AIR QUALITY MONITORING IN TOWNSVILLE

Air Quality Monitoring in Townsville is conducted separately by both the Department of Environment and Science (DES), and Port of Townsville Limited.

Click here to visit the Port of Townsville's monitoring network

Click here to visit DES monitoring network

Air Quality Monitoring Locations

Information

- Dust Monitoring Equipment – an explanation
- What cargo is handled at the Townsville Port?
- Subscribe, ask questions, provide feedback
- Queensland Health statement on lead and safe levels in air around humans
- What does this Dashboard show me?

Data

- **Live** Air Quality Monitoring data
- Air Quality Bulletin
- **Live** Shipping Schedule
- Rainfall Data - BOM
- Air Quality Monitoring Plan

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Calendar Year Average PM10 dust levels (continuous) at boundary air stations 2019

PM10	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	20.0 µg/m^3	Continuous	25 µg/m^3
Lennon Drive	20.4 µg/m^3	Continuous	25 µg/m^3
Enviro Park	Insufficient Data to calculate CY Avg	Continuous	25 µg/m^3

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Calendar Year Average Arsenic in PM10 dust levels (one in six days) at boundary air stations 2019

Arsenic	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.0009 µg/m^3	HVAS PM10	0.006 µg/m^3
Lennon Drive	0.0009 µg/m^3	HVAS PM10	0.006 µg/m^3
Enviro Park	0.0008 µg/m^3	HVAS PM10	0.006 µg/m^3

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Calendar Year Average Cadmium in PM10 dust levels (one in six days) at boundary air stations 2019

Cadmium	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.0006 µg/m^3	HVAS PM10	0.005 µg/m^3
Lennon Drive	0.0003 µg/m^3	HVAS PM10	0.005 µg/m^3
Enviro Park	0.0003 µg/m^3	HVAS PM10	0.005 µg/m^3

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Calendar Year Average Nickel in PM10 dust levels (one in six days) at boundary air stations 2019

Nickel	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.0055 µg/m^3	HVAS PM10	0.02 µg/m^3
Lennon Drive	0.0037 µg/m^3	HVAS PM10	0.02 µg/m^3
Enviro Park	0.0025 µg/m^3	HVAS PM10	0.02 µg/m^3

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Calendar Year Average Arsenic in dust deposition levels (monthly) at boundary stations 2019

Arsenic	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	<1 µg/m^2/day	Dust deposition	4 µg/m^2/day
Lennon Drive	<1 µg/m^2/day	Dust deposition	4 µg/m^2/day
Enviro Park	<1 µg/m^2/day	Dust deposition	4 µg/m^2/day

Calendar Year Average Cadmium in dust deposition levels (monthly) at boundary stations 2019

Cadmium	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.5 ug/m2/day	Dust deposition	2 ug/m2/day
Lennon Drive	0.5 ug/m2/day	Dust deposition	2 ug/m2/day
Enviro Park	0.4 ug/m2/day	Dust deposition	2 ug/m2/day

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Calendar Year Average Lead in dust deposition levels (monthly) at boundary stations 2019

Lead	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	45.1 µg/m^2/day	Dust deposition	100 µg/m^2/day
Lennon Drive	40.3 µg/m^2/day	Dust deposition	100 µg/m^2/day
Enviro Park	66.9 µg/m^2/day	Dust deposition	100 µg/m^2/day

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This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

Environmental limits for lead are set using a number of possible criteria including potential health effects.

Blood lead level within the Australian population have been decreasing over time as the use of lead – particularly in petrol and paint - has been phased put. The most recent NHMRC guidance document suggests that a blood lead level of less than 5 µg/dL is what should be expected in the general population.

Elevated blood lead levels are notified to Queensland Health for investigation. Previously this level was 10 µg/dL but since the beginning of 2016 has been reduced to 5 µg/dL. This is not an indication of a safe blood level, but is a trigger level that requires investigation into what in the individual's environment is contributing to the level.

Based on studies recognised by the World Health Organisation into the relationship between lengthy exposure to ambient air lead levels and increases in blood lead levels, the current 12 month rolling average for measurements (as at March 2016) at the Townsville Coast Guard Site could be expected to add between 0.36 µg/dL and 0.6 µg/dL to a person's total blood lead level. This increment is only about 10% of the level that would require further investigation. Along with other normal exposure, this would not be expected to exceed that level, is well within the expected community range, and below the level that would trigger further investigation.

The highest rolling annual average in recent years (recorded in May 2014 at the Townsville Coast Guard Site) yields a predicted result of between 1.14 µg/dL and 1.9 µg/dL, still well under the level which should trigger concern.