

Air Quality Dashboard | February | 2021

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



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

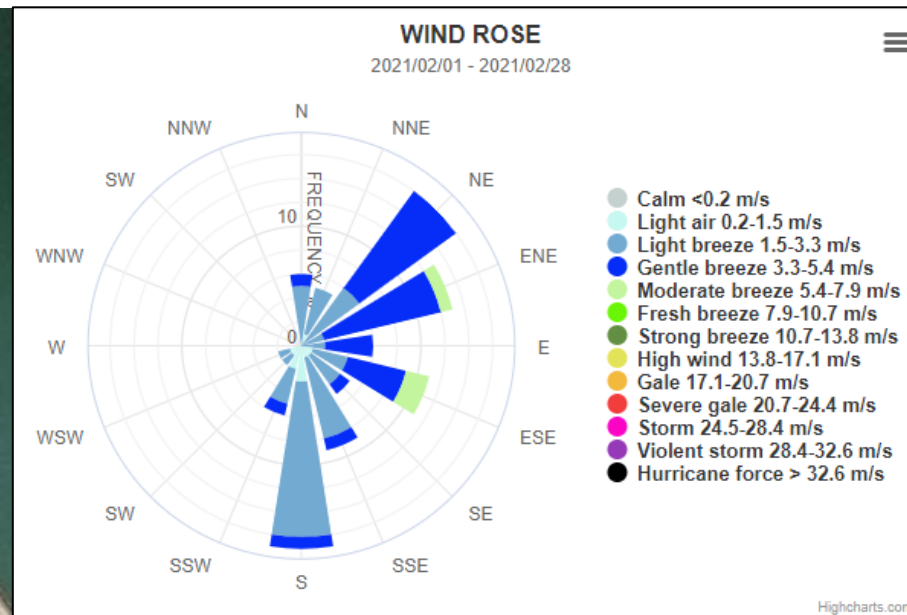
Air Quality
Bulletin

Live Shipping
Schedule

Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Shipping Movements in February 2021

Date In/Out	Vessel Name	Cargo	Berth
26 Jan - 01 Feb	WYUNA	Nil Cargo (Export), Cement (Import)	T04
01 Feb - 02 Feb	LEIKANGER	Nil Cargo (Export), Fuels (Import)	T01
02 Feb - 03 Feb	GOLDEN AUSTRALIS	Nil Cargo (Export), Fuels (Import)	T01
03 Feb - 05 Feb	DL JASMINE	Fertilizer (Export), Nil Cargo (Import)	T08
03 Feb - 04 Feb	CHEKIANG	Containers (Export), Containers (Import)	T10
04 Feb - 05 Feb	AUROCHS	Cattle (Export), Nil Cargo (Import)	T03N
05 Feb - 06 Feb	HANSA REGENSBURG	Containers (Export), Containers (Import)	T03S
05 Feb - 06 Feb	ROYAL HARMONY	Nil Cargo (Export), Fertilizer (Import)	T04
05 Feb - 08 Feb	FEDERAL SKEENA	Zinc Concentrates (Export), Nil Cargo (Import)	T08
06 Feb - 06 Feb	SOFRANA TOURVILLE	Containers (Export), Containers (Import)	T03N
06 Feb - 07 Feb	IVS MERLION	Sugar (Export), Nil Cargo (Import)	T09
06 Feb - 11 Feb	LA SILLONAI	Nil Cargo (Export), Sulphur (Import)	T10
07 Feb - 09 Feb	KOTA HARUM	Containers (Export), Containers (Import)	T03S
07 Feb - 10 Feb	IRONGATE	Nil Cargo (Export), Coke (Import)	T09
09 Feb - 11 Feb	ENY	Zinc Concentrates (Export), Nil Cargo (Import)	T03S
09 Feb - 10 Feb	GANADO EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
10 Feb - 10 Feb	HARVEST LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T09
10 Feb - 10 Feb	COURAGEOUS ACE	Nil Cargo (Export), Motor Vehicles (Import)	T04
10 Feb - 14 Feb	PACIFIC ISLAND	Concentrates (Export), Nil Cargo (Import)	T11
11 Feb - 15 Feb	KEN KON	Zinc Ferrites (Export), Nil Cargo (Import)	T10
11 Feb - 15 Feb	ENY	Nil Cargo (Export), Nil Cargo (Import)	T08
11 Feb - 12 Feb	HANSA CLOPPENBURG	Containers (Export), Containers (Import)	T03S
12 Feb - 13 Feb	ZIRCON	Nil Cargo (Export), Fuels (Import)	T01
12 Feb - 13 Feb	PENGHU SW	Sugar (Export), Nil Cargo (Import)	T09
13 Feb - 15 Feb	JAWAN	Cattle (Export), Nil Cargo (Import)	T04
15 Feb - 15 Feb	GAIA LEADER	Motor Vehicles (Export), Motor Vehicles (Import)	T04

Date In/Out	Vessel Name	Cargo	Berth
15 Feb - 16 Feb	JASMINE EXPRESS	Nil Cargo (Export), Fuels (Import)	T01
15 Feb - 16 Feb	LAN BAO HAI	Concentrates (Export), Nil Cargo (Import)	T08
16 Feb - 19 Feb	HMAS PIRIE	Nil Cargo (Export), Nil Cargo (Import)	T10
17 Feb - 18 Feb	KANGTING	Fertilizer (Export), Nil Cargo (Import)	T08
17 Feb - 18 Feb	THERESA MICRONESIA	Molasses (Export), Nil Cargo (Import)	T09
17 Feb - 18 Feb	NOUMEA CHIEF	Containers (Export), Containers (Import)	T04
17 Feb - 19 Feb	FLORA DELMAS	Containers (Export), Containers (Import)	T03S
18 Feb - 21 Feb	ELANORA	Sugar (Export), Nil Cargo (Import)	T09
19 Feb - 20 Feb	KEN WAVE	Zinc Concentrates (Export), Nil Cargo (Import)	T08
19 Feb - 20 Feb	KEN KON	Nil Cargo (Export), Nil Cargo (Import)	T10
20 Feb - 23 Feb	KEN WAVE	Nil Cargo (Export), Nil Cargo (Import)	T03S
20 Feb - 23 Feb	AKUNA	Nil Cargo (Export), Cement (Import)	T04
21 Feb - 25 Feb	PACIFIC ISLAND	Nil Cargo (Export), Nil Cargo (Import)	T11
22 Feb - 22 Feb	HAMBURG HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03N
22 Feb - 25 Feb	CORESHIP OL	Fertilizer (Export), Nil Cargo (Import)	T08
22 Feb - 24 Feb	YANGTZE HARMONY	Cattle (Export), Nil Cargo (Import)	T10
22 Feb - 24 Feb	IVS IBIS	Sugar (Export), Nil Cargo (Import)	T09
23 Feb - 24 Feb	HIGH TIDE	Nil Cargo (Export), Fuels (Import)	T01
24 Feb - 25 Feb	KOTA HIDAYAH	Containers (Export), Containers (Import)	T03S
24 Feb - 26 Feb	YANGTZE HARMONY	Nil Cargo (Export), Nil Cargo (Import)	T03N
24 Feb - 25 Feb	STAR KESTREL	Nil Cargo (Export), Fuels (Import)	T01
25 Feb - 26 Feb	KEN WAVE	Nil Cargo (Export), Nil Cargo (Import)	T03S
25 Feb - 26 Feb	LAE CHIEF	Concentrates (Export), Containers (Import)	T04
26 Feb - 27 Feb	GELBRAY EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
26 Feb - 26 Feb	YANGTZE HARMONY	Nil Cargo (Export), Nil Cargo (Import)	T03N
27 Feb - 27 Feb	TOKYO TRADER	Containers (Export), Containers (Import)	T03S



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.

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:

Imports

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).

Port of Townsville Overview

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OR

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

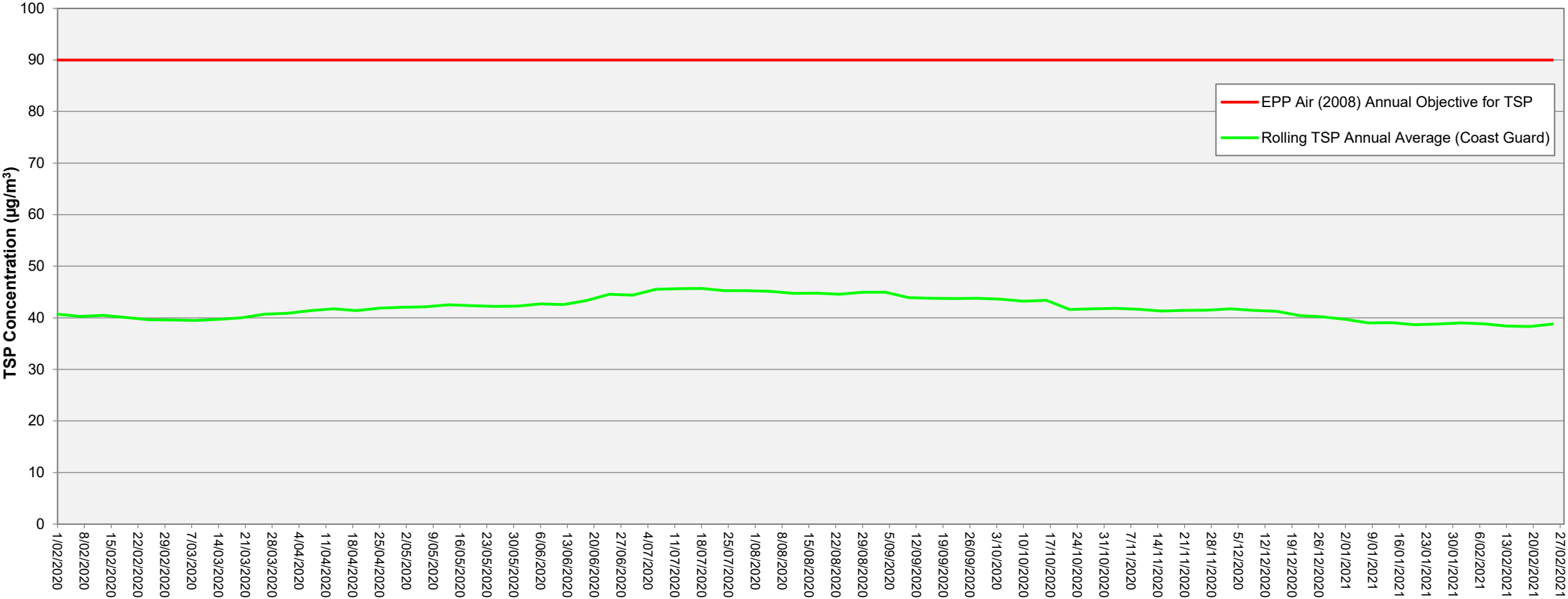
OR

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

Ask a Question / Provide Feedback

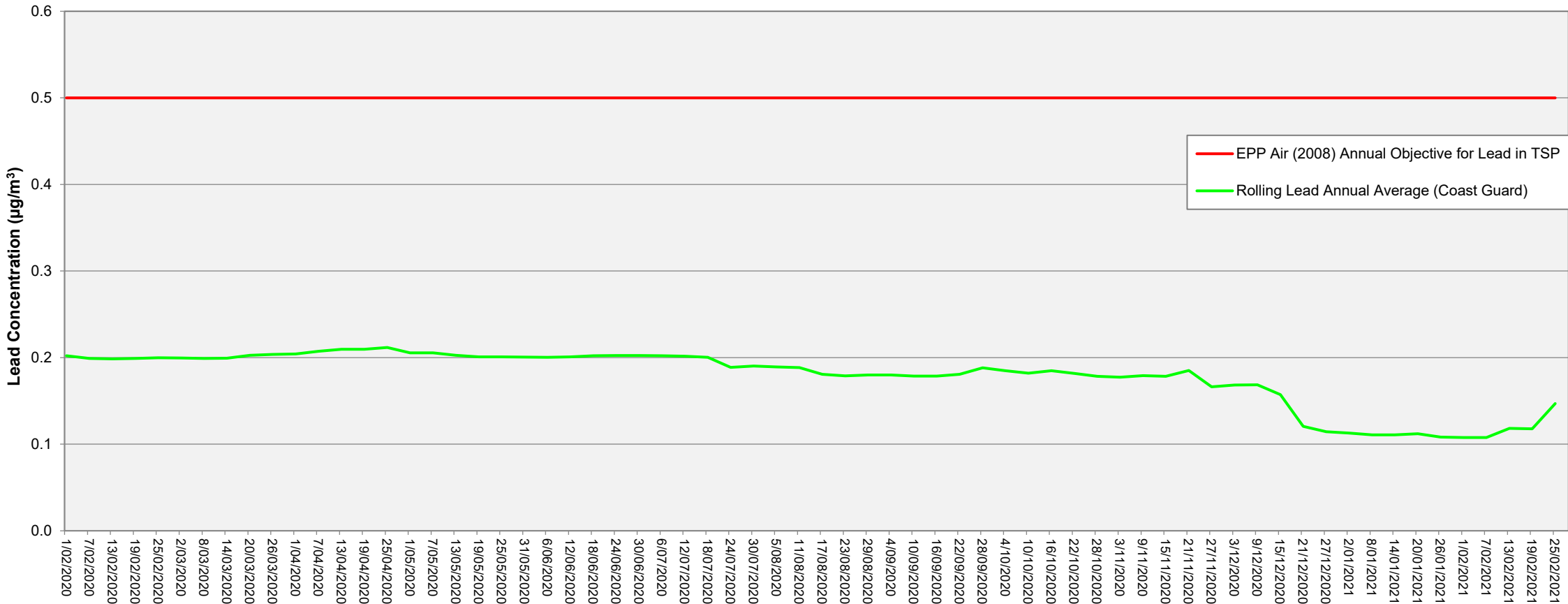
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site
FEBRUARY 2020 – FEBRUARY 2021



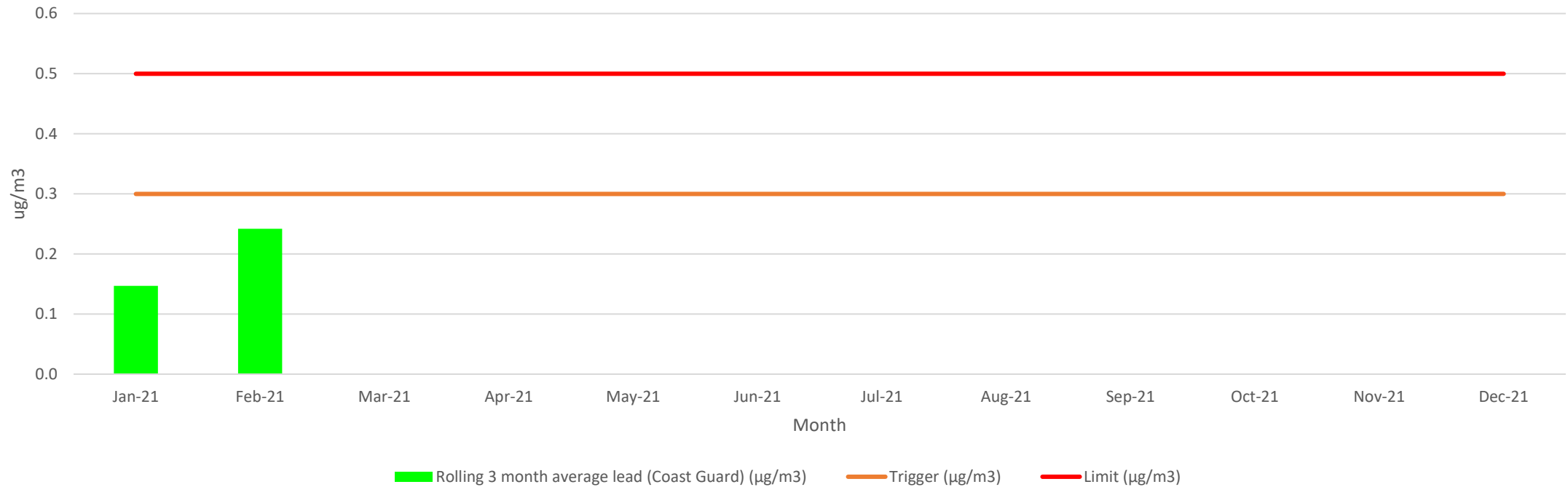
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site
FEBRUARY 2020 – FEBRUARY 2021



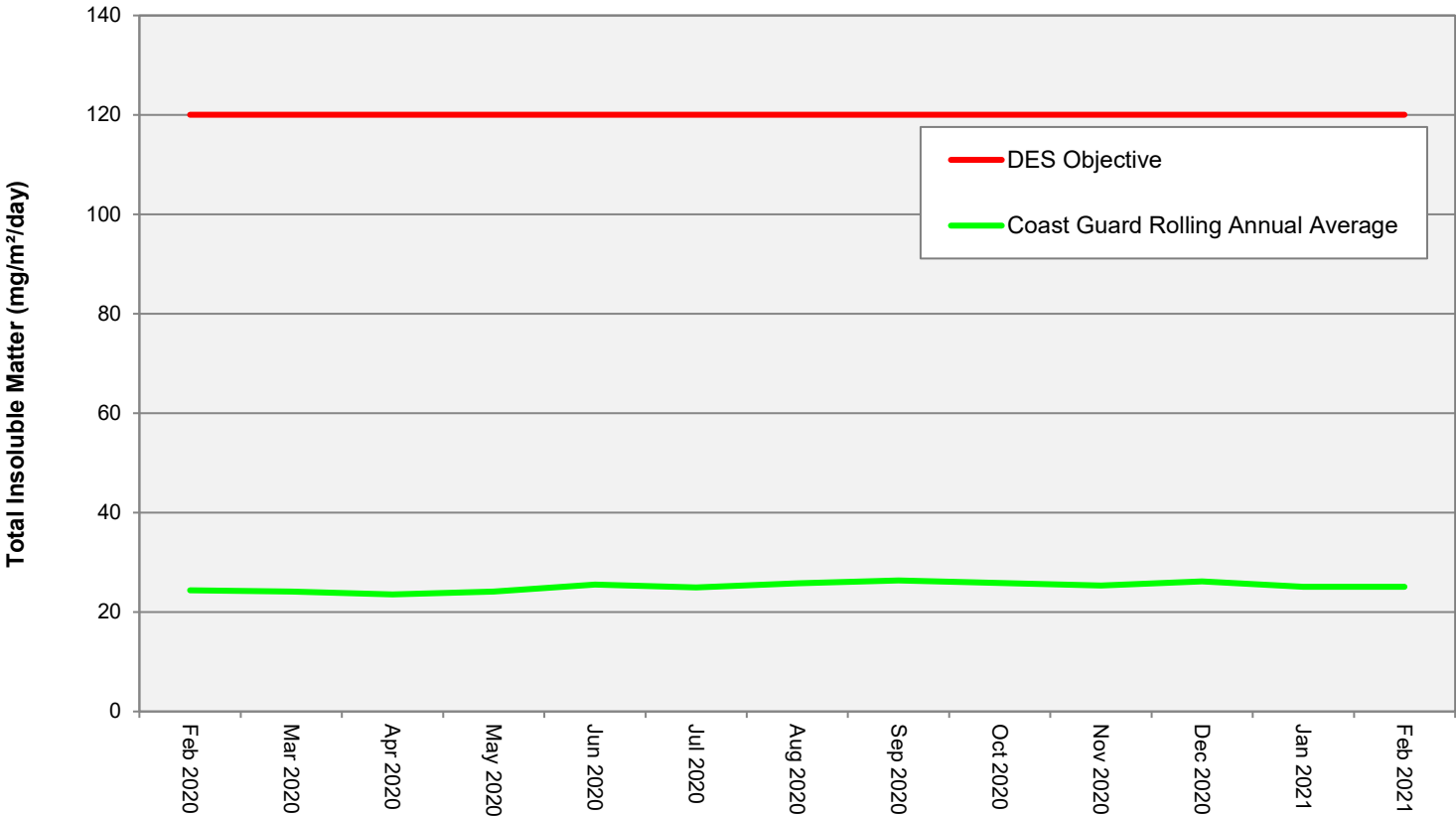
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site
2021



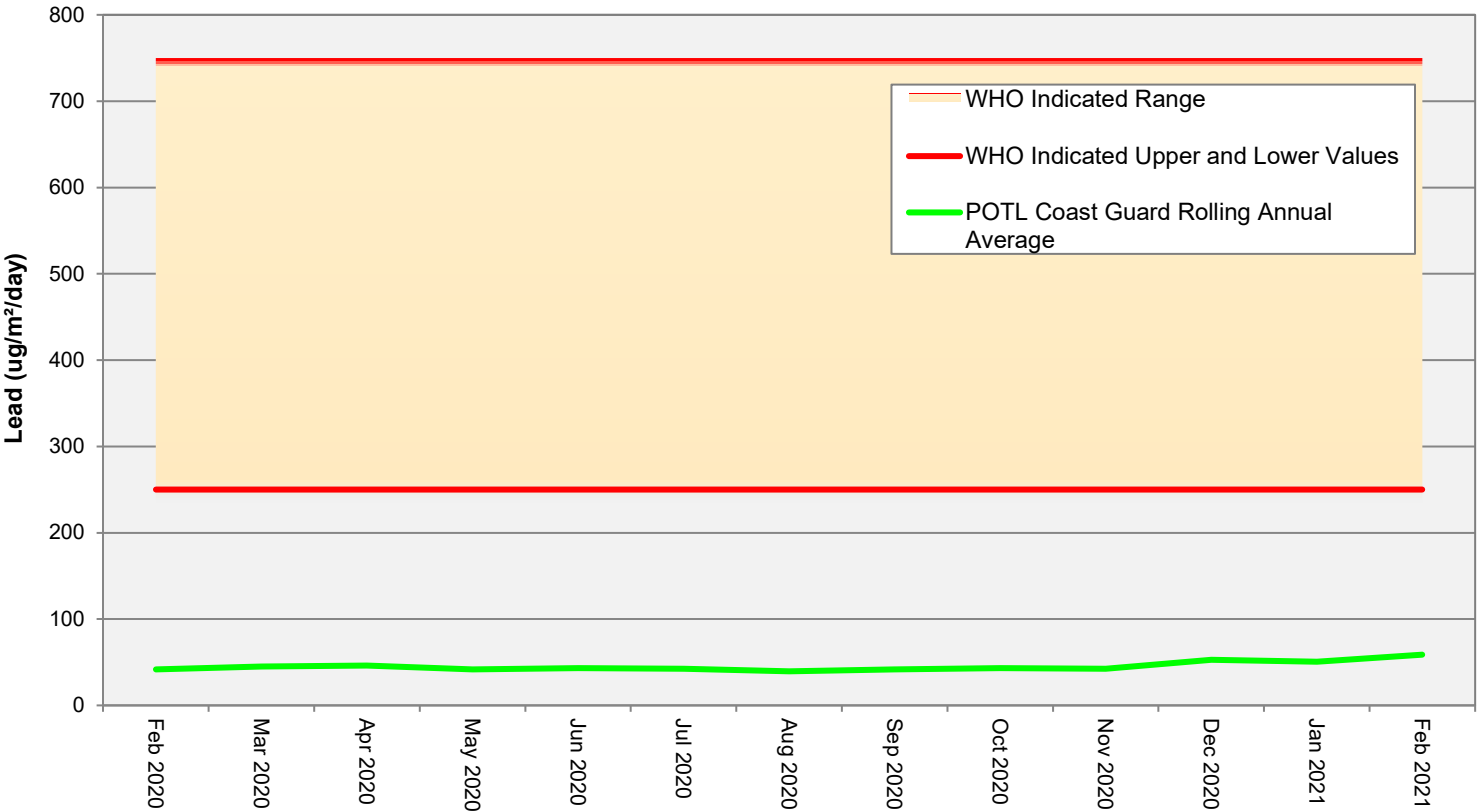
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
FEBRUARY 2020 – FEBRUARY 2021



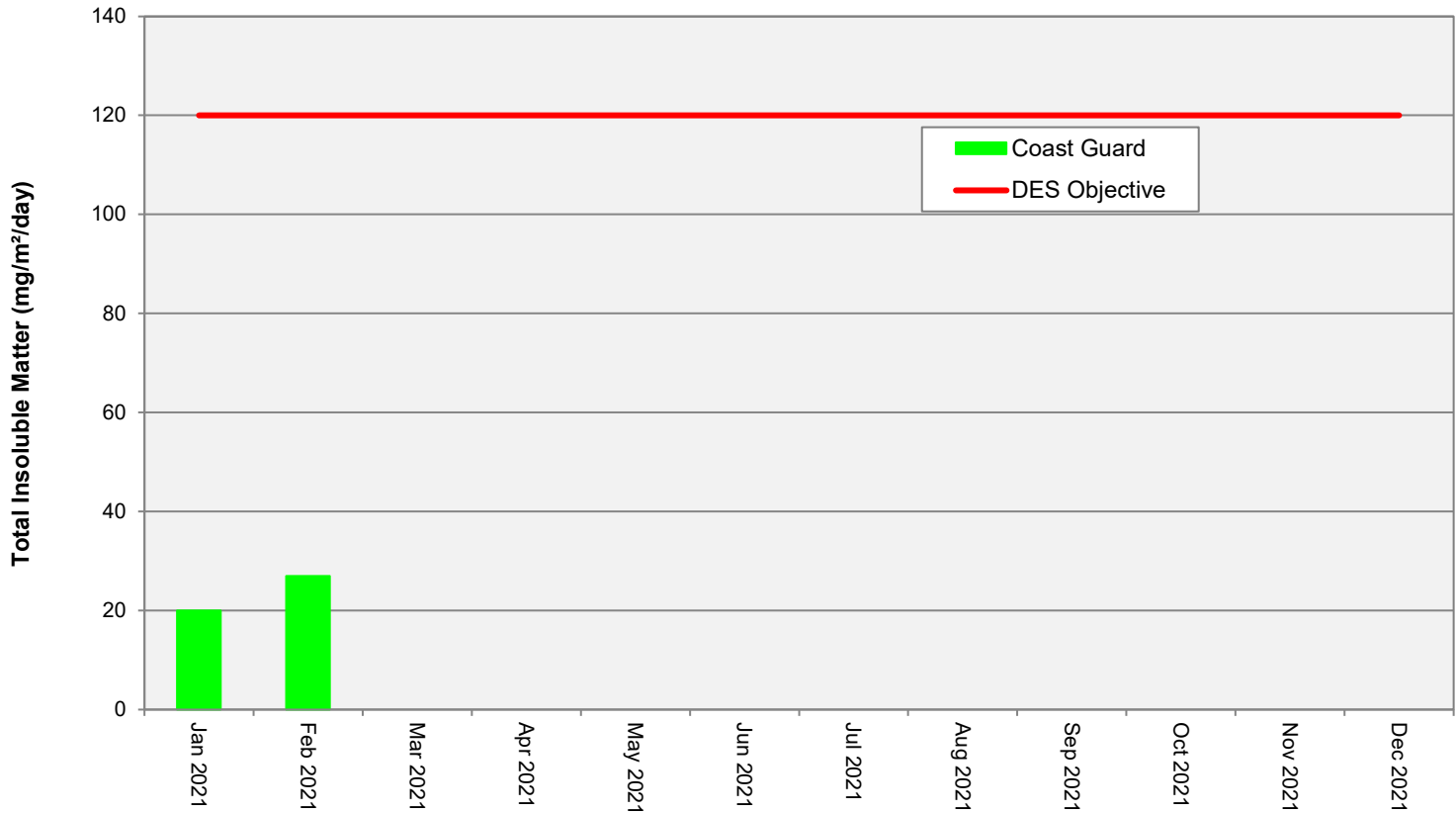
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site
FEBRUARY 2020 – FEBRUARY 2021



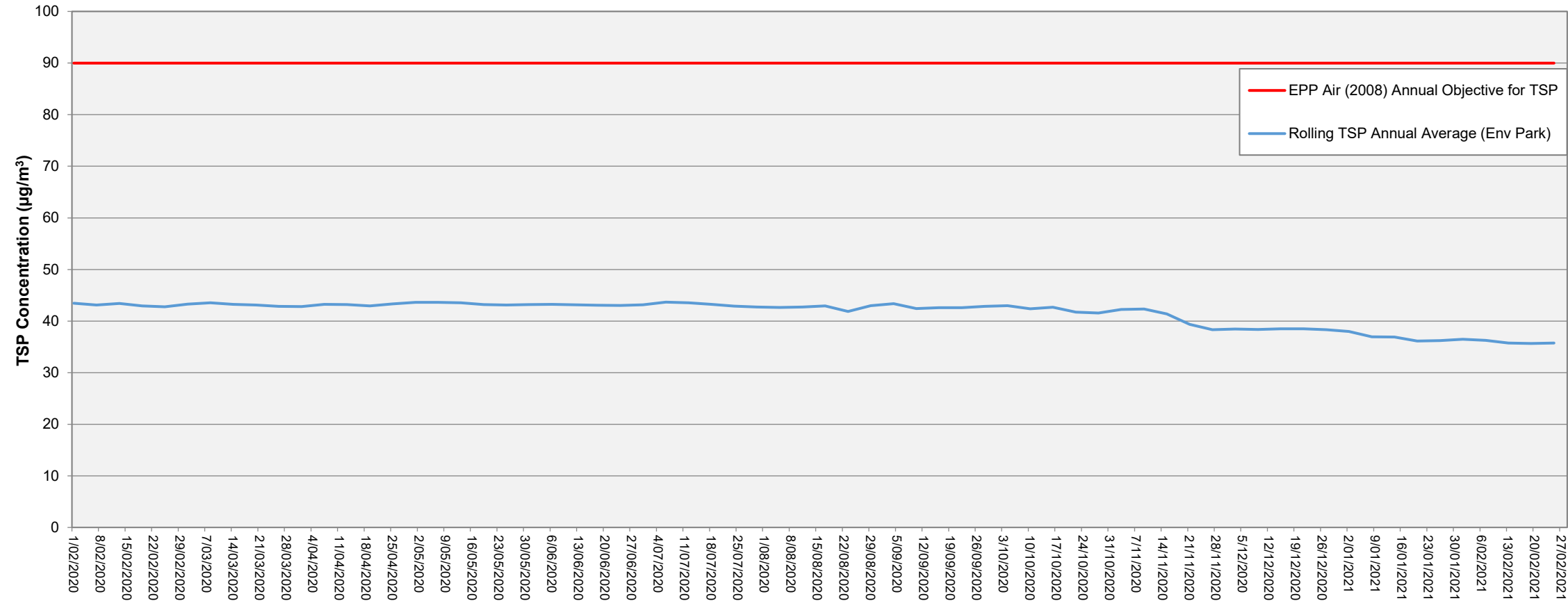
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
2021



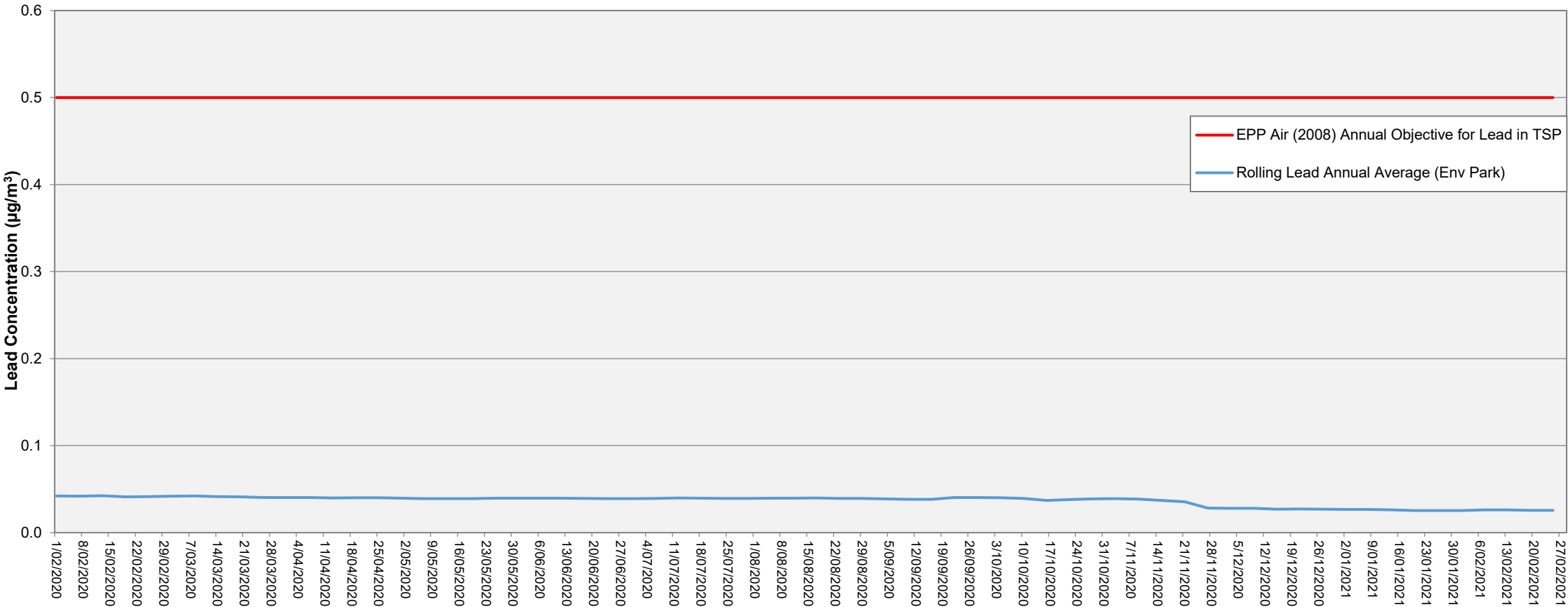
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site
FEBRUARY 2020 – FEBRUARY 2021



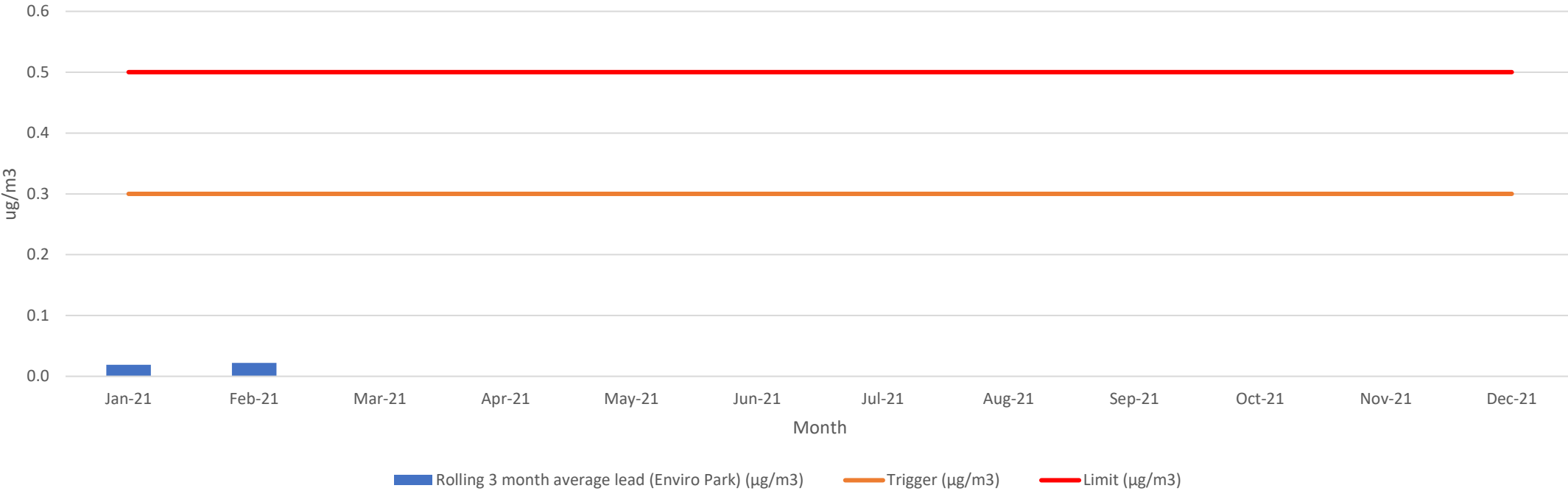
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
FEBRUARY 2020 – FEBRUARY 2021



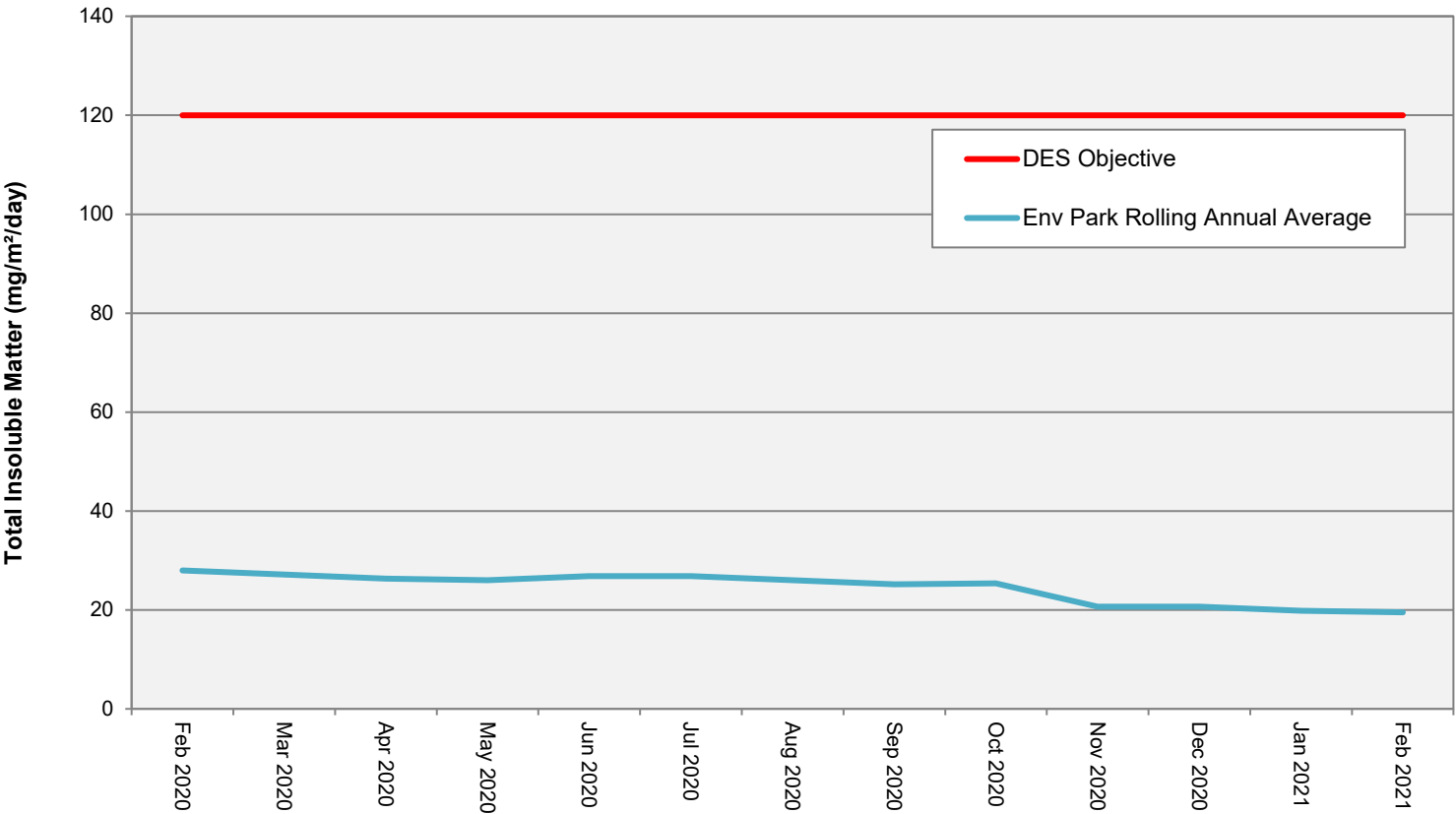
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
2021



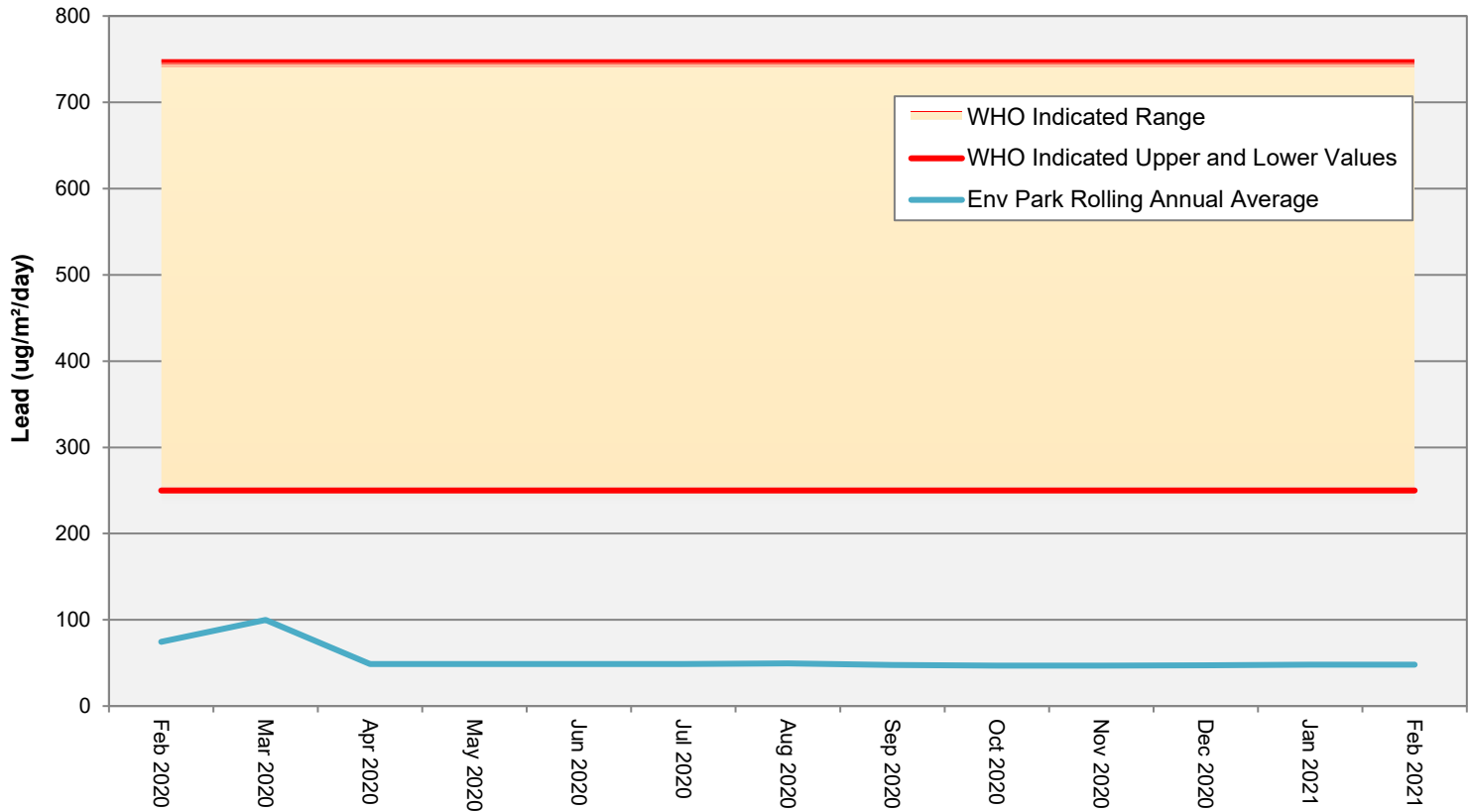
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
FEBRUARY 2020 – FEBRUARY 2021



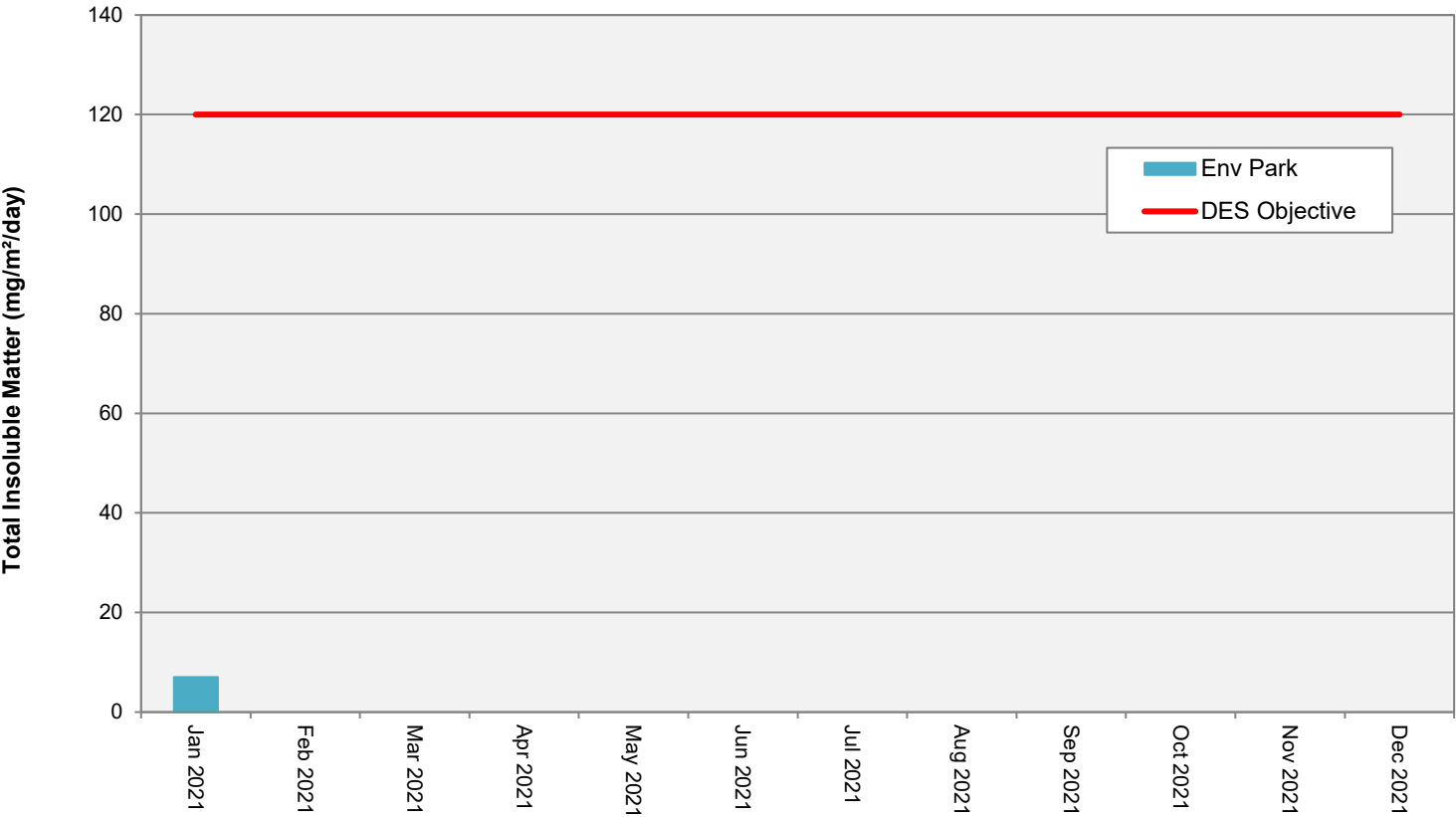
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site
FEBRUARY 2020 – FEBRUARY 2021



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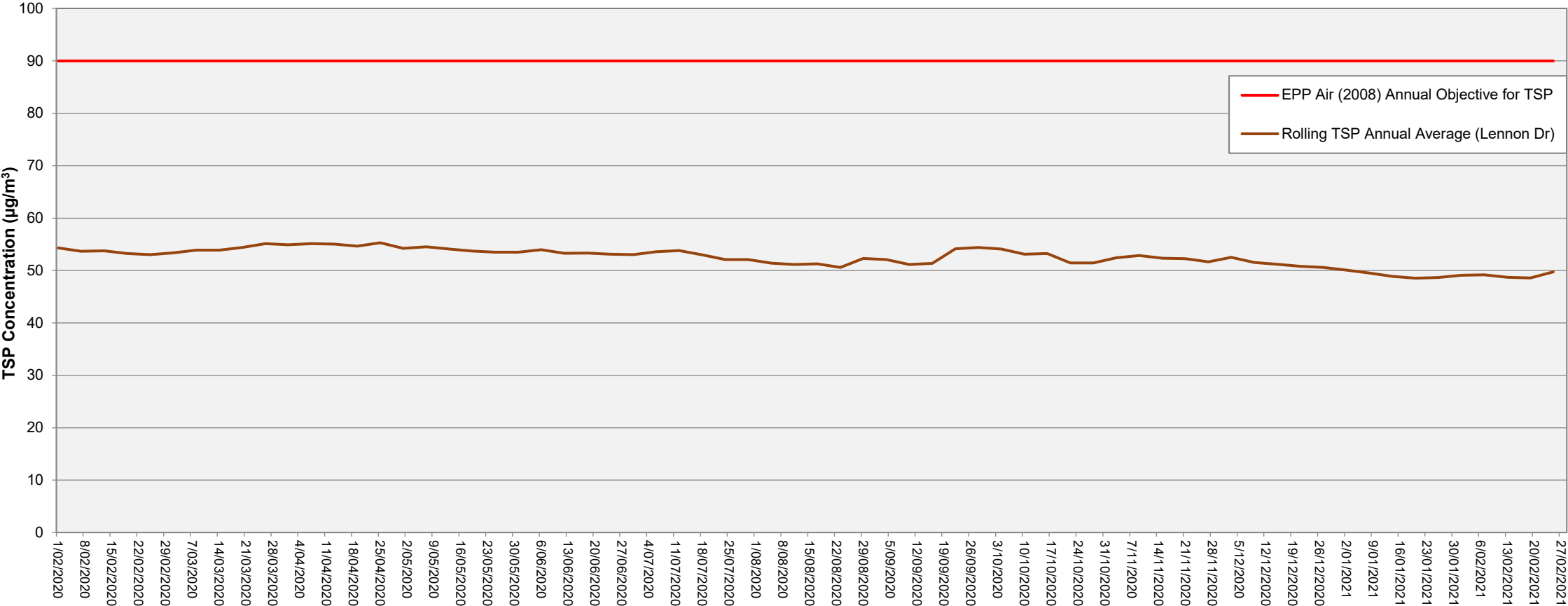
Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site
2021



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

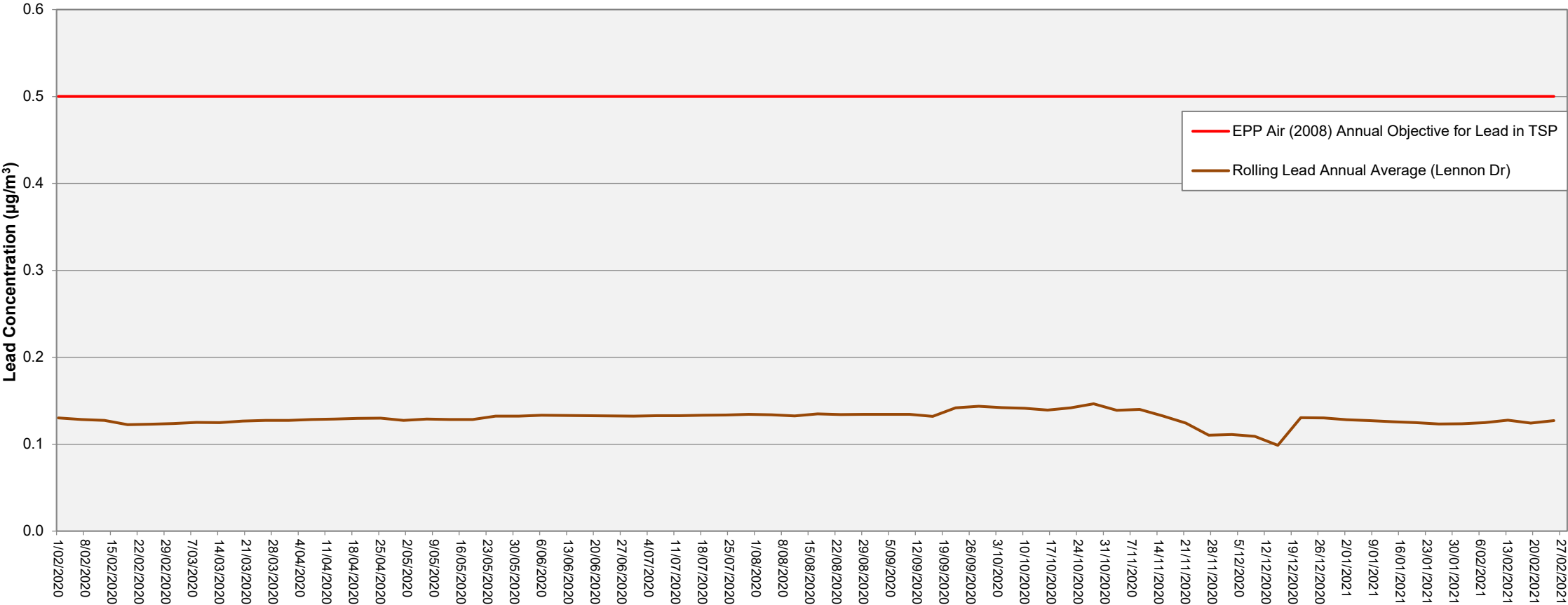
^February 2021 dust bottle damaged in transit. Nil data for display.

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site
FEBRUARY 2020 – FEBRUARY 2021



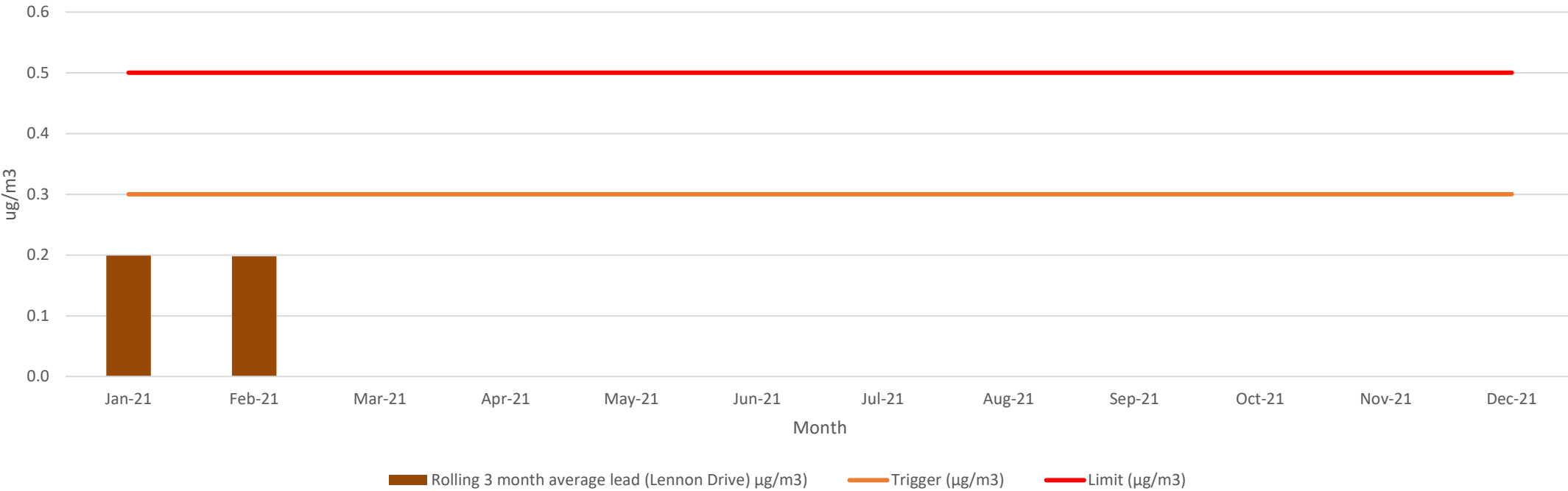
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
FEBRUARY 2020 – FEBRUARY 2021



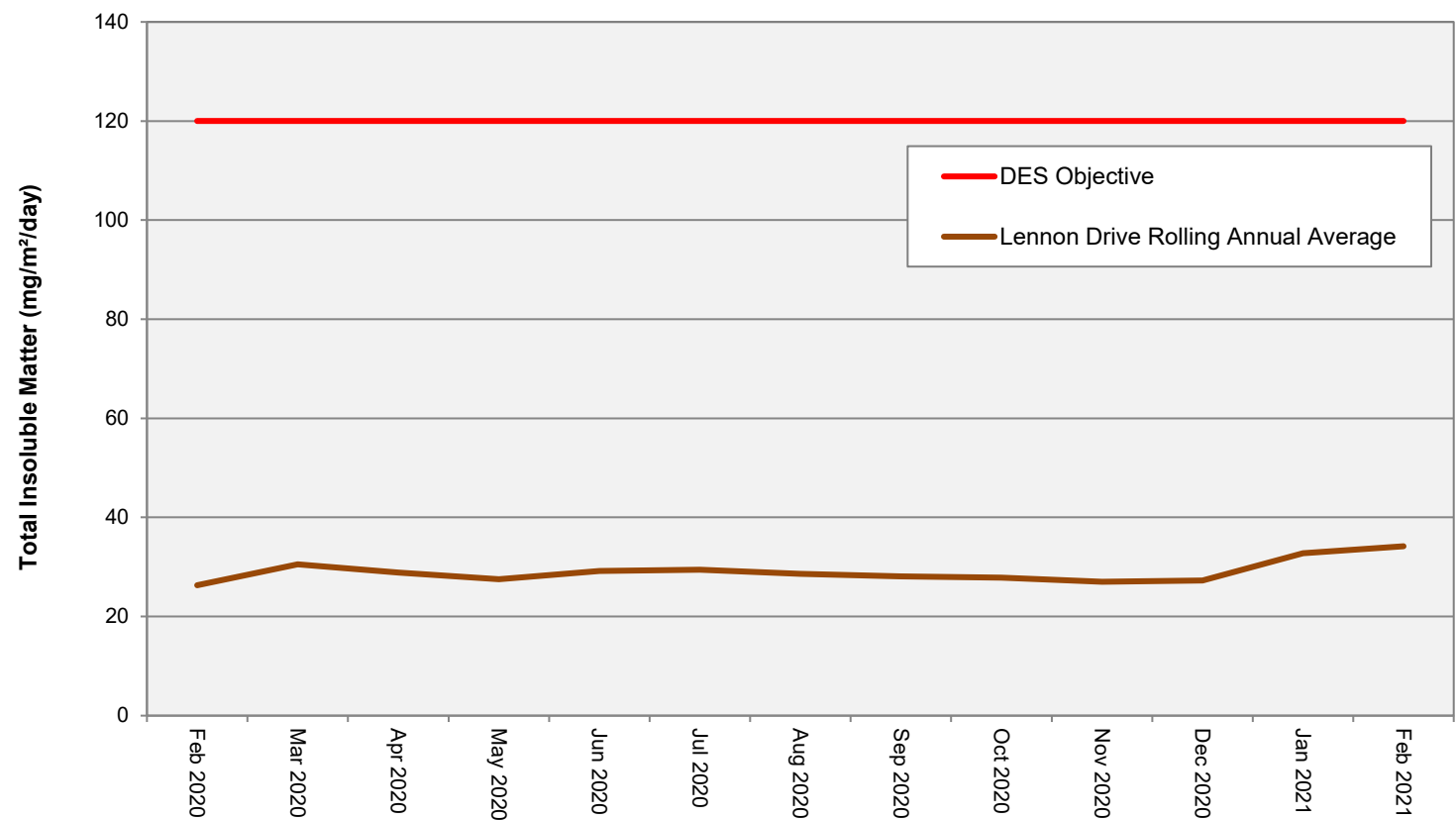
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
2021



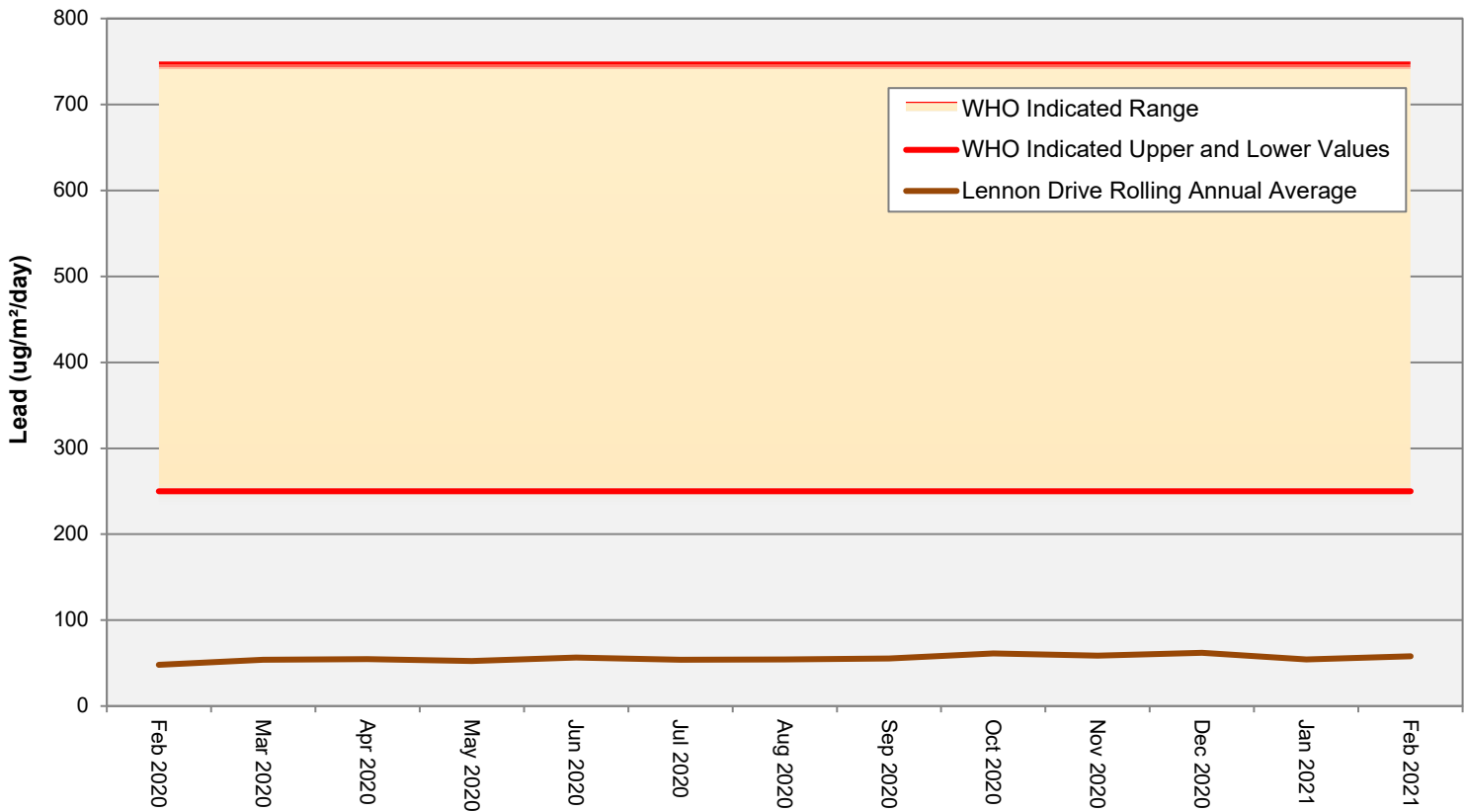
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
FEBRUARY 2020 – FEBRUARY 2021



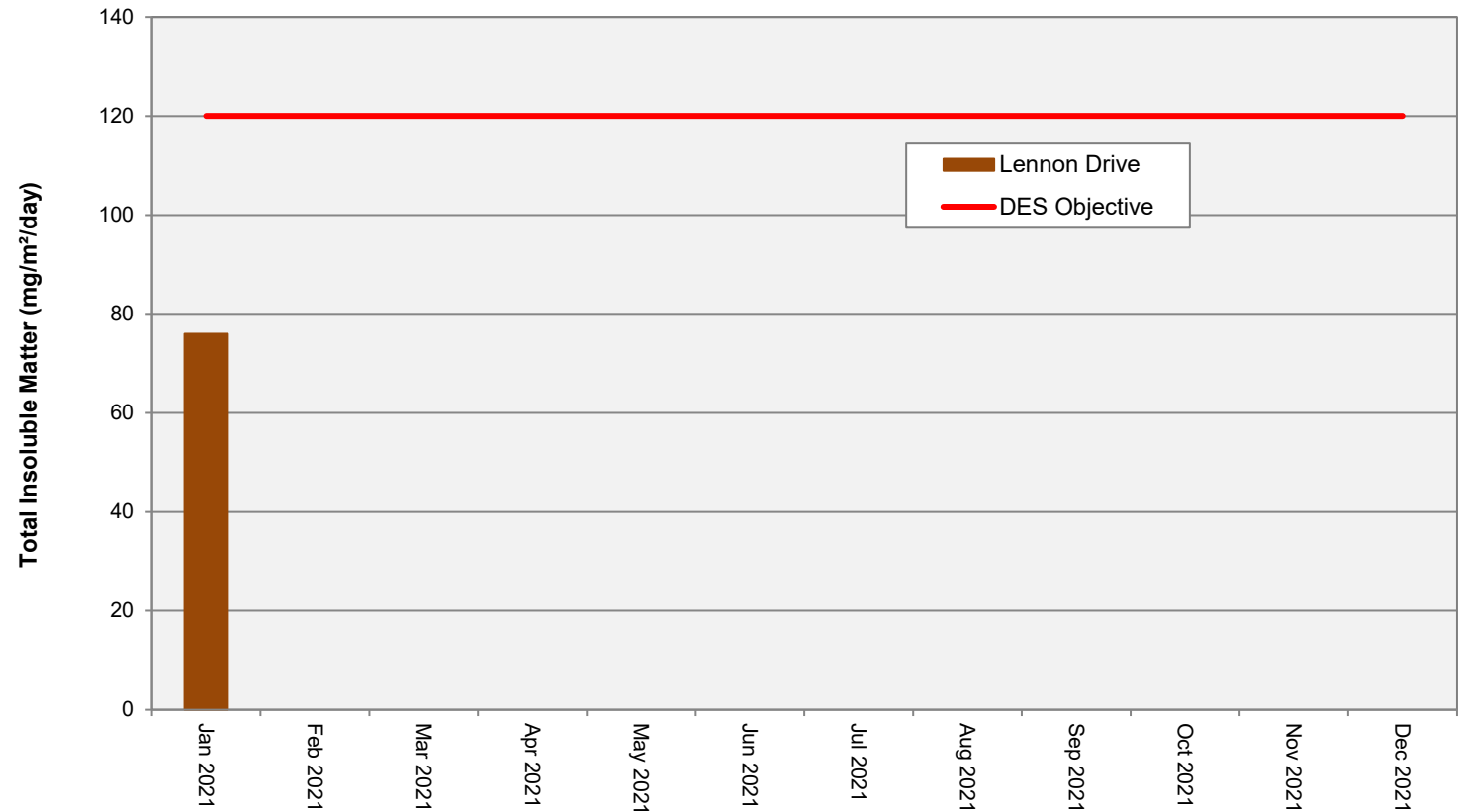
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site
FEBRUARY 2020 – FEBRUARY 2021



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Dust Deposition Gauge – General dust deposition levels (monthly) at Lennon Drive Site
2021



Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

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.