

Air Quality Dashboard | March | 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

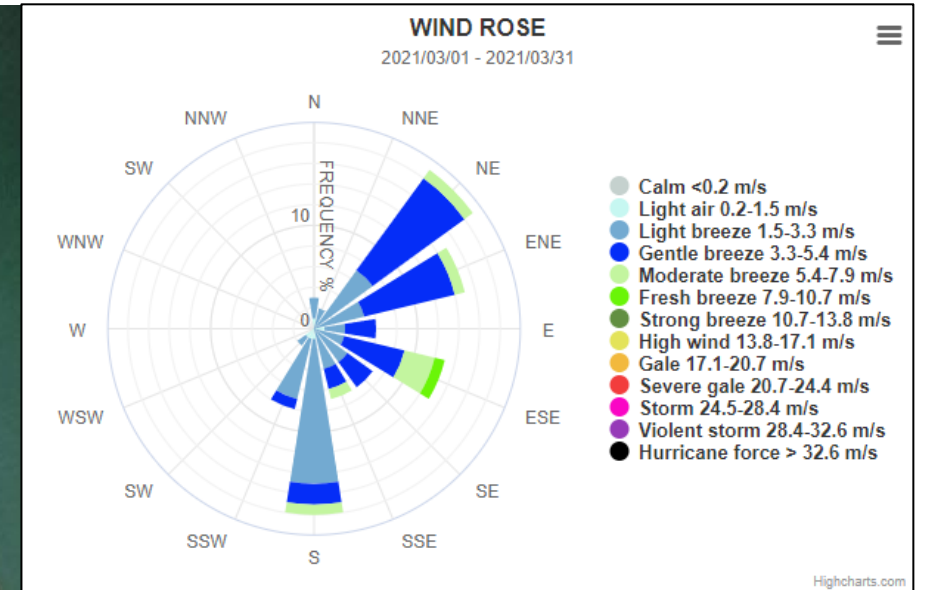
Air Quality
Bulletin

Live Shipping
Schedule

Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Shipping Movements in March 2021

Date In/Out	Vessel Name	Cargo	Berth
25 Feb - 02 Mar	ECO DYNAMIC	Scrap (Export), Nil Cargo (Import)	T10
01 Mar - 02 Mar	WUCHANG	Zinc Concentrates (Export), Nil Cargo (Import)	T03S
02 Mar - 03 Mar	DAREEN	Cattle (Export), Nil Cargo (Import)	T04
02 Mar - 04 Mar	WUCHANG	Lead Ingots (Export), Nil Cargo (Import)	T08
03 Mar - 03 Mar	WALRUS ACE	Nil Cargo (Export), Motor Vehicles (Import)	T03N
03 Mar - 04 Mar	SUVA CHIEF	Containers (Export), Containers (Import)	T10
04 Mar - 04 Mar	GLOUCESTER EXPRESS	Cattle (Export), Nil Cargo (Import)	T03N
05 Mar - 06 Mar	UNI AUC ONE	Zinc Concentrates (Export), Nil Cargo (Import)	T03S
07 Mar - 09 Mar	AFRICAN OSPREY	Fertilizer (Export), Nil Cargo (Import)	T08
07 Mar - 08 Mar	THERESA MICRONESIA	Molasses (Export), Nil Cargo (Import)	T09
07 Mar - 08 Mar	HARRISBURG	Nil Cargo (Export), Fuels (Import)	T01
07 Mar - 10 Mar	PACIFIC CONDOR	Copper Refined (Export), Containers (Import)	T03N
07 Mar - 08 Mar	NAVIG8 STELLAR	Sulphuric Acid (Export), Caustic Soda (Import)	T04
09 Mar - 09 Mar	JUPITER LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T09
09 Mar - 15 Mar	ALSEA BAY	Nil Cargo (Export), Zinc Concentrates (Import)	T10
09 Mar - 11 Mar	ALAM SURIA	Concentrates (Export), Nil Cargo (Import)	T08
10 Mar - 10 Mar	CHEKIANG	Containers (Export), Containers (Import)	T04
10 Mar - 11 Mar	PALANCA MIAMI	Nil Cargo (Export), Bitumen (Import)	T01
11 Mar - 14 Mar	AFRICAN PELICAN	Nil Cargo (Export), Sulphur (Import)	T08
11 Mar - 11 Mar	LILSTELLA	Nil Cargo (Export), Bitumen (Import)	T04
11 Mar - 15 Mar	NAVIG8 STELLAR	Nil Cargo (Export), Nil Cargo (Import)	T01
12 Mar - 12 Mar	JASPER ARROW	Nil Cargo (Export), Motor Vehicles (Import)	T04
12 Mar - 14 Mar	HANSA REGENSBURG	Containers (Export), Containers (Import)	T03S
13 Mar - 16 Mar	WYUNA	Nil Cargo (Export), Cement (Import)	T04
14 Mar - 15 Mar	UNI WEALTH	Zinc Concentrates (Export), Nil Cargo (Import)	T08
14 Mar - 14 Mar	HANSA REGENSBURG	Nil Cargo (Export), Nil Cargo (Import)	T03S
14 Mar - 15 Mar	AMERICAN HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03N

Date In/Out	Vessel Name	Cargo	Berth
15 Mar - 16 Mar	UNI WEALTH	Zinc Concentrates (Export), Nil Cargo (Import)	T03S
15 Mar - 16 Mar	STI BATTERY	Nil Cargo (Export), Fuels (Import)	T01
15 Mar - 16 Mar	GOLDEN AUSTRALIS	Molasses (Export), Nil Cargo (Import)	T09
16 Mar - 18 Mar	ATLANTIC LILY	Nil Cargo (Export), Fuels (Import)	T01
17 Mar - 17 Mar	SOFRANA TOURVILLE	Containers (Export), Containers (Import)	T03N
17 Mar - 17 Mar	GANADO EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
18 Mar - 19 Mar	AUROCHS	Cattle (Export), Nil Cargo (Import)	T04
19 Mar - 20 Mar	GIROLANDO EXPRESS	Cattle (Export), Nil Cargo (Import)	T10
20 Mar - 21 Mar	MIDNIGHT GLORY	Nil Cargo (Export), Fuels (Import)	T01
21 Mar - 23 Mar	ALAM SERI	Fertilizer (Export), Nil Cargo (Import)	T08
21 Mar - 22 Mar	GLOUCESTER EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
21 Mar - 23 Mar	KYOWA ROSE	Copper Refined (Export), Containers (Import)	T03N
21 Mar - 24 Mar	ORIENTAL SPIRIT	Lead Concentrates (Export), Nil Cargo (Import)	T11
23 Mar - 27 Mar	PROMISE 3	Nil Cargo (Export), Urea (Import)	T10
23 Mar - 24 Mar	NINE EAGLE	Cattle (Export), Nil Cargo (Import)	T04
24 Mar - 25 Mar	CONCEPTION LIGHT	Concentrates (Export), Nil Cargo (Import)	T03S
24 Mar - 26 Mar	CD MANZANILLO	Sugar (Export), Nil Cargo (Import)	T09
24 Mar - 25 Mar	OCEANUS LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T04
25 Mar - 28 Mar	STI SAN ANTONIO	Nil Cargo (Export), Fuels (Import)	T01
25 Mar - 26 Mar	STOLT RINDO	Tallow (Export), Nil Cargo (Import)	T04
25 Mar - 26 Mar	PHOEBE STAR	Concentrates (Export), Nil Cargo (Import)	T08
26 Mar - 27 Mar	HANSA CLOPPENBURG	Containers (Export), Containers (Import)	T03S
27 Mar - 29 Mar	ORIENT MATE	Fertilizer (Export), Nil Cargo (Import)	T08
27 Mar - 28 Mar	DIAMANTINA	Cattle (Export), Nil Cargo (Import)	T04
28 Mar - 31 Mar	PHOEBE STAR	Nil Cargo (Export), Nil Cargo (Import)	T11
28 Mar - 31 Mar	AKUNA	Nil Cargo (Export), Cement (Import)	T04
29 Mar - 30 Mar	V TRE	Lead Ingots (Export), Nil Cargo (Import)	T03S
29 Mar - 30 Mar	GOLDEN UNITY	Nil Cargo (Export), Fuels (Import)	T01



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.

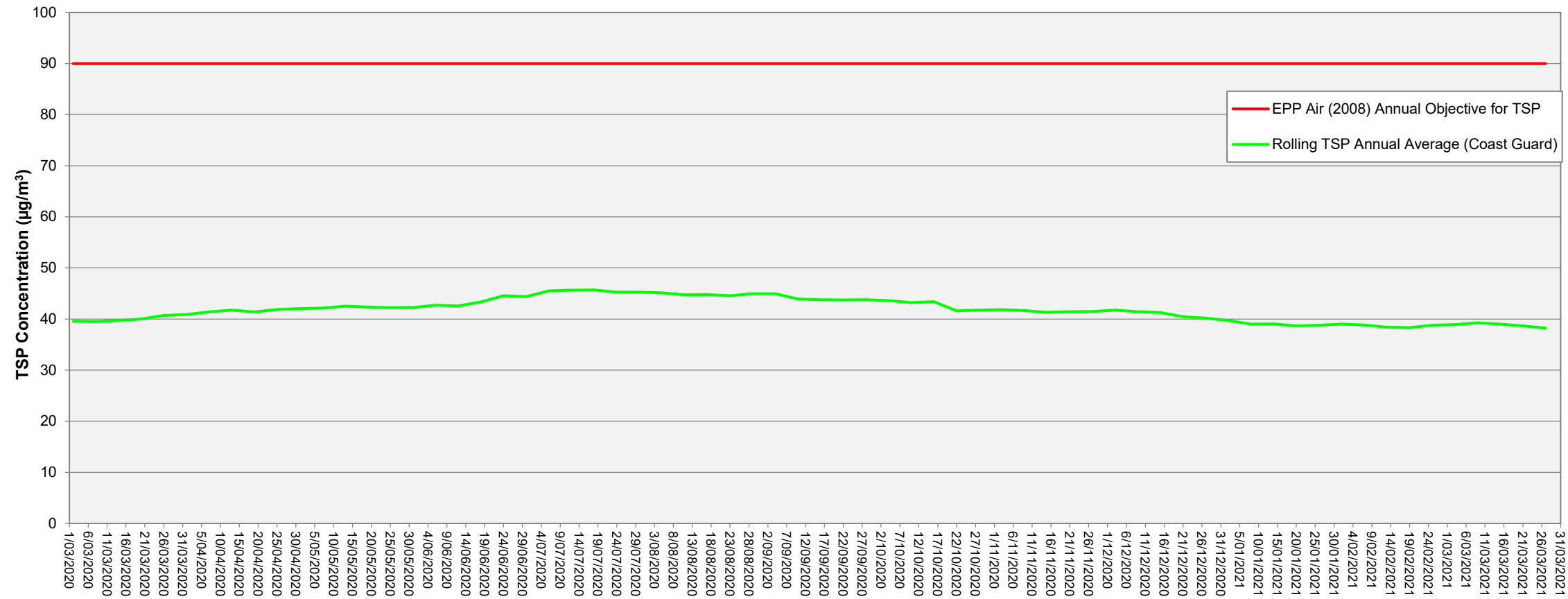
OR

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

Ask a Question / Provide Feedback

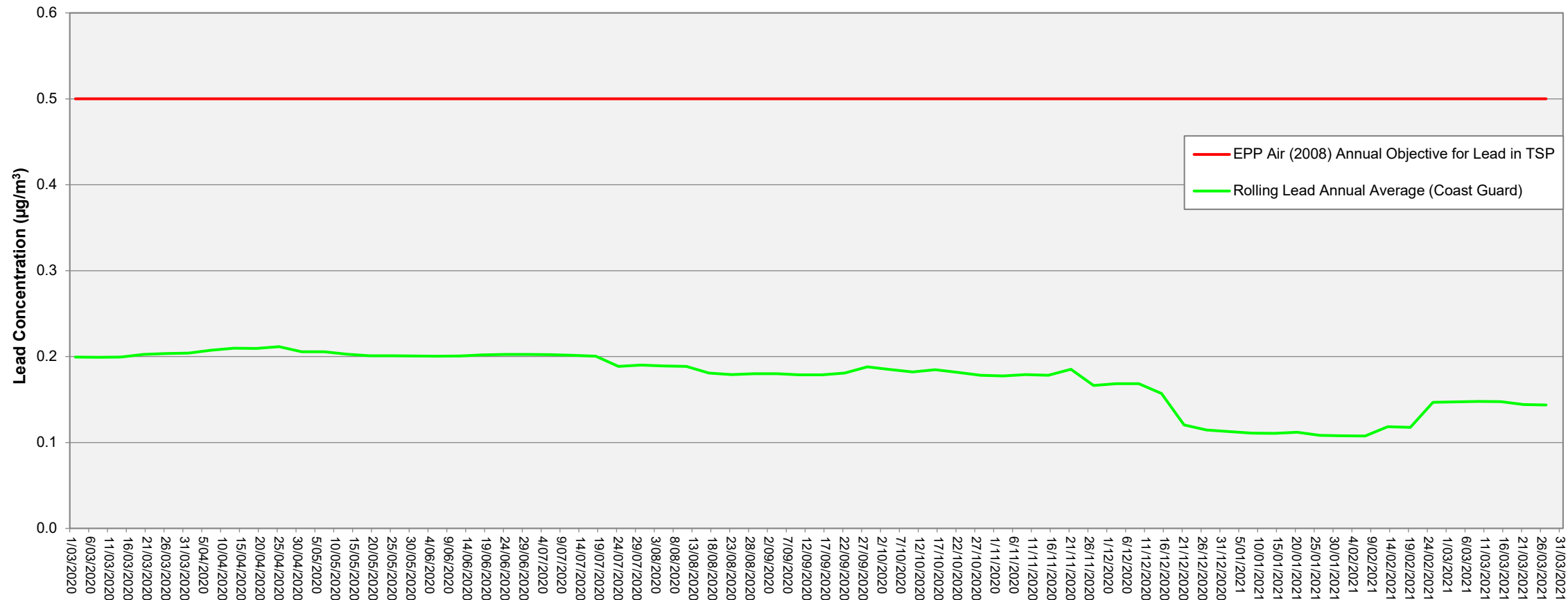
Send your enquiry or feedback to community@townsvilleport.com.au

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



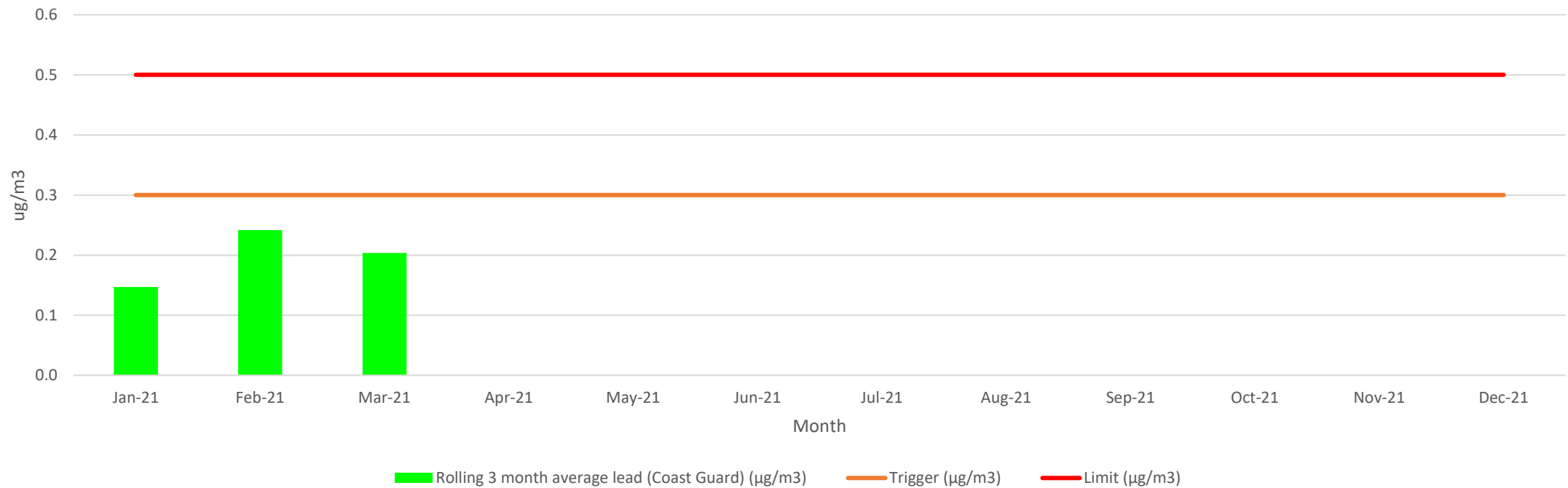
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



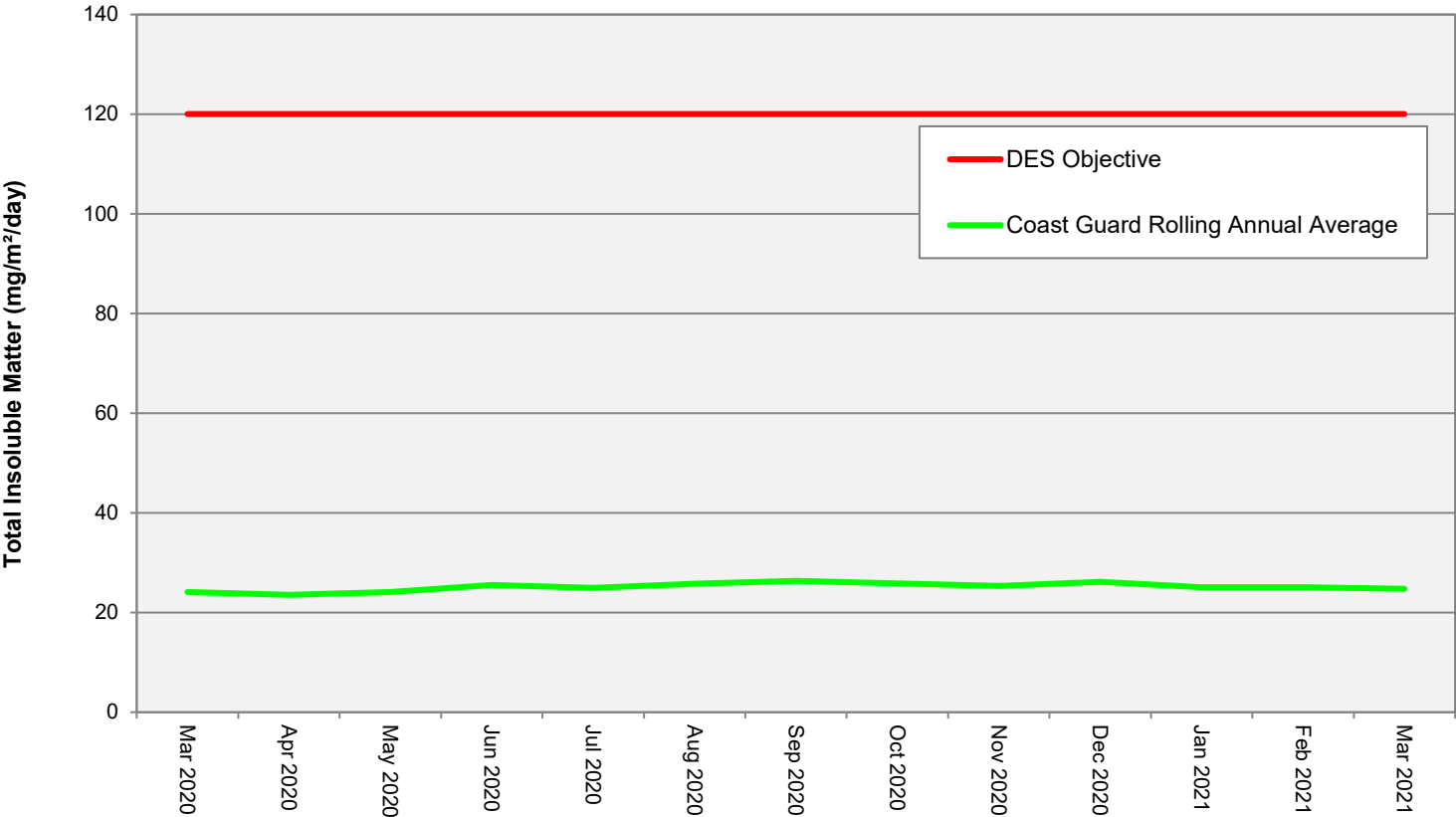
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



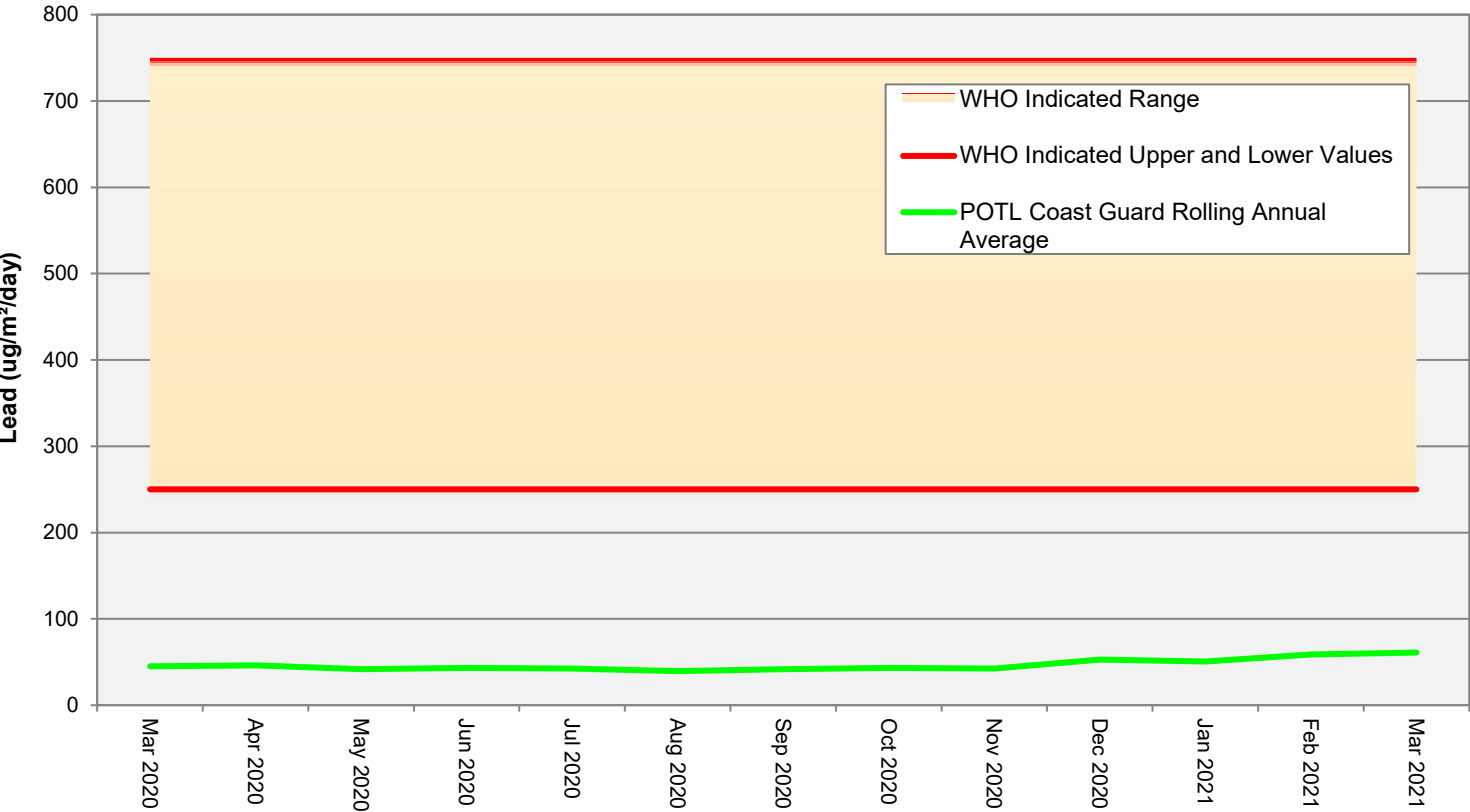
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



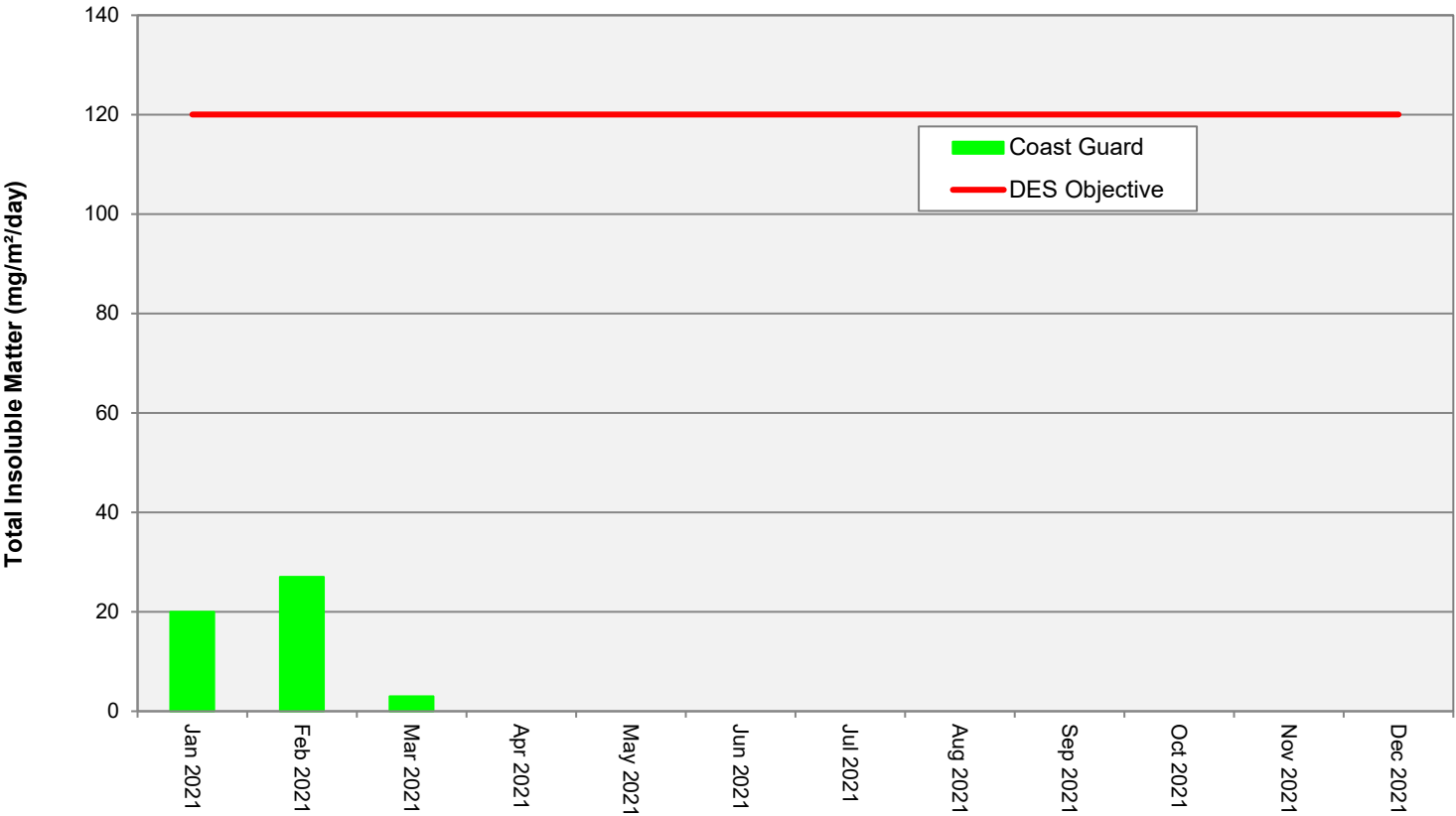
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



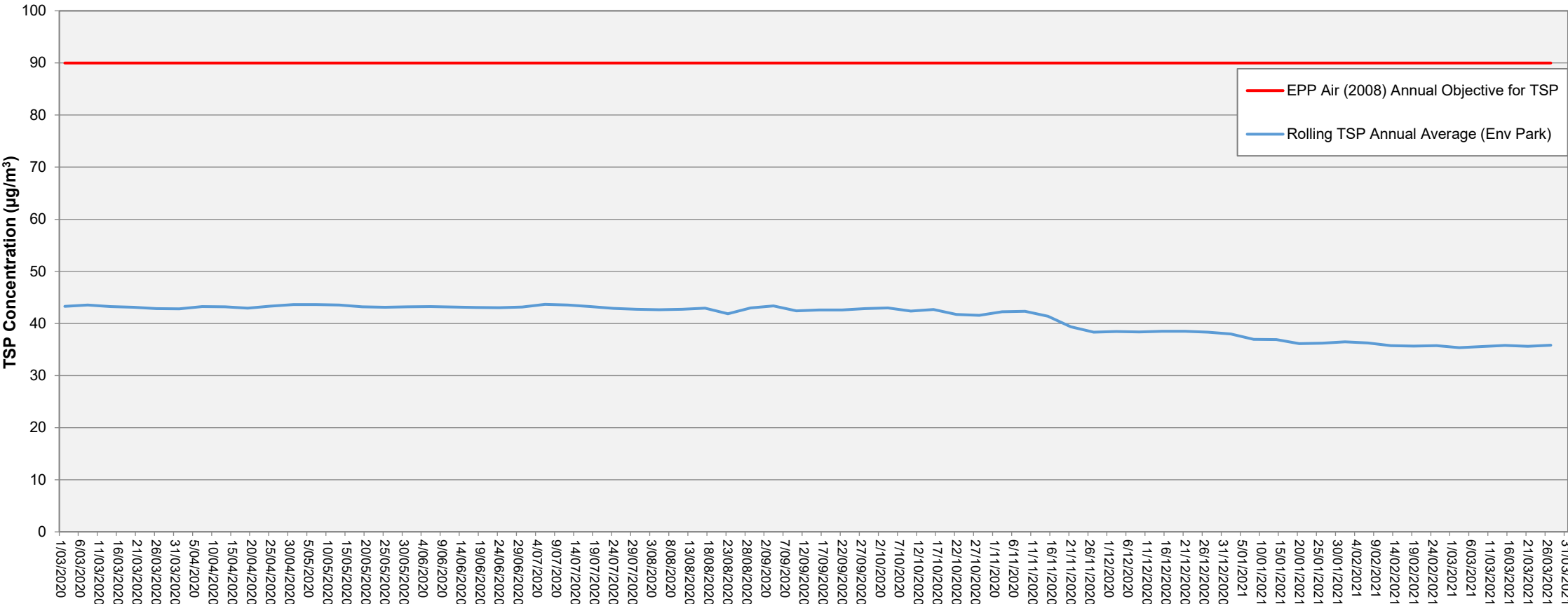
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

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



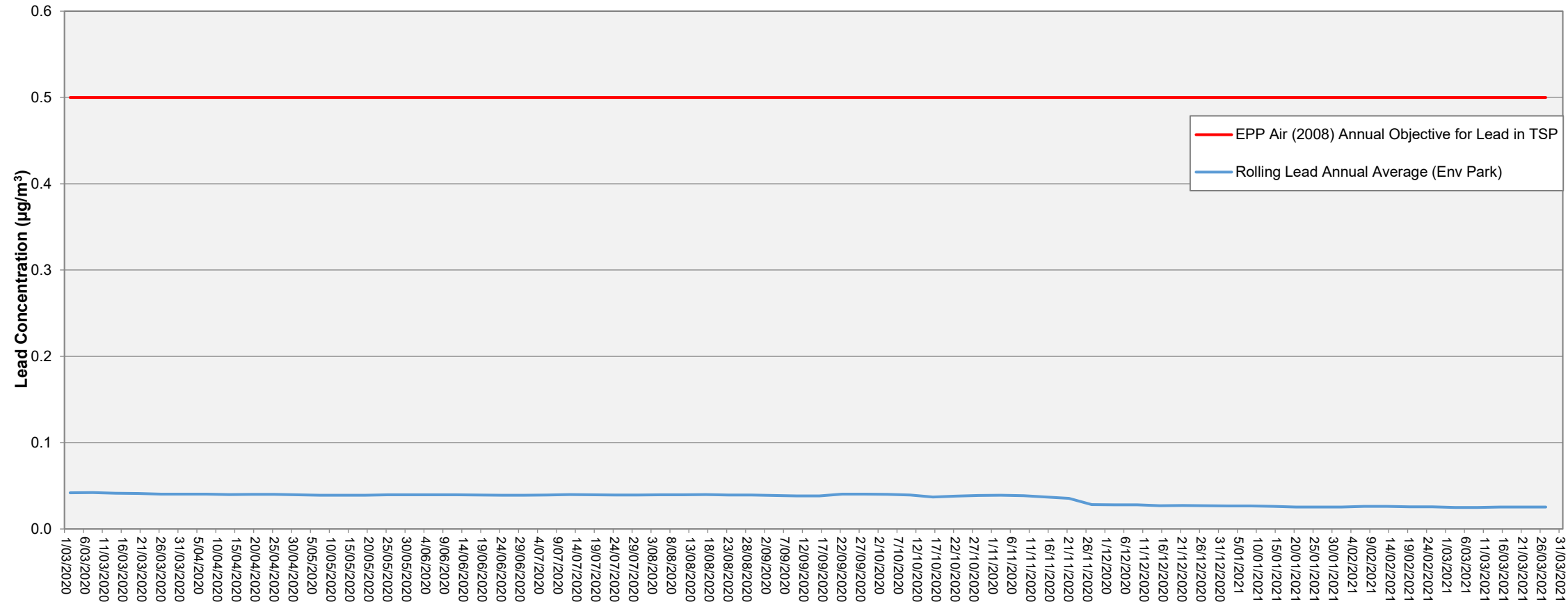
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



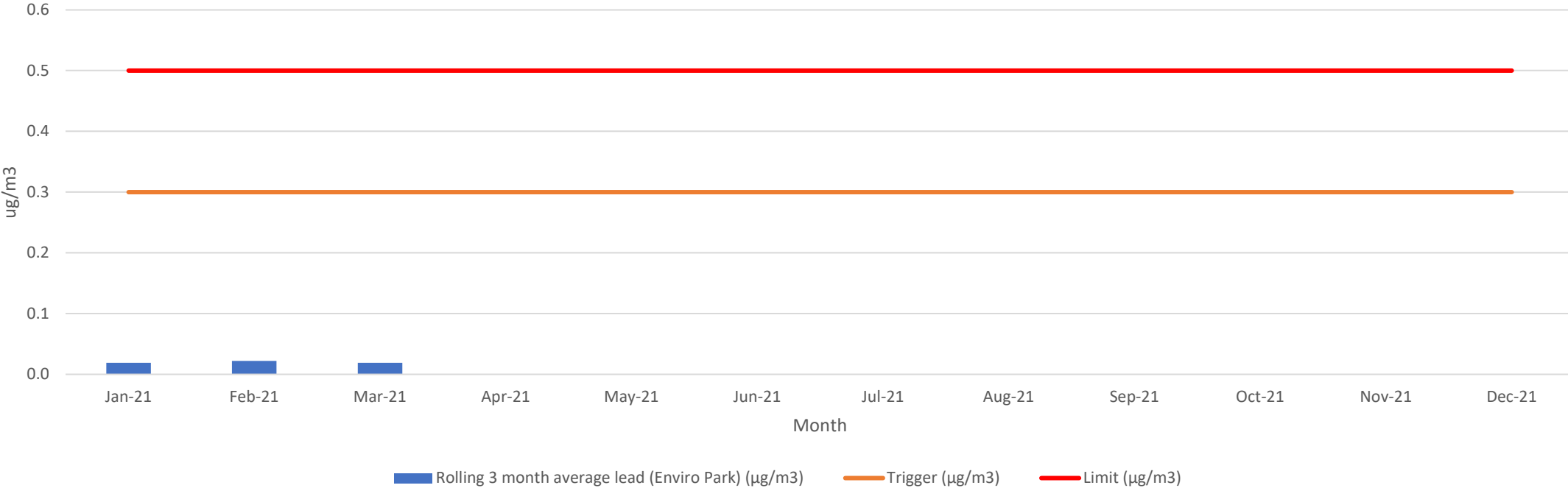
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



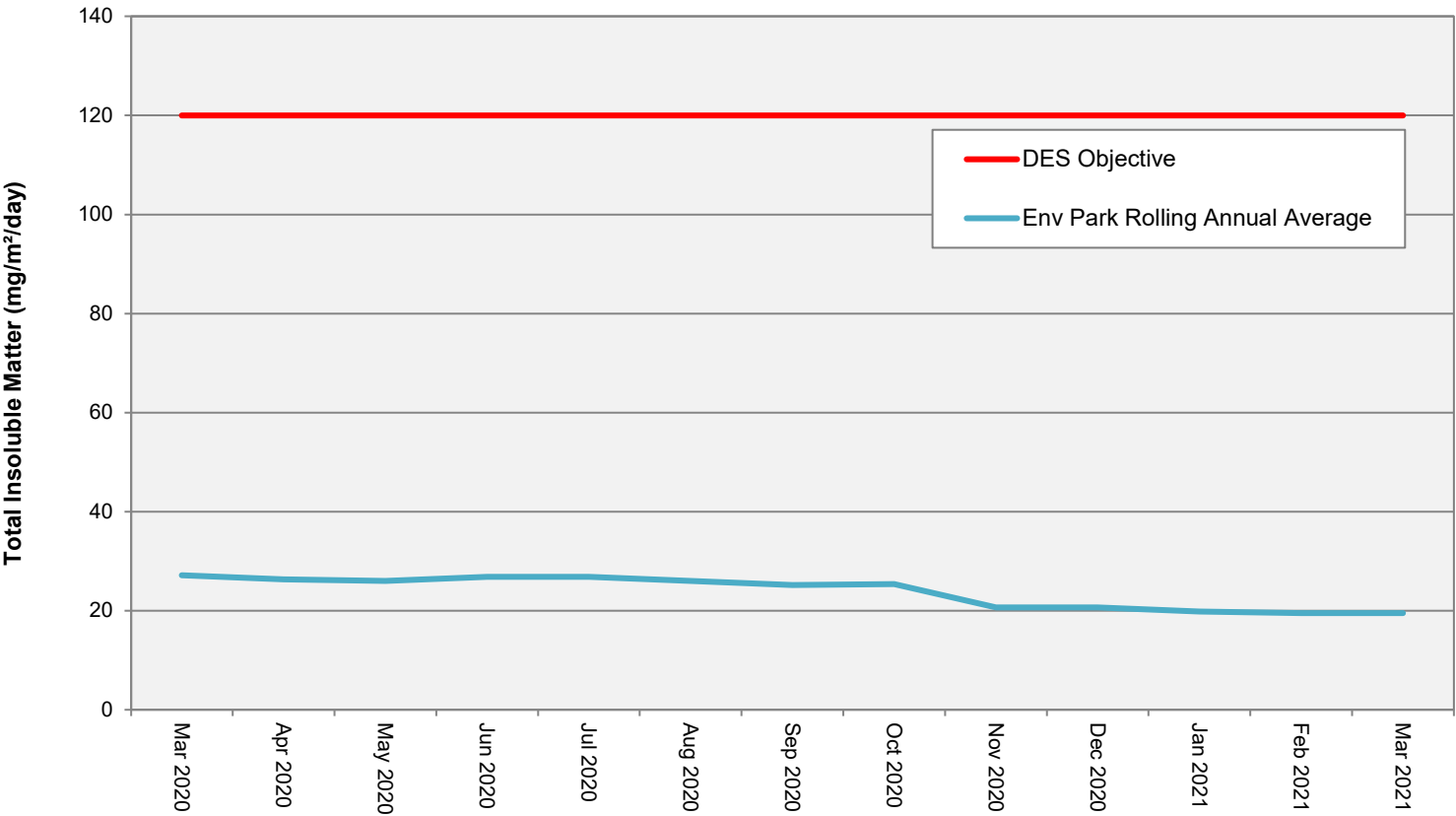
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



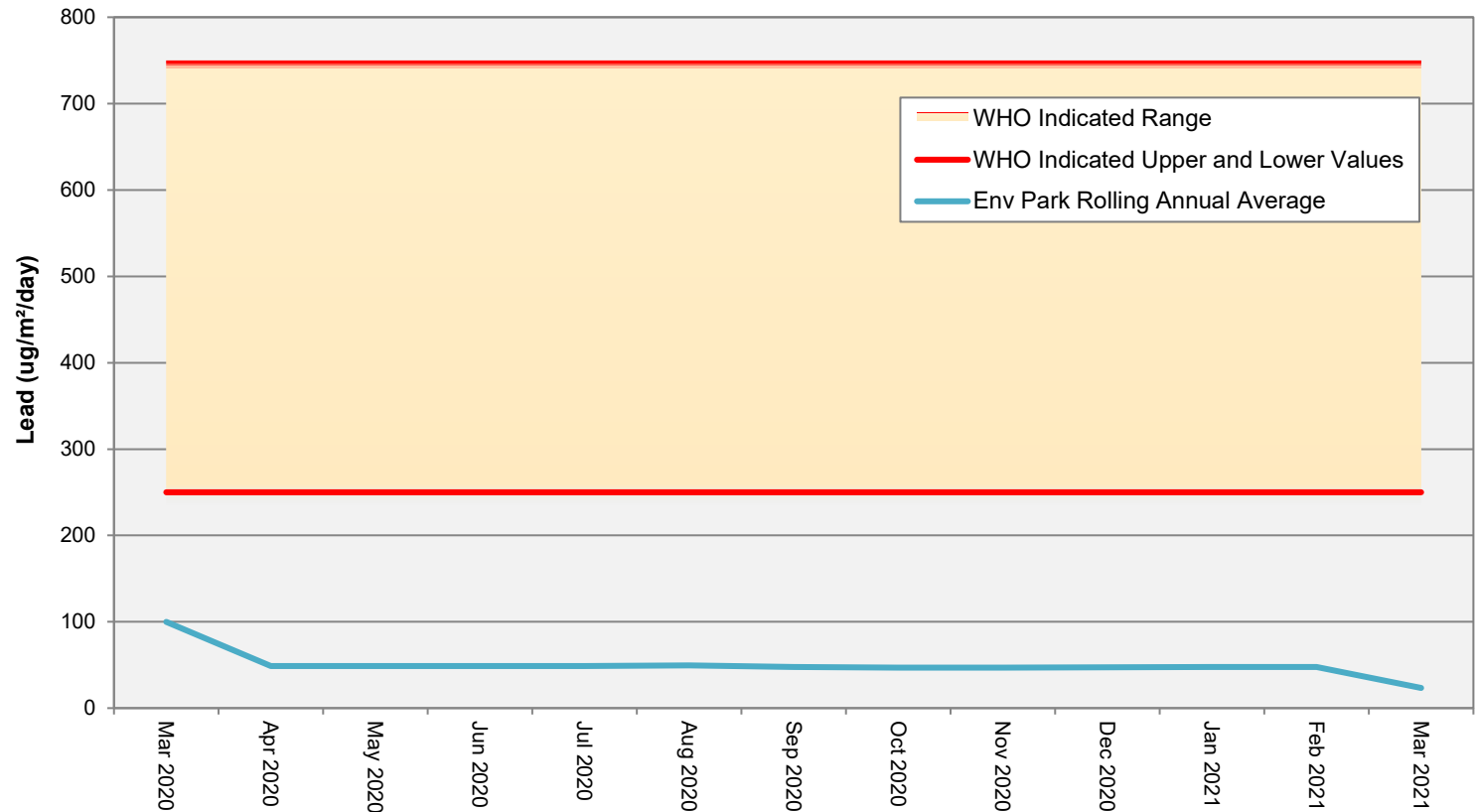
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



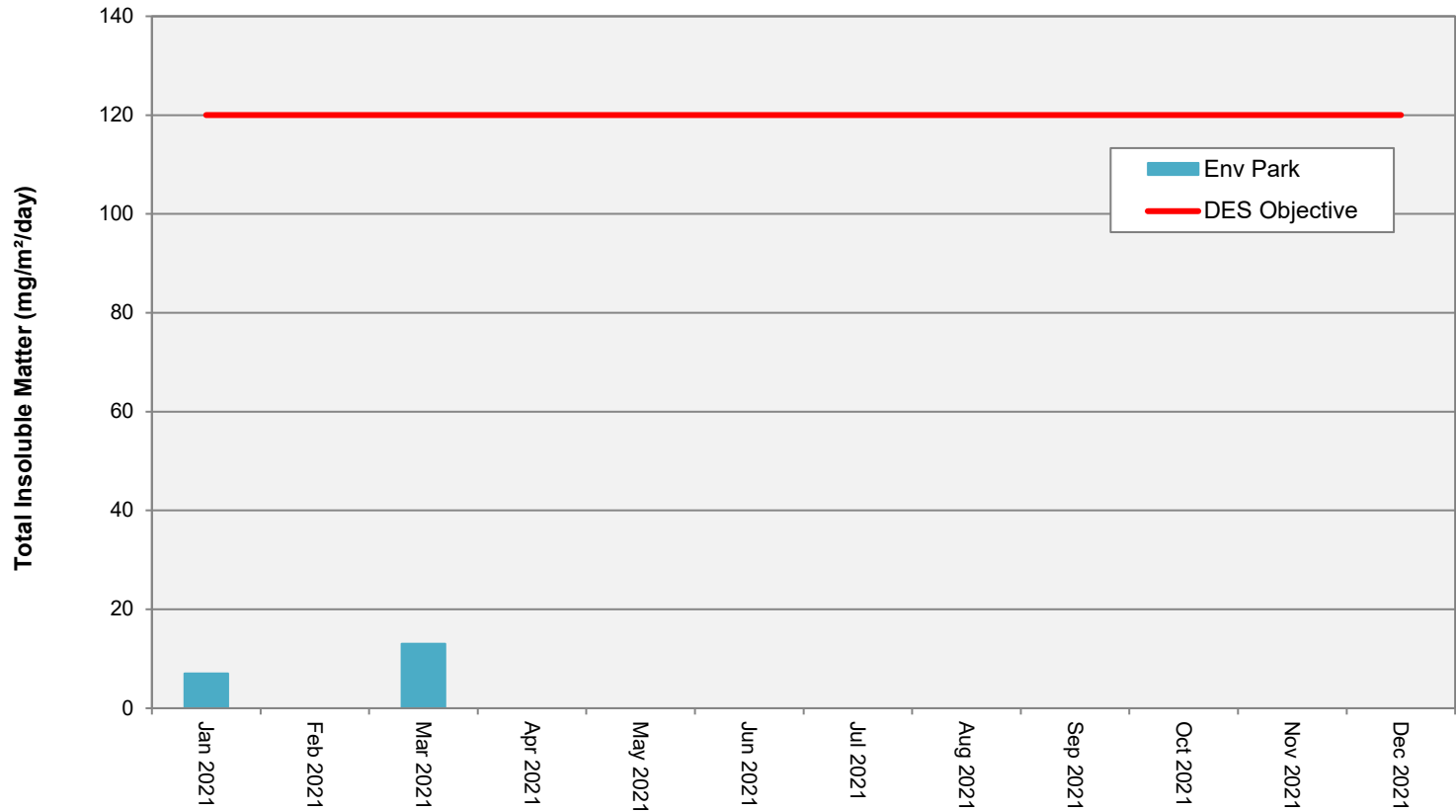
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site
MARCH 2020 – MARCH 2021



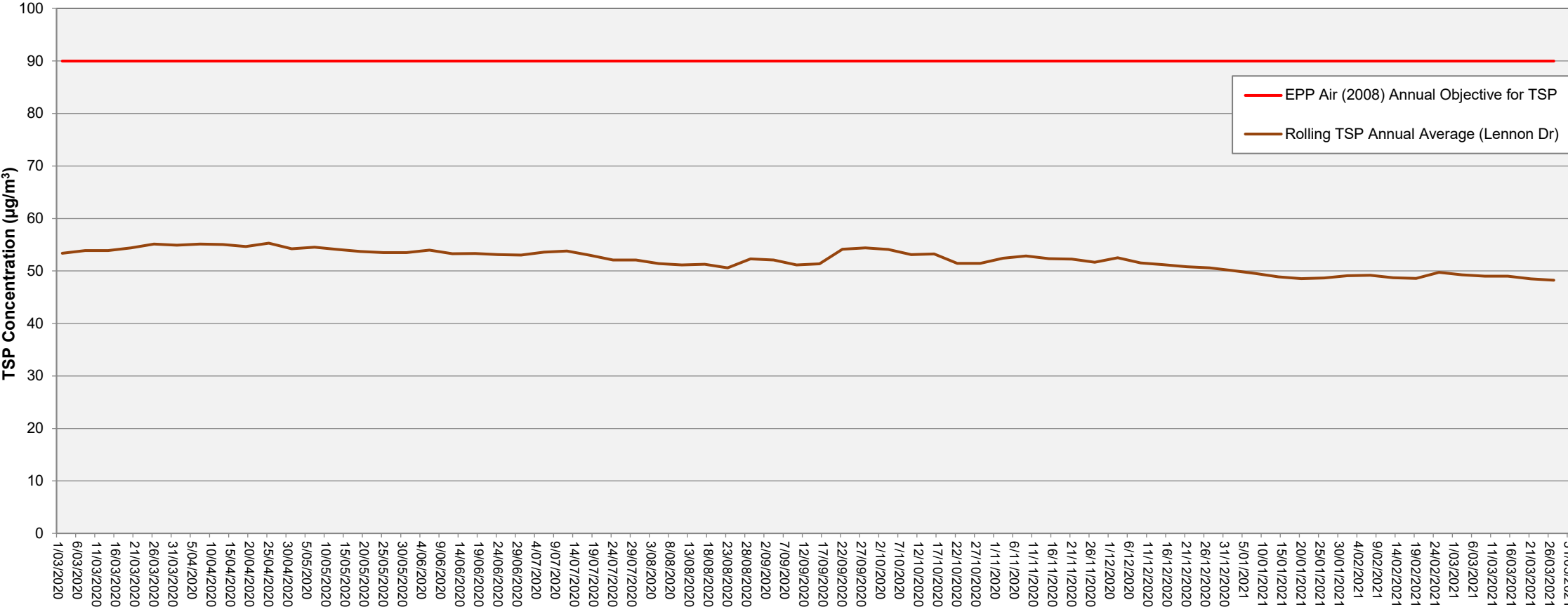
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



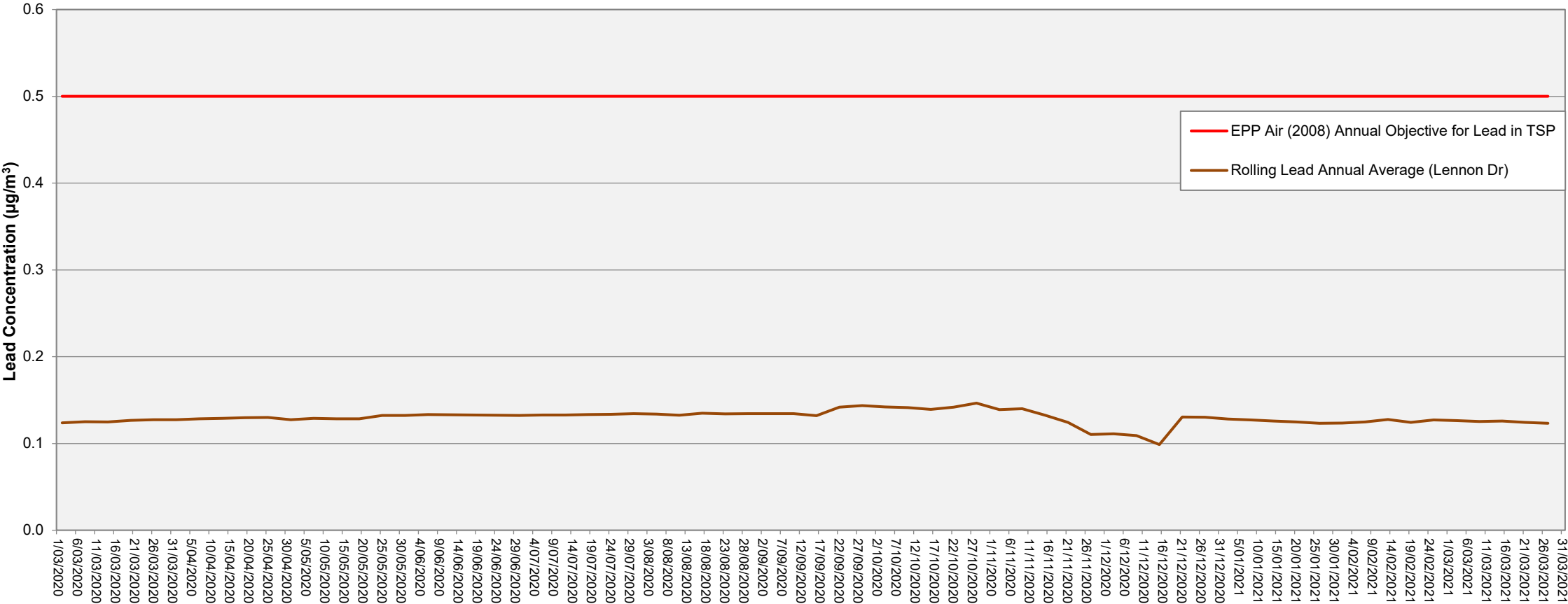
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

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



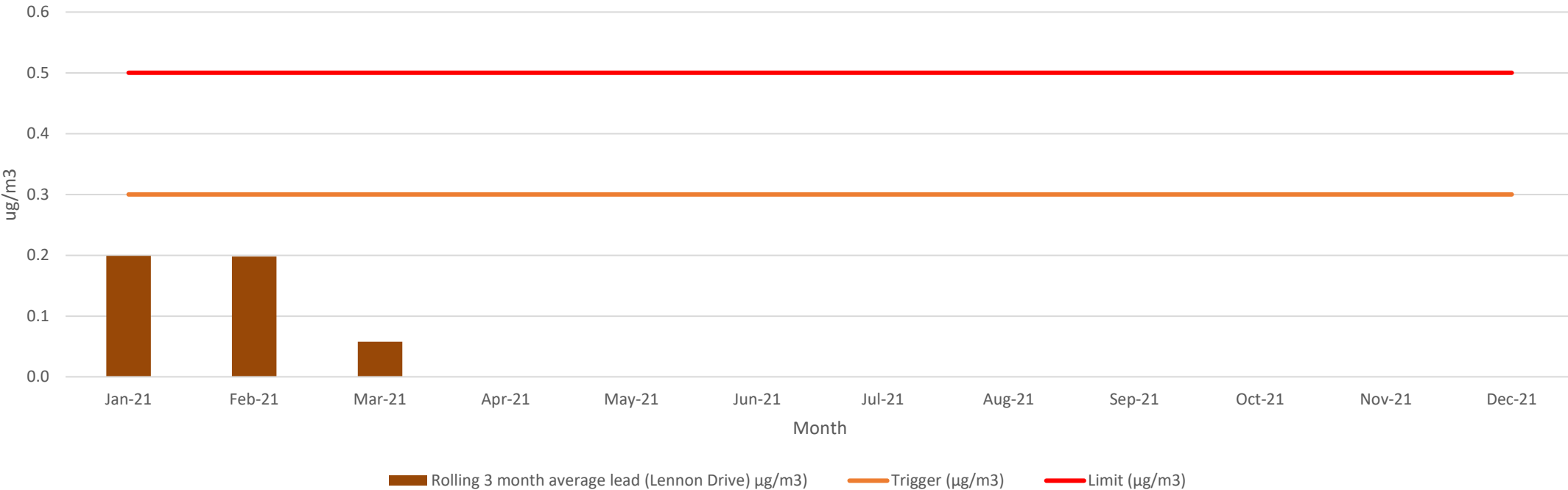
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



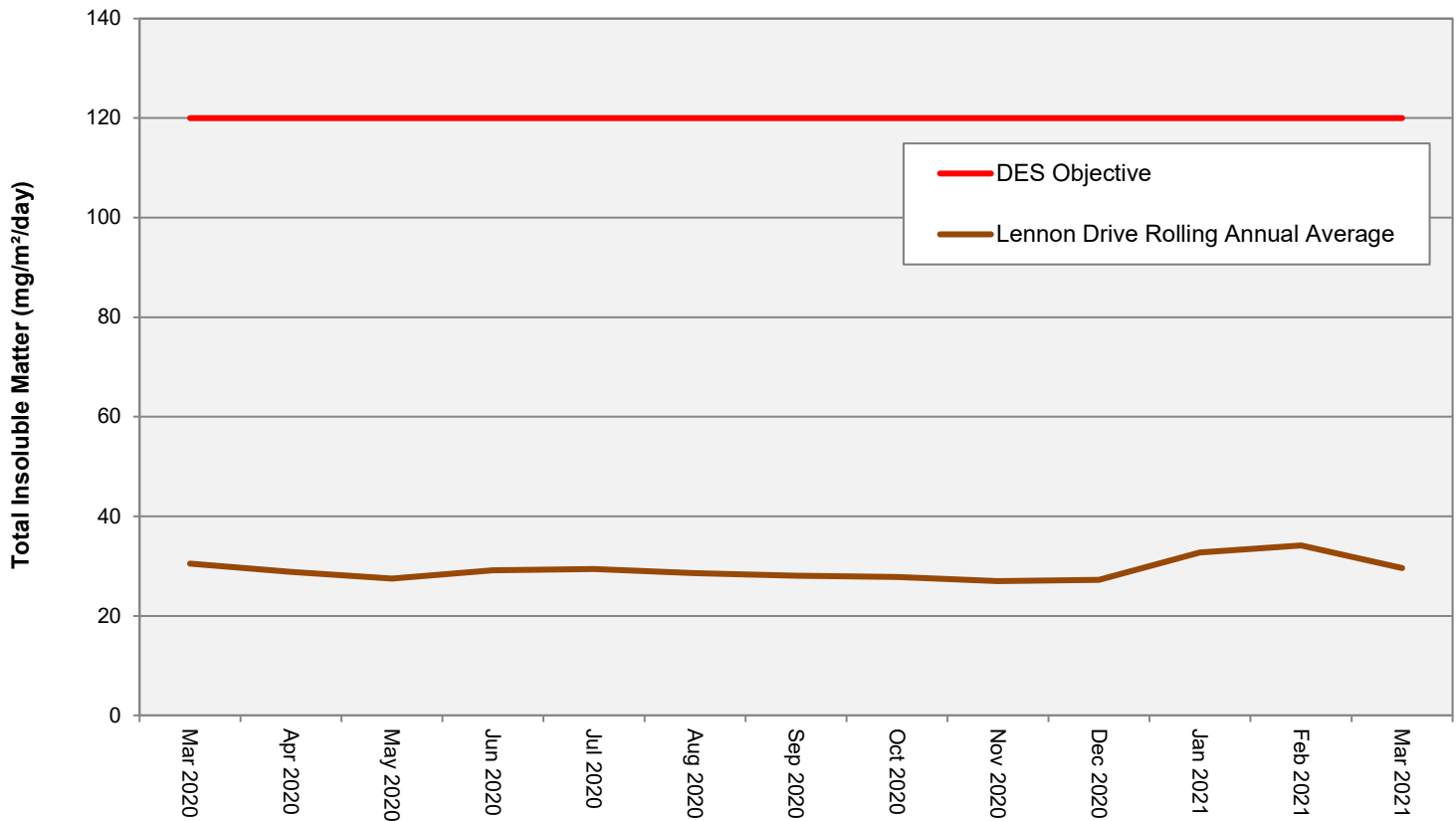
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



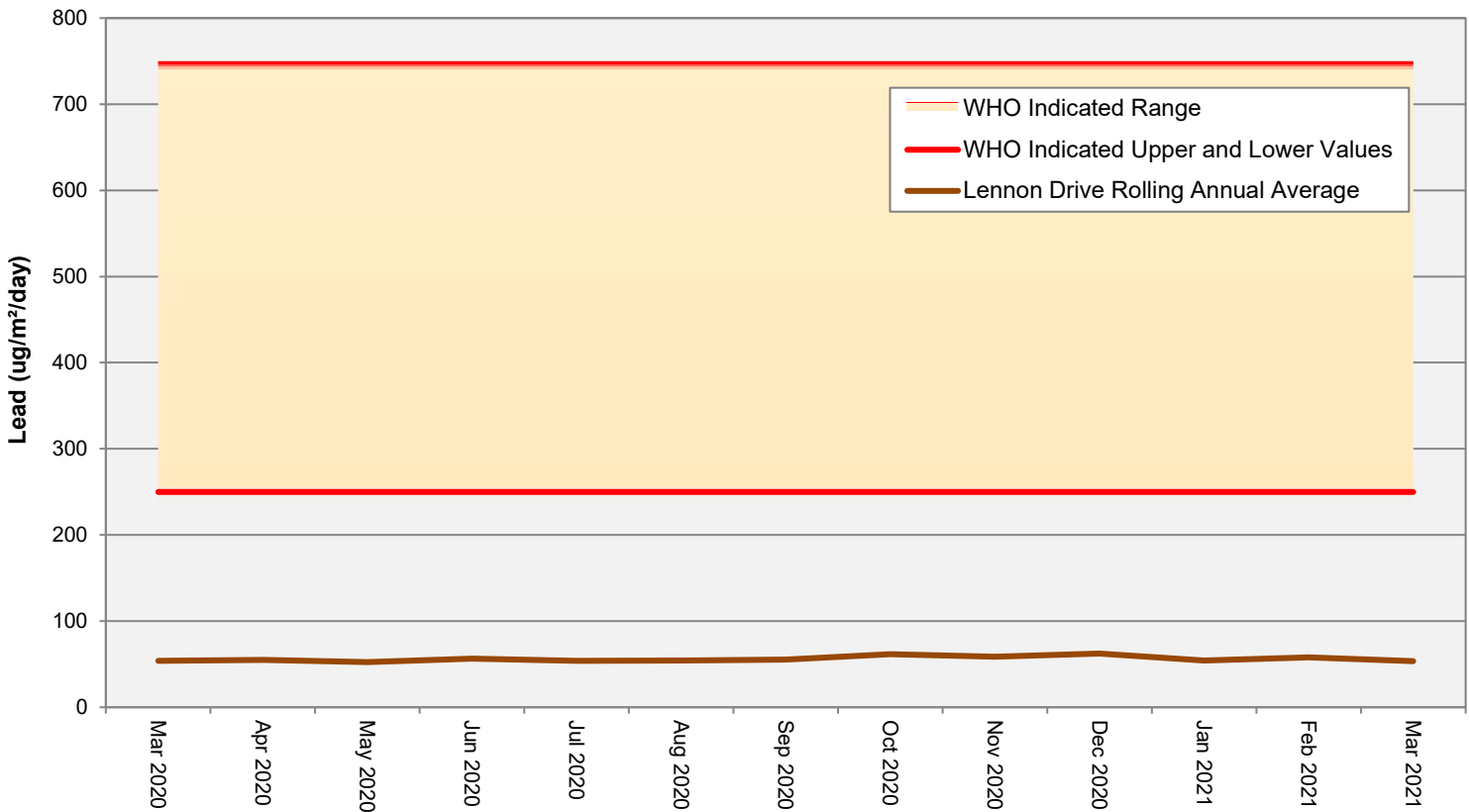
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



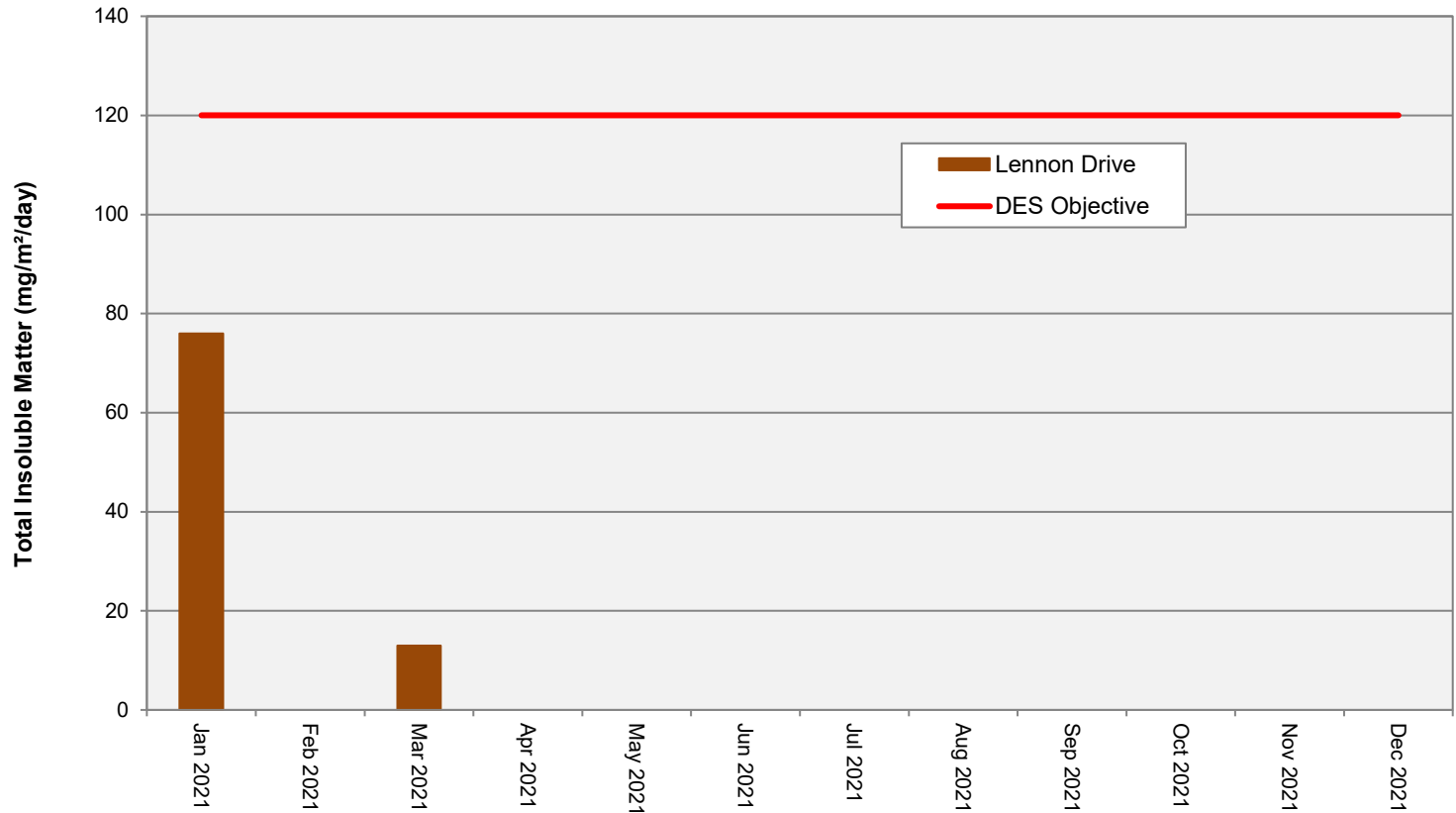
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site
MARCH 2020 – MARCH 2021



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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.