

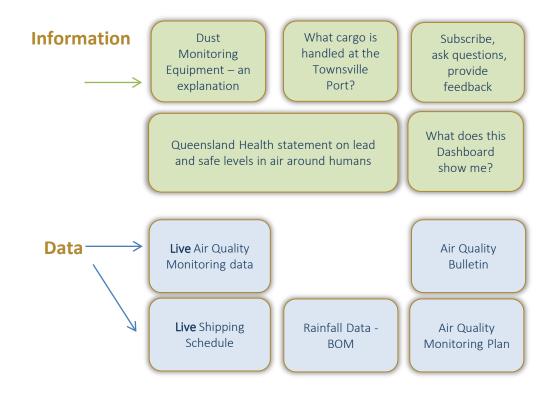
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Air Quality Dashboard | OCTOBER | 2020

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.





Shipping Movements in October 2020

Date In/Out	Vessel Name	Cargo	Berth	Date In/Out	Vessel Name	Cargo	Berth
2 Oct - 03 Oct	YANGTZE HARMONY	Fodder, Cattle (Export), Nil Cargo (Import)	T03South	16 Oct - 16 Oct	HYPERION LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T10
2 Oct - 04 Oct	PACIFIC CONDOR	General Cargo (Export), Containers (Import)	T03North	16 Oct - 17 Oct	STI FONTVIEILLE	Nil Cargo (Export), Fuels (Import)	T01
3 Oct - 05 Oct	ECO DESTINY	Nil Cargo (Export), Fertilizer (Import)	T10	17 Oct - 18 Oct	GAIA LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T04
3 Oct - 05 Oct	OCEAN DROVER	Fodder, Cattle (Export), Nil Cargo (Import)	T04	17 Oct - 20 Oct	FAIRCHEM VALOR	Sulphuric Acid (Export), Nil Cargo (Import)	T01
3 Oct - 05 Oct	VENTURE GRACE	Sugar (Export), Nil Cargo (Import)	T09	18 Oct - 20 Oct	HOUTMANGRACHT	Copper Concentrates (Export), Nil Cargo (Import)	T10
5 Oct - 06 Oct	THERESA MICRONESIA	Molasses (Export), Nil Cargo (Import)	T09	19 Oct - 19 Oct	HANSA CLOPPENBURG	Nil Cargo (Export), Containers (Import)	T03South
6 Oct - 08 Oct	CORONADO BAY	Containers (Export), Containers (Import)	T04	20 Oct - 22 Oct	THERESA MICRONESIA	Molasses (Export), Nil Cargo (Import)	Т09
7 Oct - 08 Oct	KAITI HILL	Nil Cargo (Export), Fertilizer (Import)	T03South	21 Oct - 22 Oct	STI AMBER	Nil Cargo (Export), Fuels (Import)	T01
7 Oct - 10 Oct	AFRICAN ROOK	Nil Cargo (Export), Fertilizer (Import)	T08	21 Oct - 22 Oct	ASPHALT CARRIER	Nil Cargo (Export), Bitumen (Import)	T04
7 Oct - 08 Oct	HAMBURG HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T10	21 Oct - 22 Oct	DRIVE GREEN HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03North
7 Oct - 09 Oct	ROSLYN	Sugar (Export), Nil Cargo (Import)	LUC	21 Oct - 22 Oct	SEA BREEZE	Zinc Concentrates (Export), Nil Cargo (Import)	T11
8 Oct - 09 Oct	ELANDRA PINE	Nil Cargo (Export), Fuels (Import)	T01	21 Oct - 23 Oct	AL KUWAIT	Fodder, Cattle (Export), Nil Cargo (Import)	T10
8 Oct - 09 Oct	SOFRANA TOURVILLE	Containers (Export), Containers (Import)	T04	22 Oct - 24 Oct	SEA BREEZE	Nil Cargo (Export), Nil Cargo (Import)	T03South
9 Oct - 10 Oct	ECKERT OLDENDORFF	Concentrates (Export), Nil Cargo (Import)	T03South	23 Oct - 24 Oct	ANSAC WYOMING	Concentrates (Export), Nil Cargo (Import)	T08
9 Oct - 10 Oct	FUZEYYA	Sugar (Export), Nil Cargo (Import)	Т09	24 Oct - 31 Oct	EOS ESPERANCE	Zinc Ferrites (Export), Nil Cargo (Import)	T10
0 Oct - 12 Oct	GULF MUTTRAH	Nil Cargo (Export), Fuels (Import)	T01	24 Oct - 26 Oct	SANTA BARBARA	Nil Cargo (Export), Nil Cargo (Import)	T03South
1 Oct - 13 Oct	KOTA HIDAYAH	Containers (Export), Containers (Import)	T03South	26 Oct - 28 Oct	ORTOLAN ALPHA STRAIT	Nil Cargo (Export), Fertilizer (Import)	Т09
2 Oct - 16 Oct	BROADGATE	Concentrates (Export), Nil Cargo (Import)	T11	26 Oct - 28 Oct	KONDILI	Nil Cargo (Export), Cement (Import)	T04
2 Oct - 15 Oct	MILLION BELL	Fertilizer (Export), Nil Cargo (Import)	T08	26 Oct - 28 Oct	SOUTHGATE	Concentrates (Export), Nil Cargo (Import)	T11
2 Oct - 14 Oct	THERESA ORION	Molasses (Export), Nil Cargo (Import)	Т09	26 Oct - 27 Oct	SANTA BARBARA	Lead Ingots (Export), Nil Cargo (Import)	T08
2 Oct - 13 Oct	GOLDEN ASPIRANT	Nil Cargo (Export), Fuels (Import)	T01	26 Oct - 28 Oct	FLORA DELMAS	Containers (Export), Containers (Import)	T03South
2 Oct - 14 Oct	OCEAN HIRYU	Sugar (Export), Nil Cargo (Import)	LUC	28 Oct - 29 Oct	ORTOLAN ALPHA STRAIT	Nil Cargo (Export), Nil Cargo (Import)	T03South
3 Oct - 14 Oct	HANSA REGENSBURG	Nil Cargo (Export), Nil Cargo (Import)	T03South	28 Oct - 29 Oct	SUNSET	Sugar (Export), Nil Cargo (Import)	Т09
3 Oct - 16 Oct	WYUNA	Nil Cargo (Export), Cement (Import)	T04	30 Oct - 31 Oct	BUXHANSA	Containers (Export), Containers (Import)	T04
4 Oct - 14 Oct	SWALLOW ACE	Nil Cargo (Export), Motor Vehicles (Import)	T10	30 Oct - 31 Oct	TEAM CALYPSO	Nil Cargo (Export), Fuels (Import)	T01
4 Oct - 15 Oct	ASPHALT SPIRIT	Nil Cargo (Export), Bitumen (Import)	T01				

T08

T01

Zinc Concentrates (Export), Nil Cargo (Import)

Nil Cargo (Export), Bitumen (Import)

OCEAN VICTORY

SUNBIRD ARROW



First established in 1864, the Port of Townsville operates eight berths handles around \$8 billion in trade; servicing more than 136 ports around the globe.

Port of Townsville Overview

In 2019-20, the Port of Townsville delivered strong financial results and continued to roll-out major infrastructure investments despite the impacts of the global pandemic, COVID-19. In a year where supply chains across the world have been tested, a total of 8.2 million tonnes of freight passed over our wharves, which was a 6.5 per cent increase on last year. With a focus on cost management, the Port also reported a \$13.87 million net profit for 2019/20, see the Annual Report.

The role of mining, resources and agricultural industries have never been more significant with our growth primarily driven by exports of mineral concentrates (up 17%), fertiliser (up 25%) and livestock (up 32%), making it Australia's largest live cattle export port. Townsville is the number one port in Australia for copper, zinc, lead and sugar exports and services 70% of the Northern Australia population. More than 20 shipping lines operate out of the Townsville Port offering more than 40 different services. Townsville is also a strategic Navy port and facilitates cruise ship visits.

Commodities/cargo that passes over the Townsville Port's berths include:

Import

Containers and general cargo, motor vehicles, tyres, bulk products - cement, sulphuric acid, fertiliser, sulphur, zinc concentrate and petroleum (fuel) products.

Exports

General cargo, containers, timber, cattle, tallow, refined metal products, bulk products - sugar, molasses, fertiliser and mineral concentrates (zinc, copper, lead).





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OR

Visit the Port of Townsville Facebook page and click on "Sign up" at the top of the page.

OR

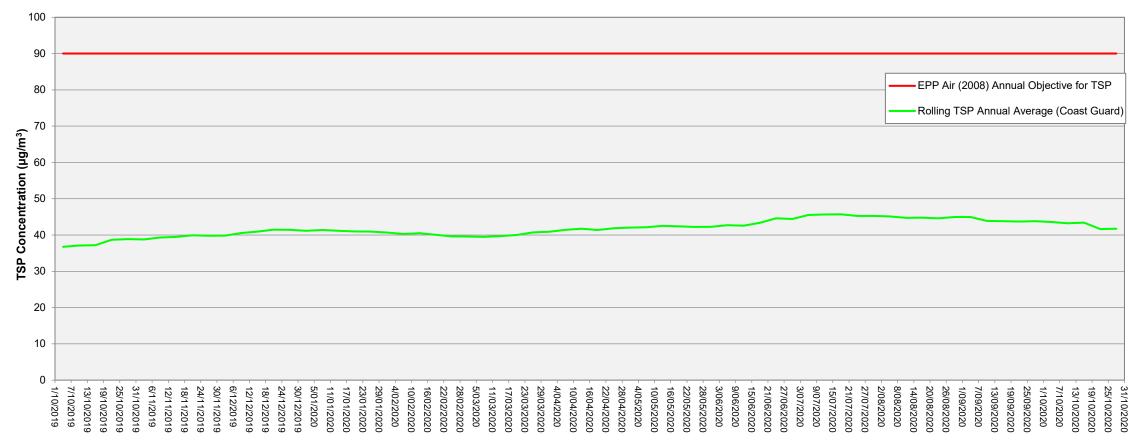
Phone 07 4781 1500 and asked to be added to the list.

Ask a Question / Provide Feedback

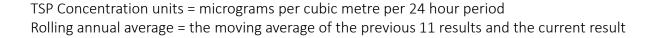
Send your enquiry or feedback to community@townsvilleport.com.au



Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site OCTOBER 2019 – OCTOBER 2020

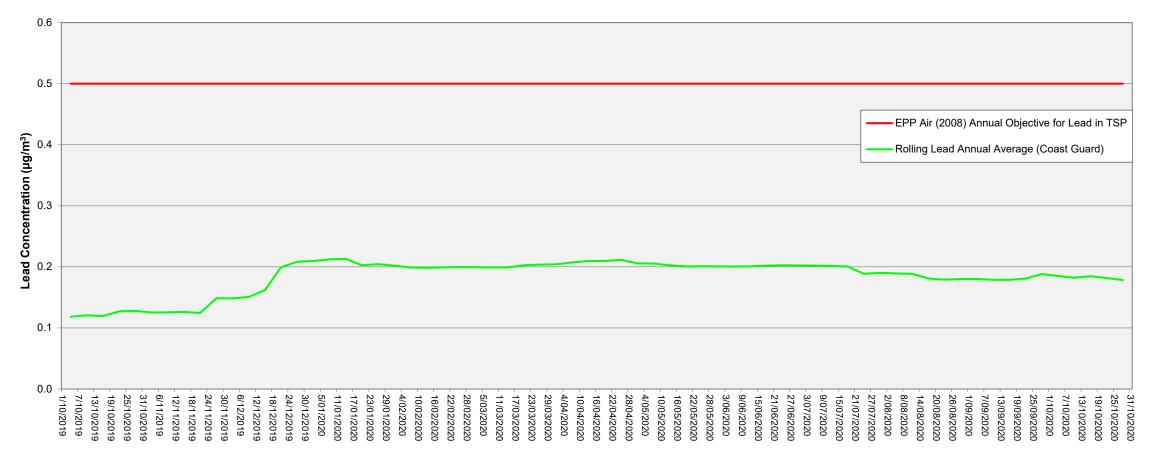








Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site OCTOBER 2019 – OCTOBER 2020

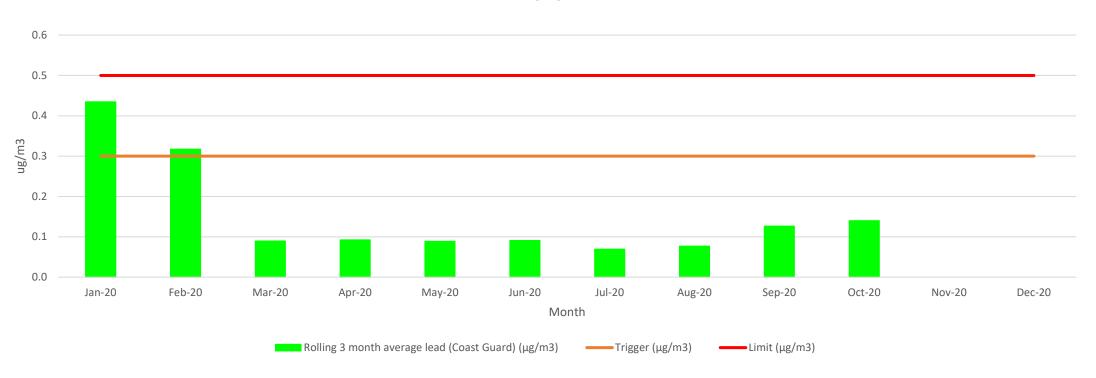




Lead Concentration units = micrograms per cubic metre per 24 hour period Rolling annual average = the moving average of the previous 11 results and the current result



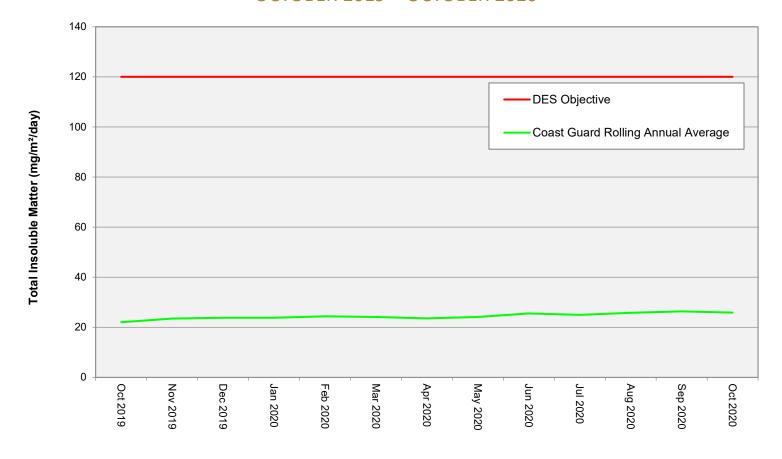
Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2020



Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result



Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site OCTOBER 2019 – OCTOBER 2020

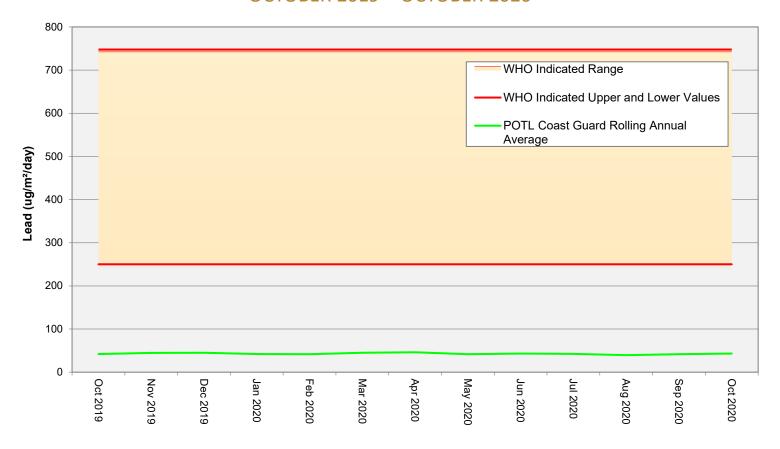




Total Insoluble Matter Concentration units = micrograms per square metre per day Rolling annual average = the moving average of the previous 11 results and the current result



Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site OCTOBER 2019 – OCTOBER 2020

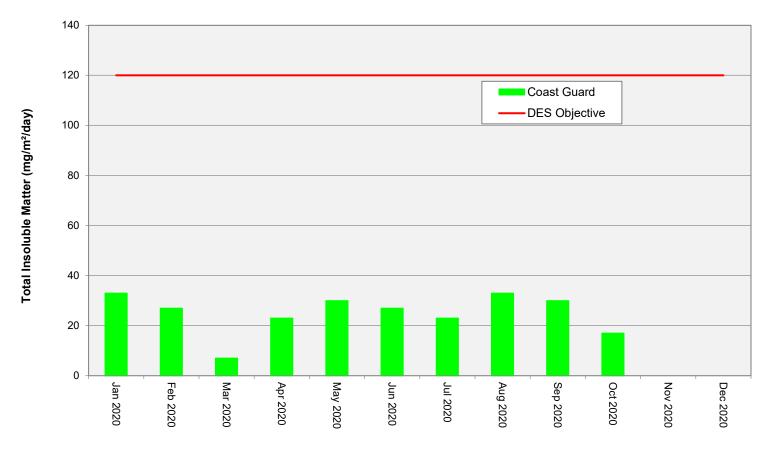


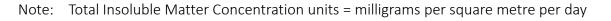
Note: Lead Concentration units = micrograms per square metre per day

Rolling annual average = the moving average of the previous 11 results and the current result.



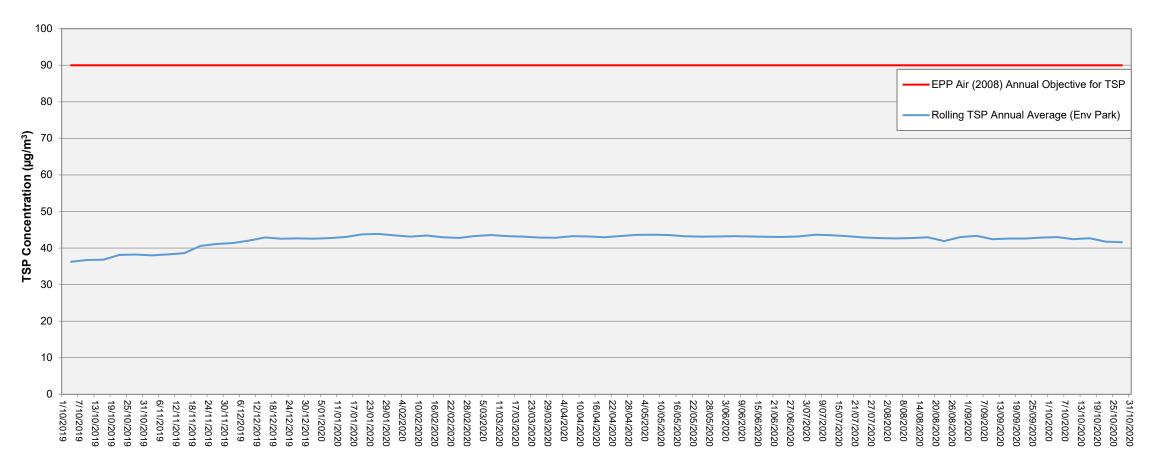
Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2020







Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site OCTOBER 2019 – OCTOBER 2020

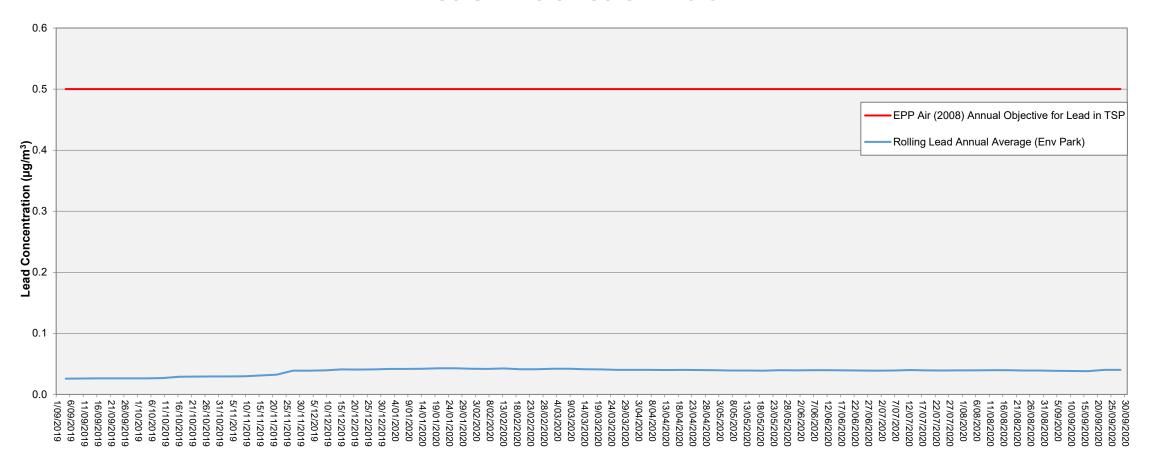




TSP Concentration units = micrograms per cubic metre per 24 hour period Rolling annual average = the moving average of the previous 11 results and the current result



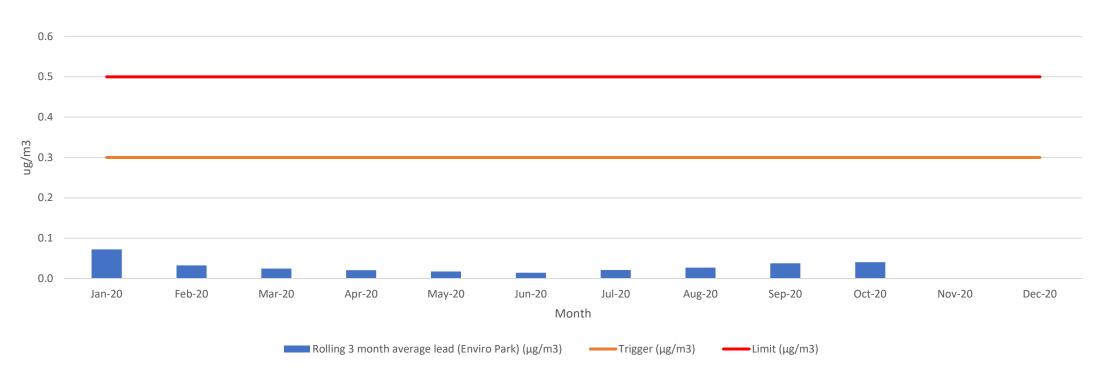
Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site OCTOBER 2019 – OCTOBER 2020





Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

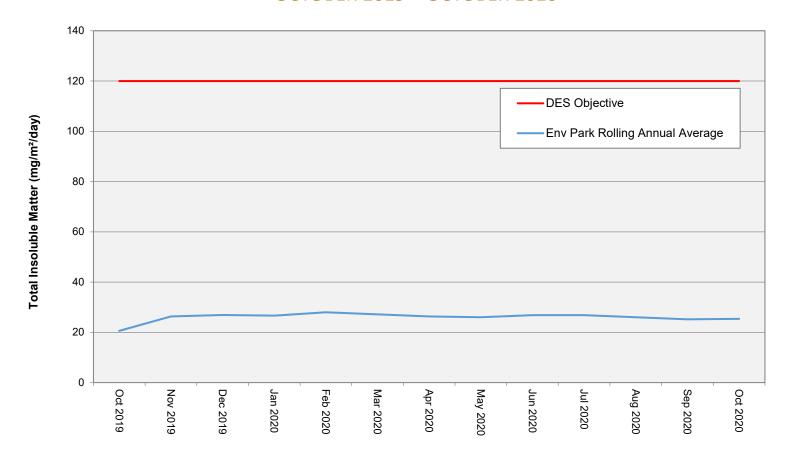
Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2020



Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result



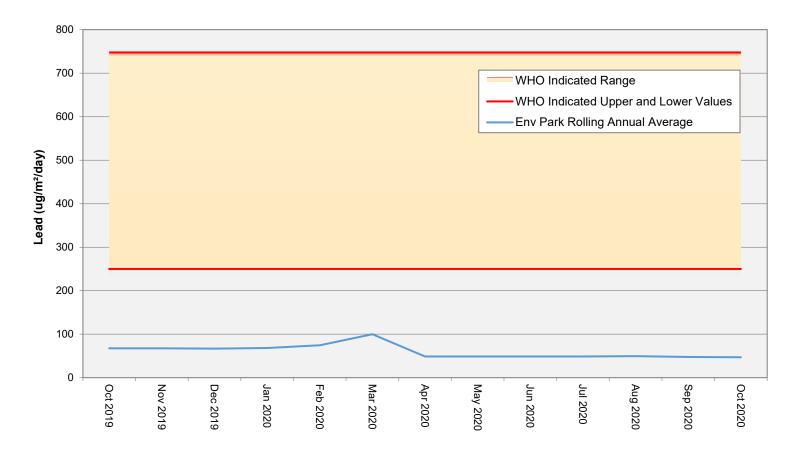
Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site OCTOBER 2019 – OCTOBER 2020



Note: Total Insoluble Matter Concentration units = micrograms per square metre per day Rolling annual average = the moving average of the previous 11 results and the current result



Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site OCTOBER 2019 – OCTOBER 2020

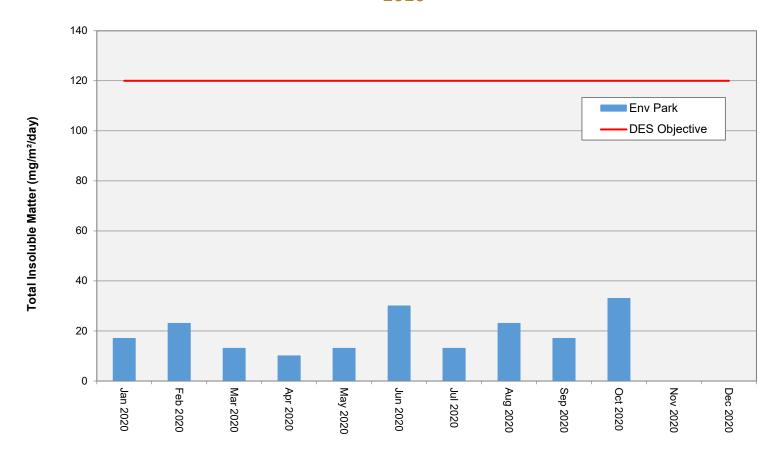




Note:

Lead Concentration units = micrograms per square metre per day Rolling annual average = the moving average of the previous 11 results and the current result

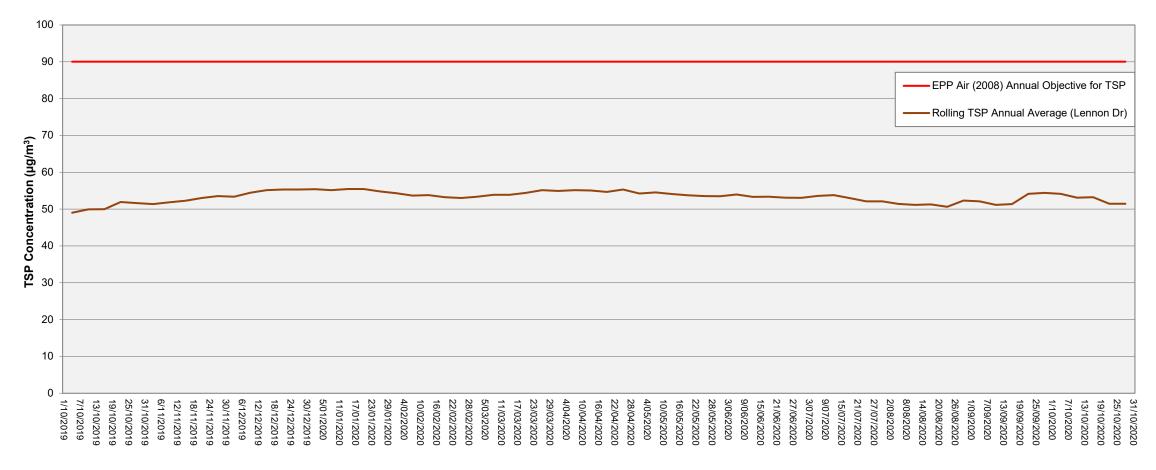
Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2020



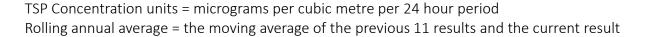
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day



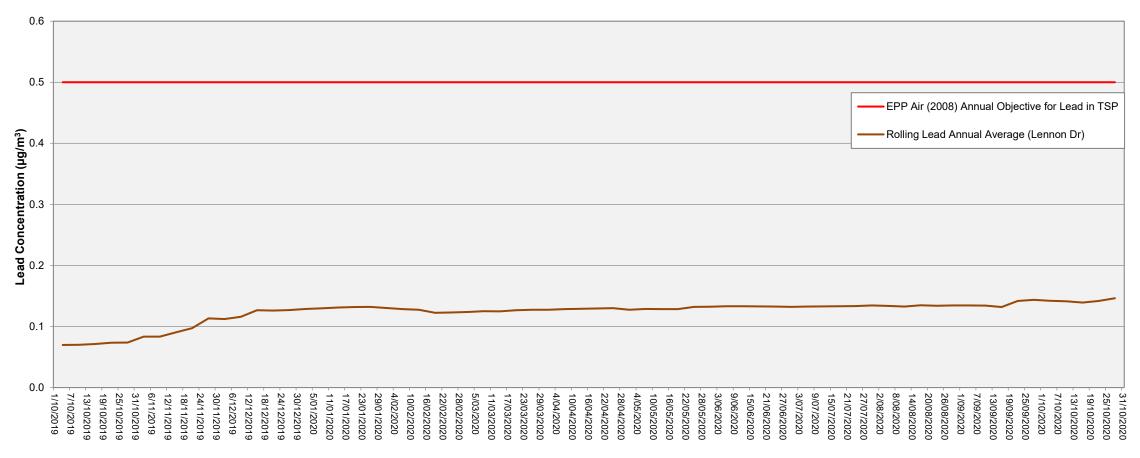
Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site OCTOBER 2019 – OCTOBER 2020







Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site OCTOBER 2019 – OCTOBER 2020

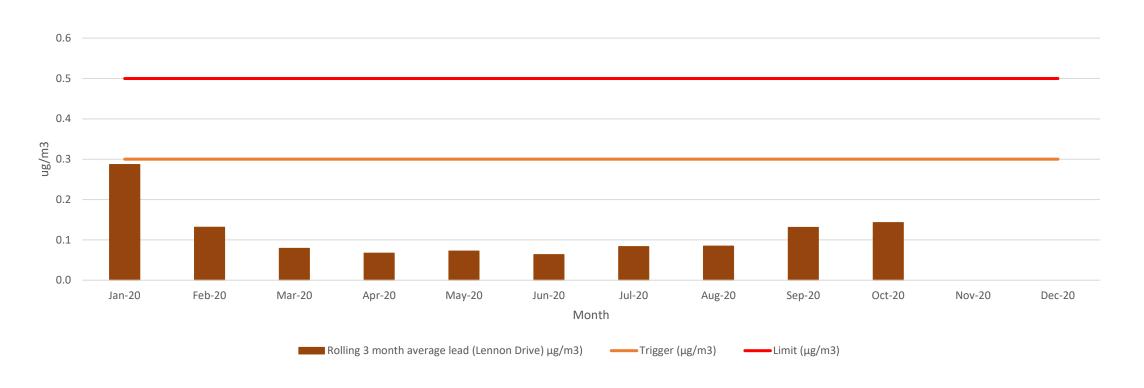




Lead Concentration units = micrograms per cubic metre per 24 hour period Rolling annual average = the moving average of the previous 11 results and the current result



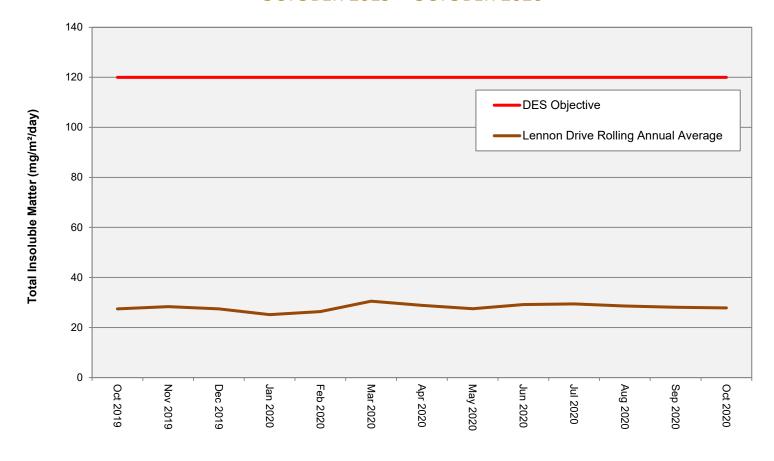
Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2020



Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result



Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site OCTOBER 2019 – OCTOBER 2020

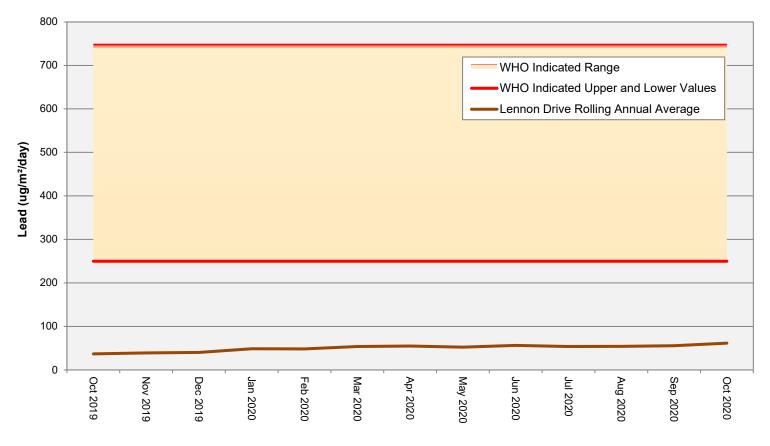


Note: Total Insoluble Matter Concentration units = micrograms per square metre per day

Rolling annual average = the moving average of the previous 11 results and the current result



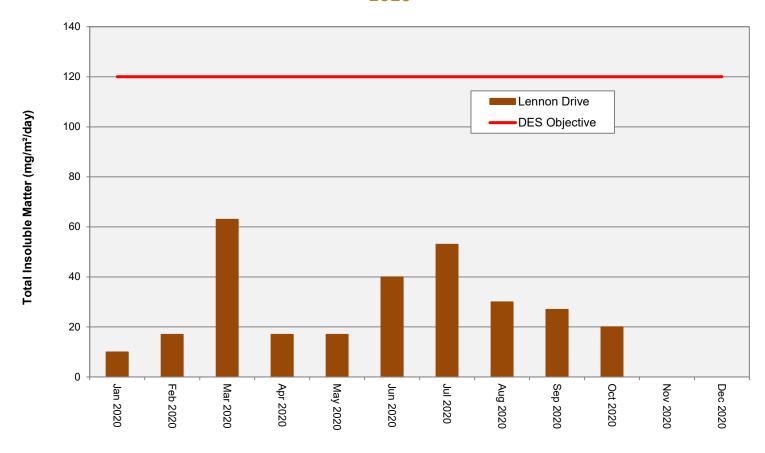
Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site OCTOBER 2019 – OCTOBER 2020



Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result



Dust Deposition Gauge – General dust deposition levels (monthly) at Lennon Drive Site 2020



Note: Total Insoluble Matter Concentration units = milligrams per square metre per day



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 μ g/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 μ g/dL but since the beginning of 2016 has been reduced to 5 μ g/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 $0.36 \, \mu g/dL$ and $0.6 \, \mu g/dL$ 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 μ g/dL and 1.9 μ g/dL, still well under the level which should trigger concern.

