

Air Quality Dashboard | JANUARY | 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

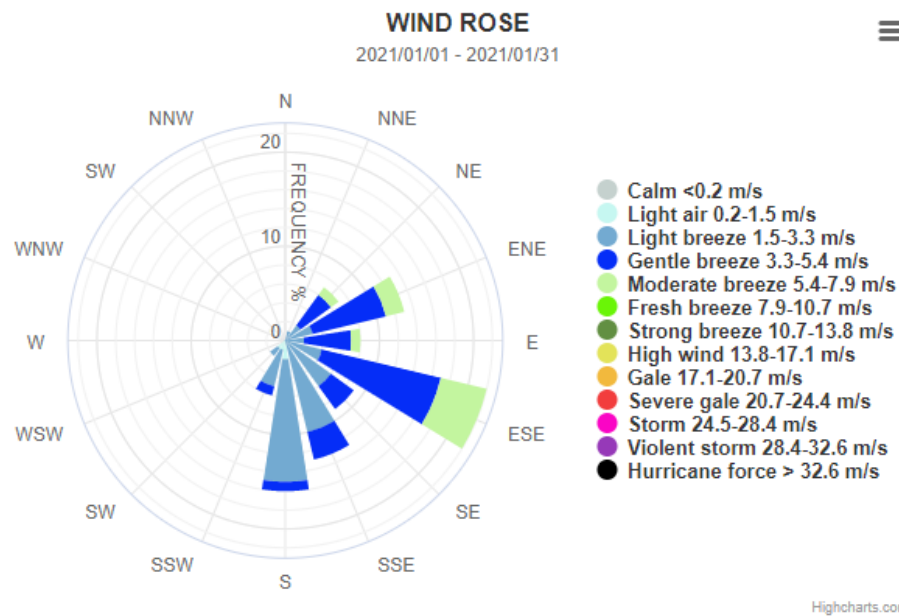
Air Quality Monitoring Locations

Coast Guard

Lennon Drive

Enviro Park

Victoria Park



Shipping Movements in January 2021

Date In/Out	Vessel Name	Cargo	Berth
28 Dec - 01 Jan	ECKERT OLDENDORFF	Sugar (Export), Nil Cargo (Import)	T09
29 Dec - 04 Jan	LEONARDO	Nil Cargo (Export), Sulphur (Import)	T08
29 Dec - 02 Jan	HANSA REGENSBURG	Containers (Export), Containers (Import)	T03S
31 Dec - 07 Jan	UNI SUNSHINE	Nil Cargo (Export), Zinc Concentrates (Import)	T10
01 Jan - 04 Jan	LENTIKIA	Sugar (Export), Nil Cargo (Import)	T09
02 Jan - 05 Jan	KONDILI	Nil Cargo (Export), Cement (Import)	T04
03 Jan - 03 Jan	MIDNIGHT GLORY	Nil Cargo (Export), Fuels (Import)	T01
04 Jan - 07 Jan	CS CANDY	Zinc Concentrates (Export), Nil Cargo (Import)	T08
04 Jan - 07 Jan	BELLE ETOILE	Sugar (Export), Nil Cargo (Import)	T09
05 Jan - 06 Jan	THERESA MICRONESIA	Molasses (Export), Nil Cargo (Import)	T04
05 Jan - 06 Jan	CORDULA JACOB	Nil Cargo (Export), Fuels (Import)	T01
06 Jan - 08 Jan	STI GALATA	Nil Cargo (Export), Fuels (Import)	T01
07 Jan - 09 Jan	FURNESS PORTLAND	Sugar (Export), Nil Cargo (Import)	T09
07 Jan - 09 Jan	UNI SUNSHINE	Nil Cargo (Export), Nil Cargo (Import)	T08
09 Jan - 09 Jan	NOBLE ACE	Nil Cargo (Export), Motor Vehicles (Import)	T04
09 Jan - 11 Jan	UNI SUNSHINE	Nil Cargo (Export), Nil Cargo (Import)	T03S
10 Jan - 12 Jan	GANADO EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
10 Jan - 14 Jan	ARIZONA	Fertilizer (Export), Nil Cargo (Import)	T08
11 Jan - 12 Jan	STI MILLENNIA	Nil Cargo (Export), Fuels (Import)	T01
11 Jan - 12 Jan	CS CANDY	Nil Cargo (Export), Nil Cargo (Import)	T03S
12 Jan - 15 Jan	MARITIME FAITH	Lead Concentrates (Export), Nil Cargo (Import)	T11
13 Jan - 14 Jan	KOTA HIDAYAH	Containers (Export), Containers (Import)	T03S
13 Jan - 13 Jan	AUROCHS	Cattle (Export), Nil Cargo (Import)	T04
13 Jan - 14 Jan	LAE CHIEF	Nil Cargo (Export), Nil Cargo (Import)	T10
14 Jan - 14 Jan	MERCURY LEADER	Nil Cargo (Export), Nil Cargo (Import)	T09

Date In/Out	Vessel Name	Cargo	Berth
14 Jan - 16 Jan	PACIFIC CONDOR	General Cargo (Export), Containers (Import)	T03N
14 Jan - 15 Jan	GOLDEN AUSTRALIS	Nil Cargo (Export), Fuels (Import)	T01
14 Jan - 15 Jan	SEASTAR VALIANT	Concentrates (Export), Nil Cargo (Import)	T08
15 Jan - 17 Jan	FLORA DELMAS	Nil Cargo (Export), Containers (Import)	T03S
16 Jan - 17 Jan	CRIMSON MAJESTY	Concentrates (Export), Nil Cargo (Import)	T08
19 Jan - 21 Jan	CRIMSON MAJESTY	Concentrates (Export), Nil Cargo (Import)	T11
21 Jan - 22 Jan	HIGH VENTURE	Nil Cargo (Export), Fuels (Import)	T01
21 Jan - 22 Jan	CRIMSON MAJESTY	Nil Cargo (Export), Nil Cargo (Import)	T03S
22 Jan - 23 Jan	THE JUDGE	Nil Cargo (Export), Bitumen (Import)	T01
23 Jan - 24 Jan	OCEAN SWAGMAN	Cattle (Export), Nil Cargo (Import)	T10
23 Jan - 25 Jan	PAKHOI	Lead Ingots (Export), Nil Cargo (Import)	T03S
24 Jan - 24 Jan	FLORIDA HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03N
24 Jan - 26 Jan	GLOUCESTER EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
25 Jan - 25 Jan	TOKYO TRADER	Containers (Export), Containers (Import)	T03S
26 Jan - 26 Jan	GREYMAN EXPRESS	Nil Cargo (Export), Cattle (Import)	T03N
26 Jan - 28 Jan	ECO DESTINY	Fertilizer (Export), Nil Cargo (Import)	T08
27 Jan - 29 Jan	XING RONG HAI	Sugar (Export), Nil Cargo (Import)	T09
28 Jan - 28 Jan	DRIVE GREEN HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03N
28 Jan - 31 Jan	STREAM ARCTIC	Sulphuric Acid (Export), Nil Cargo (Import)	T01
28 Jan - 29 Jan	YANGTZE HARMONY	Cattle (Export), Nil Cargo (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.

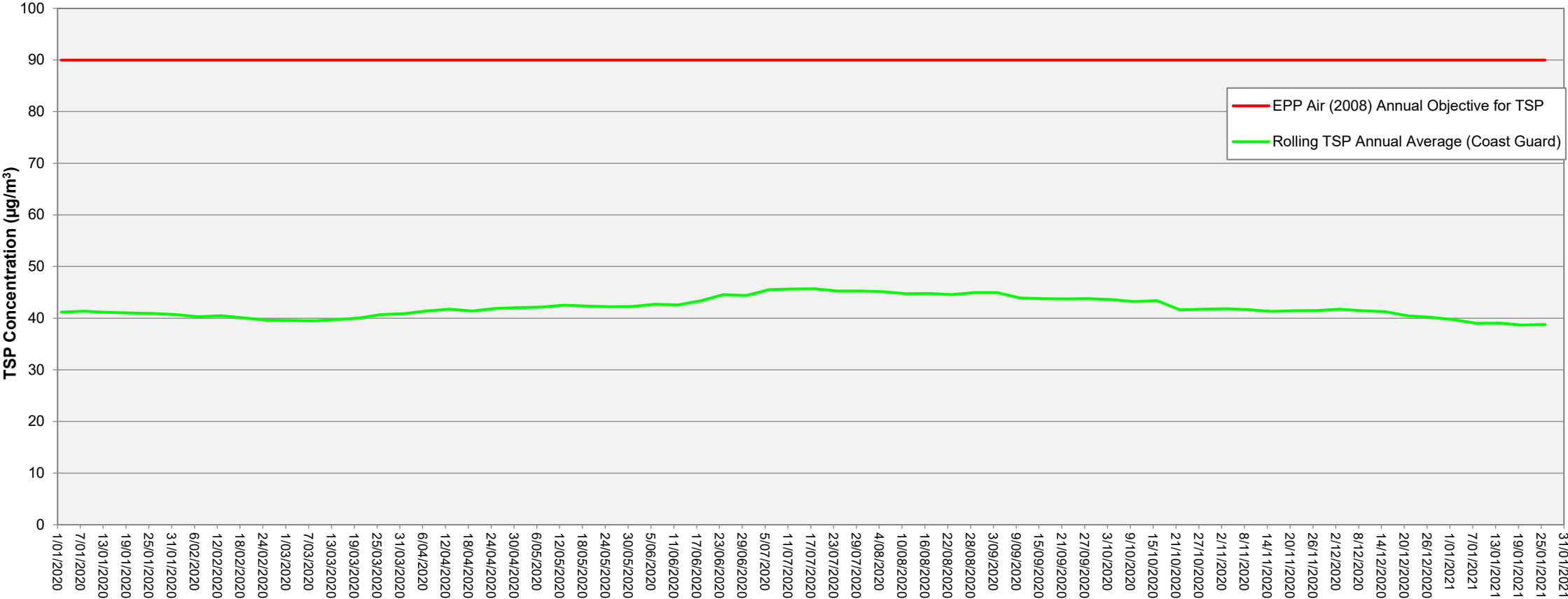
OR

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

Ask a Question / Provide Feedback

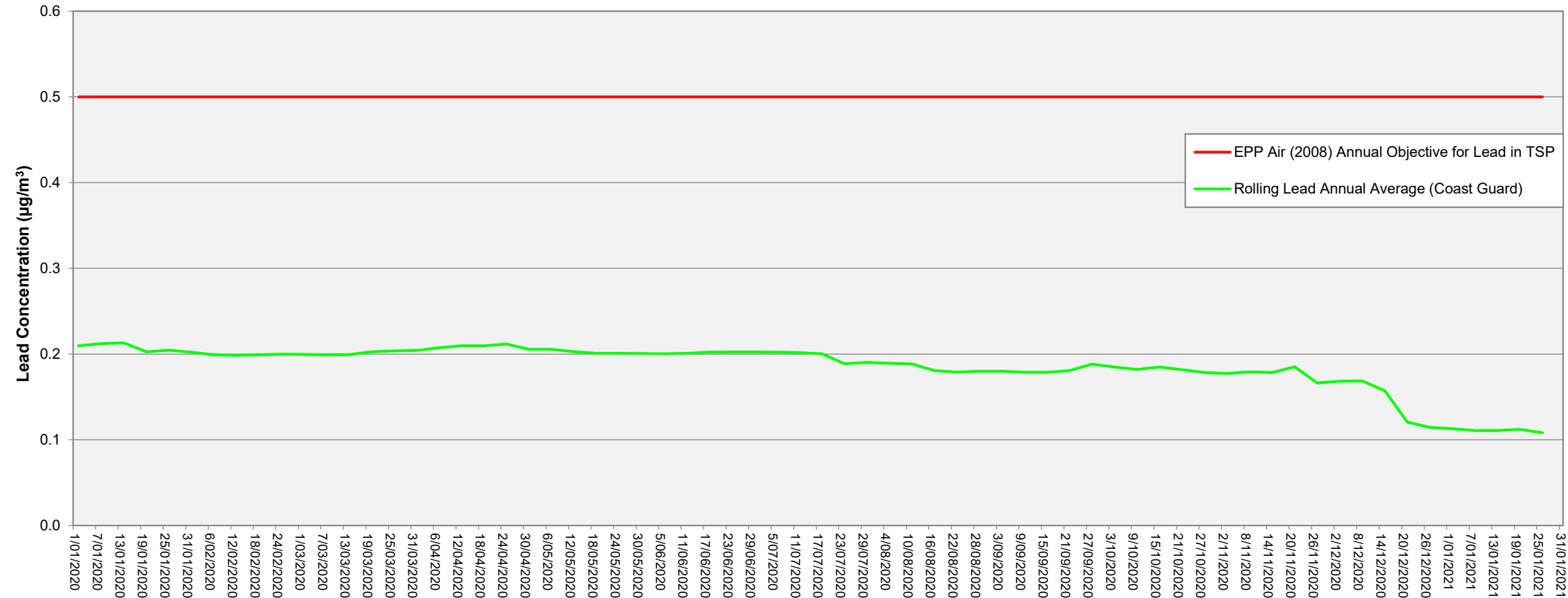
Send your enquiry or feedback to community@townsvilleport.com.au

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



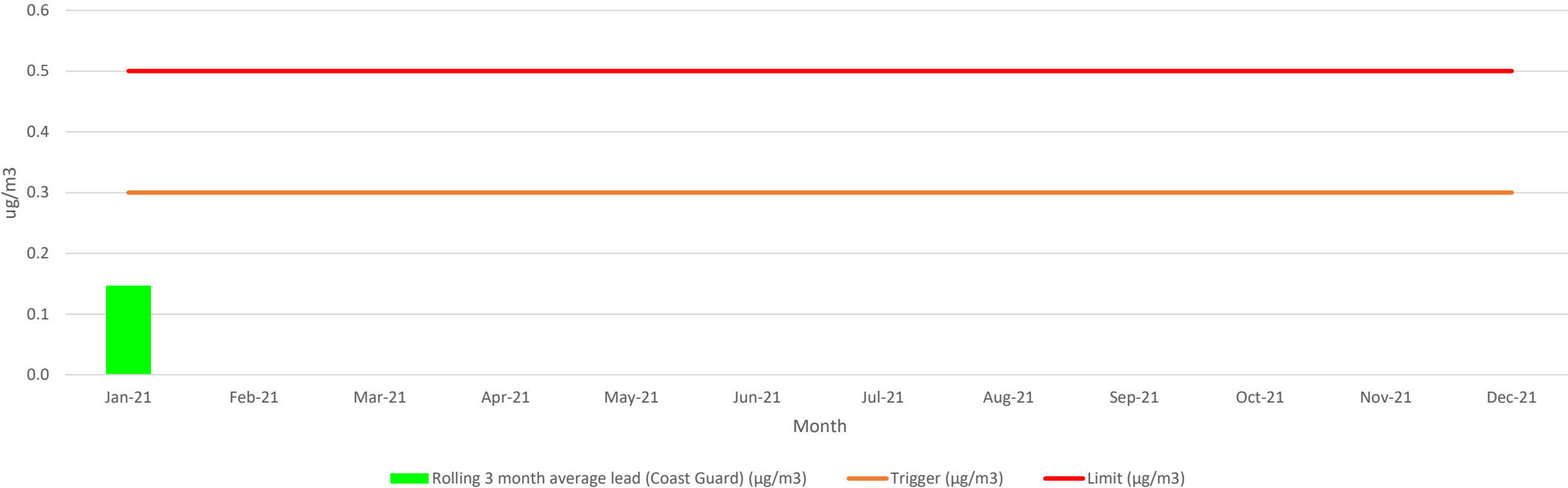
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



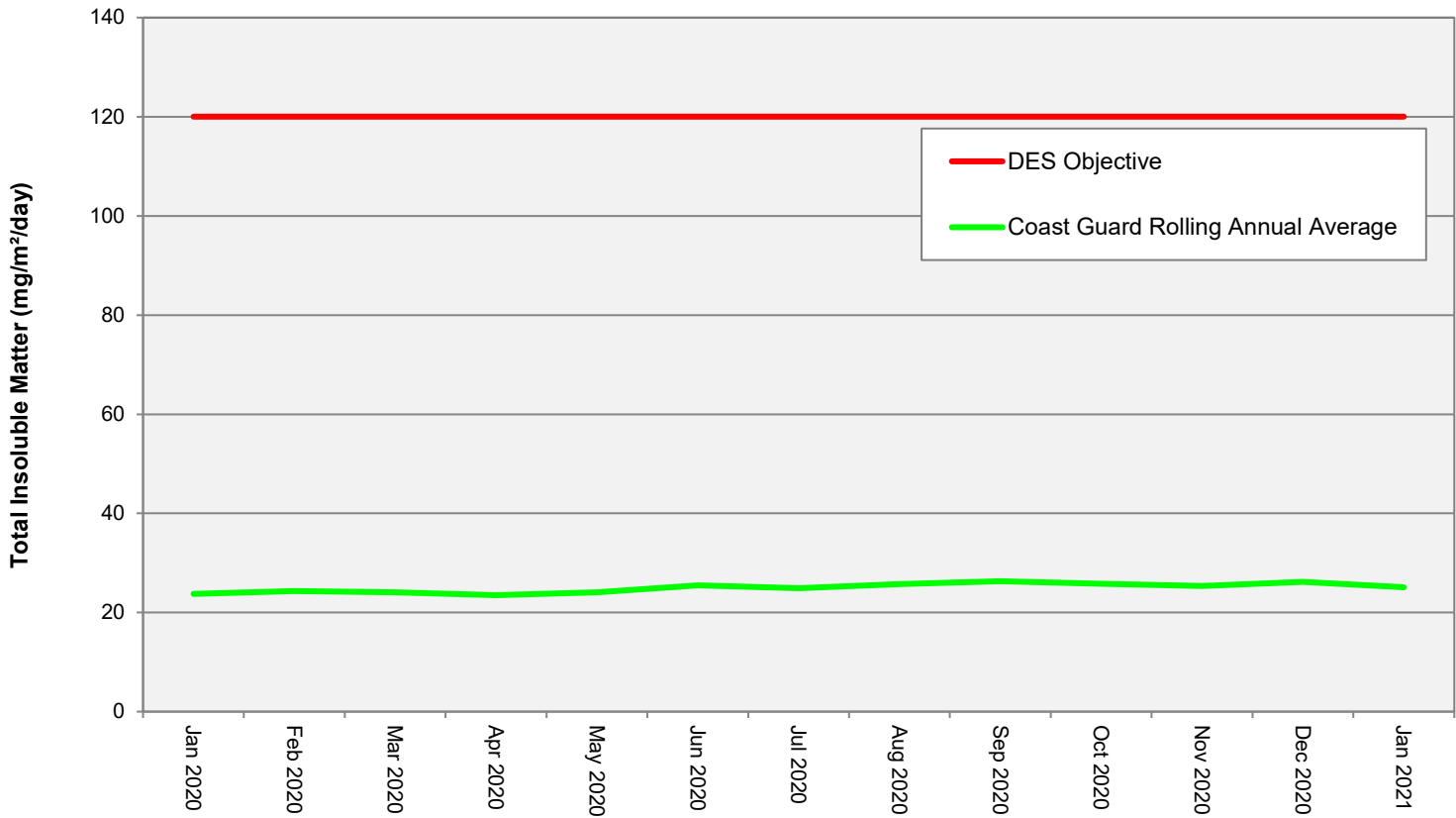
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2021



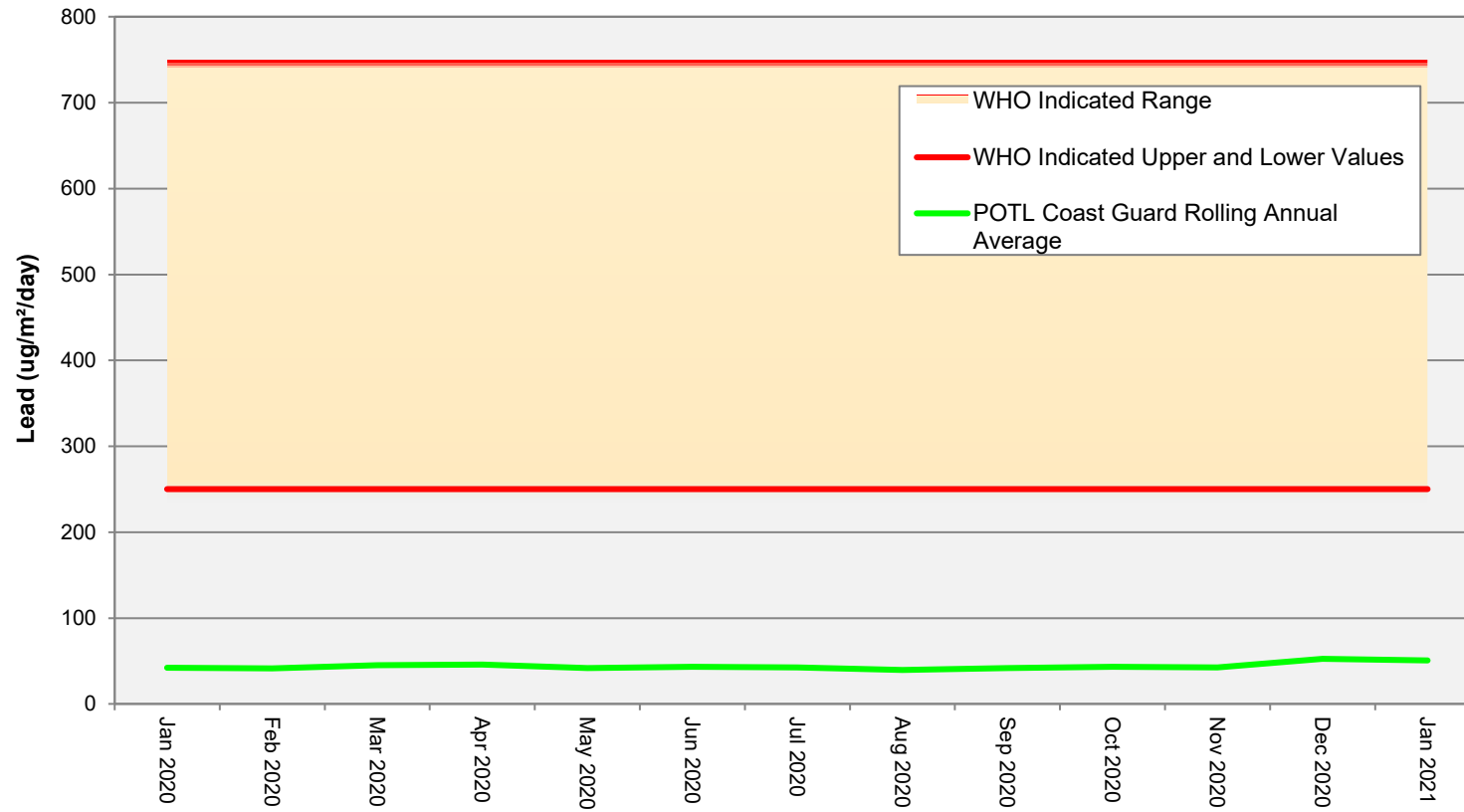
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



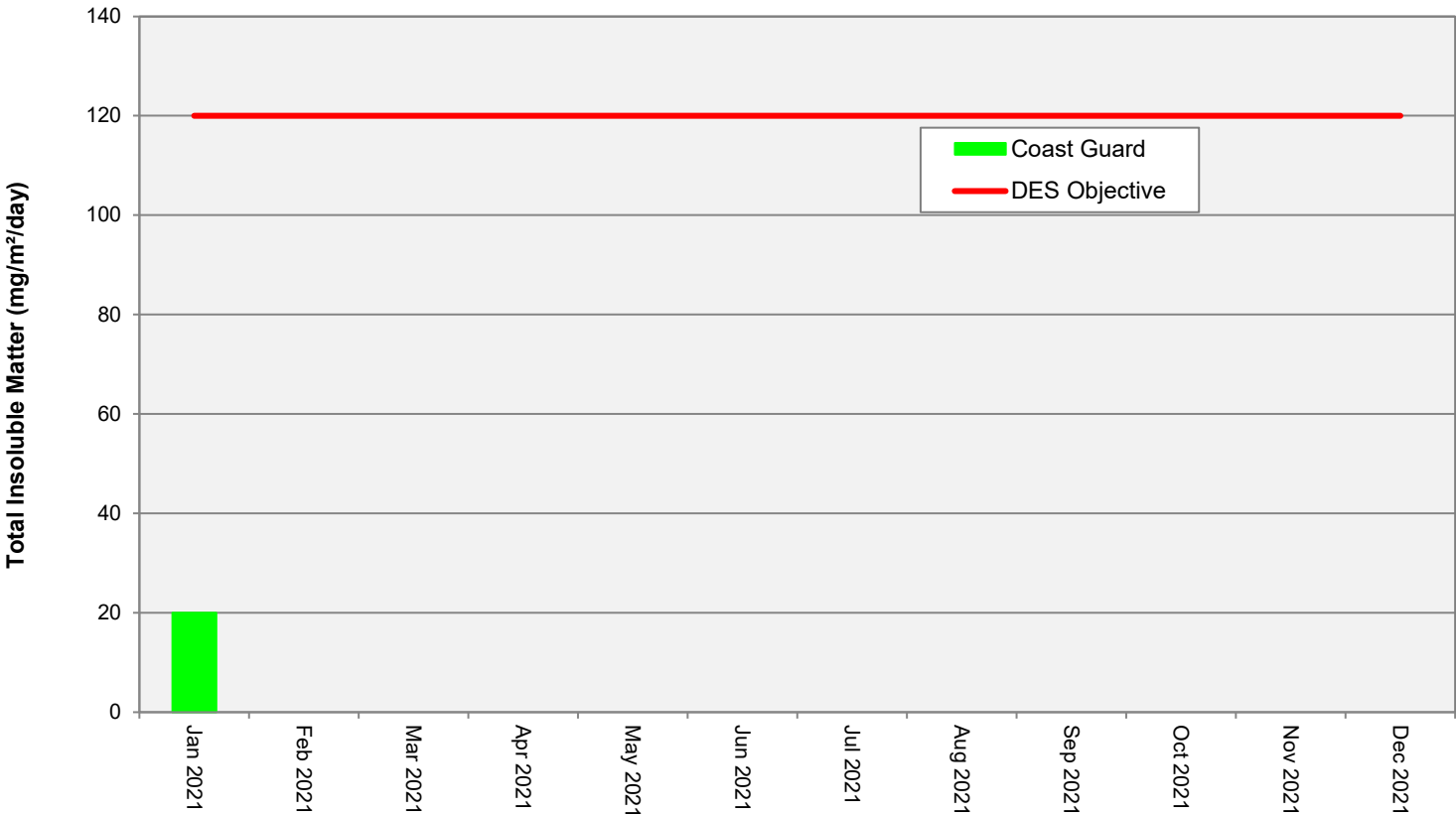
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site JANUARY 2020 – JANUARY 2021



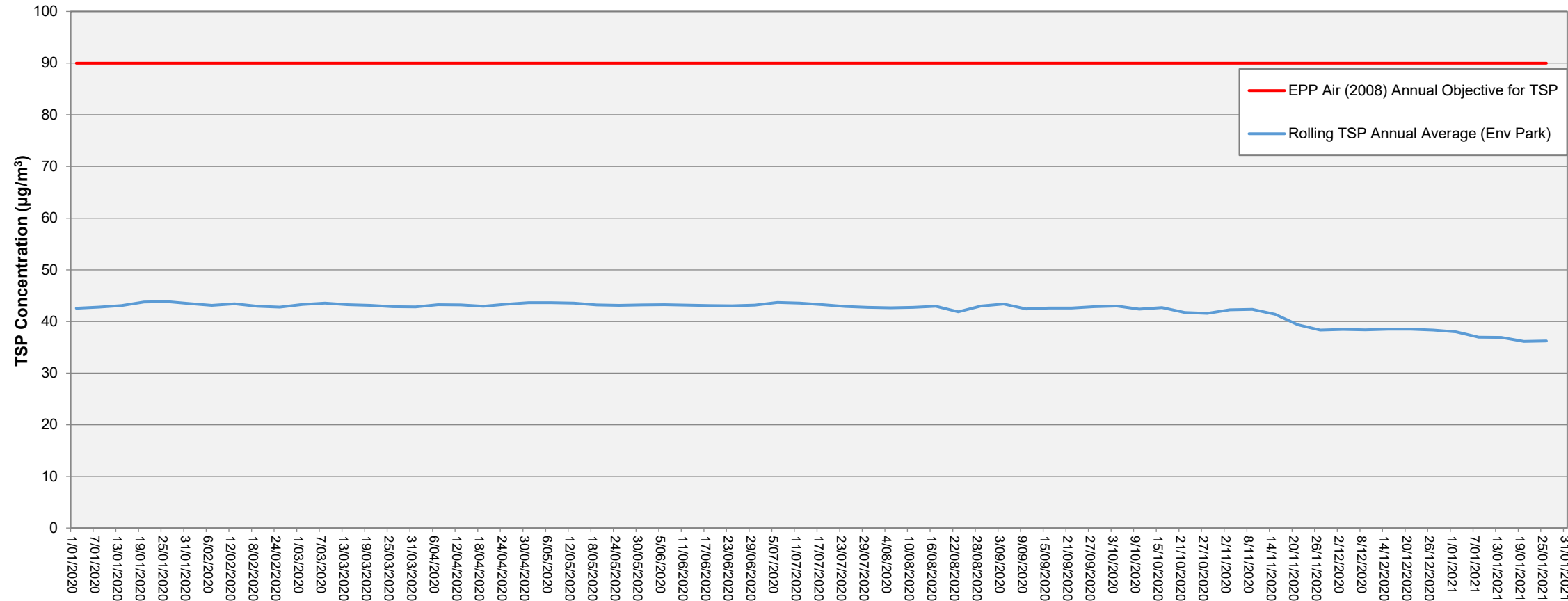
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Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
2021



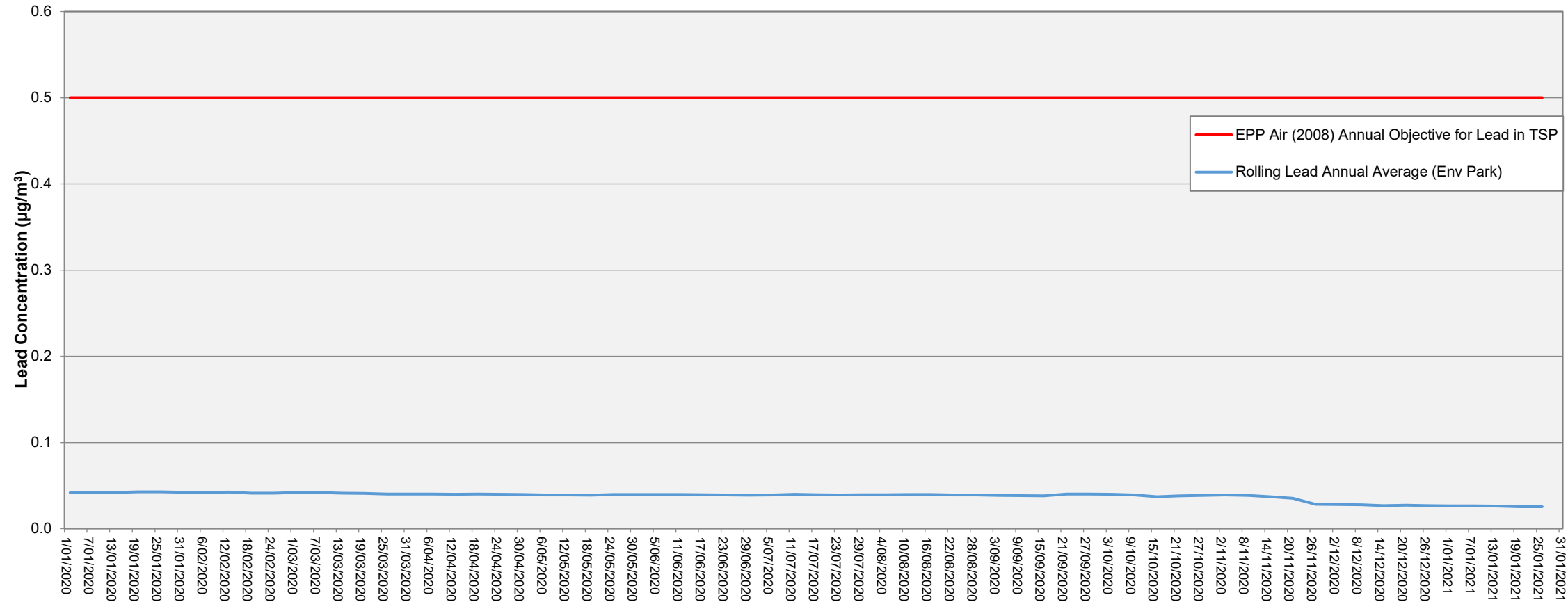
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



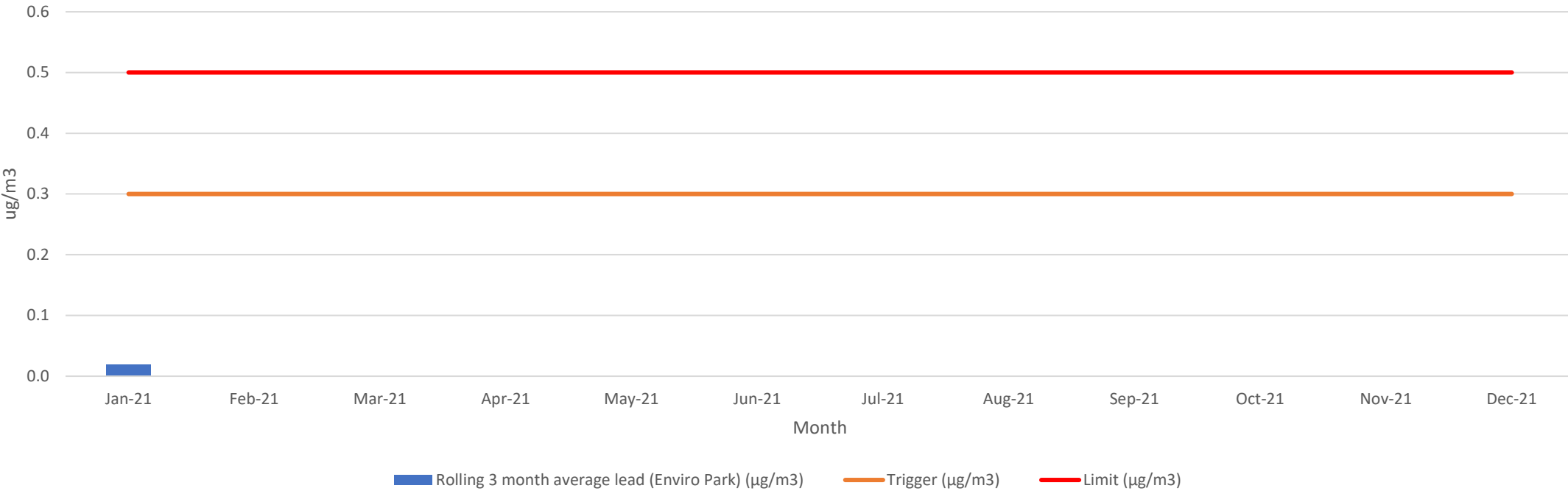
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
JANUARY 2020 – JANUARY 2021



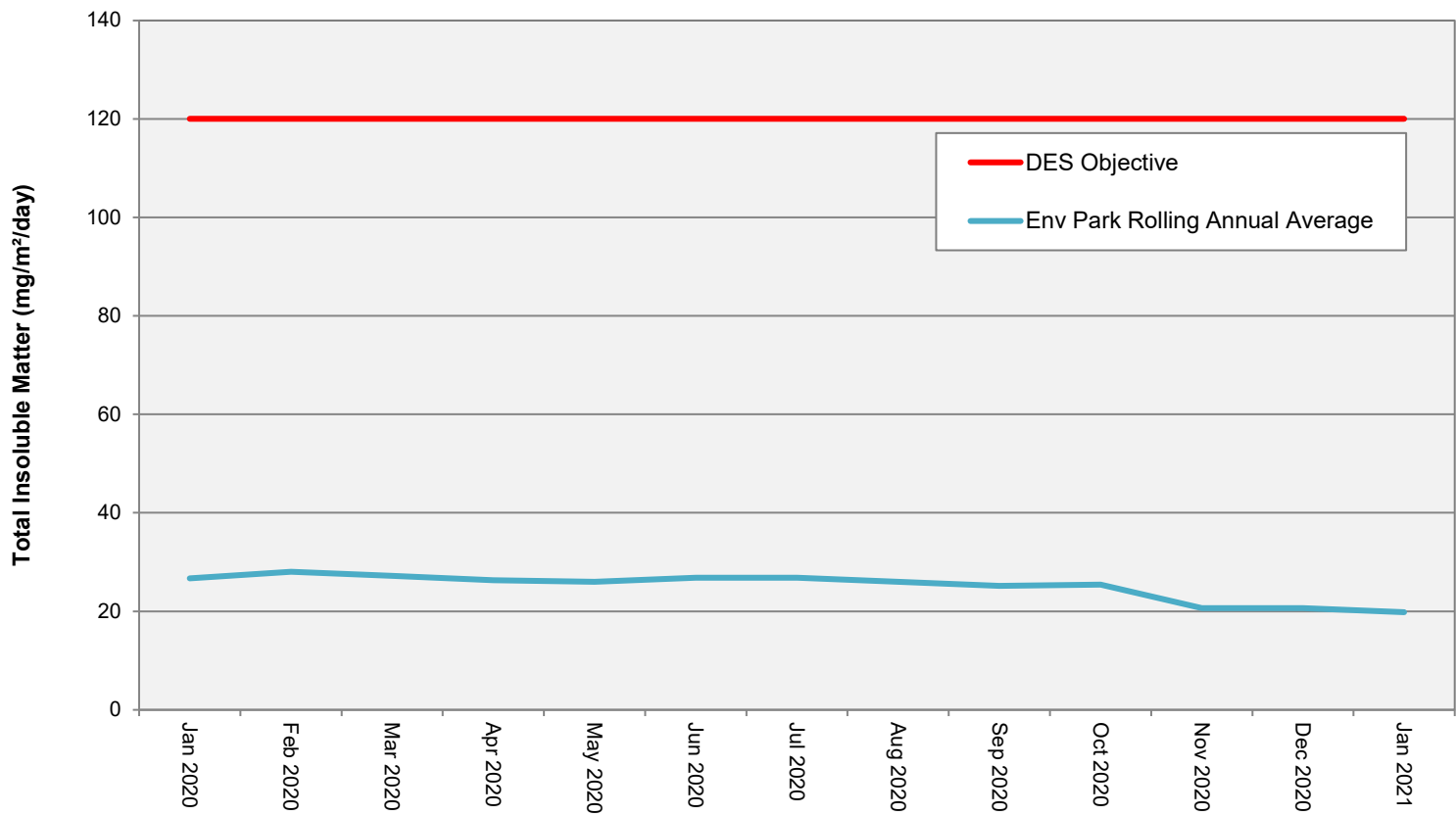
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
2021



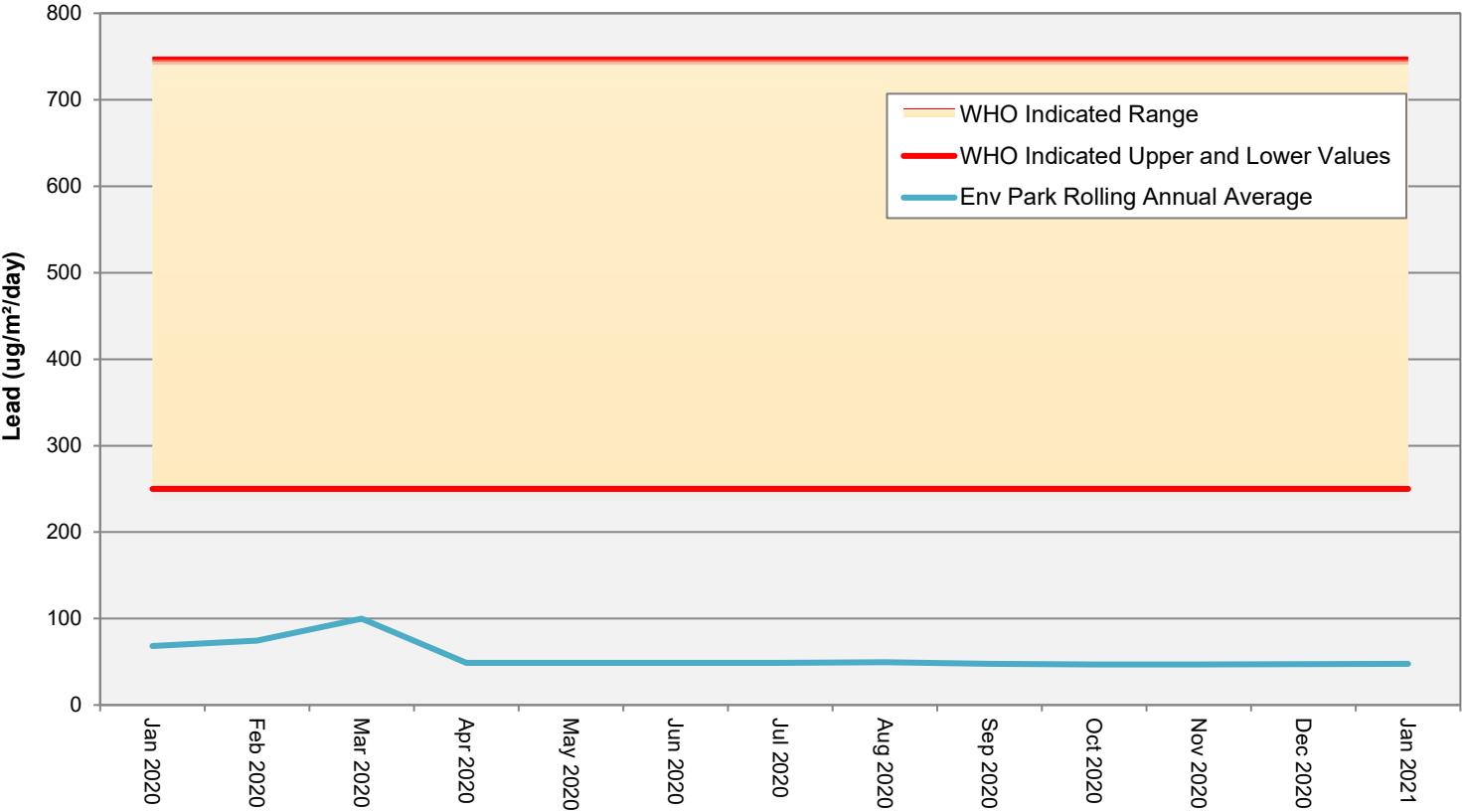
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Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
JANUARY 2020 – JANUARY 2021



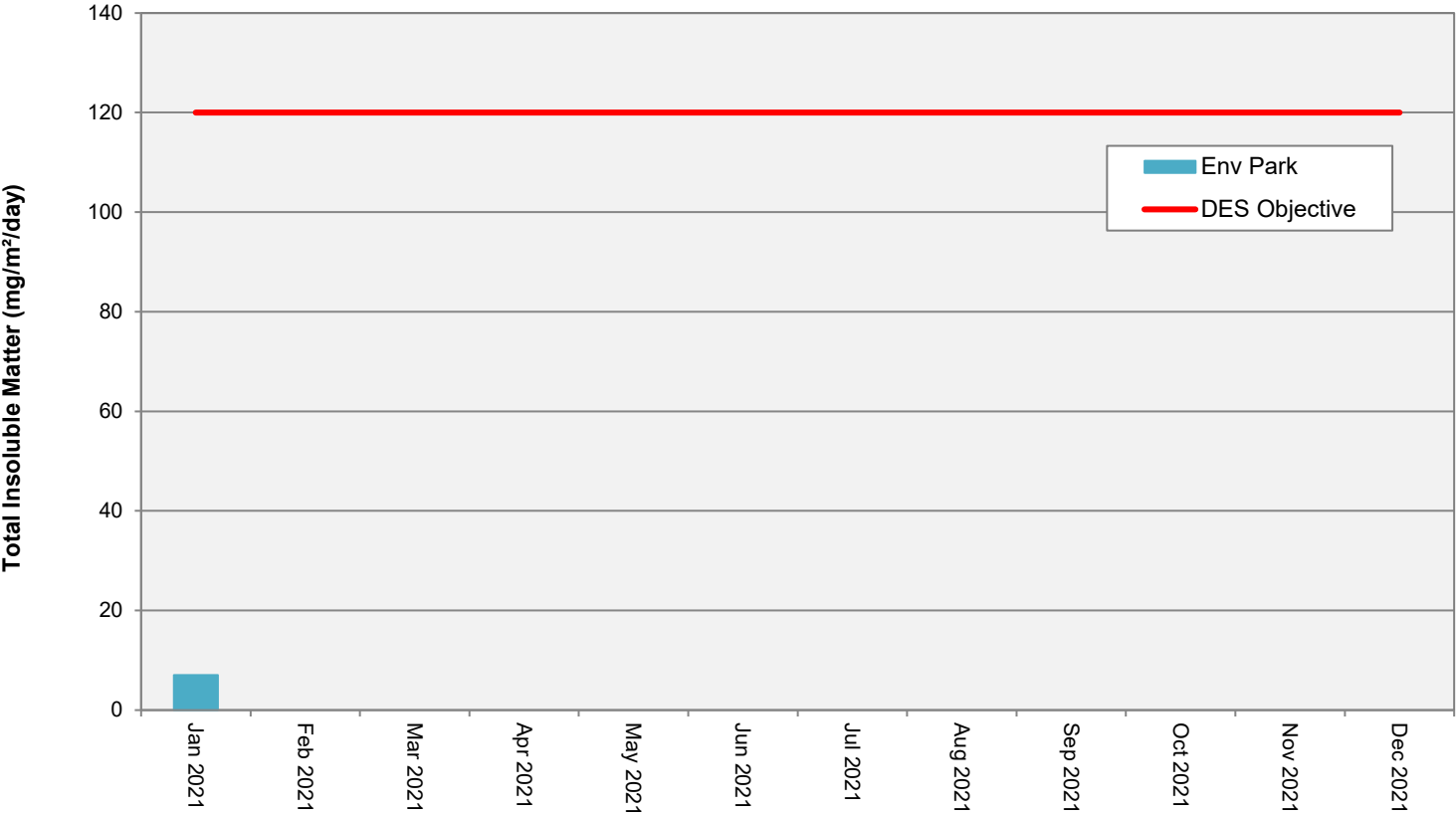
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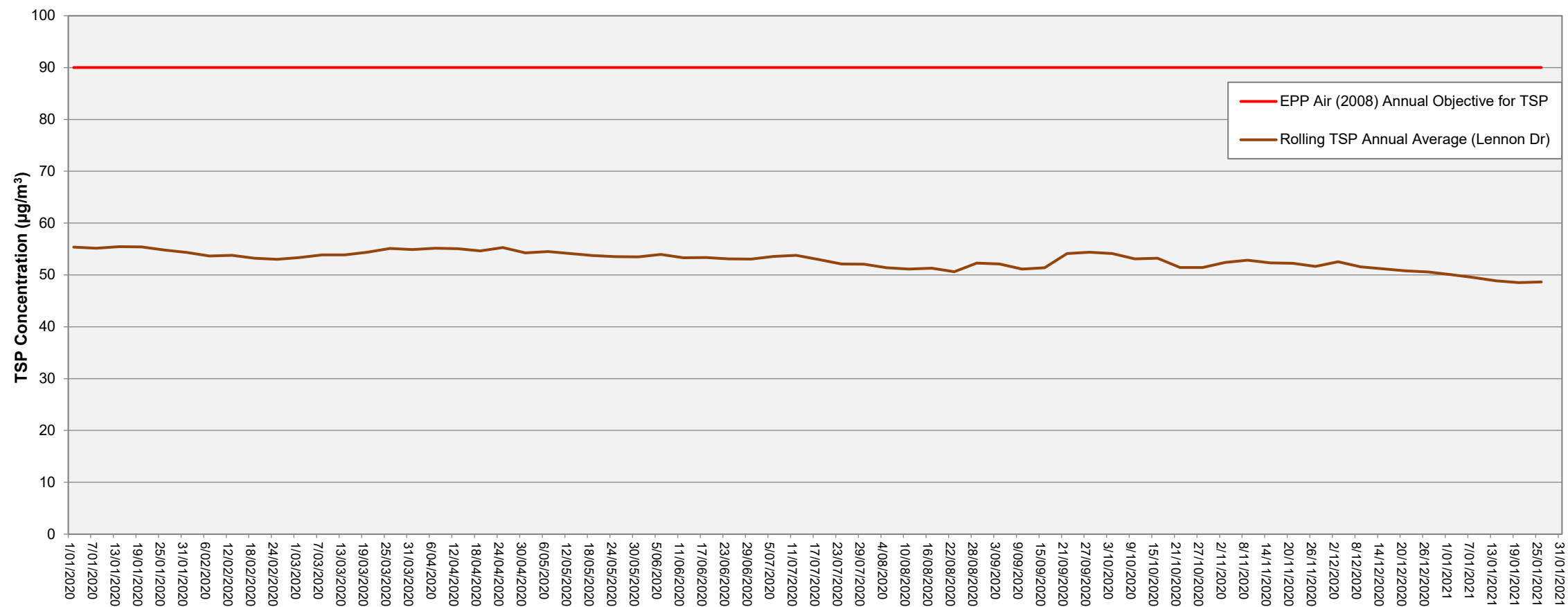
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2021



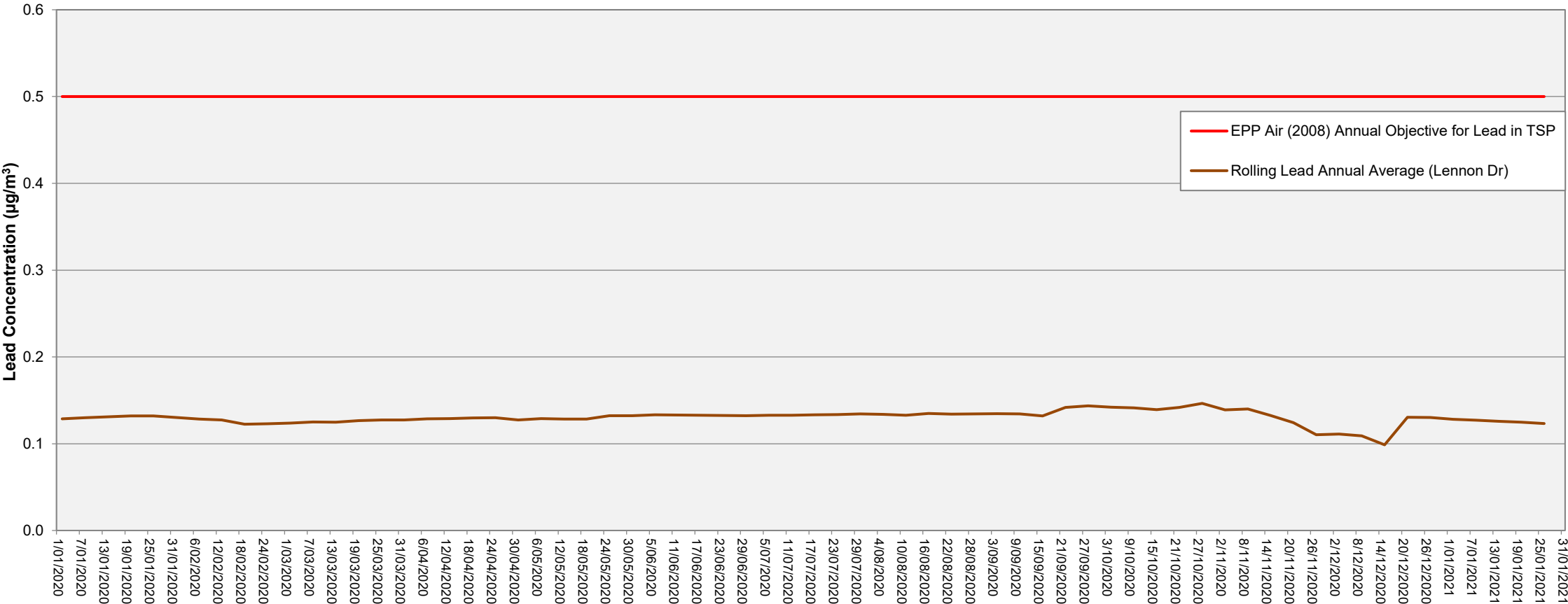
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



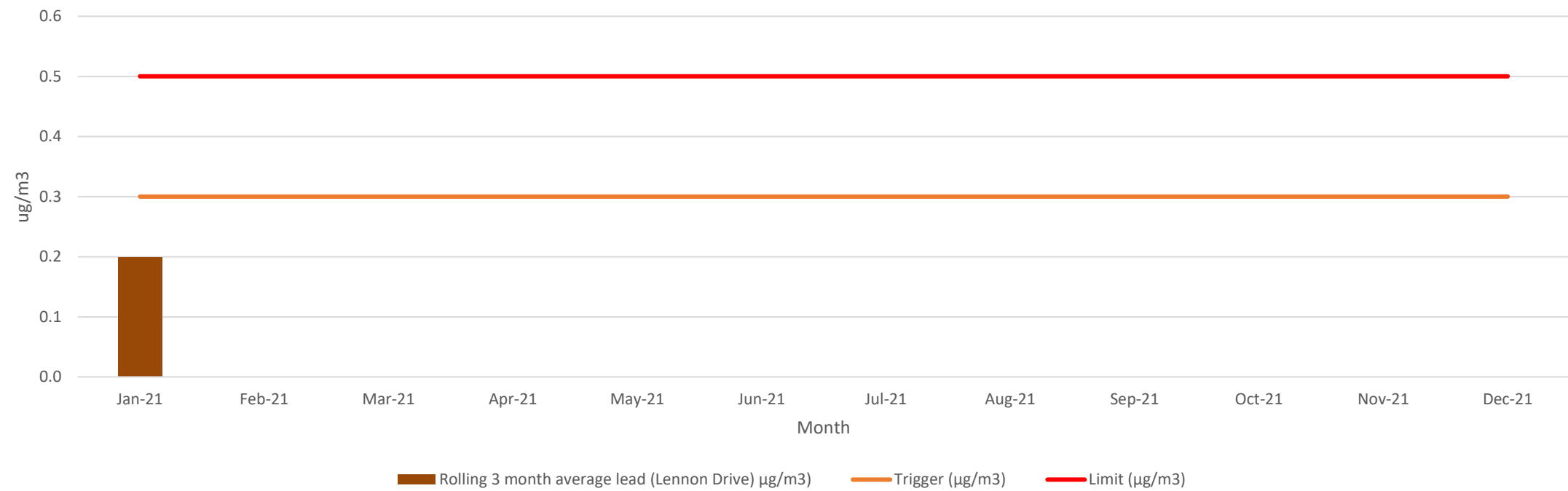
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



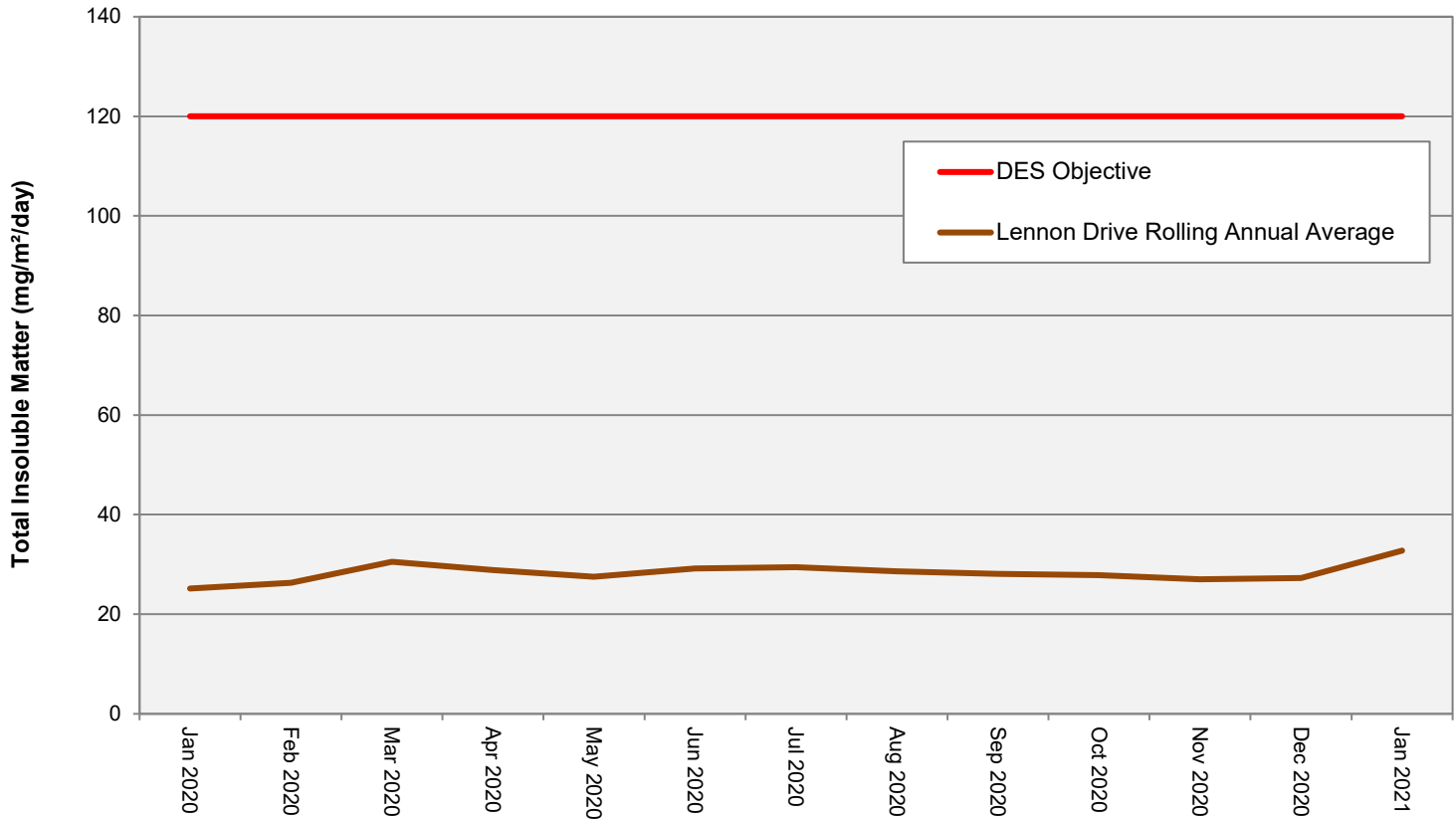
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2021



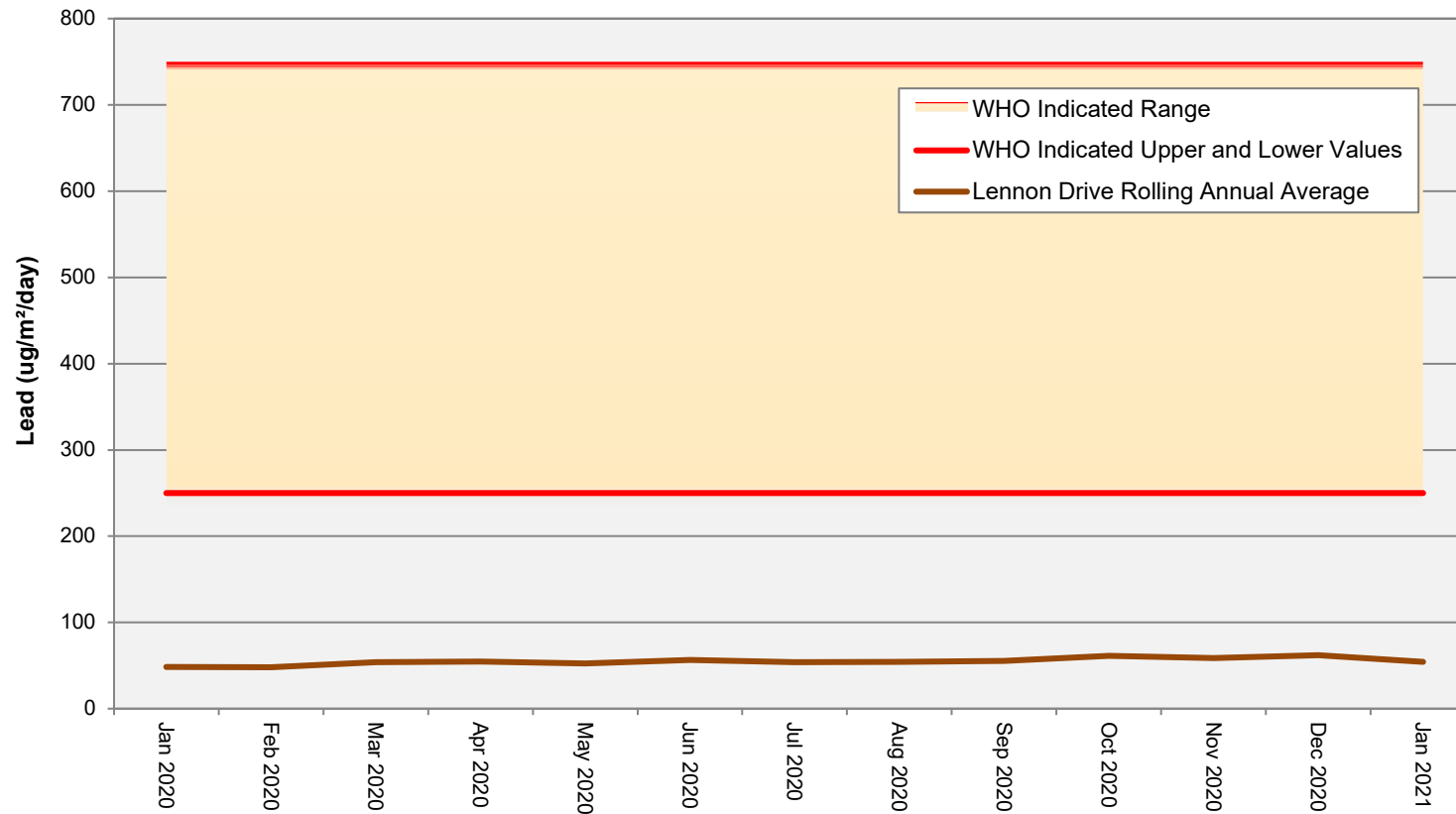
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Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
JANUARY 2020 – JANUARY 2021



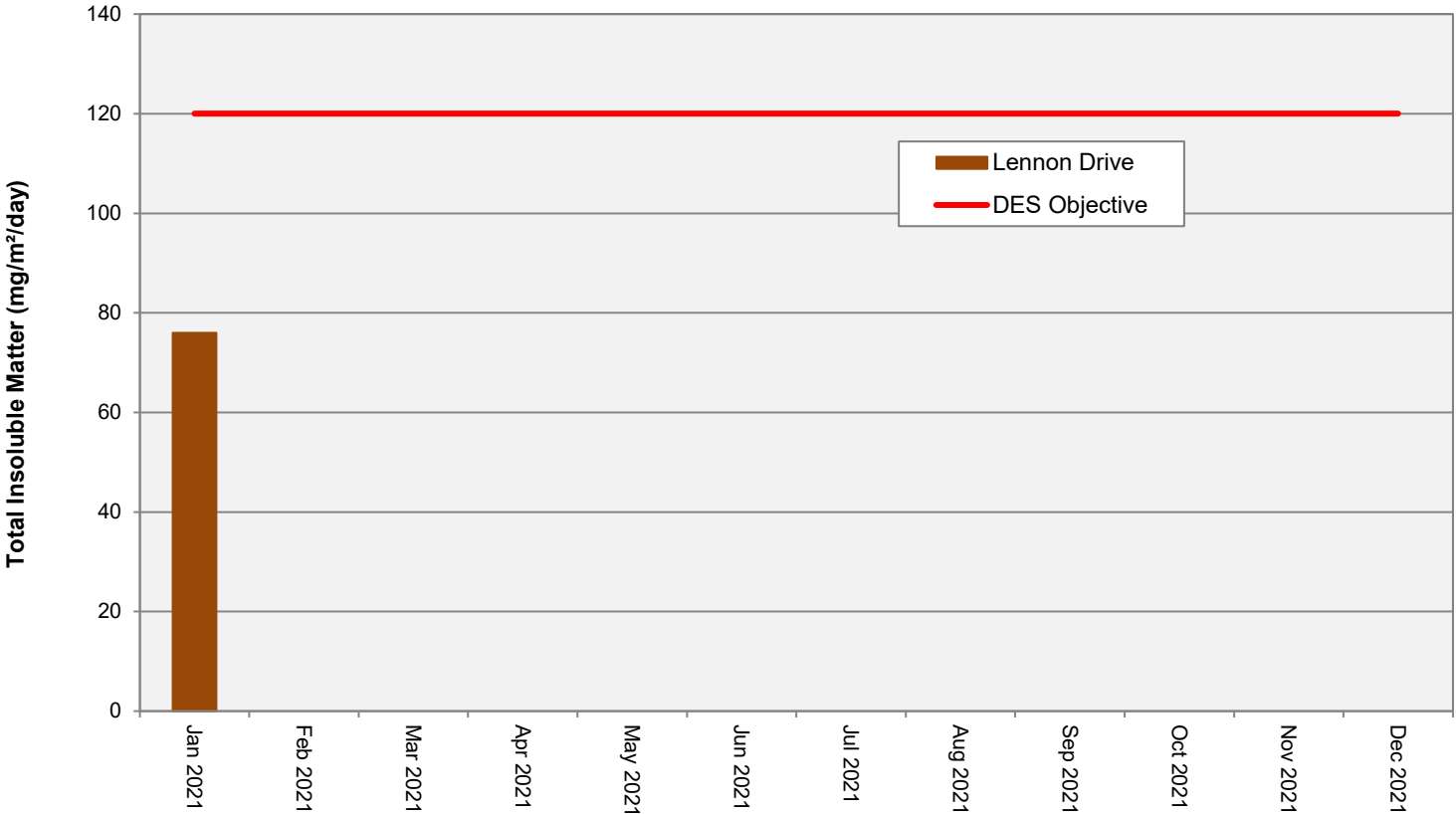
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2021



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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.