7	9.3	1.3	---
		Maximum 24 Hour	Running	ppb	0.5	0.7	0.7	1.1	1.3	1.5	0.8	0.9	1.1	0.9	0.9	0.9	---
		% Valid Data	---	%	100.0	100.0	97.4	99.2	100.0	97.5	99.9	99.9	99.6	99.7	96.7	98.0	99.0
Particulate Matter < 10 µm	PM10	Period Arithmetic Mean	Clock	µg/m ³	21			28			28			19			24
		Monthly Arithmetic Mean	Clock	µg/m ³	20	16	25	28	26	32	31	28	26	21	19	17	---
		Maximum 1 Hour	Clock	µg/m ³	159	48	720	149	123	147	165	125	237	79	85	60	---
		Maximum 24 Hour	Running	µg/m ³	58	30	79	75	59	90	103	77	53	51	44	33	---
		% Valid Data	---	%	100.0	99.6	97.7	99.2	100.0	97.8	100.0	99.9	99.2	99.7	96.8	98.1	99.0
Particulate Matter < 2.5 µm	PM2.5	Period Arithmetic Mean	Clock	µg/m ³	9			11			14			7			10
		Monthly Arithmetic Mean	Clock	µg/m ³	8	9	8	9	9	15	16	16	10	6	7	8	---
		Maximum 1 Hour	Clock	µg/m ³	34	29	104	40	52	96	113	75	83	34	27	27	---
		Maximum 24 Hour	Clock	µg/m ³	21	20	19	19	17	59	70	56	19	13	18	18	---
		% Valid Data	---	%	100.0	99.6	97.7	99.2	100.0	97.8	100.0	99.9	99.2	99.7	96.8	98.1	99.0



2025 Standards, Guidelines and Upper Risk Thresholds Summary

O. Reg. 419/05 Standards, Guidelines, Upper Risk Thresholds and Ambient Air Quality Criteria							Number of Exceedances												
Parameter		Type	Average Period	Average Type	Value	Units	Q1			Q2		Q3			Q4			Total	
							J	F	M	A	M	J	J	A	S	O	N		D
Total Reduced Sulphur	TRS	Standard	10 Min	Running	9	ppb	0	0	0	1	11	15	3	1	2	0	5	0	38
Total Reduced Sulphur	TRS	RT	1 Hr	Clock	10	ppb	0	0	0	0	1	0	0	0	0	0	0	0	1
Total Reduced Sulphur	TRS	Standard	24 Hr	Running	4	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	URT	½ Hr	Running	143	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	URT	24 Hr	Running	48	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Particulate Matter < 10 µm	PM10	AAQC	24 Hr	Running	50	µg/m³	1	0	4	3	1	4	5	4	3	1	0	0	26
Particulate Matter < 2.5 µm	PM2.5	CAAQS	24 Hr	Clock	27	µg/m³	0	0	0	0	0	3	5	6	0	0	0	0	14
Suspended Particulate < 44 µm	SP	Standard	½ Hr	Running	100	µg/m³	9	0	0	32	16	24	39	10	22	2	4	0	158
Suspended Particulate < 44 µm	SP	Standard	24 Hr	Running	120	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0

Standard	O. Reg. 419/05 Standard
Guideline	MECP Guideline
URT	O. Reg. 419/05 Upper Risk Threshold
RT	MECP Reportable Threshold
AAQC	MECP Ambient Air Quality Criteria
SP ½ Hour Standard (100 µg/m ³)	PM10 data used as surrogate for SP < 44 µm



Hamilton Air Monitoring Network - 2025 Statistics

HAMN Station ID		STN29180 - Burlington / Gage, Hamilton				Monthly Statistics											
Parameter		Statistic	Average Type	Units	Q1			Q2			Q3			Q4			Annual Mean
					J	F	M	A	M	J	J	A	S	O	N	D	
Particulate Matter < 10 µm	PM10	Period Arithmetic Mean	Clock	µg/m³	19			28			28			21			24
		Monthly Arithmetic Mean	Clock	µg/m³	19	16	22	27	25	31	26	29	28	24	20	20	---
		Maximum 1 Hour	Clock	µg/m³	139	55	132	127	262	148	207	130	173	120	113	109	---
		Maximum 24 Hour	Running	µg/m³	52	34	55	69	73	92	93	64	60	106	53	46	---
		% Valid Data	---	%	100.0	100.0	100.0	100.0	97.2	100.0	100.0	100.0	97.4	100.0	100.0	99.6	
Particulate Matter < 2.5 µm	PM2.5	Period Arithmetic Mean	Clock	µg/m³	8			11			13			8			10
		Monthly Arithmetic Mean	Clock	µg/m³	8	9	8	9	8	16	15	15	9	7	8	9	---
		Maximum 1 Hour	Clock	µg/m³	30	27	28	32	37	96	106	85	35	37	30	29	---
		Maximum 24 Hour	Clock	µg/m³	19	19	19	19	16	60	68	52	18	24	20	19	---
		% Valid Data	---	%	100.0	100.0	100.0	100.0	100.0	97.2	100.0	100.0	100.0	97.4	100.0	100.0	99.6



2025 Standards, Guidelines and Upper Risk Thresholds Summary

O. Reg. 419/05 Standards, Guidelines, Upper Risk Thresholds and Ambient Air Quality Criteria							Number of Exceedances												
Parameter		Type	Average Period	Average Type	Value	Units	Q1			Q2		Q3			Q4			Total	
							J	F	M	A	M	J	J	A	S	O	N		D
Particulate Matter < 10 µm	PM10	AAQC	24 Hr	Running	50	µg/m³	1	0	1	2	3	4	5	1	2	1	0	25	
Particulate Matter < 2.5 µm	PM2.5	CAAQS	24 Hr	Clock	27	µg/m³	0	0	0	0	0	3	4	6	0	0	0	13	
Suspended Particulate < 44 µm	SP	Standard	½ Hr	Running	100	µg/m³	23	1	26	37	32	29	36	6	13	48	10	8	269
Suspended Particulate < 44 µm	SP	Standard	24 Hr	Running	120	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Suspended Particulate < 44 µm	TSP	Standard	24 Hr	Clock	120	µg/m³	1	0	1	1	2	1	1	0	1	0	0	0	8
Cadmium	Cd	Standard	24 Hr	Clock	0.025	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium	Cd	URT	24 Hr	Clock	0.25	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium	Cr	Guideline	24 Hr	Clock	0.5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium	Cr	URT	24 Hr	Clock	5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron - Ferric Oxide	Fe	AAQC	24 Hr	Clock	4	µg/m³	0	0	1	2	1	3	2	0	2	0	0	0	11
Iron - Ferric Oxide	Fe	Standard	24 Hr	Clock	25	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper	Cu	Standard	24 Hr	Clock	50	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead	Pb	Standard	24 Hr	Clock	0.5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead	Pb	URT	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese	Mn	AAQC	24 Hr	Clock	0.4	µg/m³	0	0	0	1	1	1	0	0	1	0	0	0	4
Manganese	Mn	URT	24 Hr	Clock	4	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel	Ni	Standard	24 Hr	Clock	0.2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel	Ni	URT	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium	V	Standard	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Benzo [a] Pyrene	B[a]P	AAQC	24 Hr	Clock	0.05	ng/m³	3	0	3	2	3	3	2	3	1	3	2	2	27
Benzo [a] Pyrene	B[a]P	Ref. Level	24 Hr	Clock	1.10	ng/m³	0	0	0	0	2	1	0	1	1	0	0	0	5
Benzo [a] Pyrene	B[a]P	URT	24 Hr	Clock	5.00	ng/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Benzene	C6H6	AAQC	24 Hr	Clock	2.3	µg/m³	0	0	1	0	1	2	0	0	1	0	0	0	4
Benzene	C6H6	URT	24 Hr	Clock	100	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0

Standard	O. Reg. 419/05 Standard
Guideline	MECP Guideline
URT	O. Reg. 419/05 Upper Risk Threshold
RT	MECP Reportable Threshold
AAQC	MECP Ambient Air Quality Criteria
SP ½ Hour Standard (100 µg/m ³)	PM10 data used as surrogate for SP < 44 µm



Hamilton Air Monitoring Network - 2025 Statistics

HAMN Station ID		STN29565 - Strathearne Avenue, Hamilton					Monthly Statistics										
Parameter		Statistic	Average Type	Units	Q1			Q2			Q3			Q4			Annual Mean
					J	F	M	A	M	J	J	A	S	O	N	D	
Particulate Matter < 10 µm	PM10	Period Arithmetic Mean	Clock	µg/m³	16			22			20			16			19
		Monthly Arithmetic Mean	Clock	µg/m³	17	15	17	20	19	27	22	20	19	17	16	15	---
		Maximum 1 Hour	Clock	µg/m³	94	42	141	143	142	670	112	77	63	104	69	52	---
		Maximum 24 Hour	Running	µg/m³	34	31	55	57	59	100	74	55	38	39	33	27	---
		% Valid Data	---	%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	100.0	86.3	99.9	98.8



2025 Standards, Guidelines and Upper Risk Thresholds Summary

O. Reg. 419/05 Standards, Guidelines, Upper Risk Thresholds and Ambient Air Quality Criteria							Number of Exceedances											
Parameter	Type	Average Period	Average Type	Value	Units	Q1			Q2			Q3			Q4			Total
						J	F	M	A	M	J	J	A	S	O	N	D	
Particulate Matter < 10 µm	PM10	AAQC	24 Hr	Running	50	µg/m ³	0	0	1	1	1	2	2	1	0	0	0	8
Suspended Particulate < 44 µm	SP	Standard	½ Hr	Running	100	µg/m ³	1	0	7	11	4	11	12	0	0	3	0	49
Suspended Particulate < 44 µm	SP	Standard	24 Hr	Running	120	µg/m ³	0	0	0	0	0	0	0	0	0	0	0	0

Standard	O. Reg. 419/05 Standard
Guideline	MECP Guideline
URT	O. Reg. 419/05 Upper Risk Threshold
RT	MECP Reportable Threshold
AAQC	MECP Ambient Air Quality Criteria
SP ½ Hour Standard (100 µg/m ³)	PM10 data used as surrogate for SP < 44 µm

Hamilton Air Monitoring Network - 2025 Statistics

HAMN Station ID		STN29667 - Wentworth North			Monthly Statistics												
Parameter		Statistic	Average Type	Units	Q1			Q2			Q3			Q4			Annual Mean
					J	F	M	A	M	J	J	A	S	O	N	D	
Sulphur Dioxide	SO2	Period Arithmetic Mean	Clock	ppb	1			5			4			1			3
		Monthly Arithmetic Mean	Clock	ppb	0	2	1	5	5	6	*ins	3	5	2	1	0	---
		Maximum 10 Minute	Running	ppb	8	93	67	137	101	138	103	106	161	100	37	18	---
		Maximum ½ Hour	Running	ppb	7	72	49	113	85	93	78	99	122	81	28	15	---
		Maximum 1 Hour	Running	ppb	6	57	32	87	68	81	60	71	97	72	20	14	---
		Maximum 24 Hour	Running	ppb	1	13	10	20	17	24	18	20	22	22	4	2	---
		% Valid Data	---	%	100.0	99.9	99.7	99.7	100.0	90.7	65.5	75.5	99.3	99.5	99.9	99.5	94.1
Total Reduced Sulphur	TRS	Period Arithmetic Mean	Clock	ppb	0.4			0.5			0.5			0.4			0.4
		Monthly Arithmetic Mean	Clock	ppb	0.2	0.4	0.5	0.5	0.6	0.2	*ins	0.3	0.6	0.5	0.3	0.3	---
		Maximum 10 Minute	Running	ppb	1.8	5.4	13.2	13.3	11.1	7.0	13.1	14.8	19.5	5.2	5.4	4.0	---
		Maximum ½ Hour	Running	ppb	1.3	4.3	11.3	9.1	8.8	5.0	11.3	11.0	12.8	4.3	3.6	2.6	---
		Maximum 1 Hour	Clock	ppb	0.9	3.5	6.9	5.5	6.6	3.7	7.0	5.8	7.9	2.6	2.0	2.4	---
		Maximum 24 Hour	Running	ppb	0.5	1.2	1.2	1.4	2.2	1.1	1.4	1.3	1.6	1.0	1.0	0.7	---
		% Valid Data	---	%	100.0	99.9	99.7	99.9	100.0	93.1	65.5	75.5	99.2	99.5	97.9	99.5	94.1
Nitrogen Dioxide	NO2	Period Arithmetic Mean	Clock	ppb	9			10			14			12			11
		Monthly Arithmetic Mean	Clock	ppb	8	9	8	11	10	9	*ins	10	22	15	12	11	---
		Maximum 1 Hour	Running	ppb	36	35	42	44	42	31	31	34	61	51	31	38	---
		Maximum 24 Hour	Running	ppb	21	19	25	25	22	25	14	20	52	39	25	24	---
		% Valid Data	---	%	100.0	99.9	99.5	99.4	100.0	93.1	65.3	75.5	95.4	99.2	97.5	99.5	93.7
Oxides of Nitrogen (NO + NO2)	NOX	Period Arithmetic Mean	Clock	ppb	12			14			18			18			15
		Monthly Arithmetic Mean	Clock	ppb	11	13	11	14	14	12	*ins	14	28	21	17	15	---
		Maximum 1 Hour	Running	ppb	115	133	113	107	85	56	72	63	94	97	99	158	---
		Maximum 24 Hour	Running	ppb	36	36	48	44	33	42	17	30	57	52	58	50	---
		% Valid Data	---	%	100.0	99.9	99.5	99.4	100.0	93.1	65.3	75.5	95.4	99.2	97.5	99.5	93.7
Particulate Matter < 10 µm	PM10	Period Arithmetic Mean	Clock	µg/m³	19			25			29			18			22
		Monthly Arithmetic Mean	Clock	µg/m³	20	18	18	24	22	30	*ins	30	26	21	16	16	---
		Maximum 1 Hour	Clock	µg/m³	93	86	78	168	177	154	173	390	269	184	75	66	---
		Maximum 24 Hour	Running	µg/m³	39	33	44	67	65	82	94	132	55	89	43	28	---
		% Valid Data	---	%	99.7	100.0	99.9	100.0	100.0	96.3	65.5	75.5	100.0	99.9	97.6	99.9	94.5
Particulate Matter < 2.5 µm	PM2.5	Period Arithmetic Mean	Clock	µg/m³	8			10			11			7			9
		Monthly Arithmetic Mean	Clock	µg/m³	8	9	7	8	7	15	*ins	10	9	6	7	8	---
		Maximum 1 Hour	Clock	µg/m³	33	28	31	34	24	91	101	38	33	21	35	33	---
		Maximum 24 Hour	Clock	µg/m³	22	19	19	17	13	55	61	31	15	14	17	17	---
		% Valid Data	---	%	99.7	100.0	99.9	100.0	100.0	96.3	65.5	75.5	100.0	99.9	97.6	99.9	94.5

*ins - insignificant data to calculate mean

2025 Standards, Guidelines and Upper Risk Thresholds Summary

O. Reg. 419/05 Standards, Guidelines, Upper Risk Thresholds and Ambient Air Quality Criteria							Number of Exceedances												
Parameter		Type	Average Period	Average Type	Value	Units	Q1			Q2			Q3			Q4			Total
							J	F	M	A	M	J	J	A	S	O	N	D	
Sulphur Dioxide	SO2	AAQC	10 Min	Running	67	ppb	0	3	0	12	21	16	20	10	47	7	0	0	136
Sulphur Dioxide	SO2	AAQC	1 Hr	Running	40	ppb	0	6	0	13	19	12	12	8	21	3	0	0	94
Sulphur Dioxide	SO2	Standard	1 Hr	Running	250	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	SO2	Standard	24 Hr	Running	100	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	SO2	URT	½ Hr	Running	300	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulphur Dioxide	SO2	URT	1 Hr	Running	250	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	Standard	10 Min	Running	9	ppb	0	0	4	6	5	0	4	2	11	0	0	0	32
Total Reduced Sulphur	TRS	RT	1 Hr	Clock	10	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	Standard	24 Hr	Running	4	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	URT	½ Hr	Running	143	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Reduced Sulphur	TRS	URT	24 Hr	Running	48	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrogen Dioxide	NO2	AAQC	1 Hr	Running	200	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrogen Dioxide	NO2	AAQC	24 Hr	Running	100	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxides of Nitrogen (NO + NO2)	NOx	Standard	1 Hr	Running	261	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxides of Nitrogen (NO + NO2)	NOx	Standard	24 Hr	Running	131	ppb	0	0	0	0	0	0	0	0	0	0	0	0	0
Particulate Matter < 2.5 µm	PM2.5	CAAQS	24 Hr	Clock	27	µg/m3	0	0	0	0	0	3	3	1	0	0	0	0	7
Particulate Matter < 10 µm	PM10	AAQC	24 Hr	Running	50	µg/m³	0	0	0	3	1	4	3	4	1	2	0	0	18
Suspended Particulate < 44 µm	SP	Standard	½ Hr	Running	100	µg/m³	4	2	0	31	23	20	37	68	17	26	0	0	228
Suspended Particulate < 44 µm	SP	Standard	24 Hr	Running	120	µg/m³	0	0	0	0	0	0	0	1	0	0	0	0	1
Suspended Particulate < 44 µm	TSP	Standard	24 Hr	Clock	120	µg/m³	1	0	0	0	0	0	0	1	1	2	0	0	5
Cadmium	Cd	Standard	24 Hr	Clock	0.025	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium	Cd	URT	24 Hr	Clock	0.25	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium	Cr	Guideline	24 Hr	Clock	0.5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium	Cr	URT	24 Hr	Clock	5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron - Ferric Oxide	Fe	AAQC	24 Hr	Clock	4	µg/m³	0	0	0	1	1	0	0	0	1	0	0	0	3
Iron - Ferric Oxide	Fe	Standard	24 Hr	Clock	25	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper	Cu	Standard	24 Hr	Clock	50	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead	Pb	Standard	24 Hr	Clock	0.5	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead	Pb	URT	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese	Mn	AAQC	24 Hr	Clock	0.4	µg/m³	1	0	0	2	0	0	1	1	4	1	1	0	11
Manganese	Mn	URT	24 Hr	Clock	4	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel	Ni	Standard	24 Hr	Clock	0.2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel	Ni	URT	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium	V	Standard	24 Hr	Clock	2	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Benzo [a] Pyrene	B[a]P	AAQC	24 Hr	Clock	0.05	ng/m³	2	1	3	2	3	3	1	2	2	3	0	2	24
Benzo [a] Pyrene	B[a]P	Ref. Level	24 Hr	Clock	1.10	ng/m³	0	0	0	0	1	2	1	1	1	1	0	0	7
Benzo [a] Pyrene	B[a]P	URT	24 Hr	Clock	5.00	ng/m³	0	0	0	0	0	0	0	0	0	0	0	0	0
Benzene	C6H6	AAQC	24 Hr	Clock	2.3	µg/m³	0	0	1	0	0	2	0	0	2	0	0	0	5
Benzene	C6H6	URT	24 Hr	Clock	100	µg/m³	0	0	0	0	0	0	0	0	0	0	0	0	0

Standard	O. Reg. 419/05 Standard
Guideline	MECP Guideline
URT	O. Reg. 419/05 Upper Risk Threshold
RT	MECP Reportable Threshold
AAQC	MECP Ambient Air Quality Criteria
SP ½ Hour Standard (100 µg/m ³)	PM10 data used as surrogate for SP < 44 µm

Sample Matrix	: SUMMA Canisters
Method	: GC/MS (TO15A)
Valid Samples - No. / %	: 31 / 100%

Note 1: All non detectable results are reported as they are received.

Station : 29102
 Location : Beach Blvd, Hamilton
 Reporting Period : 01 January to 31 December 2025

Sample Matrix : SUMMA Canisters
 Method : GC/MS (TO15A)
 Valid Samples - No. / % : 31 / 100%

Parameter	AAQC	URT	RDL																	Ave	Max	Min	Samples > AAQC	Samples > URT
	24 Hr	24 Hr		12-Jul-25	24-Jul-25	05-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	04-Oct-25	16-Oct-25	28-Oct-25	09-Nov-25	21-Nov-25	03-Dec-25	15-Dec-25	27-Dec-25						
	µg/m ³	µg/m ³	µg/m ³																µg/m ³			µg/m ³	µg/m ³	No.
2,2,4-Trimethylpentane	x	x	0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	---	0.000	0.000	x	x	
Carbon Disulfide	330	x	1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	---	0.00	0.00	0	x	
Propene	4000	x	0.516	<0.861	<1.07	<0.861	<0.861	<0.861	<1.20	<1.38	<2.07	<2.07	<0.861	<0.861	<1.36	<1.08	<0.929	<0.861	---	0.000	0.000	0	x	
Vinyl Acetate	x	x	0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	---	0.000	0.000	x	x	
Dichlorodifluoromethane	500000	x	0.989	2.69	2.70	2.69	2.75	2.73	2.74	2.75	2.62	2.72	2.70	2.79	2.52	2.31	2.43	2.36	2.63	2.79	2.31	0	x	
Vinyl Chloride	1	100	0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	---	0.0000	0.0000	0	0	
1,2-Dichlorotetrafluoroethane	700000	x	1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	---	0.000	0.000	0	x	
1,3-Butadiene	10	300	1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	---	0.000	0.000	0	0	
Chloromethane	320	x	0.620	0.983	0.888	0.839	0.791	0.792	0.78	0.75	0.879	0.809	0.707	0.797	0.813	0.807	0.81	0.76	0.814	0.983	0.707	0	x	
Trichlorotrifluoroethane	800000	x	1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	---	0.000	0.000	0	x	
Vinyl Bromide	x	x	0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	---	0.0000	0.0000	x	x	
Chloroethane	5600	25000	0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	---	0.000	0.000	0	0	
Chloroform	1	100	0.195	<0.195	<0.195	<0.195	<0.195	<0.195	0.225	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	0.2250	0.2250	0.2250	0	0	
1,2-Dichloroethane	2	x	0.0405	0.0837	0.0517	0.0639	0.0556	0.0572	0.0679	0.060	0.0777	0.087	0.0743	0.0847	0.0677	0.0703	0.0713	0.0785	0.070	0.087	0.052	0	x	
Carbon Tetrachloride	2.4	24	0.31	0.484	0.477	0.571	0.628	0.529	0.478	0.537	0.421	0.468	0.598	0.663	0.352	0.355	<0.315	0.379	0.496	0.663	0.352	0	0	
Trichlorofluoromethane	6000	x	1.12	1.64	1.49	1.51	1.52	1.46	1.61	1.550	1.87	1.75	1.51	1.53	1.26	1.24	1.29	1.25	1.50	1.87	1.24	0	x	
Benzene	2.3	100	0.16	1.92	1.86	0.843	0.61	0.385	1.03	2.60	2.62	0.892	0.204	0.319	1.37	1.22	3.16	0.39	1.29	3.16	0.20	3	0	
Ethanol	19000	x	1.88	2.69	3.32	<1.88	<1.88	3.84	6.15	8.6	3.2	<1.88	<1.88	4.27	5.13	2.53	<1.88		4.414	8.600	2.530	0	x	
Trichloroethylene	12	1200	0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	---	0.000	0.000	0	0	
2-propanol	7300	x	2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	---	0.000	0.000	0	x	
Bromodichloromethane	x	x	1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	---	0.000	0.000	x	x	
2-Propanone	11880	x	0.475	8.8	7.02	7.54	6.95	4.10	6.43	6.73	9.37	6.33	3.43	3.43	3.51	3.25	2.09	2.18	5.411	9.370	2.090	0	x	
cis-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	---	0.0000	0.0000	x	x	
Methyl Ethyl Ketone	1000	10000	0.295	1.74	1.96	1.10	0.89	0.494	1.8	1.24	2.29	1.36	0.484	0.779	1.16	1.54	0.595	0.463	1.193	2.290	0.463	0	0	
trans-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	---	0.0000	0.0000	x	x	
1,1,2-Trichloroethane	x	x	0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	---	0.0000	0.0000	x	x	
Methyl Isobutyl Ketone	1200	x	0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	---	0.000	0.000	0	x	
Dibromochloromethane	x	x	1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	---	0.000	0.000	x	x	
Methyl Butyl Ketone	x	x	4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	---	0.000	0.000	x	x	
Ethylene Dibromide	3	x	0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	---	0.000	0.000	0	x	
Methyl t-butyl ether (MTBE)	7000	x	0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	---	0.0000	0.0000	0	x	
1,1,2,2-Tetrachloroethane	x	x	0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	---	0.0000	0.0000	x	x	
Ethyl Acetate	x	x	3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	---	0.000	0.000	x	x	
1,1-Dichloroethylene	10	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	---	0.0000	0.0000	0	x	
Benzyl chloride	x	x	2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	---	0.000	0.000	x	x	
cis-1,2-Dichloroethylene	105	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	---	0.0000	0.0000	0	x	
Hexachlorobutadiene	x	x	0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	---	0.0000	0.0000	x	x	
trans-1,2-Dichloroethylene	105	x	0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	---	0.0000	0.0000	0	x	
Methylene Chloride	220	22000	2.78	0.414	0.364	0.412	0.351	0.362	0.621	0.499	0.502	0.472	0.37	0.475	0.331	0.344	0.333	0.391	0.416	0.621	0.331	0	0	
1,1-Dichloroethane	165	1650	0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	---	0.0000	0.0000	0	0	
1,1,1-Trichloroethane	115000	x	0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	---	0.0000	0.0000	0	x	
1,2-Dichloropropane	2400	x	0.231	<0.23																				

Station : 29180
Location : Burlington St / Gage Ave, Hamilton
Reporting Period : 01 January to 31 December 2025

Sample Matrix	: SUMMA Canisters
Method	: GC/MS (TO15A)
Valid Samples - No. / %	: 31 / 100%

VOC Parameter	AAQC	URT	RDL	01-Jan-25	13-Jan-25	27-Jan-25	06-Feb-25	18-Feb-25	02-Mar-25	14-Mar-25	26-Mar-25	07-Apr-25	19-Apr-25	01-May-25	13-May-25	25-May-25	06-Jun-25	18-Jun-25	30-Jun-25	Ave	Max	Min	Samples > AAQC	Samples > URT
	24 Hr	24 Hr																						
	µg/m³	µg/m³	µg/m³																	µg/m³	µg/m³	µg/m³	No.	No.
2,2,4-Trimethylpentane	x	x	0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	2.030	<0.934	1.210	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	1.620	2.030	1.210	x	x
Carbon Disulfide	330	x	1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	---	0.00	0.00	0	x
Propene	4000	x	0.516	<1.62	<1.45	<1.20	<1.69	<1.12	<0.861	<2.93	<6.02	<0.981	<0.861	<0.861	<1.20	<0.861	<0.861	<1.12	<1.38	---	0.000	0.000	0	x
Vinyl Acetate	x	x	0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	---	0.000	0.000	x	x
Dichlorodifluoromethane	500000	x	0.989	2.79	2.97	2.35	2.48	2.61	2.68	2.99	2.60	2.97	2.87	2.69	<6.2	2.80	2.64	2.6	2.94	2.73	2.99	2.35	0	x
Vinyl Chloride	1	100	0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	---	0.0000	0.0000	0	0
1,2-Dichlorotetrafluoroethane	700000	x	1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	---	0.000	0.000	0	x
1,3-Butadiene	10	300	1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	---	0.000	0.000	0	0
Chloromethane	320	x	0.620	0.952	1.100	0.795	0.895	0.896	0.869	0.959	0.861	1.070	1.120	1.020	0.959	0.877	0.941	0.876	1.1	0.956	1.120	0.795	0	0
Trichlorofluoromethane	800000	x	1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	---	0.000	0.000	0	x
Vinyl Bromide	x	x	0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	---	0.0000	0.0000	x	x
Chloroethane	5600	25000	0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	---	0.000	0.000	0	0
Chloroform	1	100	0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	0.2310	0.2580	0.2040	0	0
1,2-Dichloroethane	2	x	0.0405	0.101	0.117	0.094	0.089	0.092	0.090	0.107	0.114	0.128	0.119	0.106	0.096	0.084	0.093	0.064	0.101	0.100	0.128	0.064	0	x
Carbon Tetrachloride	2.4	24	0.31	0.68	0.65	0.60	0.59	0.64	0.64	0.54	0.52	0.67	0.54	0.58	0.48	0.51	0.487	0.59	0.384	0.567	0.684	0.384	0	0
Trichlorofluoromethane	6000	x	1.12	1.80	1.72	1.37	1.44	1.48	1.49	1.69	1.58	1.70	1.56	1.61	1.58	1.47	1.43	1.53	1.85	1.58	1.85	1.37	0	x
Benzene	2.3	100	0.16	0.74	0.70	0.63	0.80	0.63	0.65	2.77	0.98	0.70	1.18	2.21	3.30	0.58	2.39	1.11	2.97	1.40	3.30	0.58	4	0
Ethanol	19000	x	1.88	6.330	5.300	2.590	6.620	4.880	4.920	26.000	45.900	59.600	6.710	<1.88	5.350	7.640	12.400	7.380	6.700	13.888	59.600	2.590	0	0
Trichloroethylene	12	1200	0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	0.599	0.415	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	0.507	0.599	0.415	0	0
2-propanol	7300	x	2.46	16.800	<2.46	<2.46	<2.46	<2.46	<2.46	8.830	8.010	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	11.213	16.800	8.010	0	x
Bromodichloromethane	x	x	1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	---	0.000	0.000	x	x
2-Propanone	11880	x	0.475	3.590	5.510	2.890	3.870	3.080	1.930	5.600	4.760	3.160	5.580	3.640	6.300	3.35	7.72	7.81	9.25	4.921	9.250	1.930	0	0
cis-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	---	0.0000	0.0000	x	x
Methyl Ethyl Ketone	1000	10000	0.295	0.417	0.720	0.631	0.841	0.691	0.556	1.400	0.995	0.894	0.976	0.593	1.730	0.562	1.460	2.400	2.270	1.071	2.400	0.417	0	0
trans-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	---	0.0000	0.0000	x	x
1,1,2-Trichloroethane	x	x	0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	---	0.0000	0.0000	x	x
Methyl Isobutyl Ketone	1200	x	0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	---	0.000	0.000	0	x
Dibromochloromethane	x	x	1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	---	0.000	0.000	x	x
Methyl Butyl Ketone	x	x	4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	---	0.000	0.000	x	x
Ethylene Dibromide	3	x	0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	---	0.000	0.000	0	x
Methyl t-butyl ether (MTBE)	7000	x	0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	---	0.0000	0.0000	0	x
1,1,2,2-Tetrachloroethane	x	x	0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	---	0.0000	0.0000	x	x
Ethyl Acetate	x	x	3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	---	0.000	0.000	x	x
1,1-Dichloroethylene	10	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	---	0.0000	0.0000	0	x
Benzyl chloride	x	x	2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	---	0.000	0.000	x	x
cis-1,2-Dichloroethylene	105	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	---	0.0000	0.0000	0	x
Hexachlorobutadiene	x	x	0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	---	0.0000	0.0000	x	x
trans-1,2-Dichloroethylene	105	x	0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	---	0.0000	0.0000	0	x
Methylene Chloride	220	22000	2.78	0.687	0.875	0.417	0.586	0.528	0.499	1.140	3.020	0.944	0.625	0.600	0.618	0.692	0.820	0.515	0.640	0.875	3.820	0.417	0	0
1,1-Dichloroethane	165	1650	0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	---	0.0000	0.0000	0	0
1,1,1-Trichloroethane	115000	x	0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	---	0.0000	0.0000	0	0
1,2-Dichloropropane	2400	x	0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	---	0.0000	0.0000	0	x
Bromomethane	1350	x	0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	---	0.000	0.000	0	x
Bromoform	55	x	1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	---	0.000	0.000	0	0
Heptane	11000	x	1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	---	0.000	0.000	0	x
Tetrachloroethylene	360	x	0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	0.3630	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	0.3725	0.3820	0.3630	0	x
Toluene	2000	x	0.188	0.6740</																				

Note 1: All non detectable results are reported as they are received.

Station : 29180
 Location : Burlington St / Gage Ave, Hamilton
 Reporting Period : 01 January to 31 December 2025

Sample Matrix : SUMMA Canisters
 Method : GC/MS (TO15A)
 Valid Samples - No. / % : 31 / 100%

Parameter	AAQC 24 Hr	URT 24 Hr	RDL	12-Jul-25	24-Jul-25	05-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	04-Oct-25	16-Oct-25	28-Oct-25	09-Nov-25	21-Nov-25	03-Dec-25	15-Dec-25	27-Dec-25						
	µg/m³	µg/m³	µg/m³																	Ave	Max	Min	Samples > AAQC	Samples > URT
																				µg/m³	µg/m³	µg/m³	No.	No.
2,2,4-Trimethylpentane	x	x	0.934	<0.934	<0.934	<0.934	1.23	<0.934	12.1	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934		6.665	12.100	1.230	x	x
Carbon Disulfide	330	x	1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56		---	0.00	0.00	0	x
Propene	4000	x	0.516	<0.861	<1.26	<0.861	<0.861	<0.861	<36.1	<1.20	<2.07	<1.29	<1.31	<2.24	<1.60	<1.10	<1.45	<0.861		---	0.000	0.000	0	x
Vinyl Acetate	x	x	0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1.06	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704		---	0.000	0.000	x	x
Dichlorodifluoromethane	500000	x	0.989	2.67	2.7	2.63	2.84	2.72	2.45	2.76	2.64	2.76	2.68	2.8	2.51	2.35	2.46	2.38		2.62	2.84	2.35	0	x
Vinyl Chloride	1	100	0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511		---	0.0000	0.0000	0	0
1,2-Dichlorotetrafluoroethane	700000	x	1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19		---	0.000	0.000	0	x
1,3-Butadiene	10	300	1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11		---	0.000	0.000	0	0
Chloromethane	320	x	0.620	0.927	0.859	0.758	0.755	0.763	0.833	0.830	0.803	0.752	0.769	0.859	0.801	0.817	0.784	0.739		0.803	0.927	0.739	0	x
Trichlorotrifluoroethane	800000	x	1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15		---	0.000	0.000	0	x
Vinyl Bromide	x	x	0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875		---	0.0000	0.0000	x	x
Chloroethane	5600	25000	0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792		---	0.000	0.000	0	0
Chloroform	1	100	0.195	<0.195	<0.195	<0.195	<0.195	<0.195	0.425	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195		0.4250	0.4250	0.4250	0	0
1,2-Dichloroethane	2	x	0.0405	0.0737	0.055	0.0582	0.060	0.070	0.0925	0.0793	0.0827	0.0942	0.0777	0.0876	0.0677	0.069	0.070	0.0758		0.074	0.094	0.055	0	x
Carbon Tetrachloride	2.4	24	0.31	0.517	0.524	0.549	0.623	0.523	0.429	0.614	0.431	0.484	0.502	0.614	0.378	0.352	0.328	0.402		0.485	0.623	0.328	0	0
Trichlorofluoromethane	6000	x	1.12	1.44	1.49	1.44	1.56	1.46	2.27	1.57	1.54	1.61	1.60	1.64	1.18	1.26	1.31	1.25		1.51	2.27	1.18	0	x
Benzene	2.3	100	0.16	0.354	0.636	1.34	0.954	0.447	3.89	0.596	1.58	0.97	0.63	1.01	0.683	0.557	0.459	0.431		0.97	3.89	0.35	1	0
Ethanol	19000	x	1.88	4.37	6.39	<1.88	12.8	98.4	138.0	15.7	117.0	161.0	5.15	29.1	20.8	8.96	4.82	2.39		44.634	161.000	2.390	0	x
Trichloroethylene	12	1200	0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269		---	0.000	0.000	0	0
2-propanol	7300	x	2.46	<2.46	2.59	<2.46	<2.46	<2.46	9.09	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46		5.840	9.090	2.590	0	x
Bromodichloromethane	x	x	1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34		---	0.000	0.000	x	x
2-Propanone	11880	x	0.475	12.3	8.88	7.23	7.4	5.17	45.6	7.52	10.3	6.62	5.00	7.46	5.76	3.73	3.03	2.41		9.227	45.600	2.410	0	x
cis-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227		---	0.0000	0.0000	x	x
Methyl Ethyl Ketone	1000	10000	0.295	1.57	2.82	1.05	0.888	0.552	5.11	1.38	2.23	1.28	1.41	1.33	0.994	0.836	0.449	0.424		1.488	5.110	0.424	0	0
trans-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227		---	0.0000	0.0000	x	x
1,1,2-Trichloroethane	x	x	0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655		---	0.0000	0.0000	x	x
Methyl Isobutyl Ketone	1200	x	0.410	<0.410	<0.410	<0.410	<0.410	<0.410	4.53	<0.410	<0.410	0.876	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410		2.703	4.530	0.876	0	x
Dibromochloromethane	x	x	1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70		---	0.000	0.000	x	x
Methyl Butyl Ketone	x	x	4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10		---	0.000	0.000	x	x
Ethylene Dibromide	3	x	0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768		---	0.000	0.000	0	x
Methyl t-butyl ether (MTBE)	7000	x	0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361		---	0.0000	0.0000	0	x
1,1,2,2-Tetrachloroethane	x	x	0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185		---	0.0000	0.0000	x	x
Ethyl Acetate	x	x	3.60	<3.60	<3.60	<3.60	<3.60	<3.60	4.5	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60		4.500	4.500	4.500	x	x
1,1-Dichloroethylene	10	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198		---	0.0000	0.0000	0	x
Benzyl chloride	x	x	2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59		---	0.000	0.000	x	x
cis-1,2-Dichloroethylene	105	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198		---	0.0000	0.0000	0	x
Hexachlorobutadiene	x	x	0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501		---	0.0000	0.0000	x	x
trans-1,2-Dichloroethylene	105	x	0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396		---	0.0000	0.0000	0	x
Methylene Chloride	220	22000	2.78	0.42	0.687	0.379	0.340	0.426	5.070	0.542	0.98	1.13	0.45	0.777	0.763	0.675	0.52	0.372		0.902	5.070	0.340	0	0
1,1-Dichloroethane	165	1650	0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202												

Station	: 29667
Location	: Wentworth North
Reporting Period	: 01 January to 31 December 2025

Sample Matrix : SUMMA Canisters
Method : GC/MS (TO15A)
Valid Samples - No. / % : 29 / 93.5%

VOC Parameter	AAQC	URT	RDL																						Samples	Samples
	24 Hr	24 Hr		01-Jan-25	13-Jan-25	27-Jan-25	06-Feb-25	18-Feb-25	02-Mar-25	14-Mar-25	26-Mar-25	07-Apr-25	19-Apr-25	01-May-25	13-May-25	25-May-25	06-Jun-25	18-Jun-25	30-Jun-25	Ave	Max	Min	> AAQC	> URT		
	µg/m³	µg/m³	µg/m³																			µg/m³	µg/m³	µg/m³	No.	No.
2,2,4-Trimethylpentane	x	x	0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	1.220	<0.934	1.260	<0.934	<0.934	<0.934	0.977	<0.934	7.540	1.71	2.541	7.540	0.977	x	x		
Carbon Disulfide	330	x	1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	1.57	<1.56	<1.56	<1.56	---	0.00	0.00	0	x		
Propene	4000	x	0.516	<2.24	<1.46	<1.20	<1.31	<2.41	<1.07	<3.10	<1.57	<2.19	<0.861	<0.861	<1.15	<0.861	<0.861	<51.6	<1.20	---	0.000	0.000	0	x		
Vinyl Acetate	x	x	0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704	<1.30	<0.986	<0.704	<0.704	<1.16	<0.704	<0.810	<0.704	---	0.000	0.000	x	x			
Dichlorodifluoromethane	500000	x	0.989	<2.80	3.04	2.38	2.55	2.62	2.72	2.91	2.95	2.89	2.74	<2.62	2.86	2.64	2.14	2.95	2.73	3.04	2.14	0.00	0	x		
Vinyl Chloride	1	100	0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	---	0.0000	0.0000	0	0		
1,2-Dichlorotetrafluoroethane	700000	x	1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	---	0.000	0.000	0	x		
1,3-Butadiene	10	300	1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	---	0.000	0.000	0	0		
Chloromethane	320	x	0.620	0.916	1.080	0.785	0.917	0.946	0.894	0.980	0.913	1.080	1.070	1.010	0.968	0.888	0.953	0.867	1.07	0.959	1.080	0.785	0	x		
Trichlorotrifluoroethane	800000	x	1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	---	0.000	0.000	0	x		
Vinyl Bromide	x	x	0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	---	0.0000	0.0000	x	x		
Chloroethane	5600	25000	0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	---	0.000	0.000	0	0		
Chloroform	1	100	0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.2060	0.302	0.2540	0.3020	0.2060	0	0		
1,2-Dichloroethane	2	x	0.0405	0.098	0.117	0.089	0.088	0.089	0.090	0.100	0.091	0.118	0.103	0.104	0.100	0.085	0.0944	0.074	0.0919	0.096	0.118	0.074	0	x		
Carbon Tetrachloride	2.4	24	0.31	0.66	0.63	0.60	0.58	0.59	0.58	0.53	0.65	0.65	0.549	0.61	0.48	0.47	0.48	0.51	0.372	0.560	0.659	0.372	0	0		
Trichlorofluoromethane	6000	x	1.12	1.79	1.73	1.41	1.42	1.44	1.48	1.62	1.57	1.59	1.45	1.58	1.44	1.41	1.38	1.61	1.61	1.53	1.79	1.38	0	x		
Benzene	2.3	100	0.16	0.62	0.75	0.62	1.61	0.96	0.73	2.76	0.76	1.24	0.523	1.41	2.02	0.55	2.12	2.65	2.47	1.36	2.76	0.52	3	0		
Ethanol	19000	x	1.88	7.220	3.480	2.180	4.710	4.920	3.800	27.600	7.250	12.300	8.930	5.820	13.300	8.48	33.000	34.500	13.900	11.962	34.500	2.180	0	x		
Trichloroethylene	12	1200	0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	---	0.000	0.000	0	0		
2-propanol	7300	x	2.46	17.700	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	4.590	<2.46	11.145	17.700	4.590	0	x		
Bromodichloromethane	x	x	1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	---	0.000	0.000	x	x		
2-Propanone	11880	x	0.475	3.134	3.650	2.980	4.620	1.990	1.790	5.110	2.060	2.480	5.540	7.860	8.870	3.40	9.02	21.4	9.54	5.860	21.400	1.790	0	x		
cis-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	---	0.0000	0.0000	x	x		
Methyl Ethyl Ketone	1000	10000	0.295	0.439	0.699	0.641	0.746	0.463	0.531	1.060	0.503	0.663	1.01	0.575	1.010	0.426	1.35	3.34	1.9	0.960	3.340	0.426	0	0		
trans-1,3-Dichloropropene	x	x	0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	---	0.0000	0.0000	x	x		
1,1,2-Trichloroethane	x	x	0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	---	0.0000	0.0000	x	x		
Methyl Isobutyl Ketone	1200	x	0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	6.070	6.070	6.070	0	x		
Dibromochloromethane	x	x	1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	---	0.000	0.000	x	x		
Methyl Butyl Ketone	x	x	4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	---	0.000	0.000	x	x		
Ethylene Dibromide	3	x	0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	---	0.000	0.000	0	x		
Methyl t-butyl ether (MTBE)	7000	x	0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	---	0.0000	0.0000	x	x		
1,1,2,2-Tetrachloroethane	x	x	0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	---	0.0000	0.0000	x	x		
Ethyl Acetate	x	x	3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	---	0.000	0.000	x	x		
1,1-Dichloroethylene	10	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	---	0.0000	0.0000	0	x		
Benzyl chloride	x	x	2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	---	0.000	0.000	x	x		
cis-1,2-Dichloroethylene	105	x	0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	---	0.0000	0.0000	0	x		
Hexachlorobutadiene	x	0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	---	0.0000	0.0000	x	x		
trans-1,2-Dichloroethylene	105	x	0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	---	0.0000	0.0000	0	x		
Methylene Chloride	220	22000	2.78	0.535	0.628	0.470	0.519	0.431	0.455	0.806	0.462	0.618	0.531	0.396	0.682	0.642	0.794	3.050	0.510	0.736	3.050	0.431	0	0		
1,1-Dichloroethane	165	1650	0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	---	0.0000	0.0000	0	0		
1,1,1-Trichloroethane	115000	x	0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	---	0.0000	0.0000	0	x		
1,2-Dichloropropane	2400	x	0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	<0.231	---	0.0000	0.0000	0	x		
Bromomethane	1350	x	0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	<0.194	---	0.000	0.000	0	x		
Bromoform	55	x	1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	<1.03	---	0.000	0.000	0	x		
Heptane	11000	x	1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	<1.23	1.835	1.950	1.720	0	x		
Tetrachloroethylene	360	x	0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	<0.339	0.5270	0.7850	0.3510	0	x		
Toluene	2000	x	0.188	0.7960	0.8970	0.5700	1.1200	1.8100	1.6600	6.3300	2.1600	4.3200	1.8800	0.542	1.570											

Note 1: All non detectable results are reported as they are received.

Station : 29667
Location : Wentworth North
Reporting Period : 01 January to 31 December 2025

Sample Matrix : SUMMA Canisters
Method : GC/MS (TO15A)
Valid Samples - No. / % : 29 / 93.5%

Parameter	AAQC 24 Hr	URT 24 Hr	RDL	12-Jul-25	24-Jul-25	05-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	04-Oct-25	16-Oct-25	28-Oct-25	09-Nov-25	21-Nov-25	03-Dec-25	15-Dec-25	27-Dec-25			Ave	Max	Min	Samples > AAQC	Samples > URT
	µg/m³	µg/m³	µg/m³																	µg/m³	µg/m³	µg/m³	No.	No.	
2,2,4-Trimethylpentane	x	x	0.934	<0.934	---	---	<0.934	2.15	4.72	6.41	4.56	6.08	<0.934	<0.934	<0.934	1.84	1.05	<0.934			3.830	6.410	1.050	x	x
Carbon Disulfide	330	x	1.56	<1.56	---	---	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56	<1.56			---	0.00	0.00	0	x
Propene	4000	x	0.516	<0.861	---	---	<0.861	<0.861	<2.07	<2.75	<3.27	<1.65	<2.50	<0.861	<2.24	<2.41	<1.46	<0.861			---	0.000	0.000	0	x
Vinyl Acetate	x	x	0.704	<0.704	---	---	<0.704	<1.06	<0.880	<0.704	<1.44	<0.810	<0.704	<0.704	<0.704	<0.704	<0.704	<0.704			---	0.000	0.000	x	x
Dichlorodifluoromethane	500000	x	0.989	2.67	---	---	2.78	2.69	2.71	2.71	2.6	2.75	2.69	2.81	2.53	2.35	2.45	2.42			2.63	2.81	2.35	0	x
Vinyl Chloride	1	100	0.0511	<0.0511	---	---	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511			---	0.0000	0.0000	0	0
1,2-Dichlorotetrafluoroethane	700000	x	1.19	<1.19	---	---	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19	<1.19			---	0.000	0.000	0	x
1,3-Butadiene	10	300	1.11	<1.11	---	---	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11	<1.11			---	0.000	0.000	0	0
Chloromethane	320	x	0.620	0.901	---	---	0.76	0.752	0.779	0.746	0.784	0.73	0.79	0.805	0.794	0.819	0.778	0.78			0.786	0.901	0.730	0	x
Trichlorotrifluoroethane	800000	x	1.15	<1.15	---	---	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15	<1.15			---	0.000	0.000	0	x
Vinyl Bromide	x	x	0.875	<0.875	---	---	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875	<0.875			---	0.0000	0.0000	x	x
Chloroethane	5600	25000	0.792	<0.792	---	---	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792	<0.792			---	0.000	0.000	0	0
Chloroform	1	100	0.195	<0.195	---	---	<0.195	<0.195	0.23	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195	<0.195			0.2300	0.2300	0.2300	0	0
1,2-Dichloroethane	2	x	0.0405	0.0705	---	---	0.0678	0.0597	0.0644	0.0734	0.0736	0.102	0.092	0.0803	0.0645	0.0717	0.0693	0.079			0.074	0.102	0.060	0	x
Carbon Tetrachloride	2.4	24	0.31	0.511	---	---	0.647	0.497	0.428	0.522	0.387	0.434	0.508	0.648	0.353	0.338	0.315	0.393			0.460	0.648	0.315	0	0
Trichlorofluoromethane	6000	x	1.12	1.5	---	---	1.62	1.38	1.65	1.66	1.4	1.54	1.62	1.53	1.18	1.22	1.27	1.27			1.45	1.66	1.18	0	x
Benzene	2.3	100	0.16	0.356	---	---	0.909	0.799	3.28	3.19	2.09	1.42	1.21	0.423	0.917	0.829	0.607	0.461			1.27	3.28	0.36	2	0
Ethanol	19000	x	1.88	3.61	---	---	2.26	16.5	11.4	22.9	20.7	22.3	63.7	8	13.6	12.1	6.8	3.47			15.949	63.700	2.260	0	x
Trichloroethylene	12	1200	0.269	<0.269	---	---	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269	<0.269			---	0.000	0.000	0	0
2-propanol	7300	x	2.46	<2.46	---	---	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46	<2.46			---	0.000	0.000	0	x
Bromodichloromethane	x	x	1.34	<1.34	---	---	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34	<1.34			---	0.000	0.000	x	x
2-Propanone	11880	x	0.475	9.39	---	---	7.01	4.38	9.16	7.35	10.00	6.11	12.2	3.23	3.36	3.45	2.1	2.82			6.197	12.200	2.100	0	x
cis-1,3-Dichloropropene	x	x	0.227	<0.227	---	---	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227			---	0.0000	0.0000	x	x
Methyl Ethyl Ketone	1000	10000	0.295	1.39	---	---	0.862	0.499	1.58	1.08	1.95	1.17	1.34	0.486	0.585	0.676	0.304	0.429			0.950	1.950	0.304	0	0
trans-1,3-Dichloropropene	x	x	0.227	<0.227	---	---	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227	<0.227			---	0.0000	0.0000	x	x
1,1,2-Trichloroethane	x	x	0.0655	<0.0655	---	---	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655	<0.0655			---	0.0000	0.0000	x	x
Methyl Isobutyl Ketone	1200	x	0.410	<0.410	---	---	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410			0.532	0.532	0.532	0	x
Dibromochloromethane	x	x	1.70	<1.70	---	---	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70			---	0.000	0.000	x	x
Methyl Butyl Ketone	x	x	4.10	<4.10	---	---	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10			---	0.000	0.000	x	x
Ethylene Dibromide	3	x	0.0768	<0.0768	---	---	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768	<0.0768			---	0.000	0.000	0	x
Methyl t-butyl ether (MTBE)	7000	x	0.361	<0.361	---	---	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361	<0.361			---	0.0000	0.0000	0	x
1,1,2,2-Tetrachloroethane	x	x	0.0185	<0.0185	---	---	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185			---	0.0000	0.0000	x	x
Ethyl Acetate	x	x	3.60	<3.60	---	---	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60	<3.60			---	0.000	0.000	x	x
1,1-Dichloroethylene	10	x	0.198	<0.198	---	---	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198			---	0.0000	0.0000	0	x
Benzyl chloride	x	x	2.59	<2.59	---	---	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59	<2.59			---	0.000	0.000	x	x
cis-1,2-Dichloroethylene	105	x	0.198	<0.198	---	---	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198	<0.198			---	0.0000	0.0000	0	x
Hexachlorobutadiene	x	x	0.0501	<0.0501	---	---	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501	<0.0501			---	0.0000	0.0000	x	x
trans-1,2-Dichloroethylene	105	x	0.396	<0.396	---	---	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396			---	0.0000	0.0000	0	0
Methylene Chloride	220	22000	2.78	0.408	---	---	0.407	0.323	0.61	0.681	0.525	0.687	0.930	0.484	0.349	0.403	0.354	0.389			0.504	0.930	0.323	0	0
1,1-Dichloroethane	165	1650	0.202	<0.202	---	---	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202	<0.202			---	0.0000	0.0000	0	0
1,1,1-Trichloroethane	115000	x	0.273	<0.273	---	---	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273	<0.273			---	0.00.			



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PAH Parameter	01-Jan-25	13-Jan-25	25-Jan-25	06-Feb-25	18-Feb-25	02-Mar-25	14-Mar-25	26-Mar-25	07-Apr-25	19-Apr-25	01-May-25	13-May-25	25-May-25	06-Jun-25	18-Jun-25	30-Jun-25	12-Jul-25	24-Jul-25	05-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	04-Oct-25	16-Oct-25	28-Oct-25	09-Nov-25	21-Nov-25	03-Dec-25	15-Dec-25	27-Dec-25
BENZO(A)ANTHRACENE	0.24	0.09	0.12	0.02	0.03	0.33	0.72	0.58	0.42	0.08	1.25	1.60	0.26	0.54	0.33	0.79	0.12	0.13	0.27	1.50	0.11	0.92	0.06	0.13	0.74	0.13	0.22	0.61	0.09	0.14	0.11
CHRYSENE	0.34	0.16	0.23	0.12	0.09	0.68	1.65	0.83	0.57	0.11	1.86	2.40	0.32	0.73	0.40	1.09	0.11	0.20	0.41	1.66	0.20	1.43	0.09	0.13	1.05	0.19	0.73	1.01	0.13	0.20	0.18
BENZO(B)FLUORANTHENE	0.43	0.10	0.18	0.06	0.04	0.33	1.71	0.68	0.63	0.11	3.01	3.87	0.51	1.05	0.47	1.74	0.13	0.25	0.60	2.04	0.24	2.04	0.08	0.25	1.47	0.28	1.08	1.37	0.19	0.19	0.17
BENZO(K)FLUORANTHENE	0.16	0.02	0.05	0.02	0.02	0.24	0.74	0.38	0.25	0.03	1.10	1.42	0.18	0.41	0.24	0.83	0.04	0.07	0.26	0.99	0.12	0.96	0.02	0.05	0.38	0.02	0.28	0.42	0.02	0.02	0.02
BENZO(A)PYRENE (B[a]P)	0.21	0.07	0.11	0.04	0.04	0.31	0.77	0.66	0.48	0.10	1.68	1.90	0.34	0.75	0.46	1.28	0.13	0.18	0.47	1.78	0.15	1.38	0.04	0.20	0.97	0.16	0.38	0.72	0.02	0.11	0.07
INDENO(123CD)PYRENE	0.37	0.10	0.16	0.26	0.25	0.38	1.07	0.54	0.51	0.14	2.28	2.39	0.34	0.69	0.41	1.32	0.10	0.20	0.36	1.05	0.14	1.15	0.08	0.23	0.85	0.15	0.54	0.80	0.14	0.15	0.14
DIBENZO(A,H)ANTHRACENE	0.11	0.02	0.05	0.02	0.02	0.07	0.24	0.11	0.13	0.06	0.34	0.36	0.08	0.15	0.07	0.25	0.02	0.06	0.10	0.25	0.06	0.38	0.03	0.08	0.20	0.08	0.11	0.15	0.02	0.02	0.02
BENZO(GH)PERYLENE	0.22	0.06	0.11	0.08	0.07	0.32	1.06	0.47	0.47	0.12	2.56	2.23	0.32	0.65	0.43	1.28	0.10	0.18	0.38	0.92	0.15	1.26	0.04	0.12	0.76	0.06	0.39	0.80	0.04	0.08	0.04

PAH Parameter	Q1				Q2				Q3				Q4				Annual				B[a]P Exceedances					n > AAQC
	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Q1	Q2	Q3	Q4	Total	
BENZO(A)ANTHRACENE	0.27	0.72	0.02	100.0	0.66	1.60	0.08	100.0	0.44	1.50	0.06	100.0	0.27	0.74	0.09	100.0	0.41	1.60	0.02	100.0	6	8	6	7	27	
CHRYSENE	0.51	1.65	0.09	100.0	0.93	2.40	0.11	100.0	0.59	1.66	0.09	100.0	0.45	1.05	0.13	100.0	0.62	2.40	0.09	100.0						
BENZO(B)FLUORANTHENE	0.44	1.71	0.04	100.0	1.42	3.87	0.11	100.0	0.77	2.04	0.08	100.0	0.62	1.47	0.17	100.0	0.82	3.87	0.04	100.0	0	3	2	0	5	
BENZO(K)FLUORANTHENE	0.20	0.74	0.02	100.0	0.56	1.42	0.03	100.0	0.35	0.99	0.02	100.0	0.15	0.42	0.02	100.0	0.31	1.42	0.02	100.0						
BENZO(A)PYRENE (B[a]P)	0.28	0.77	0.04	100.0	0.87	1.90	0.10	100.0	0.59	1.78	0.04	100.0	0.33	0.97	0.02	100.0	0.51	1.90	0.02	100.0						
INDENO(123CD)PYRENE	0.39	1.07	0.10	100.0	1.01	2.39	0.14	100.0	0.44	1.15	0.08	100.0	0.37	0.85	0.14	100.0	0.56	2.39	0.08	100.0						
DIBENZO(A,H)ANTHRACENE	0.08	0.24	0.02	100.0	0.18	0.36	0.06	100.0	0.13	0.38	0.02	100.0	0.09	0.20	0.02	100.0	0.12	0.38	0.02	100.0						
BENZO(GH)PERYLENE	0.30	1.06	0.06	100.0	1.01	2.56	0.12	100.0	0.43	1.26	0.04	100.0	0.29	0.80	0.04	100.0	0.51	2.56	0.04	100.0						
																										n > URT

Measurement units : ng/m³
Minimum detection limit (MDL) : 0.1 ng/m³
Reported values < 0.1 ng/m³ : Target compound meets identification criteria but is < MDL
B[a]P 24 Hour AAQC : 0.05 ng/m³
B[a]P 24 Hour Reference Level : 1.10 ng/m³
B[a]P O.Reg 419/05 URT 24 Hour Objective : 5.00 ng/m³
B[a]P AAQC Annual arithmetic mean : 0.01 ng/m³

Note: " --- " indicates invalid sample



PAH Parameter	2023																														
	01-Jan-25	13-Jan-25	25-Jan-25	06-Feb-25	18-Feb-25	02-Mar-25	14-Mar-25	26-Mar-25	07-Apr-25	19-Apr-25	01-May-25	13-May-25	25-May-25	06-Jun-25	18-Jun-25	30-Jun-25	12-Jul-25	24-Jul-25	05-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	04-Oct-25	16-Oct-25	28-Oct-25	09-Nov-25	21-Nov-25	03-Dec-25	15-Dec-25	27-Dec-25
BENZO(A)ANTHRACENE	2.32	0.45	0.13	0.02	0.60	0.21	0.08	1.83	0.21	0.78	0.04	0.08	5.17	0.07	0.09	0.11	0.05	0.43	0.02	0.02	1.10	0.20	0.05	0.61	0.19	0.07	0.04	1.47	0.16	0.59	0.10
CHRYSENE	3.76	0.76	0.25	0.11	1.33	0.75	0.23	2.84	0.51	1.01	0.03	0.12	5.98	0.07	0.09	0.11	0.03	0.54	0.05	0.03	1.58	0.36	0.09	0.89	0.32	0.10	0.08	2.13	0.39	1.09	0.13
BENZO(B)FLUORANTHENE	3.64	0.55	0.16	0.07	0.91	0.43	0.21	2.87	0.51	1.63	0.04	0.15	11.44	0.11	0.17	0.17	0.06	1.04	0.07	0.05	2.31	0.36	0.07	1.38	0.35	0.07	0.02	3.71	0.68	1.54	0.13
BENZO(K)FLUORANTHENE	1.63	0.25	0.05	0.02	0.46	0.25	0.09	1.32	0.18	0.56	0.02	0.02	4.12	0.02	0.05	0.07	0.02	0.38	0.02	0.02	1.02	0.18	0.02	0.43	0.07	0.02	0.02	0.99	0.11	0.41	0.02
BENZO(A)PYRENE (BaP)	1.98	0.37	0.10	0.02	0.61	0.29	0.11	1.69	0.26	0.90	0.02	0.09	6.46	0.07	0.11	0.14	0.05	0.72	0.06	0.05	1.50	0.28	0.02	0.80	0.26	0.11	0.02	1.44	0.13	0.78	0.06
INDENO(123CD)PYRENE	3.16	0.44	0.14	0.27	0.89	0.49	0.18	1.96	0.34	1.05	0.07	0.13	6.79	0.11	0.16	0.17	0.06	0.82	0.05	0.07	1.32	0.25	0.08	0.68	0.22	0.04	0.08	1.80	0.31	0.63	0.10
DIBENZO(A,H)ANTHRACENE	0.49	0.08	0.03	0.02	0.12	0.07	0.08	0.30	0.08	0.19	0.02	0.02	1.03	0.03	0.05	0.04	0.02	0.16	0.02	0.02	0.24	0.06	0.03	0.20	0.09	0.06	0.02	0.29	0.02	0.10	0.02
BENZO(GH)PERYLENE	2.75	0.45	0.10	0.09	0.92	0.54	0.16	1.95	0.33	1.03	0.09	0.14	6.42	0.11	0.17	0.17	0.04	0.74	0.07	0.09	1.14	0.29	0.04	0.56	0.19	0.04	0.04	1.72	0.16	0.76	0.04

PAH Parameter	Q1				Q2				Q3				Q4				Annual				B[a]P Exceedances					
	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Q1	Q2	Q3	Q4	Total	
BENZO(A)ANTHRACENE	0.71	2.32	0.02	100.0	0.82	5.17	0.04	100.0	0.27	1.10	0.02	100.0	0.40	1.47	0.04	100.0	0.56	5.17	0.02	100.0	7	7	4	7	25	n > AAQC
CHRYSENE	1.25	3.76	0.11	100.0	0.99	5.98	0.03	100.0	0.38	1.58	0.03	100.0	0.64	2.13	0.08	100.0	0.83	5.98	0.03	100.0						
BENZO(B)FLUORANTHENE	1.10	3.64	0.07	100.0	1.78	11.44	0.04	100.0	0.56	2.31	0.05	100.0	0.98	3.71	0.02	100.0	1.12	11.44	0.02	100.0						
BENZO(K)FLUORANTHENE	0.51	1.63	0.02	100.0	0.63	4.12	0.02	100.0	0.24	1.02	0.02	100.0	0.26	0.99	0.02	100.0	0.41	4.12	0.02	100.0	2	1	1	1	5	n > Ref Level
BENZO(A)PYRENE (B[a]P)	0.65	1.98	0.02	100.0	1.01	6.46	0.02	100.0	0.38	1.50	0.02	100.0	0.45	1.44	0.02	100.0	0.63	6.46	0.02	100.0						
INDENO(123CD)PYRENE	0.94	3.16	0.14	100.0	1.10	6.79	0.07	100.0	0.38	1.32	0.05	100.0	0.48	1.80	0.04	100.0	0.74	6.79	0.04	100.0	0	1	0	0	1	n > URT
DIBENZO(A,H)ANTHRACENE	0.15	0.49	0.02	100.0	0.18	1.03	0.02	100.0	0.08	0.24	0.02	100.0	0.10	0.29	0.02	100.0	0.13	1.03	0.02	100.0						
BENZO(GH)PERYLENE	0.87	2.75	0.09	100.0	1.06	6.42	0.09	100.0	0.34	1.14	0.04	100.0	0.44	1.72	0.04	100.0	0.69	6.42	0.04	100.0						

Measurement units	: ng/m³
Minimum detection limit (MDL)	: 0.1 ng/m³
Reported values < 0.1 ng/m³	: Target compound meets identification criteria but is < MDL
B[a]P 24 Hour AAQC	: 0.05 ng/m³
B[a]P 24 Hour Reference Level	: 1.10 ng/m³
B[a]P O.Reg 419/05 URT 24 Hour Objective	: 5.00 ng/m³
B[a]P AAQC Annual arithmetic mean	: 0.01 ng/m³

Note: " --- " indicates invalid sample



Hamilton Air Monitoring Network - PAH Report

STN29667- PAH - Wentworth North

PAH Parameter	01-Jan-25	13-Jan-25	25-Jan-25	06-Feb-25	18-Feb-25	02-Mar-25	14-Mar-25	26-Mar-25	07-Apr-25	19-Apr-25	01-May-25	13-May-25	25-May-25	06-Jun-25	18-Jun-25	30-Jun-25	12-Jul-25	24-Jul-25	05-Aug-25	17-Aug-25	29-Aug-25	10-Sep-25	22-Sep-25	04-Oct-25	16-Oct-25	28-Oct-25	09-Nov-25	21-Nov-25	03-Dec-25	15-Dec-25	27-Dec-25
BENZO(A)ANTHRACENE	0.07	0.07	0.11	0.05	0.02	0.10	0.61	0.06	0.06	0.06	0.37	1.60	0.20	0.78	0.39	0.94	0.05	1.29	0.02	2.38	0.03	1.95	0.11	1.06	0.60	0.81	0.02	0.11	0.07	0.13	0.11
CHRYSENE	0.10	0.11	0.19	0.18	0.10	0.34	1.63	0.13	0.08	0.05	0.69	2.20	0.23	1.01	0.46	1.21	0.03	1.74	0.03	2.93	0.07	2.60	0.16	1.19	0.83	1.05	0.03	0.19	0.15	0.20	0.17
BENZO(B)FLUORANTHENE	0.07	0.10	0.15	0.14	0.05	0.19	1.59	0.09	0.10	0.07	1.05	3.29	0.39	1.46	0.47	2.25	0.05	3.25	0.06	2.95	0.13	3.93	0.13	1.90	1.13	1.54	0.02	0.22	0.20	0.20	0.16
BENZO(K)FLUORANTHENE	0.02	0.02	0.04	0.05	0.02	0.11	0.63	0.04	0.02	0.02	0.35	1.30	0.11	0.55	0.26	0.99	0.02	1.36	0.02	1.45	0.04	1.78	0.02	0.51	0.31	0.39	0.02	0.02	0.02	0.02	0.02
BENZO(A)PYRENE (B[a]P)	0.02	0.06	0.09	0.07	0.03	0.15	0.71	0.07	0.07	0.06	0.39	1.83	0.24	1.12	0.47	1.71	0.04	2.19	0.05	2.44	0.10	2.65	0.11	1.18	0.74	0.84	0.02	0.04	0.02	0.11	0.07
INDENO(123CD)PYRENE	0.15	0.08	0.12	0.33	0.27	0.19	0.90	0.12	0.10	0.11	0.57	2.22	0.34	1.07	0.41	2.01	0.06	2.18	0.04	1.54	0.15	2.35	0.11	1.10	0.64	0.82	0.05	0.23	0.12	0.14	0.12
DIBENZO(A,H)ANTHRACENE	0.27	0.02	0.02	0.02	0.02	0.03	0.20	0.02	0.02	0.04	0.10	0.36	0.08	0.17	0.10	0.31	0.02	0.49	0.02	0.34	0.05	0.47	0.04	0.26	0.16	0.19	0.02	0.02	0.02	0.02	0.02
BENZO(GH)PERYLENE	0.07	0.04	0.07	0.15	0.07	0.16	0.82	0.13	0.09	0.11	0.62	1.94	0.39	0.95	0.38	1.77	0.04	1.72	0.04	1.39	0.17	2.07	0.06	0.78	0.51	0.63	0.04	0.13	0.04	0.04	0.04

PAH Parameter	Q1				Q2				Q3				Q4				Annual				B[a]P Exceedances					
	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Ave	Max	Min	Valid Data (%)	Q1	Q2	Q3	Q4	Total	
BENZO(A)ANTHRACENE	0.14	0.61	0.02	100.0	0.55	1.60	0.06	100.0	0.83	2.38	0.02	100.0	0.36	1.06	0.02	100.0	0.46	2.38	0.02	100.0	6	8	5	5	24	n > AAQC
CHRYSENE	0.35	1.63	0.10	100.0	0.74	2.20	0.05	100.0	1.08	2.93	0.03	100.0	0.48	1.19	0.03	100.0	0.65	2.93	0.03	100.0						
BENZO(B)FLUORANTHENE	0.30	1.59	0.05	100.0	1.13	3.29	0.07	100.0	1.50	3.93	0.05	100.0	0.67	1.90	0.02	100.0	0.88	3.93	0.02	100.0	0	3	3	1	7	n > Ref Level
BENZO(K)FLUORANTHENE	0.12	0.63	0.02	100.0	0.45	1.30	0.02	100.0	0.67	1.78	0.02	100.0	0.16	0.51	0.02	100.0	0.34	1.78	0.02	100.0						
BENZO(A)PYRENE (B[a]P)	0.15	0.71	0.02	100.0	0.74	1.83	0.06	100.0	1.08	2.65	0.04	100.0	0.38	1.18	0.02	100.0	0.57	2.65	0.02	100.0						n > URT
INDENO(123CD)PYRENE	0.27	0.90	0.08	100.0	0.85	2.22	0.10	100.0	0.92	2.35	0.04	100.0	0.40	1.10	0.05	100.0	0.60	2.35	0.04	100.0						
DIBENZO(A,H)ANTHRACENE	0.07	0.27	0.02	100.0	0.15	0.36	0.02	100.0	0.20	0.49	0.02	100.0	0.09	0.26	0.02	100.0	0.13	0.49	0.02	100.0						
BENZO(GH)PERYLENE	0.19	0.82	0.04	100.0	0.78	1.94	0.09	100.0	0.78	2.07	0.04	100.0	0.27	0.78	0.04	100.0	0.50	2.07	0.04	100.0						

Measurement units : ng/m³
Minimum detection limit (MDL) : 0.1 ng/m³
Reported values < 0.1 ng/m³ : Target compound meets identification criteria but is < MDL
B[a]P 24 Hour AAQC : 0.05 ng/m³
B[a]P 24 Hour Reference Level : 1.10 ng/m³
B[a]P O.Reg 419/05 URT 24 Hour Objective : 5.00 ng/m³
B[a]P AAQC Annual arithmetic mean : 0.01 ng/m³

Note: " --- " indicates invalid sample

Hamilton Air Monitoring Network - TSP Report

[illegible]



Hamilton Air Monitoring Network - TSP Report

Station : STN29166
Location : Jones Road, Stoney Creek

Sample Matrix : Glass Fibre
Method : ICP/ MS

Parameter	TSP	Cd	Cr	Fe	Cu	Pb	Mn	Ni	V
Name		Cadmium	Chromium	Iron	Copper	Lead	Manganese	Nickel	Vanadium
Units	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
MDL	1	0.01	0.002	0.01	0.004	0.04	0.002	0.02	0.01

Date									
01-Jan-25	1	---	---	---	---	---	---	---	---
07-Jan-25	113	---	---	---	---	---	---	---	---
13-Jan-25	18	---	---	---	---	---	---	---	---
19-Jan-25	37	---	---	---	---	---	---	---	---
25-Jan-25	56	---	---	---	---	---	---	---	---
31-Jan-25	15	---	---	---	---	---	---	---	---
06-Feb-25	16	---	---	---	---	---	---	---	---
12-Feb-25	45	---	---	---	---	---	---	---	---
18-Feb-25	15	---	---	---	---	---	---	---	---
24-Feb-25	25	---	---	---	---	---	---	---	---
02-Mar-25	25	---	---	---	---	---	---	---	---
08-Mar-25	43	---	---	---	---	---	---	---	---
14-Mar-25	91	---	---	---	---	---	---	---	---
20-Mar-25	56	---	---	---	---	---	---	---	---
26-Mar-25	48	---	---	---	---	---	---	---	---
01-Apr-25	60	---	---	---	---	---	---	---	---
07-Apr-25	99	---	---	---	---	---	---	---	---
13-Apr-25	50	---	---	---	---	---	---	---	---
19-Apr-25	48	---	---	---	---	---	---	---	---
25-Apr-25	50	---	---	---	---	---	---	---	---
01-May-25	63	---	---	---	---	---	---	---	---
07-May-25	51	---	---	---	---	---	---	---	---
13-May-25	112	---	---	---	---	---	---	---	---
19-May-25	55	---	---	---	---	---	---	---	---
25-May-25	20	---	---	---	---	---	---	---	---
31-May-25	57	---	---	---	---	---	---	---	---
06-Jun-25	136	---	---	---	---	---	---	---	---
12-Jun-25	90	---	---	---	---	---	---	---	---
18-Jun-25	56	---	---	---	---	---	---	---	---
24-Jun-25	85	---	---	---	---	---	---	---	---
30-Jun-25	55	---	---	---	---	---	---	---	---

Parameter	TSP	Cd	Cr	Fe	Cu	Pb	Mn	Ni	V
Name		Cadmium	Chromium	Iron	Copper	Lead	Manganese	Nickel	Vanadium
Units	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
MDL	1	0.01	0.002	0.01	0.004	0.04	0.002	0.02	0.01

Date									
06-Jul-25	50	---	---	---	---	---	---	---	---
12-Jul-25	36	---	---	---	---	---	---	---	---
18-Jul-25	66	---	---	---	---	---	---	---	---
24-Jul-25	99	---	---	---	---	---	---	---	---
30-Jul-25	83	---	---	---	---	---	---	---	---
05-Aug-25	108	---	---	---	---	---	---	---	---
11-Aug-25	93	---	---	---	---	---	---	---	---
17-Aug-25	29	---	---	---	---	---	---	---	---
23-Aug-25	37	---	---	---	---	---	---	---	---
29-Aug-25	31	---	---	---	---	---	---	---	---
04-Sep-25	32	---	---	---	---	---	---	---	---
10-Sep-25	65	---	---	---	---	---	---	---	---
16-Sep-25	70	---	---	---	---	---	---	---	---
22-Sep-25	47	---	---	---	---	---	---	---	---
28-Sep-25	42	---	---	---	---	---	---	---	---
04-Oct-25	75	---	---	---	---	---	---	---	---
10-Oct-25	74	---	---	---	---	---	---	---	---
16-Oct-25	58	---	---	---	---	---	---	---	---
22-Oct-25	15	---	---	---	---	---	---	---	---
28-Oct-25	110	---	---	---	---	---	---	---	---
03-Nov-25	21	---	---	---	---	---	---	---	---
09-Nov-25	13	---	---	---	---	---	---	---	---
15-Nov-25	26	---	---	---	---	---	---	---	---
21-Nov-25	41	---	---	---	---	---	---	---	---
27-Nov-25	64	---	---	---	---	---	---	---	---
03-Dec-25	39	---	---	---	---	---	---	---	---
09-Dec-25	106	---	---	---	---	---	---	---	---
15-Dec-25	60	---	---	---	---	---	---	---	---
21-Dec-25	47	---	---	---	---	---	---	---	---
27-Dec-25	9	---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---

Arith Mean	55	---	---	---	---	---	---	---	---
Geo Mean	44	---	---	---	---	---	---	---	---
Max	136	---	---	---	---	---	---	---	---
Min	1	---	---	---	---	---	---	---	---
AAQC	120	---	---	---	---	---	---	---	---
No. > AAQC	1	---	---	---	---	---	---	---	---
URT	n/a	---	---	---	---	---	---	---	---
No. > URT	n/a	---	---	---	---	---	---	---	---
Sampling Dates	61	---	---	---	---	---	---	---	---
Valid Samples	61	---	---	---	---	---	---	---	---
% Valid Data	100.0	---	---	---	---	---	---	---	---



Sample Matrix : Glass Fibre
Method : ICP/ MS

[illegible][illegible]

[illegible]