

The [Perth Air Quality Management Plan \(AQMP\)](#) was released in December 2000. The plan aims to ensure that clean air is achieved and maintained throughout the Perth metropolitan region to 2030 and beyond.

The short- and long-term actions in the Perth AQMP address a variety of issues through eight key initiatives: land use and transport planning; vehicle emissions management; health effects research and indoor air quality; monitoring and modelling; industrial emissions management; small to medium enterprise emissions management; haze reduction; and smoke management.

Some highlights include:

### Your Move program

The Your Move program (previously TravelSmart) encourages people to walk, ride a bicycle or catch public transport for some trips they would otherwise make by car.

The program offers intensive support to households, schools and workplaces in targeted areas in Perth and Peel, while also providing self-help services to all households, workplaces and schools across the region.

In addition to the program's new name, the [Your Move website](#) was developed to make it easier for all school, workplace and local government program participants to interact, share and use program resources.

#### Highlights 2016-19

- The number of schools participating in Your Move increased to more than 90. School champions used online resources to survey students, run classroom activities and hold event days. Travel surveys at participating schools from 2014-18 found that active travel increased by 13 per cent.
- Your Move schools can apply for a Connecting Schools grant to fund upgrades to active transport infrastructure such as bicycle and scooter racks. During 2016-19, 16 projects in metropolitan Perth schools received grants.
- The Your Move Central project was delivered in 2017, which focused on peak period trips in central Perth. The project engaged residents in the Town of Victoria Park, two local schools and nine workplaces within the Perth CBD. Active transport was promoted for trips to work and school, with maps and other information on travel options provided.
- Over 2016-19, 56 organisations joined Your Move to promote active transport among their employees. This included several local governments as well as hospitals, universities, businesses and others. Your Move supported them to implement practical actions to enable active, low-emission commuting.



### RAC e-Bikes



RAC trialed e-Bikes in Perth and Albany, in partnership with the City of Perth, City of Wanneroo, North Metropolitan Area Health Service through Queen Elizabeth II Medical Centre Trust, the University of Western Australia, the City of Albany and the Department of Sport and Recreation. The trial demonstrated the attractiveness and convenience of cycling as a means transport which assists with lowering vehicle emissions.

#### Highlights 2016-19

Positive results coming out of both metropolitan and regional e-Bike trials included:

- over half of the participants purchased an e-Bike when the trial ended
- during the trial more than half of commuting trips were made by e-Bike
- across the trial almost 3,000 trips were made by e-Bike.

### BurnWise

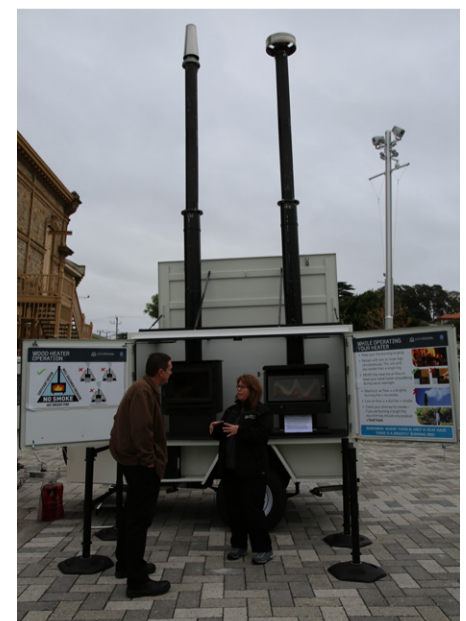


The Department of Water and Environment Regulation's BurnWise program promotes responsible wood heater operation. BurnWise provides:

- support and tools for local government environmental health officers to reduce the impacts of wood smoke in their communities
- workshops on the BurnWise Wood smoke management guide
- community education using the wood heater demonstration trailer.

#### Highlights 2016-19

- In 2017, community education events were delivered in Mundaring and Fremantle. Events scheduled for Duncraig, Kalamunda, North Perth and Medina were cancelled due to rain.
- Regional events were delivered in Bunbury, Busselton, Esperance, Albany and Denmark. About 400 people visited the trailer and spoke to program officers at the events in Bunbury (80), Busselton (50), Esperance (100), Albany (40) and Denmark (50). Seventy-five year seven students from Denmark Senior High School visited the trailer for an interactive lesson delivered by the department's staff.
- The department delivered BurnWise workshops on the wood smoke management guide and use of the toolkits to local government environmental health officers from the Shire of Esperance and the City of Kalgoorlie-Boulder.
- On 31 August 2018, the [Environmental Protection \(Solid Fuel Heater and Firewood\) Regulations 2018](#) administered by the department were gazetted. The regulations establish mandatory efficiency and emission standards for [wood heaters sold in Western Australia](#) and mandatory quality standards for firewood offered for sale to ensure that air emissions from heaters and firewood are minimised.



## CleanRun



CleanRun is a program run by the Department of Water and Environmental Regulation which consists of a range of targeted initiatives to reduce vehicle emissions, such as:

- roadside vehicle emissions monitoring and free health checks of vehicle emissions using the remote sensing device (RSD)
- the Smoky Vehicle Reporting Program for community reporting of smoky vehicles.

### Highlights 2016-19

- The CleanRun RSD was deployed over 12 days between November and December 2017 and collected valid emission samples on 19,047 vehicles.
- Drivers received instant feedback on their vehicle emissions via a SmartSign in the form of a 'good', 'fair' or 'poor' rating.
- Average vehicle emissions were observed to be lower than previous years. The [CleanRun 2017 annual report](#) summarises the key findings.
- The [2016-2017 Smoky Vehicle Reporting Program – Annual report](#) was published. 480 vehicles reported using online Smoky Vehicle Reporting System with nearly half of vehicle owners reporting having repaired or serviced their vehicles.
- The [2017-2018 Smoky Vehicle Reporting Program – Annual report](#) was published. 415 vehicles reported using online Smoky Vehicle Reporting System with over two thirds of vehicle owners reporting having repaired or serviced their vehicles.
- There were improvements to the RSD data validation processes which enhanced the reliability of the data.

## Air quality monitoring and modelling

The objectives of this program are to:

- introduce procedures for the ongoing development of current air quality models and the review of new modelling methods and techniques for application in Perth
- develop future monitoring programs, based on the exposure to and impact of air toxics and acid gases, and evaluate monitoring options, such as mobile monitoring facilities.

This program run by the Department of Water and Environmental Regulation aims to ensure that the existing monitoring network is maintained and improved, and assesses trends in air quality. The program incorporates reviewing Perth ambient air quality monitoring data, and reviewing and improving monitoring equipment.



### Highlights 2016-19

- Started a two-to-three-year program for the development of an advanced regional air quality model for use in priority airsheds.
- Successfully developed techniques on the Pawsey Supercomputing Centre for running complex models, and developed tools and procedures for ongoing regional model improvement.
- Began testing new devices and methodologies, such as real time particle sensors.
- Undertook a number of surveillance studies, including the use of Light Detection and Ranging (LIDAR) to map dust plumes and identify dust sources and Remote Air Pollution Infrared Detector (RAPID) instruments to monitor and track volatile organic compounds and ammonia plumes.

## Heavy industry

The Department of Water and Environmental Regulation effectively manages emissions and discharges to the Perth airshed to avoid unacceptable risks to public health and the environment.

The department coordinates the provision of data to the [National Pollutant Inventory](#) (NPI), a publicly accessible national internet database which provides the community, industry and government with information on the emissions of 93 substances from industry, transport and commercial premises to air, land and water. The department worked with industry to collect, validate and report available emissions and transfer data from industrial facilities in Western Australia. We conducted audits on companies submitting NPI reports, with facilities ranging from gold mines, quarries, power stations, and oil refineries to fertiliser manufacturers. These audits enable onsite assessment of emission values reported to the NPI and assist in developing an understanding of facility operations and possible issues associated with reporting.

## Prescribed burning

The Smoke Management Liaison Group began work led by Asthma WA in collaboration with the Bureau of Meteorology, Department of Health, Department of Water and Environmental Regulation, Department of Biodiversity Conservation and Attractions, Department of Fire and Emergency Services and the Western Australian Local Government Association to work with affected community members on the impacts from state and local government planned burning activities.



## About the Air Quality Coordinating Committee

The Air Quality Coordinating Committee (AQCC) is comprised of representatives from the State Government, industry, business and the community. Its role is to monitor the implementation of the [Perth AQMP](#) and review the progress towards achieving the plan's aims.

## AQCC members

Membership as at 30 June 2019:

### State Government

- Sarah McEvoy, Chair ([Department of Water and Environmental Regulation](#))
- Mirella Goetzmann ([Department of Health](#))
- Andrew Lee ([Department of Transport](#))
- Katie MacWilliams ([Department of Biodiversity Conservation and Attractions](#))
- Jacquie Stone ([Department of Planning Lands and Heritage](#))
- Joscyln Sloan ([Department of Mines, Industry Regulation and Safety](#))

### Community

- Professor Philip Jennings ([Conservation Council of Western Australia](#))
- Dr Sue Graham-Taylor (Pollution Action Network)
- Martin Chape (Community Member)

### Business and Industry

- Nick Jones ([WA Local Government Association](#))
- Chris Oughton ([Kwinana Industries Council](#))
- Anne Still ([Royal Automobile Club of WA](#))

The Air Quality Coordinating Committee met twice between July 2016 and June 2019.

## Contact the Air Quality Coordinating Committee

For more information, please contact the secretary:

Phone: 6364 6581

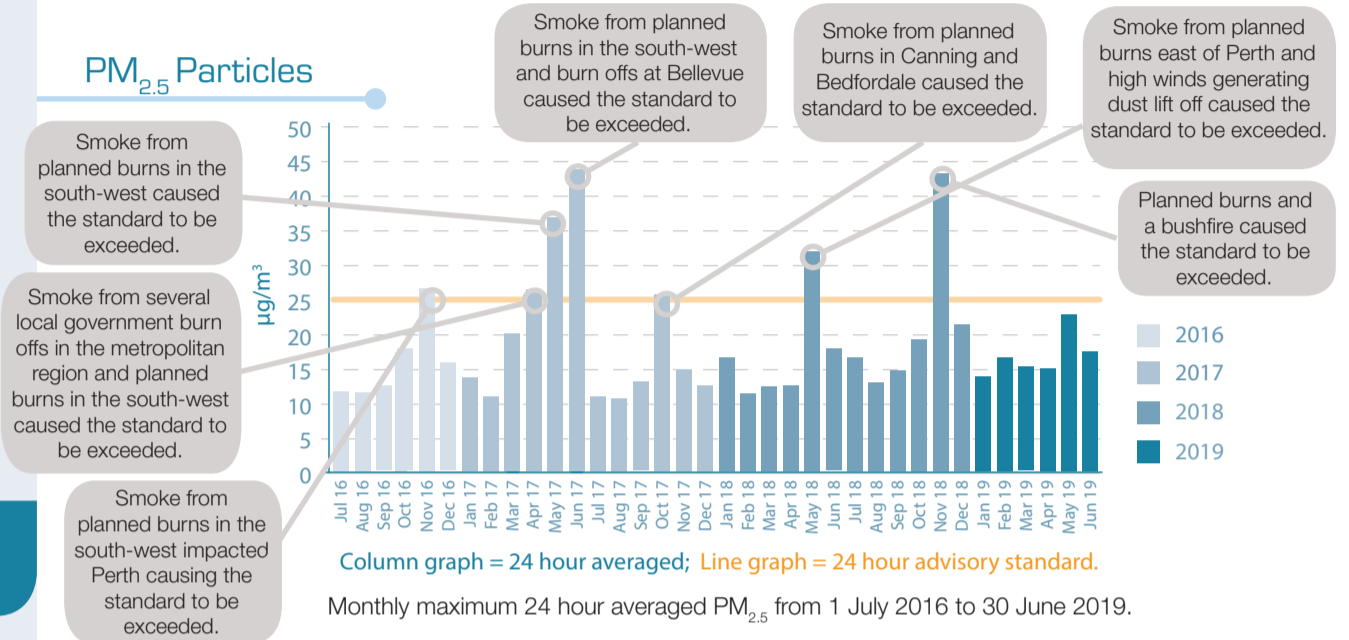
Email: [AQCCadmin@der.wa.gov.au](mailto:AQCCadmin@der.wa.gov.au)

or visit us at the [Air Quality Coordinating Committee, Department of Water and Environmental Regulation](#)

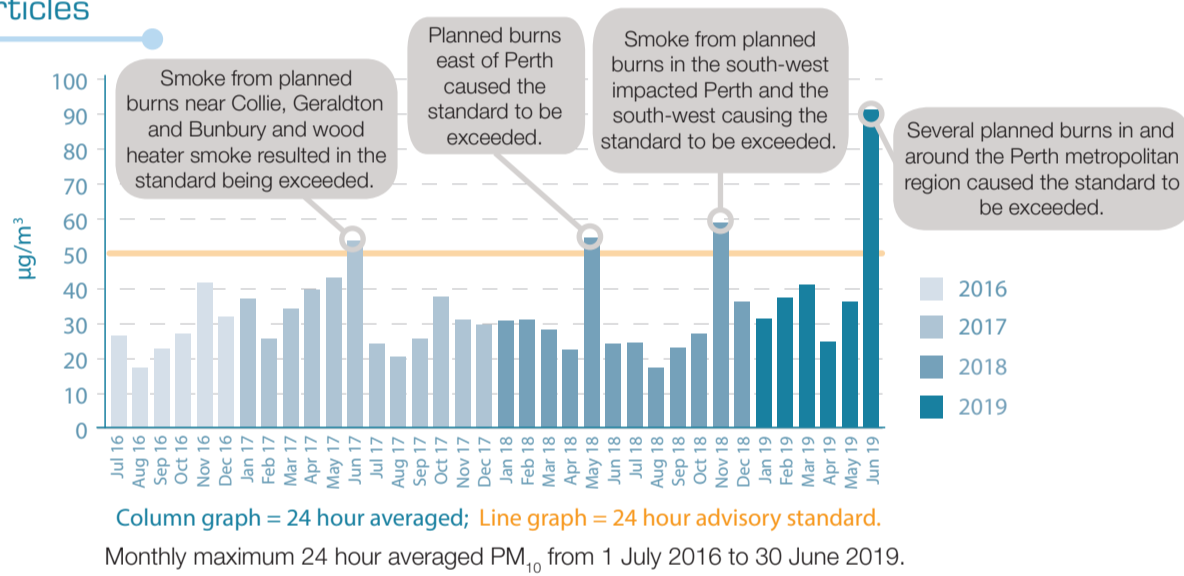
## Air pollutant trends 2016-19

The graphs below show the maximum levels for fine particle (PM<sub>2.5</sub>), coarse particles (PM<sub>10</sub>), ozone and nitrogen dioxide from 1 July 2016 to 30 June 2019, recorded at Perth monitoring stations (Caversham, South Lake, Duncraig, Rolling Green, Quinns Rocks, Rockingham, Swanbourne and Wattleup). For comparison, the diameter of a human hair is seven times the diameter of the largest coarse particle (PM<sub>10</sub>). The high concentrations of particles were primarily due to natural dust, smoke haze and local vehicle emissions. The precursors for ozone (an indicator of photochemical smog) are produced predominantly by motor vehicles and industry. Nitrogen dioxide in cities is predominantly caused by motor vehicles and contributes to the formation of photochemical smog.

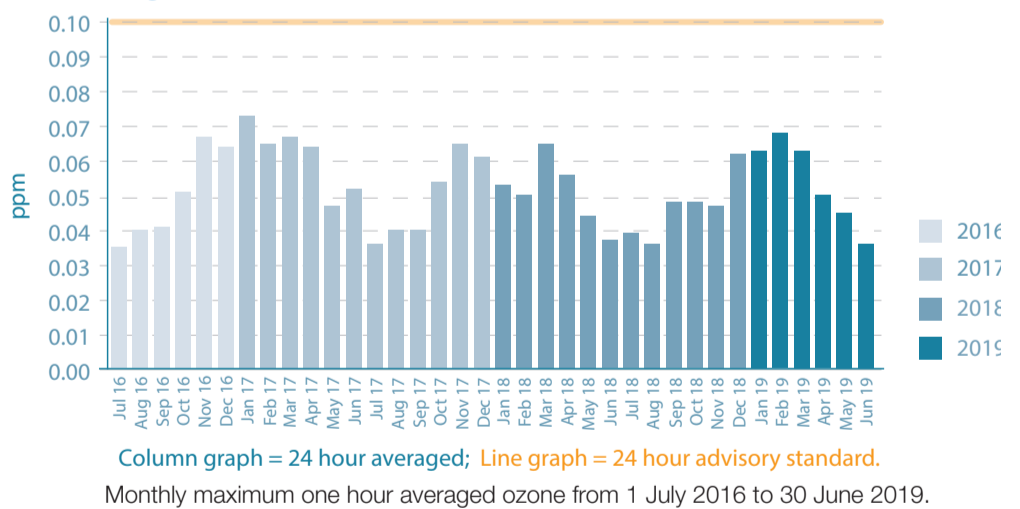
### PM<sub>2.5</sub> Particles



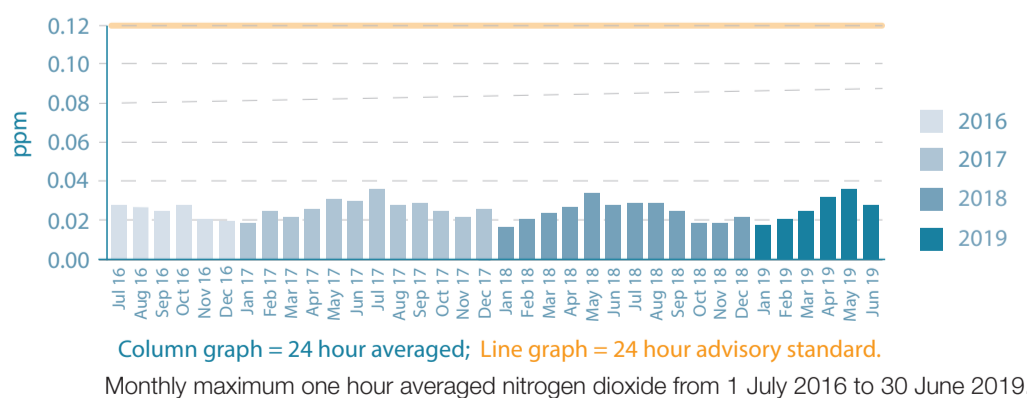
### PM<sub>10</sub> Particles



### Ozone



### Nitrogen dioxide



Further details on air pollutant trends in Perth can be found in the [WA Air Monitoring Reports](#) which are available on [the department's website](#). An hourly update of air quality in WA is also available on [the department's website](#).