

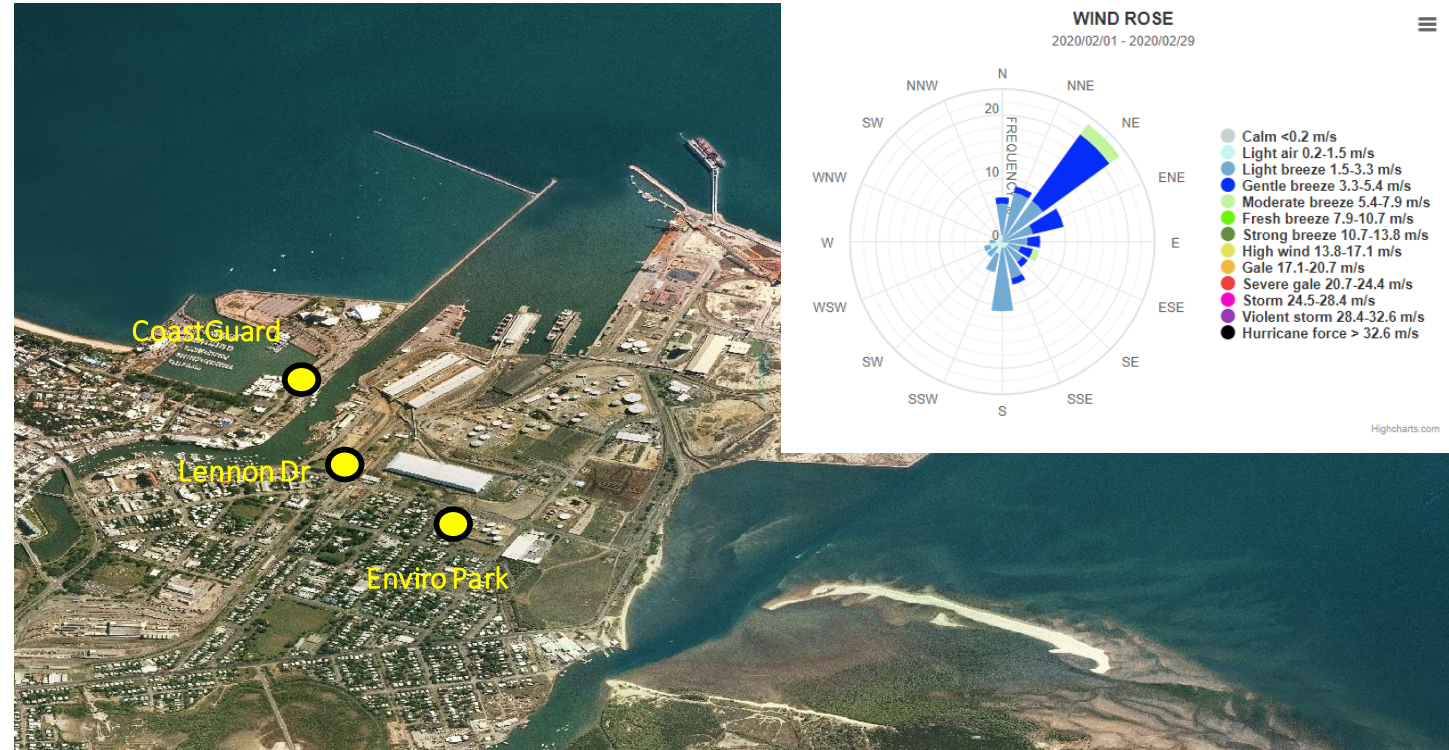
Air Quality Monitoring Locations

## AIR QUALITY MONITORING IN TOWNSVILLE

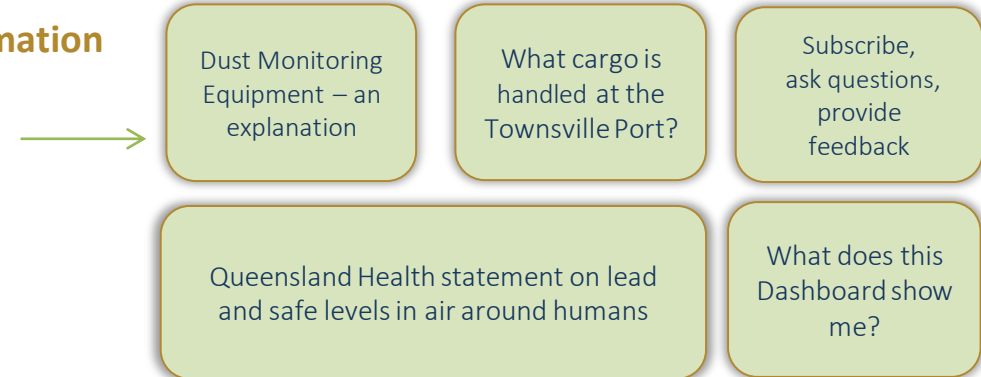
Air Quality Monitoring in Townsville is conducted separately by both the Department of Environment and Science (DES), and Port of Townsville Limited.

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

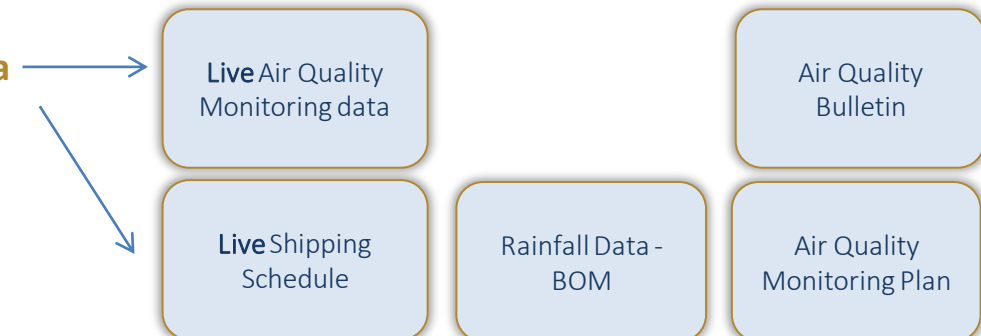
Click here to visit DES monitoring network



Information



Data



## Shipping Movements in February 2020

Date In/Out	Vessel Name	Berths	Cargo	Date In/Out	Vessel Name	Berths	Cargo
02-02	GLOBAL HIGHWAY	4	Motor Vehicles	16-24	ATILLA	10	Zinc Ferrites
02-03	NORD COPENHAGEN	9	Sugar	17-20	ULTRA TOLHUACA	8	Fertilizer
03-04	THERESA MICRONESIA	9	Molasses	18-19	BARDU	3 STH	Containers
03-05	KOTA NEBULA	3 STH	Containers	19-20	THERESA MICRONESIA	9	Molasses
04-04	GREYMAN EXPRESS	4	Fodder, cattle	20-21	NORD OCEANIA	1	Fuels
06-07	FINOLA	4	Fodder, cattle	21-21	SOFRANA TOURVILLE	4	Containers
06-07	TIWAI POINT	3 NTH	Zinc Concentrates	21-22	VENTURE HARMONY	3 NTH	Lead Ingots
07-08	FPMC 34	1	Fuels	22-24	WYUNA	4	Cement
07-07	BOUDICCA	10	Cruise Ship	22-24	SOUTHGATE_1	3 NTH	Zinc Concentrates
07-09	OCEAN SHEARER	4	Fodder, cattle	24-25	YANGTZE HARMONY	4	Fodder, cattle
09-10	CASSIOPEIA LEADER	10	Motor Vehicles	24-25	ST. MICHAELIS	1	Fuels
10-11	ATLANTIC HARMONY	1	Fuels	24-26	KOTA NAGA	3 STH	Containers
10-11	FLORA DELMAS	3 STH	Containers	25-26	JAWAN	4	Fodder, cattle
11-14	AFRICAN RAVEN	10	Sulphur	25-26	GOLIATH LEADER	10	Motor Vehicles
11-12	GOLDEN YOSA	1	Fuels	26-31	SUPER VALENTINA	8	Lead Concentrates
12-14	WYUNA	4	Cement	26-27	GREYMAN EXPRESS	4	Fodder, cattle
13-18	ELSA OLDENDORFF_1	3 NTH	Zinc Concentrates	27-28	NEPTUNE LEADER	10	Motor Vehicles
14-16	KEN KON	10	Urea	27-28	GLOUCESTER EXPRESS	4	Fodder, cattle
15-17	SHORTHORN EXPRESS	4	Fodder, cattle	29-29	ZHUANG YUAN AO	1	Bitumen
15-16	GOLDEN ASPIRANT	1	Fuels	29-29	HESTIA LEADER	10	Motor Vehicles
15-16	KYOWA ORCHID	3 NTH	Tyres, copper refined	31-01	AFRICAN HERON	9	Sugar
16-17	ASPHALT SPIRIT	1	Bitumen	31-01	ATLANTIC POLARIS	1	Fuels

## Port of Townsville - Overview

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

The 2018-19 year was a significant one for the Port of Townsville, with growth in trade driven by a rebound in the resources sector, a strong net profit of \$15.96 million and the advancement of a number of major infrastructure projects. Total trade throughput of 7.68 million tonnes is a 4.7% increase on the previous financial year. There were increases across a range of export commodities, in particular mineral concentrates, zinc ferrites, refined copper, smelted lead, sugar and cattle. Cruise ship visitation grew with 16 arrivals and a doubling the number of passengers and crew to almost 20,000 people.

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:

### Imports

Motor vehicles, shipping containers (general cargo), cement, sulphuric acid, fertiliser, copper, nickel, zinc, copper anode, petroleum products, sulphur, containers, tyres.

### Exports

Sugar, timber, fertiliser, shipping containers (general cargo) cattle, refrigerated meat, magnetite, copper, lead, zinc, zinc ferrites, zinc oxide, silver, molasses, sand, gravel, coke, project cargo.



## Subscribe to Dashboard Updates

Visit our website and subscribe here <https://www.townsville-port.com.au/environment-community/community/newsletter-sign-up/>

OR

Visit the [Port of Townsville Facebook page](#) and click on “Sign up” at the top of the page.

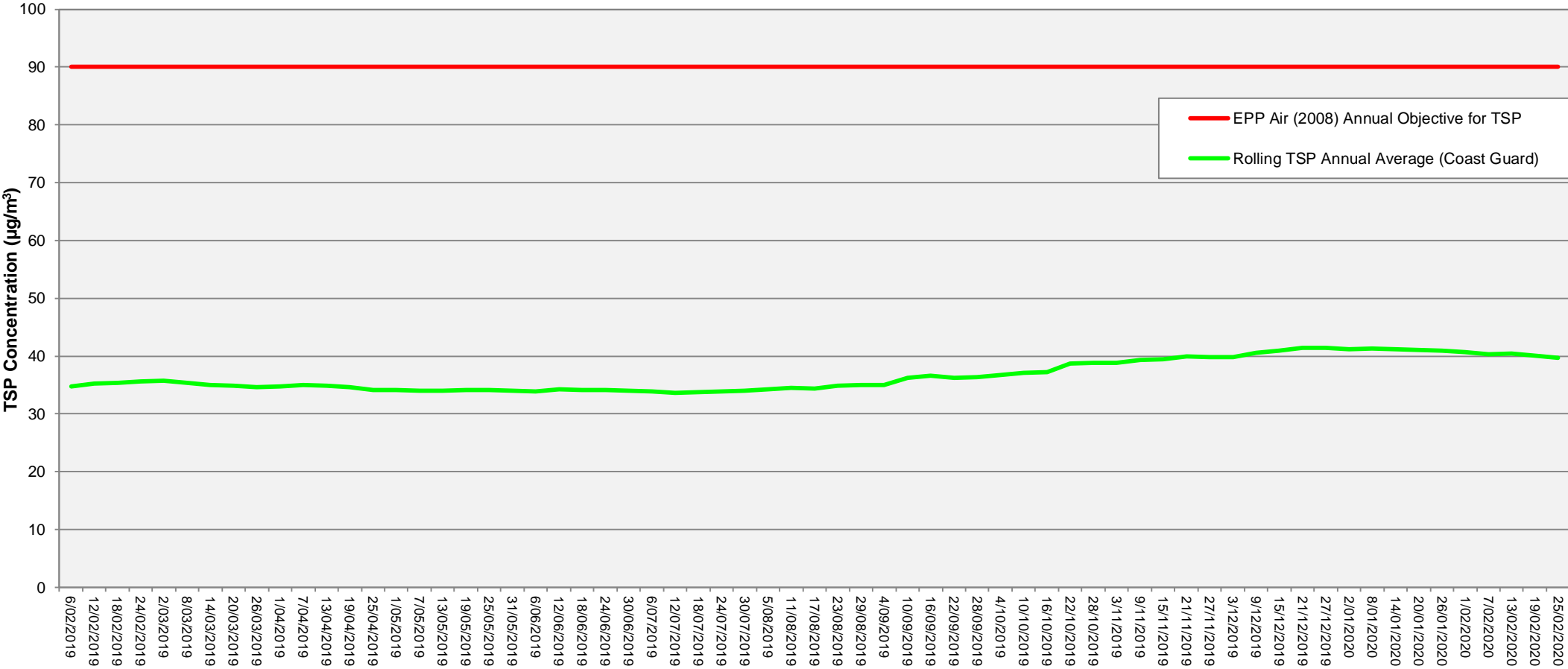
OR

Phone 07 47 811 500 and asked to be added to the list.

## Ask a Question / Provide Feedback

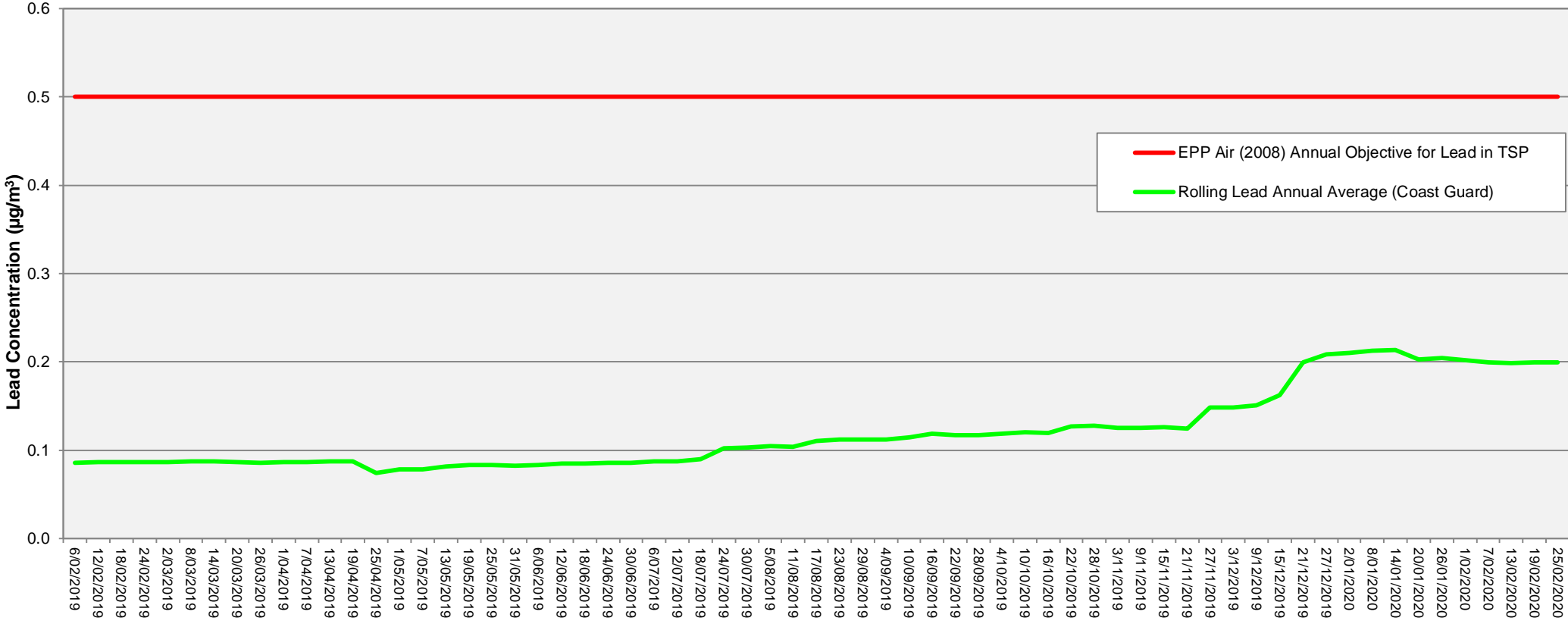
Send your enquiry or feedback to [community@townsvilleport.com.au](mailto:community@townsvilleport.com.au)

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



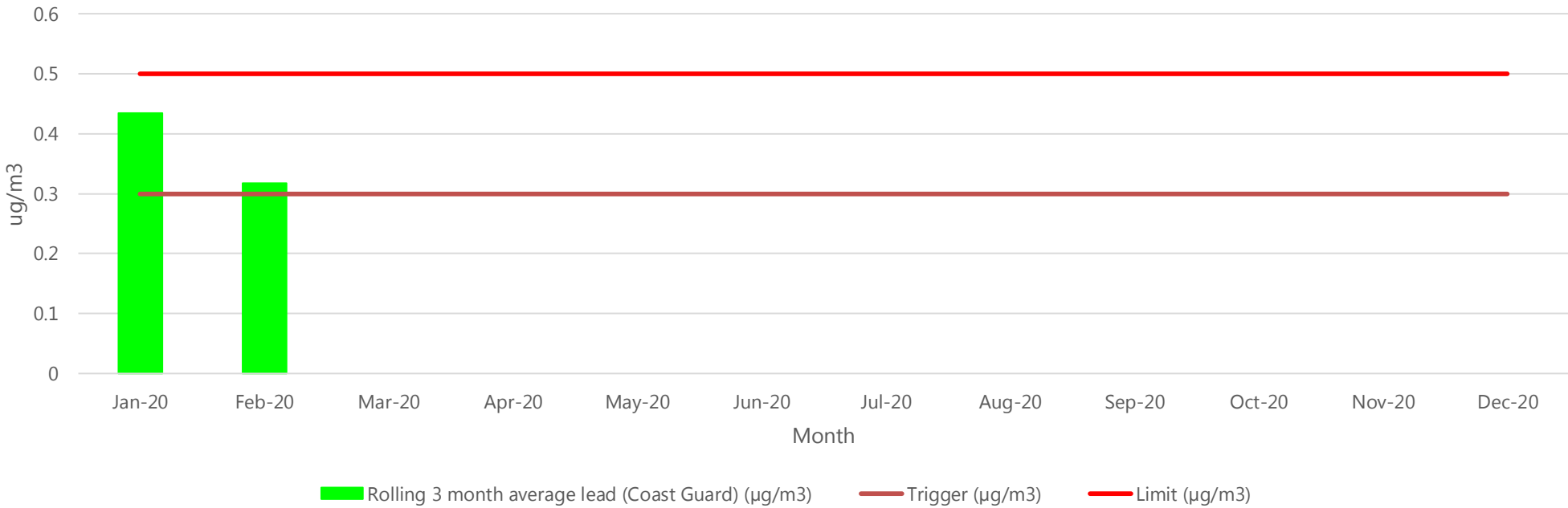
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

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



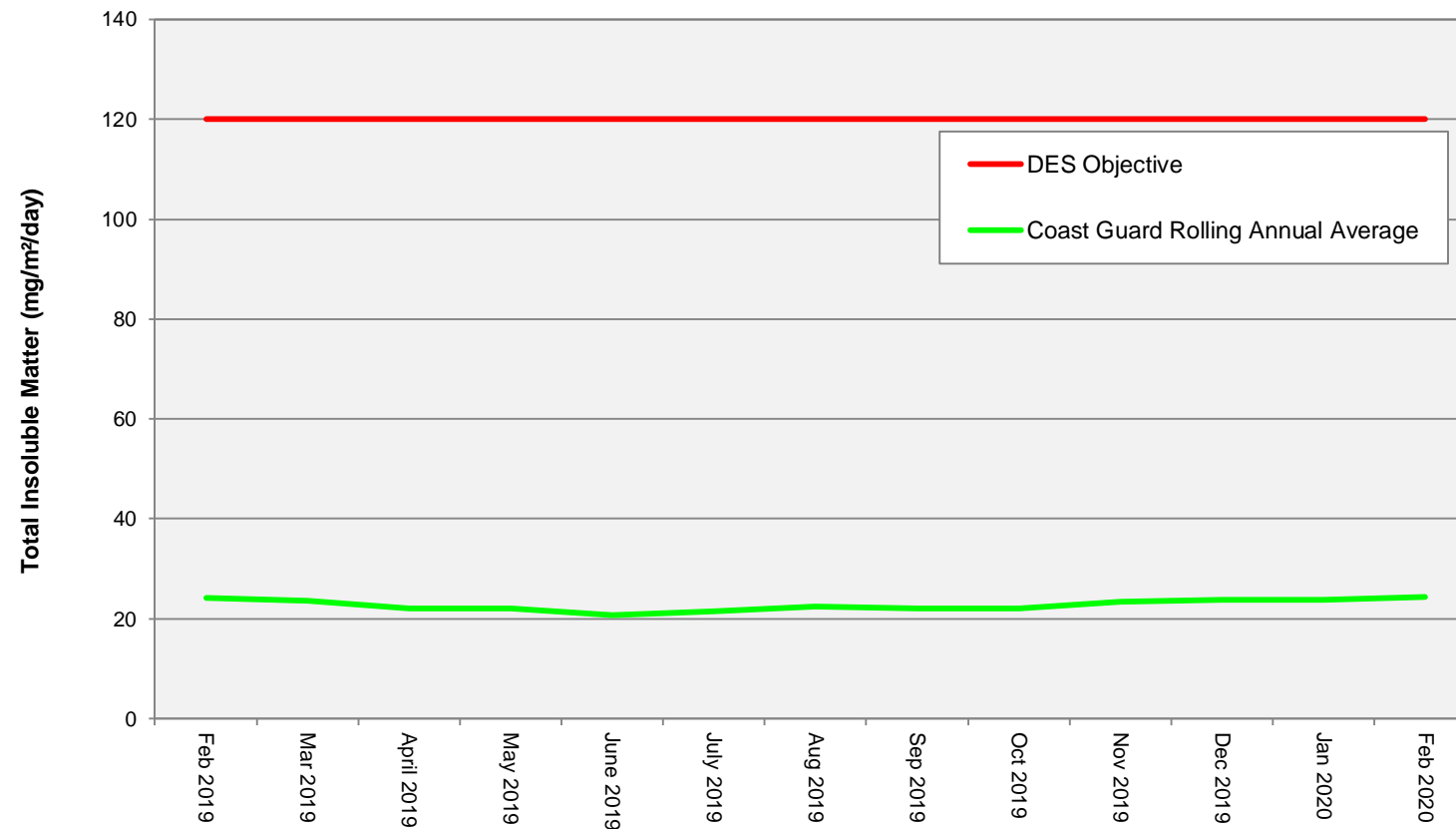
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

# 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

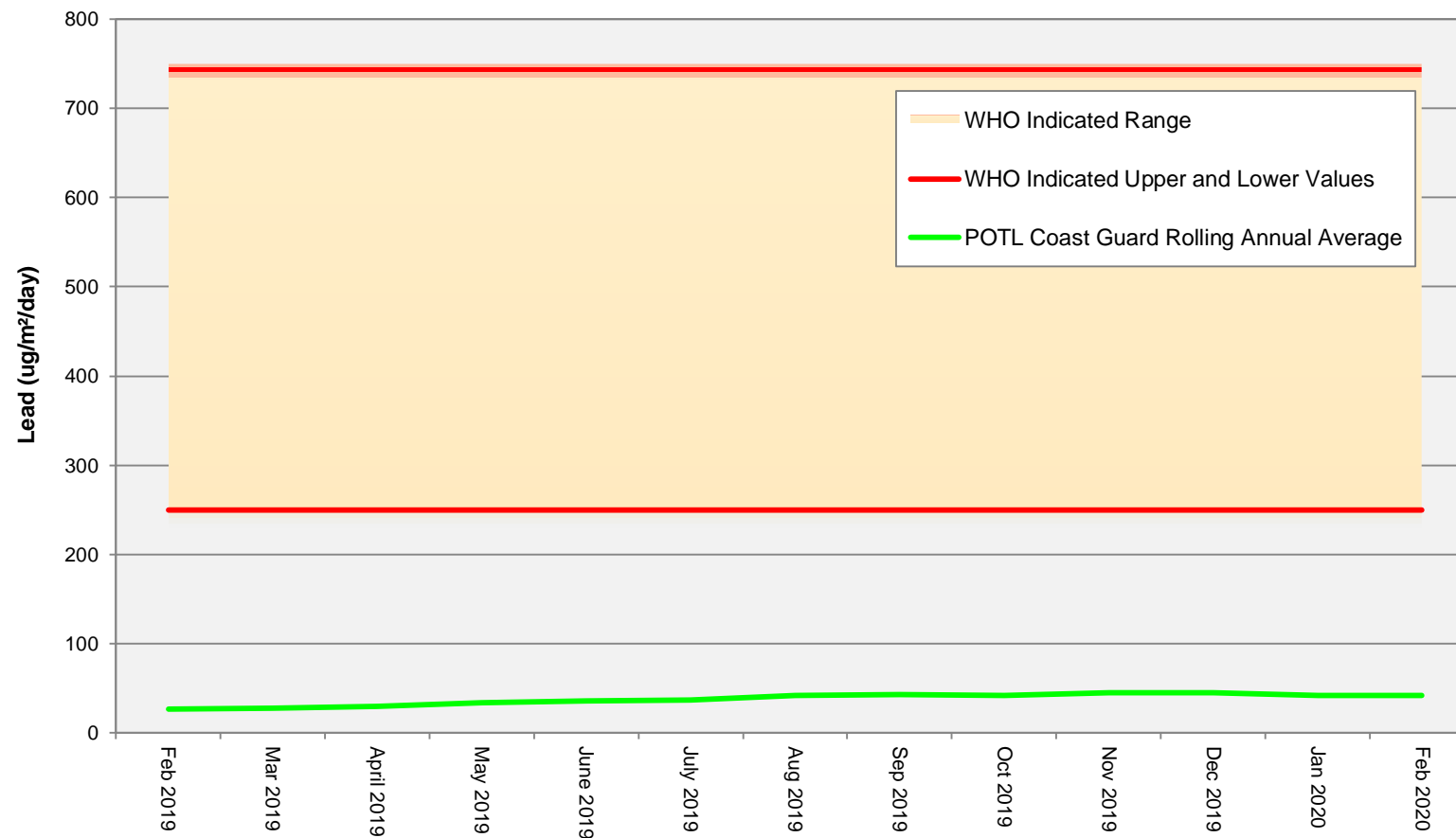
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site FEBRUARY 2019– FEBRUARY 2020



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

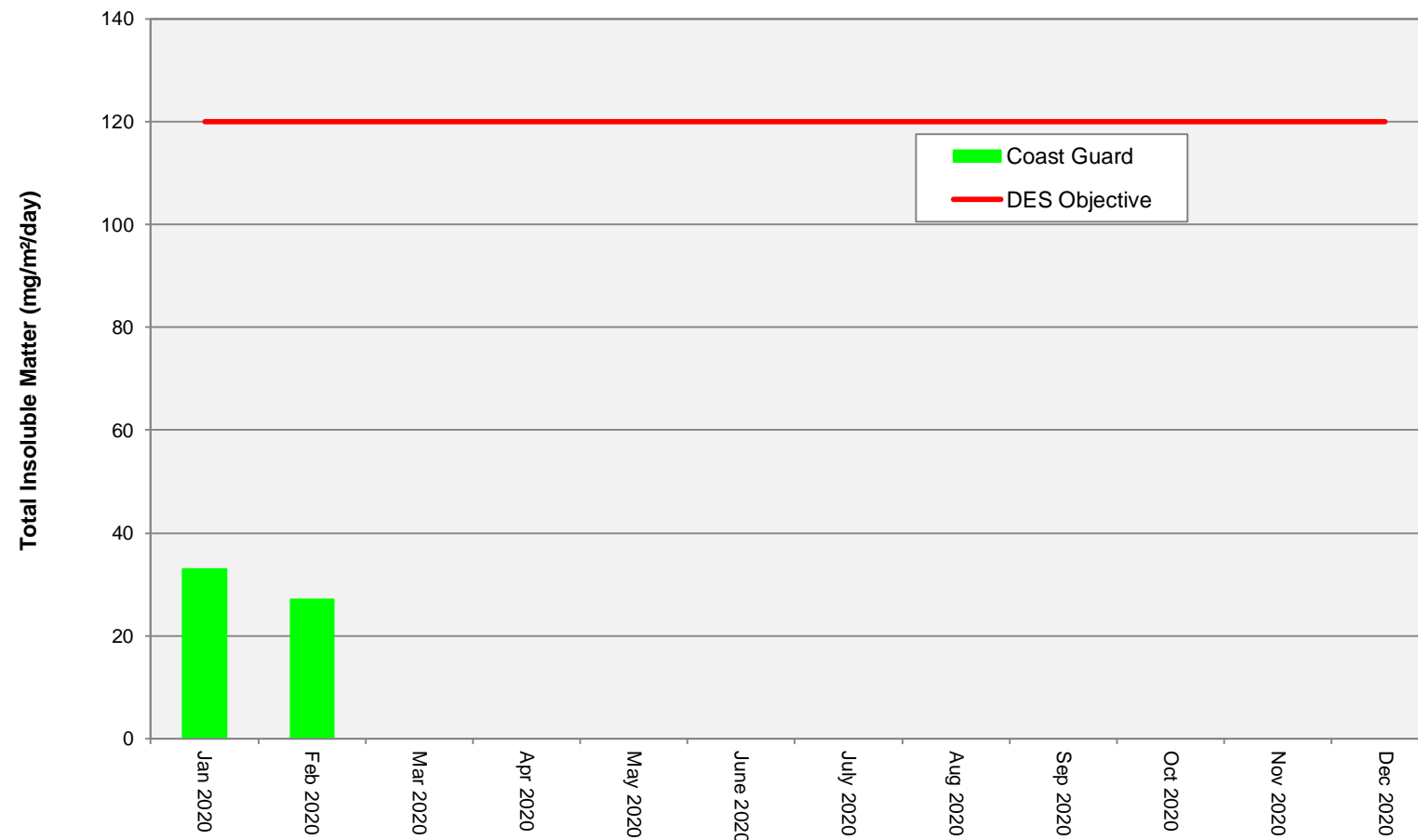


## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site FEBRUARY 2019– FEBRUARY 2020



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.

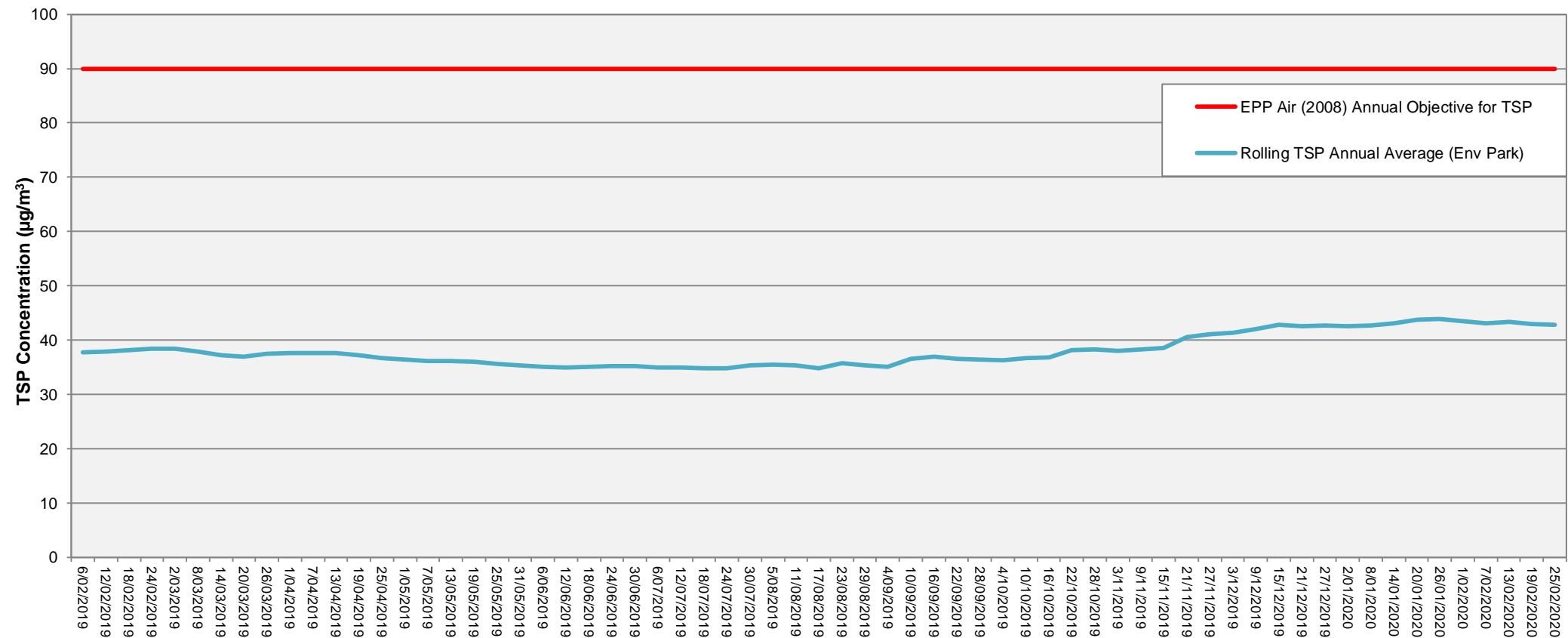
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2020



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

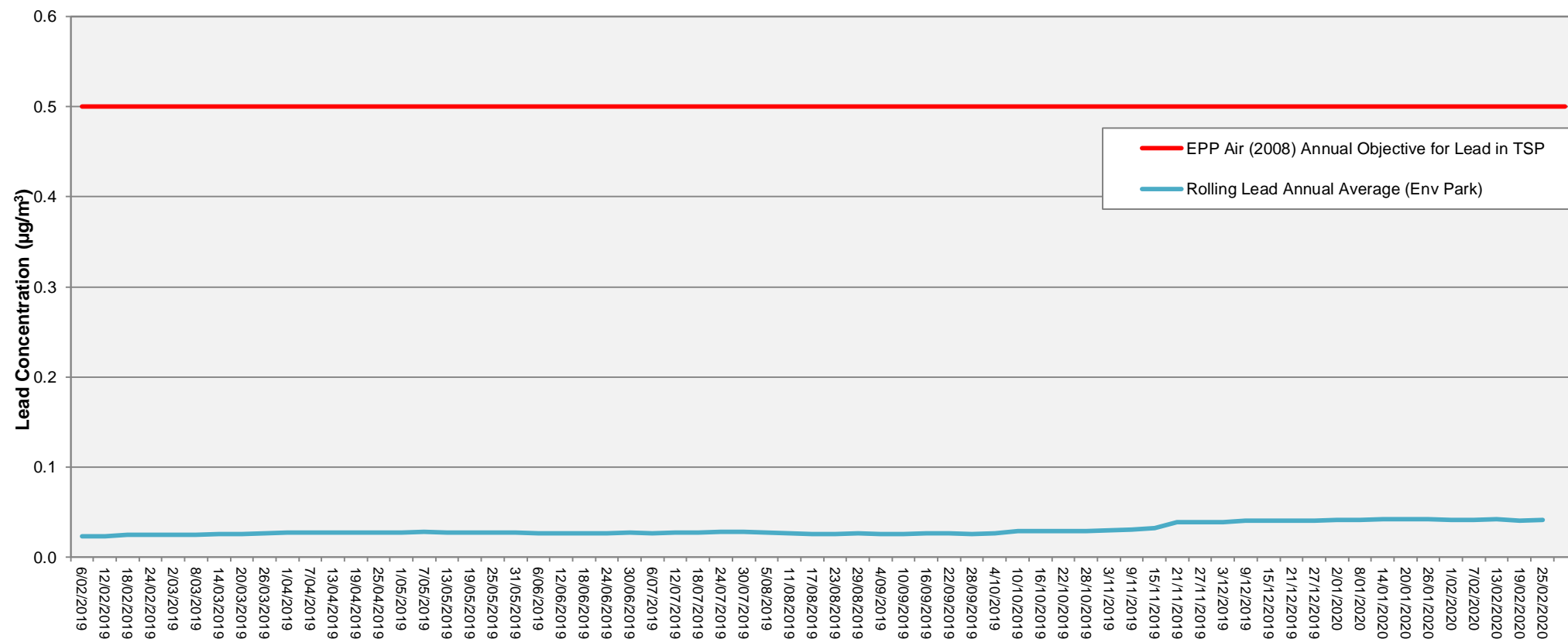
[Click here](#) for information on how to interpret this data

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



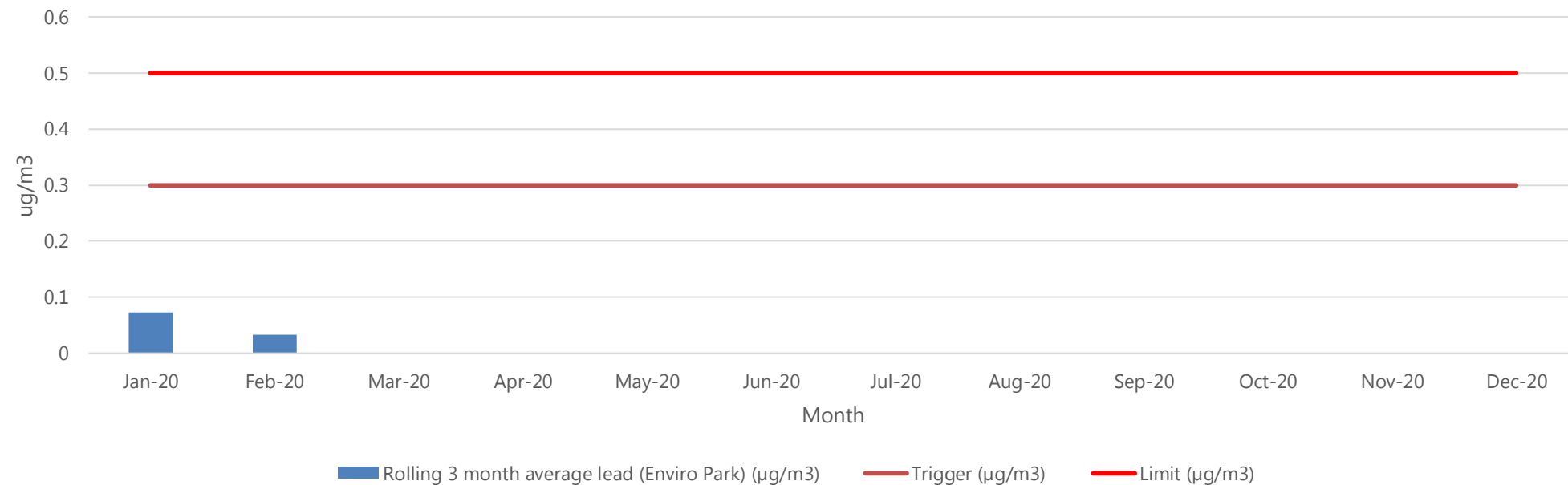
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

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



Note: 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

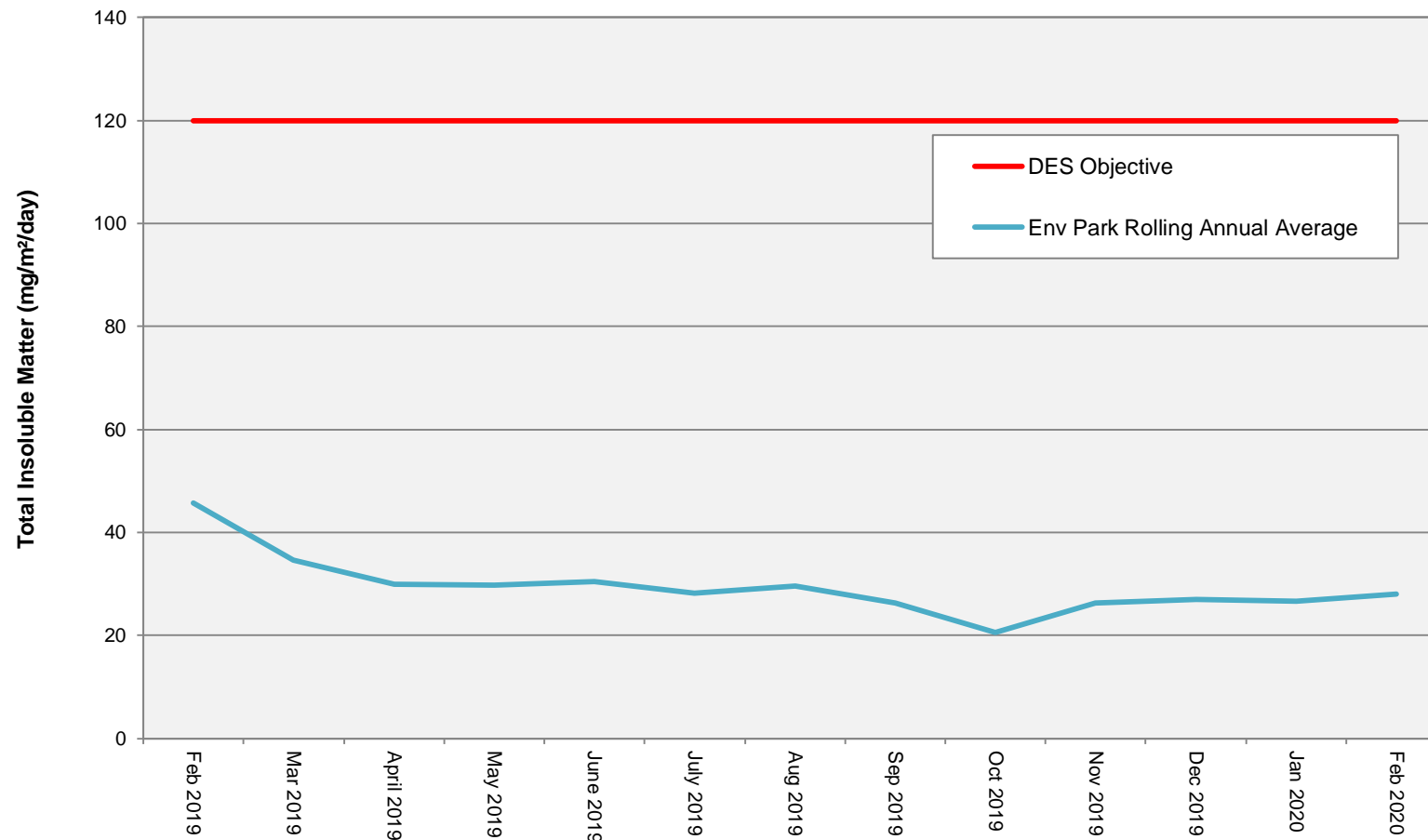
## Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2020



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

[Click here](#) for information on how to interpret this data

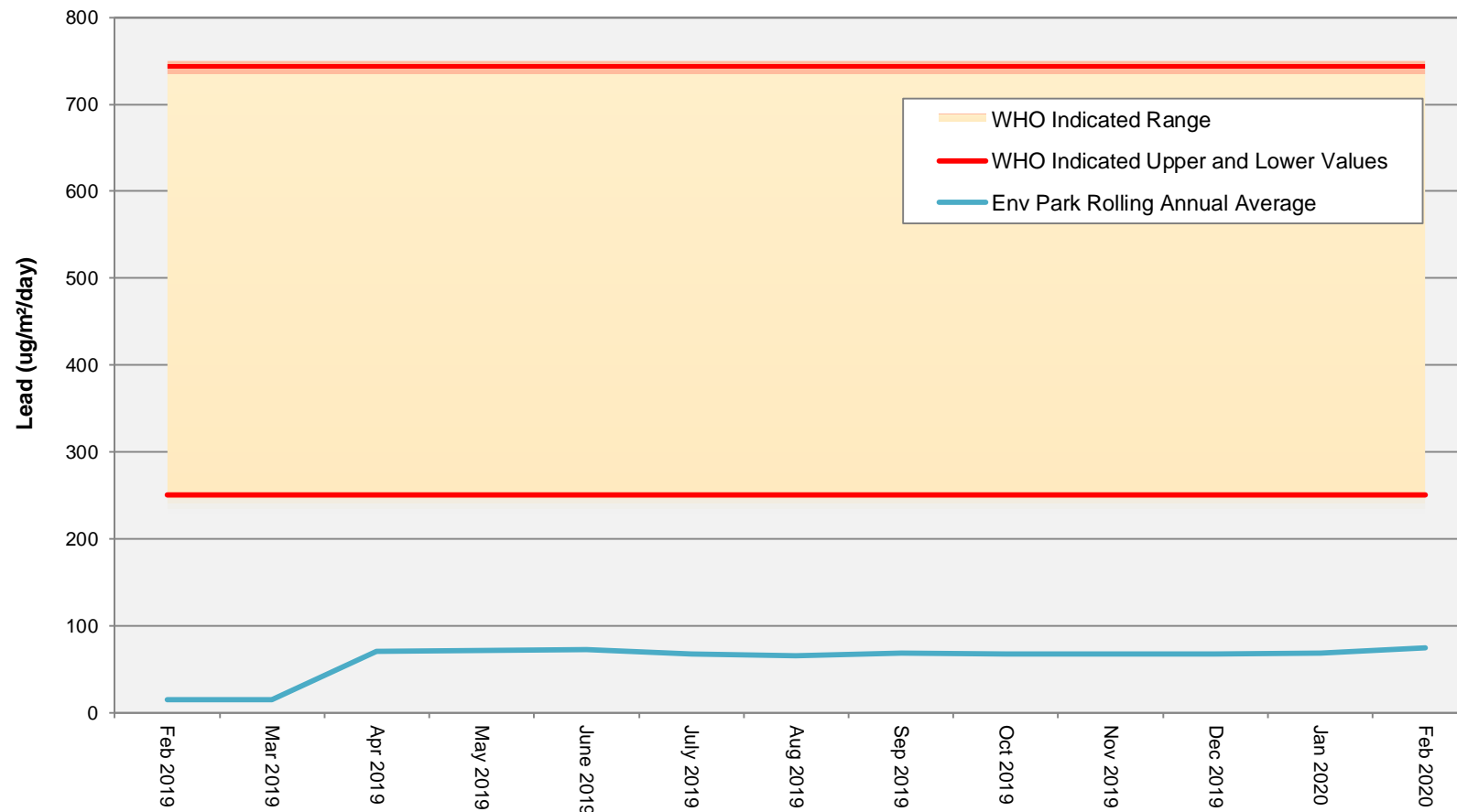
## Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site FEBRUARY 2019– FEBRUARY 2020



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

[Click here](#) for information on how to interpret this data

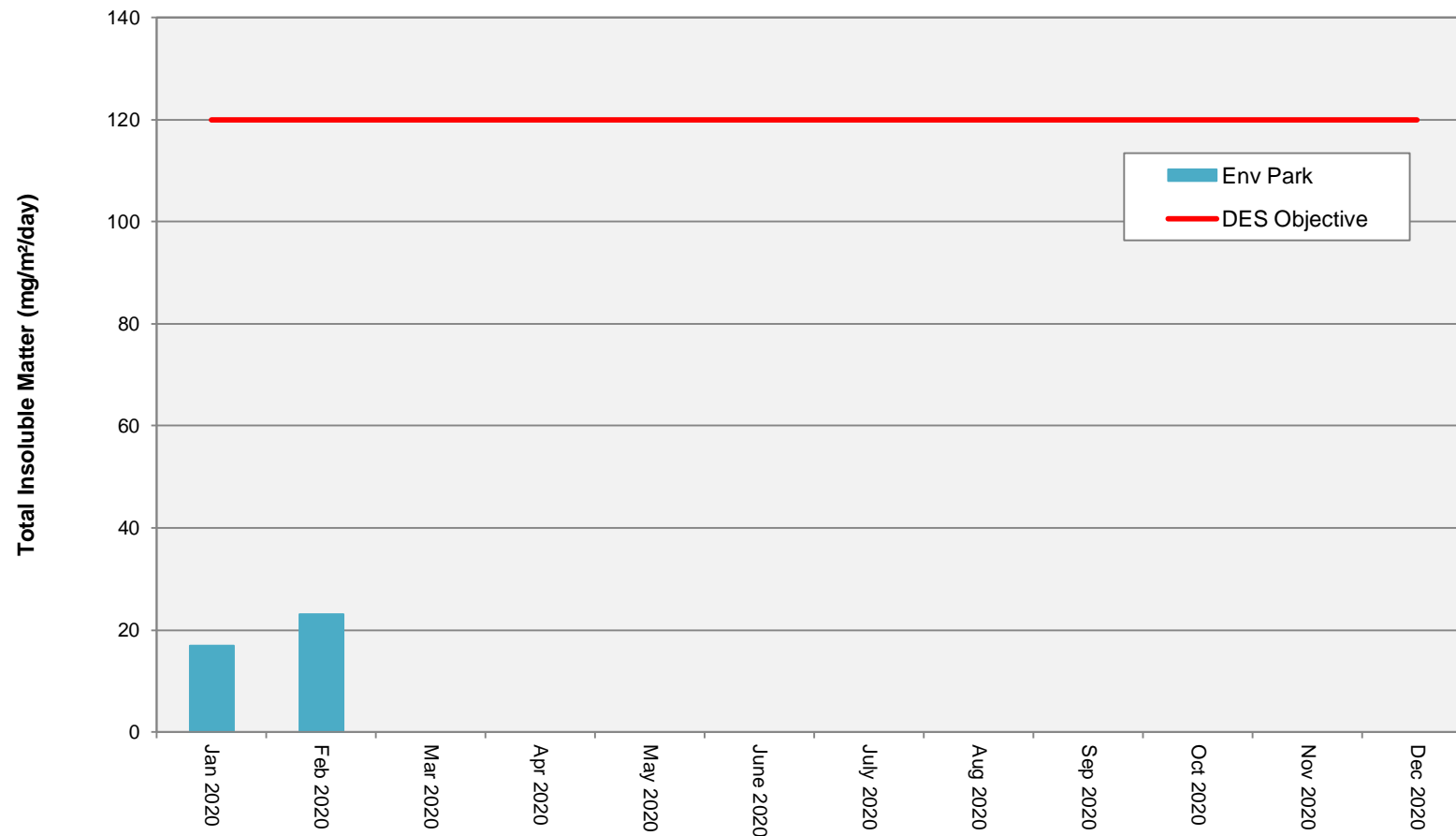
## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site FEBRUARY 2019 – FEBRUARY 2020



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

[Click here](#) for information on how to interpret this data

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

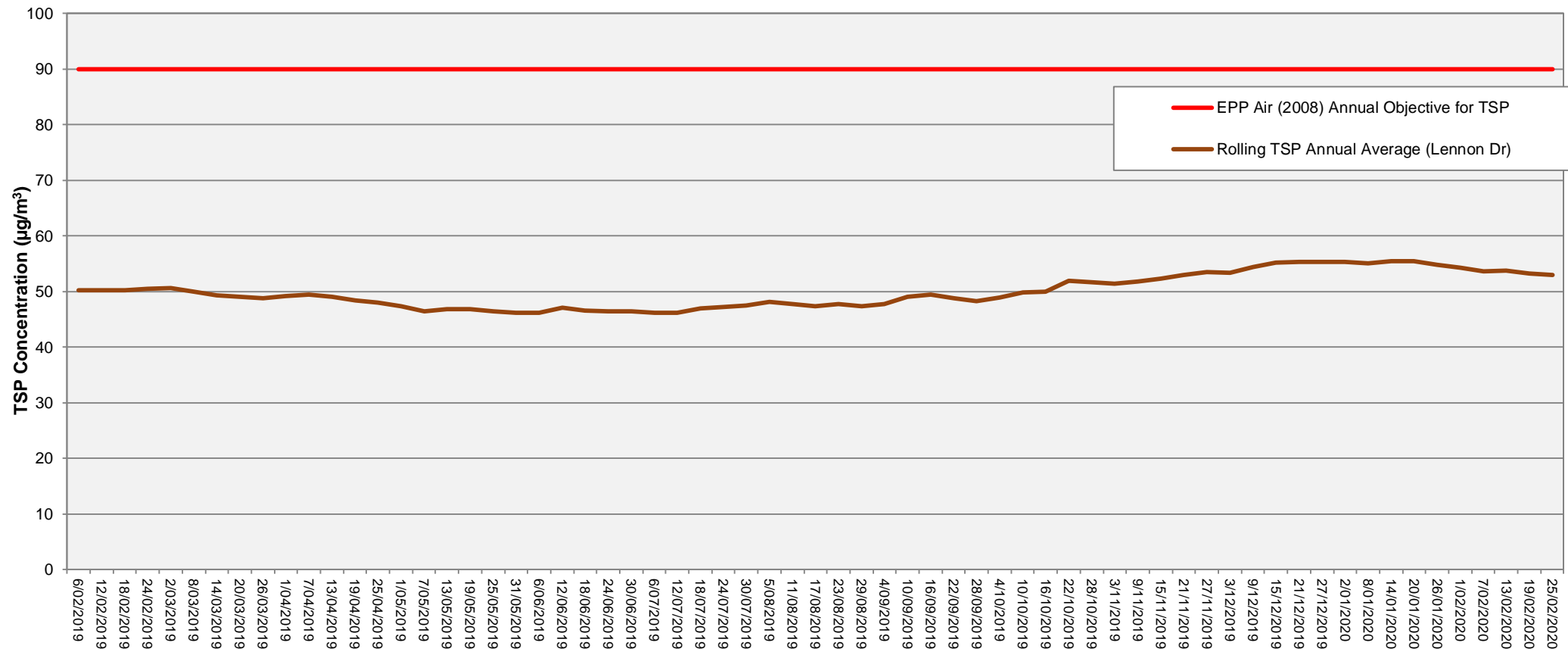


Note: Total Insoluble Matter Concentration units = milligrams per square metre per day



[Click here](#) for information on how to interpret this data

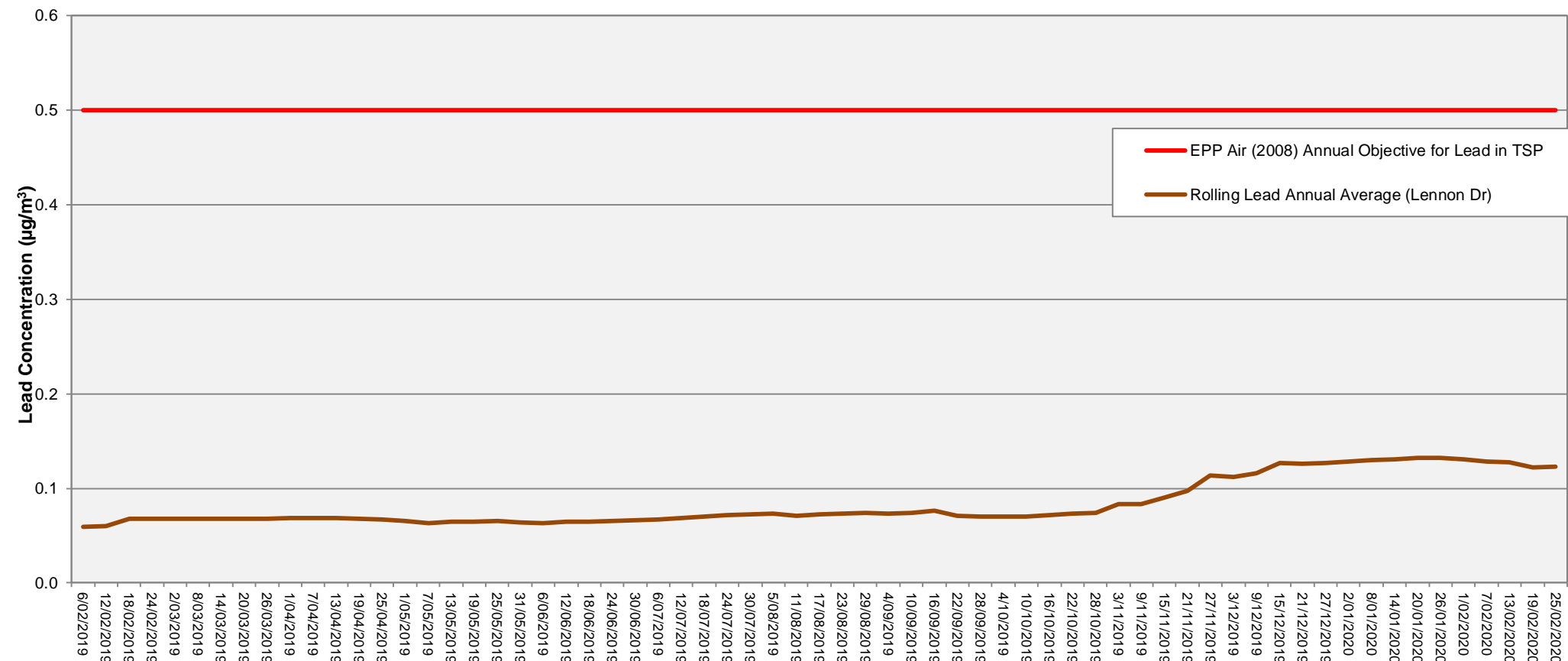
## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site FEBRUARY 2019 – FEBRUARY 2020



Note: 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

[Click here](#) for information on how to interpret this data

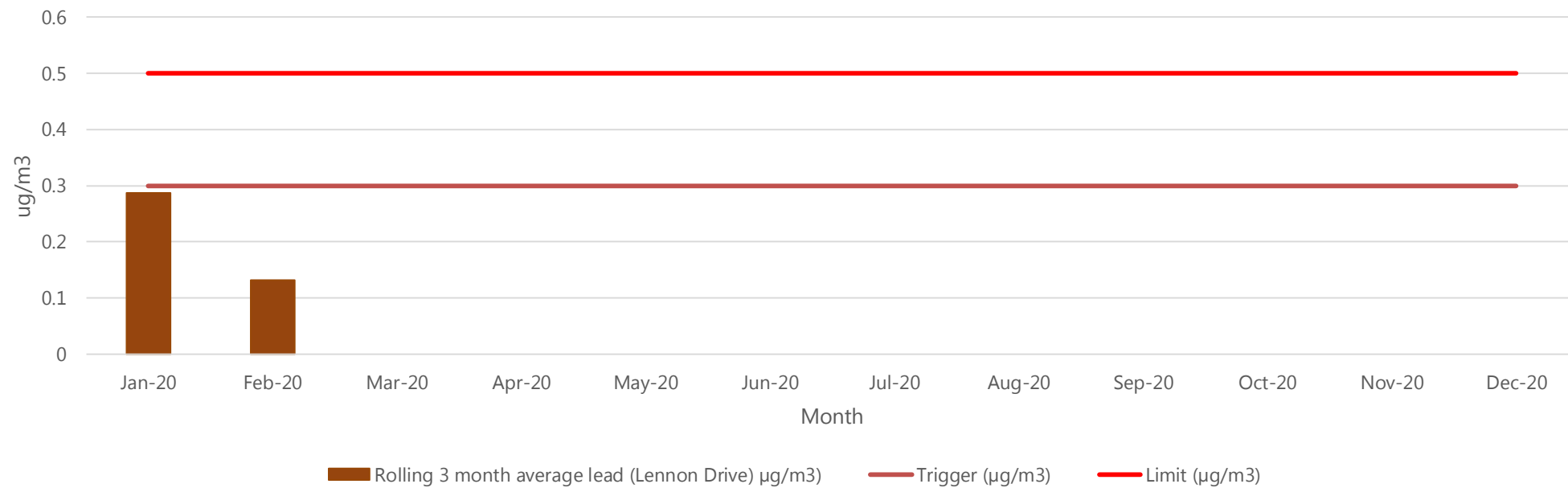
## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site FEBRUARY 2019 – FEBRUARY 2020



Note: 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

[Click here](#) for information on how to interpret this data

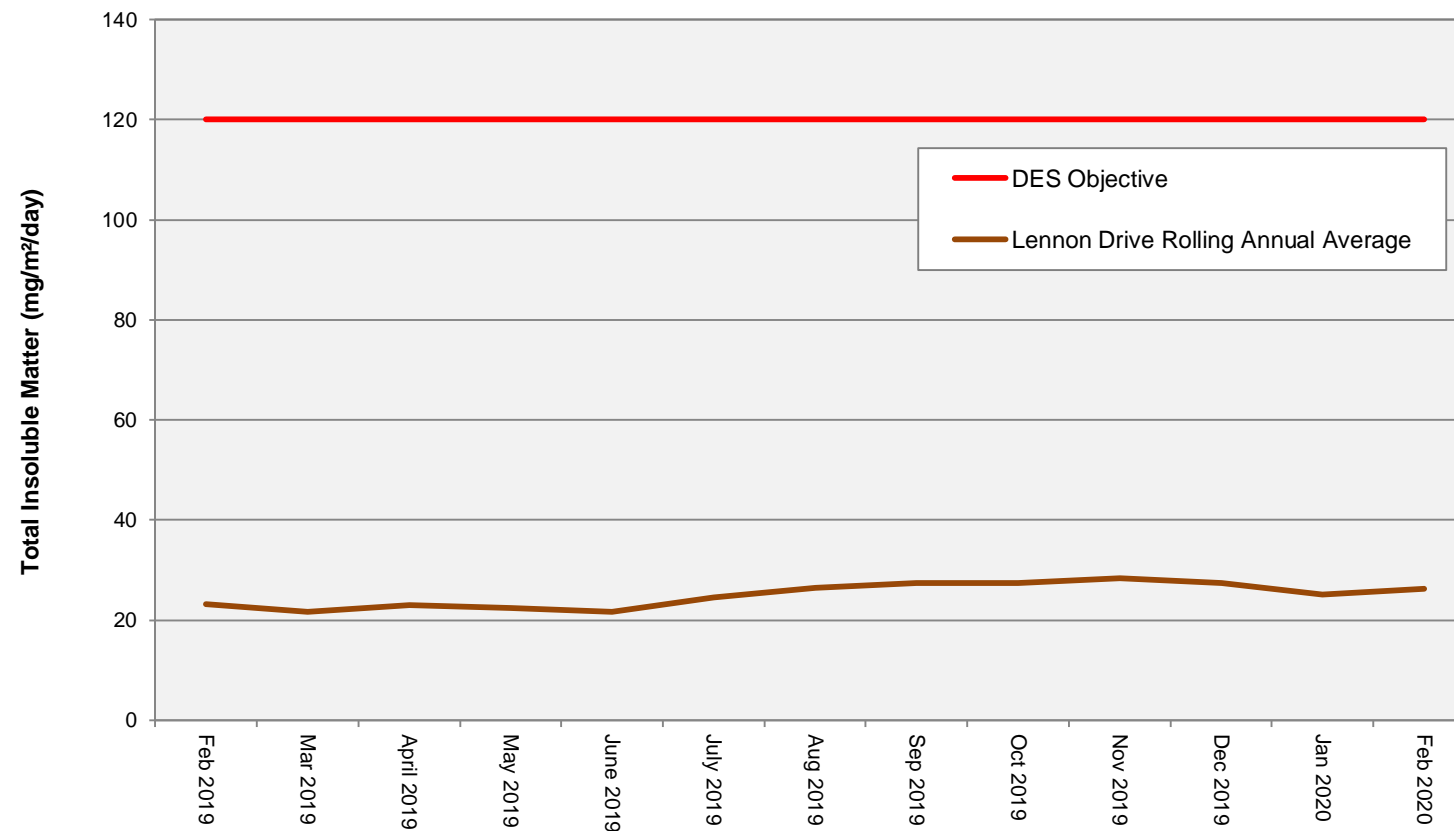
## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2020



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

[Click here](#) for information on how to interpret this data

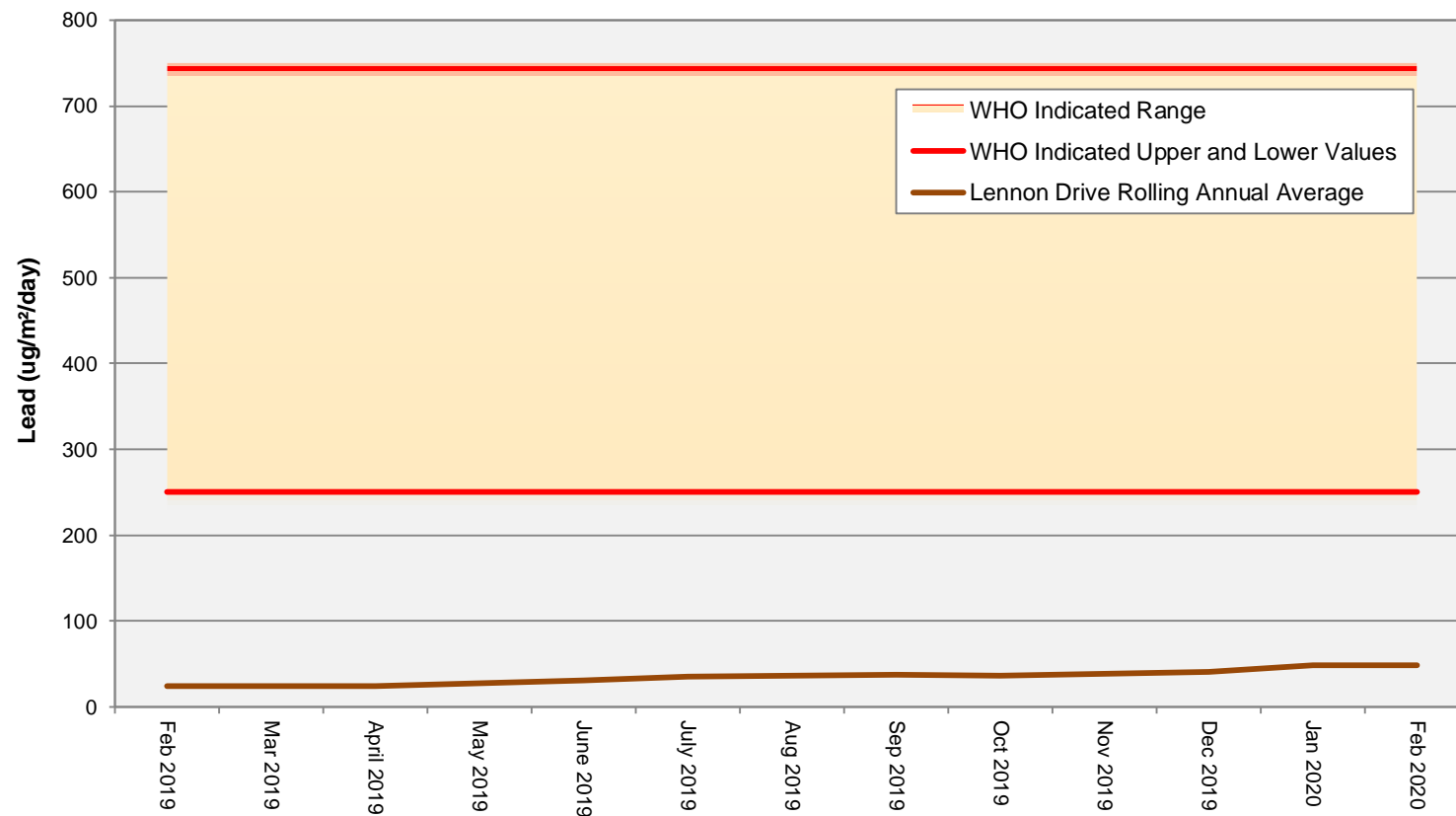
## Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site FEBRUARY 2019 – FEBRUARY 2020



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

[Click here](#) for information on how to interpret this data

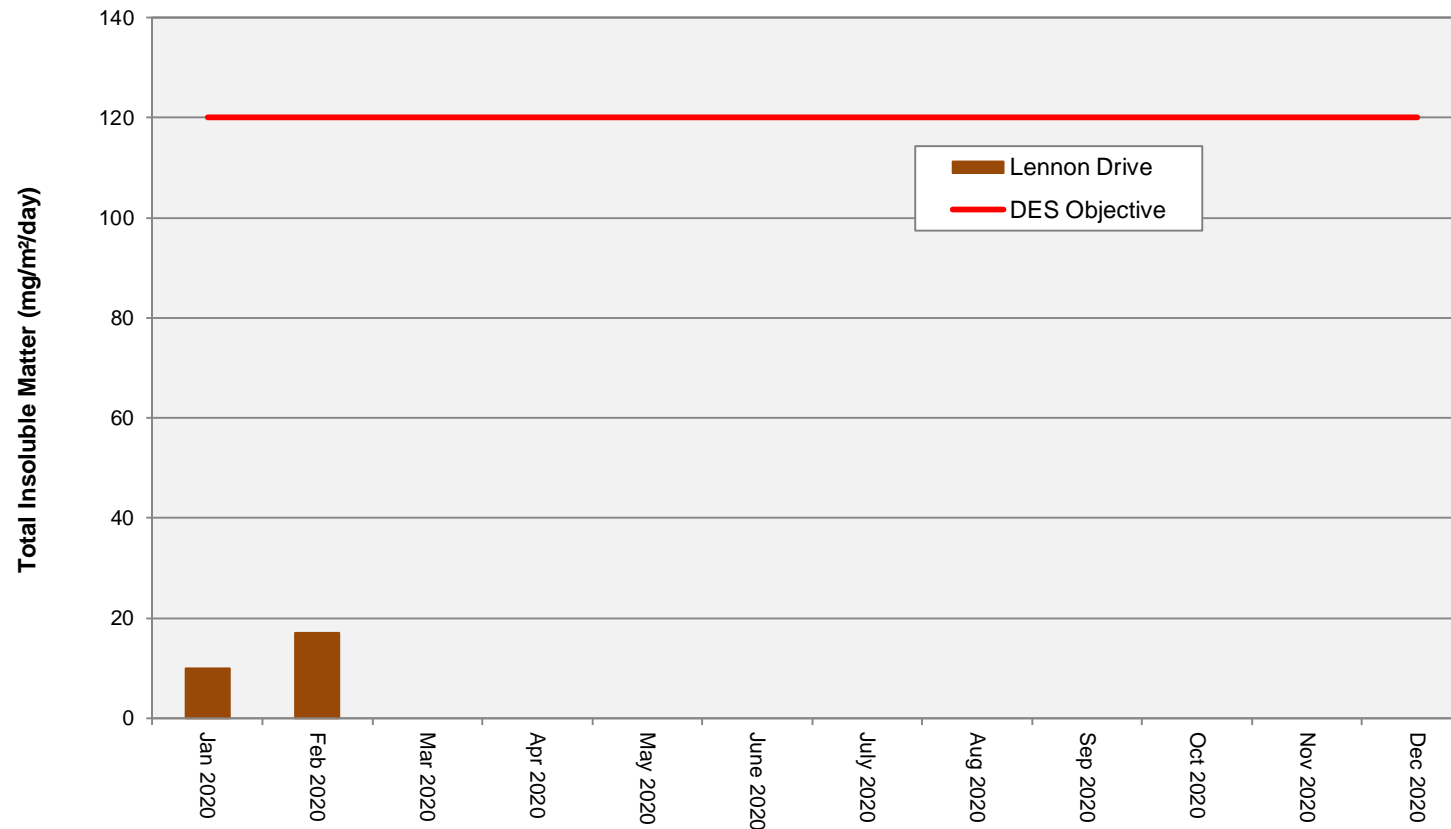
## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site FEBRUARY 2019 – FEBRUARY 2020



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

[Click here](#) for information on how to interpret this data

## 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 out. 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.