

Air Quality Dashboard | October | 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

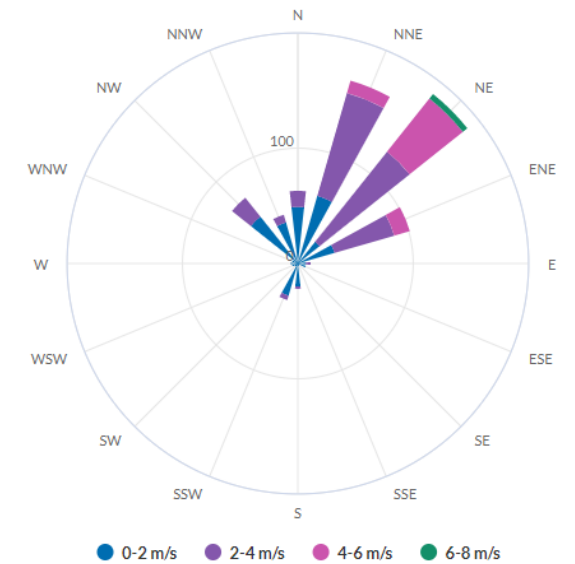
Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Wind speed ranges correlating to wind direction



Shipping Movements in October 2021

[Click here](#) to return to Main Page

Date In/Out	Vessel Name	Cargo	Berth
25 Sep 2021 - 01 Oct 2021	MOONBRIGHT SW	Zinc Concentrates,Lead Concentrates (EXPORT)	11
28 Sep 2021 - 03 Oct 2021	LABRADOR	Coke (IMPORT)	10
29 Sep 2021 - 01 Oct 2021	BASIC RAINBOW	Zinc Concentrates (EXPORT)	3 NTH
29 Sep 2021 - 01 Oct 2021	KONDILI	Cement (IMPORT)	4
01 Oct 2021 - 02 Oct 2021	FLORA DELMAS	Containers,Containers (IMPORT)	3 STH
01 Oct 2021 - 03 Oct 2021	THERESA ORION	Molasses (EXPORT)	9
02 Oct 2021 - 05 Oct 2021	AMIS JUSTICE	Fertilizer (EXPORT)	8
02 Oct 2021 - 03 Oct 2021	TOLL ASTROLABE	NIL	4
03 Oct 2021 - 04 Oct 2021	LABRADOR	TBA	3 NTH
04 Oct 2021 - 05 Oct 2021	TOKYO TRADER	NIL	4
05 Oct 2021 - 06 Oct 2021	CL DIYIN HE	Fertilizer,Sulphur,Fertilizer (IMPORT)	8
05 Oct 2021 - 09 Oct 2021	HILMA BULKER	General Cargo,General Cargo,Containers (IMPORT)	3 NTH
06 Oct 2021 - 07 Oct 2021	SUVA CHIEF	NIL	4
07 Oct 2021 - 07 Oct 2021	AMIS JUSTICE	TBA	8
07 Oct 2021 - 07 Oct 2021	DORADO LEADER	Motor Vehicles (IMPORT)	10
07 Oct 2021 - 13 Oct 2021	CL DIYIN HE	TBA	8
07 Oct 2021 - 08 Oct 2021	DORADO LEADER	TBA	4
07 Oct 2021 - 10 Oct 2021	HUDSONGRACHT	Copper Concentrates (EXPORT)	10
08 Oct 2021 - 09 Oct 2021	CSC RISINGSUN	Fuels (IMPORT)	1
08 Oct 2021 - 10 Oct 2021	PACIFIC DREAM	Sugar (EXPORT)	9
10 Oct 2021 - 11 Oct 2021	HANSA FREYBURG	NIL	3 STH
10 Oct 2021 - 11 Oct 2021	THERESA MICRONESIA	Molasses (EXPORT)	4
12 Oct 2021 - 13 Oct 2021	PALANCA MIAMI	Bitumen (IMPORT)	1
13 Oct 2021 - 14 Oct 2021	MTM DUBLIN	Sulphuric Acid (EXPORT)	1
13 Oct 2021 - 14 Oct 2021	MARGARET SW	Zinc Concentrates (EXPORT)	3 NTH
14 Oct 2021 - 15 Oct 2021	SEA WOLF	Fuels (IMPORT)	1
15 Oct 2021 - 17 Oct 2021	ENTERPRISE	Fertilizer (EXPORT)	8
15 Oct 2021 - 17 Oct 2021	REMY ENTERPRISE	Scrap (EXPORT)	9

Date In/Out	Vessel Name	Cargo	Berth
15 Oct 2021 - 18 Oct 2021	MTM DUBLIN	TBA	1
15 Oct 2021 - 18 Oct 2021	LUGA	Cement (IMPORT)	4
16 Oct 2021 - 16 Oct 2021	ONYX ACE	Motor Vehicles (IMPORT)	3 NTH
17 Oct 2021 - 17 Oct 2021	ZENITH LEADER	Motor Vehicles (IMPORT)	10
17 Oct 2021 - 22 Oct 2021	MARGARET SW	TBA	11
18 Oct 2021 - 18 Oct 2021	FAIRCHEM SWORD	Caustic Soda (IMPORT)	4
18 Oct 2021 - 19 Oct 2021	STI QUEENS	Fuels (IMPORT)	1
18 Oct 2021 - 19 Oct 2021	INCE POINT	Sugar (EXPORT)	9
18 Oct 2021 - 19 Oct 2021	DAREEN	Fodder (EXPORT)	10
18 Oct 2021 - 19 Oct 2021	UNI BLOSSOM	Concentrates,Concentrates (EXPORT)	8
19 Oct 2021 - 20 Oct 2021	BAUSTELLA	Bitumen (IMPORT)	4
20 Oct 2021 - 22 Oct 2021	KYOWA ROSE	NIL	3 NTH
21 Oct 2021 - 22 Oct 2021	ANIKITOS	Sugar (EXPORT)	9
21 Oct 2021 - 22 Oct 2021	VUKOVAR	Fuels (IMPORT)	1
21 Oct 2021 - 25 Oct 2021	OCEAN GALAXY	Urea,Fertilizer (IMPORT)	4
22 Oct 2021 - 26 Oct 2021	DANCEFLORA SW	Concentrates (EXPORT)	8
22 Oct 2021 - 24 Oct 2021	GRAVITY HIGHWAY	Motor Vehicles (IMPORT)	10
22 Oct 2021 - 24 Oct 2021	ATHINA	Fuels (IMPORT)	1
26 Oct 2021 - 28 Oct 2021	THERESA ORION	Molasses (EXPORT)	9
26 Oct 2021 - 29 Oct 2021	SFL TRENT	Urea (IMPORT)	10
27 Oct 2021 - 28 Oct 2021	UNI BLOSSOM	TBA	3 STH
27 Oct 2021 - 28 Oct 2021	GOLDEN AUSTRALIS	Fuels (IMPORT)	1
27 Oct 2021 - 30 Oct 2021	WYUNA	Cement (IMPORT)	4



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.

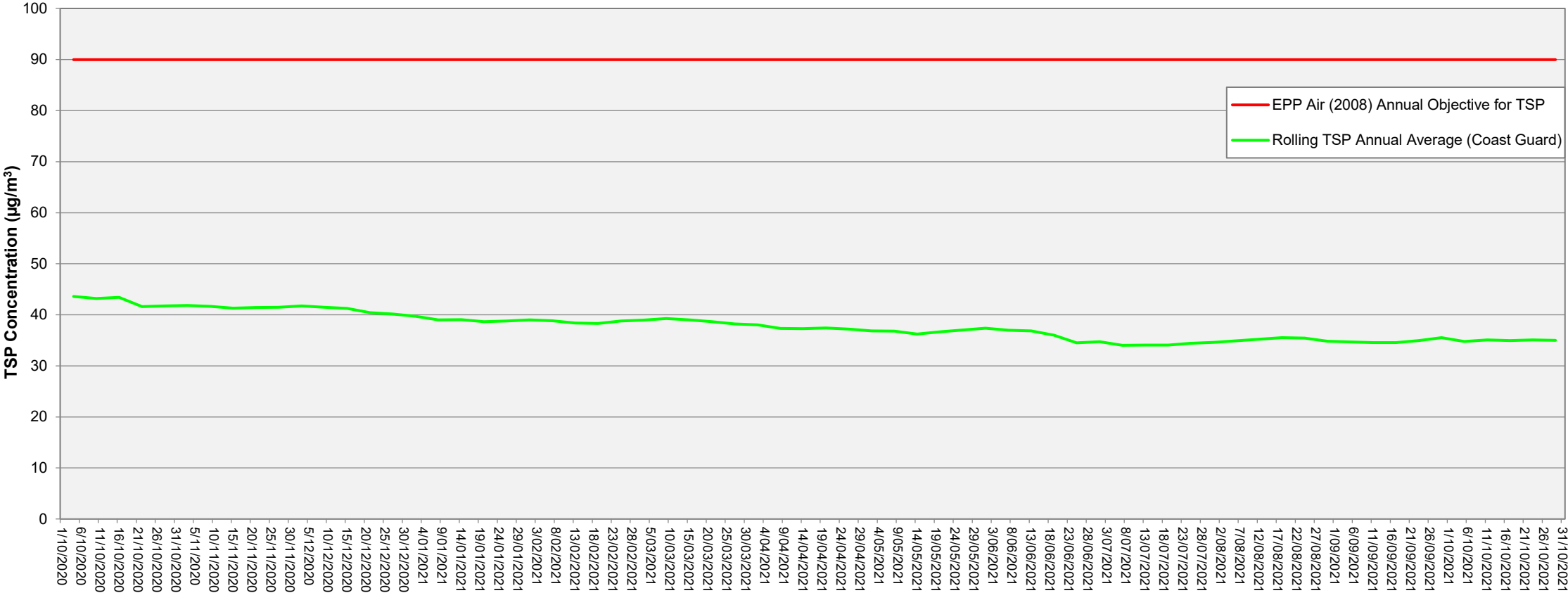
OR

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

Ask a Question / Provide Feedback

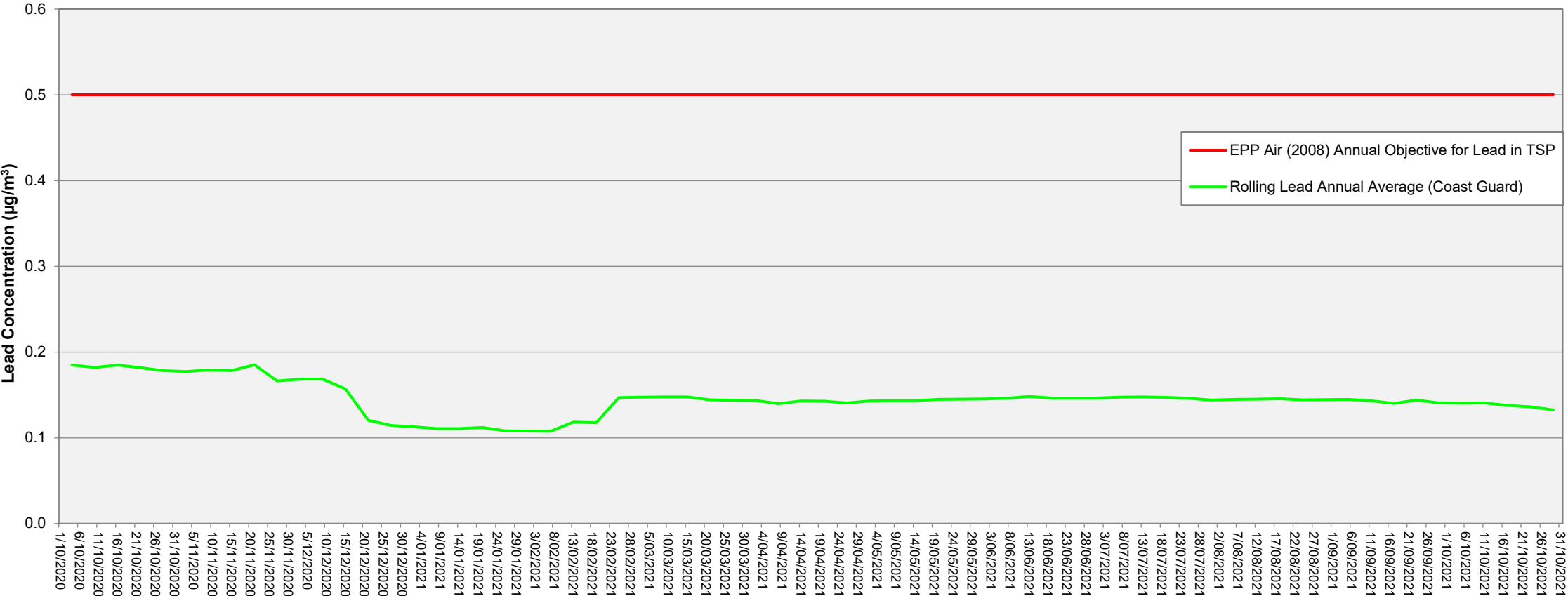
Send your enquiry or feedback to community@townsvilleport.com.au

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



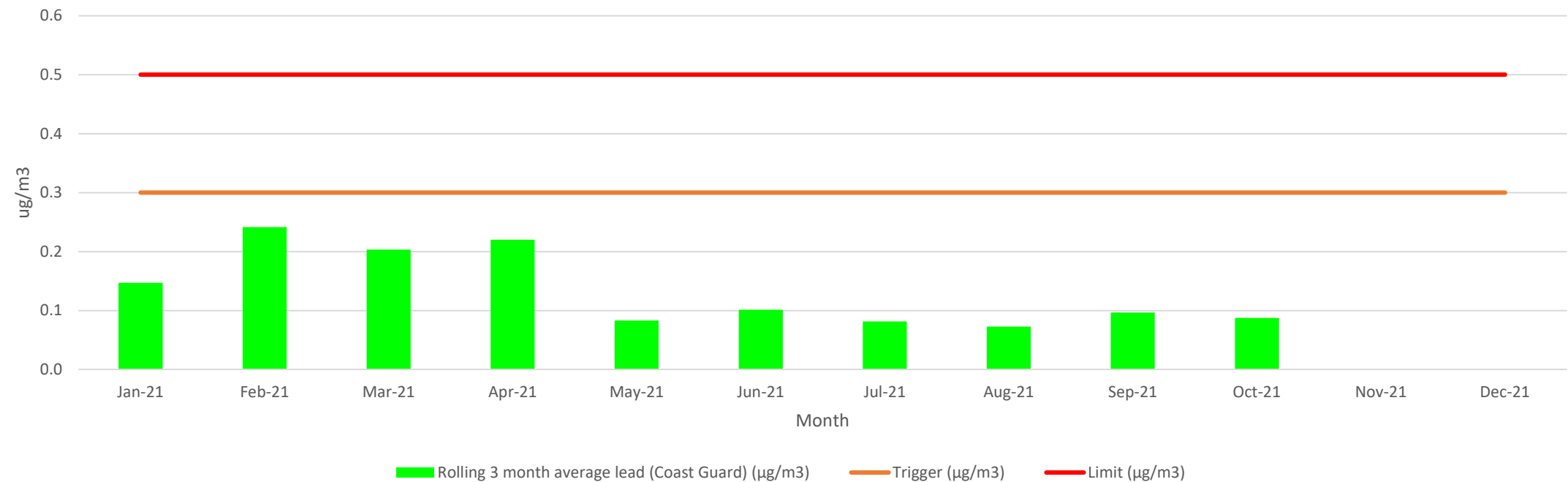
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



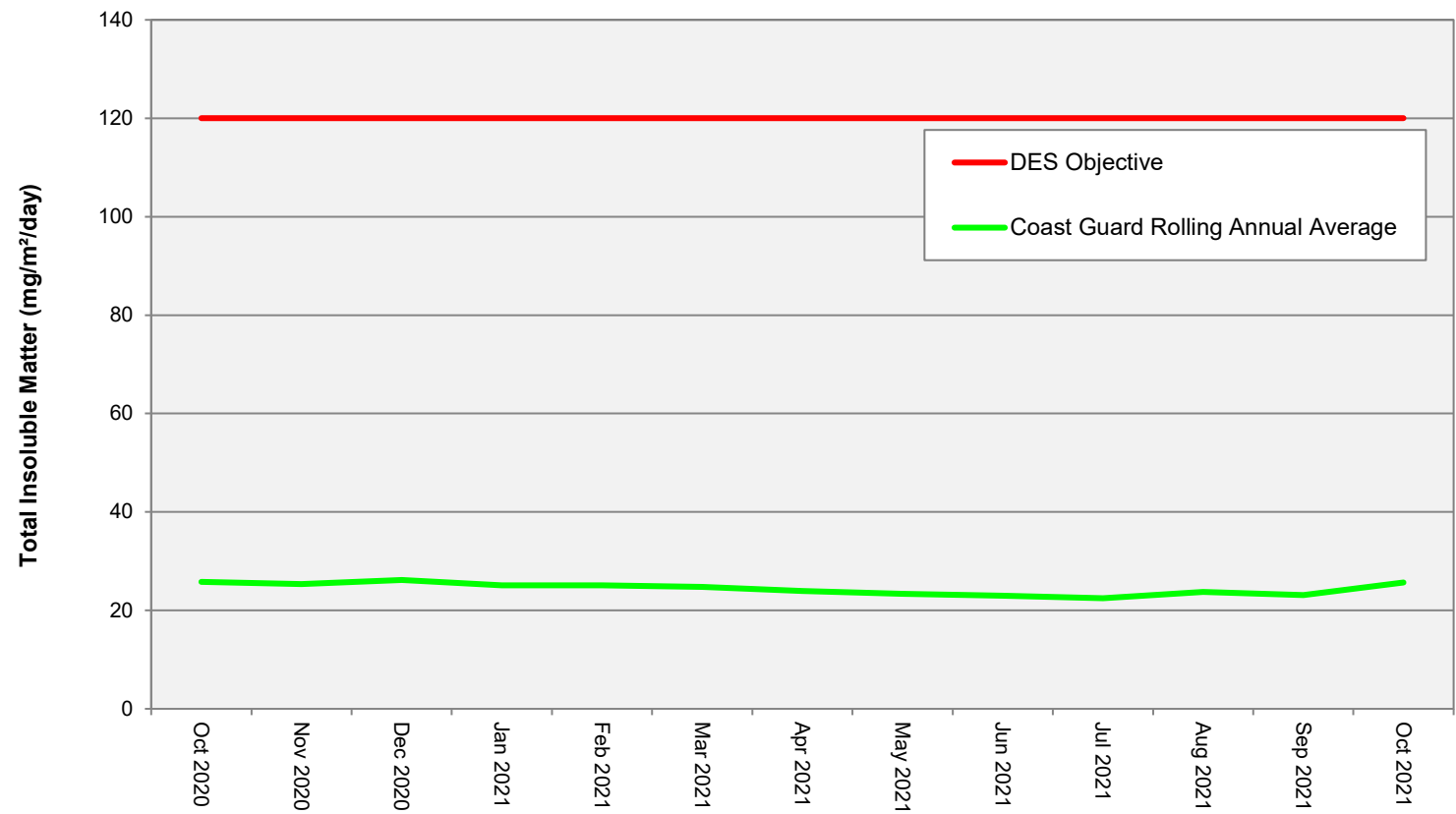
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



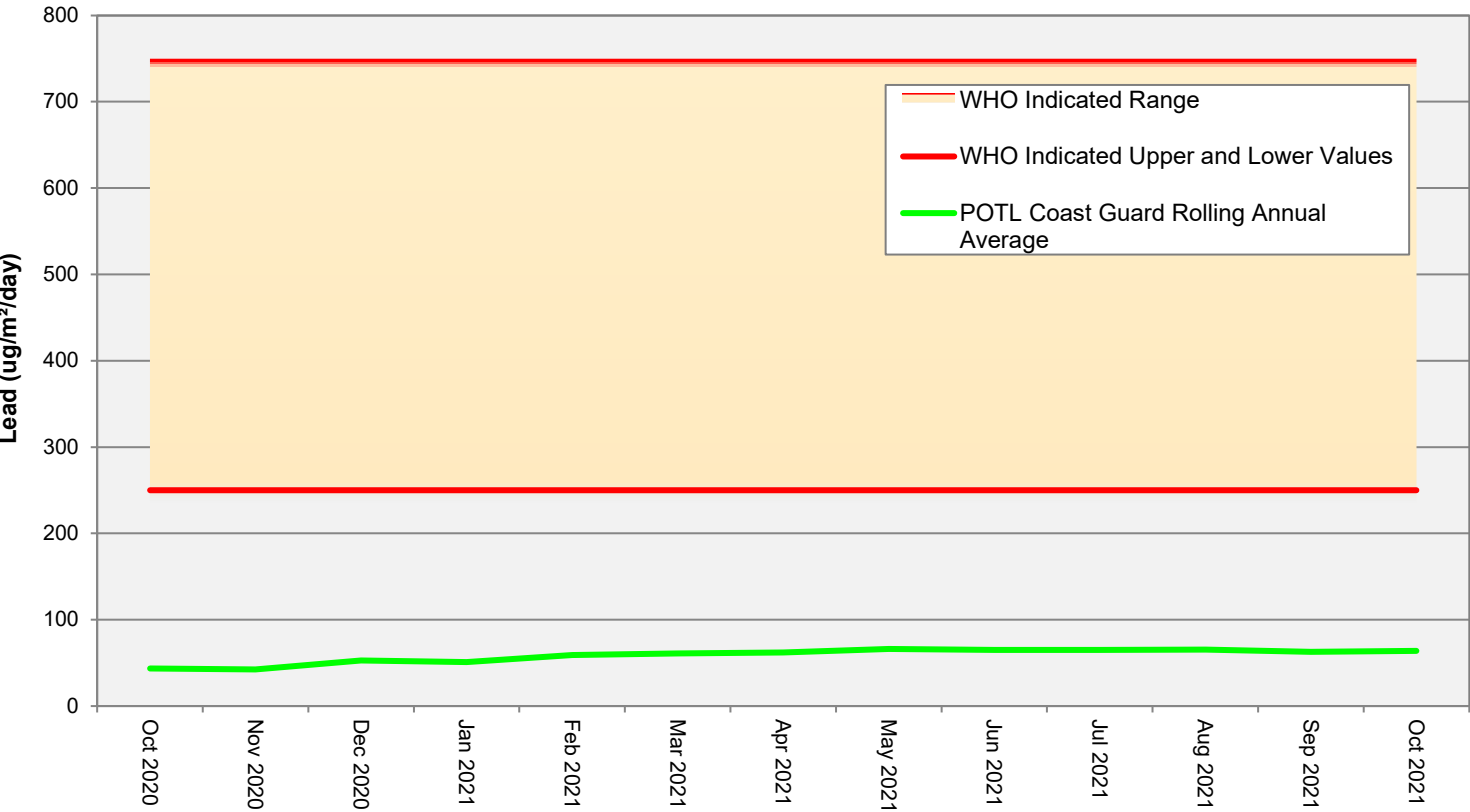
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



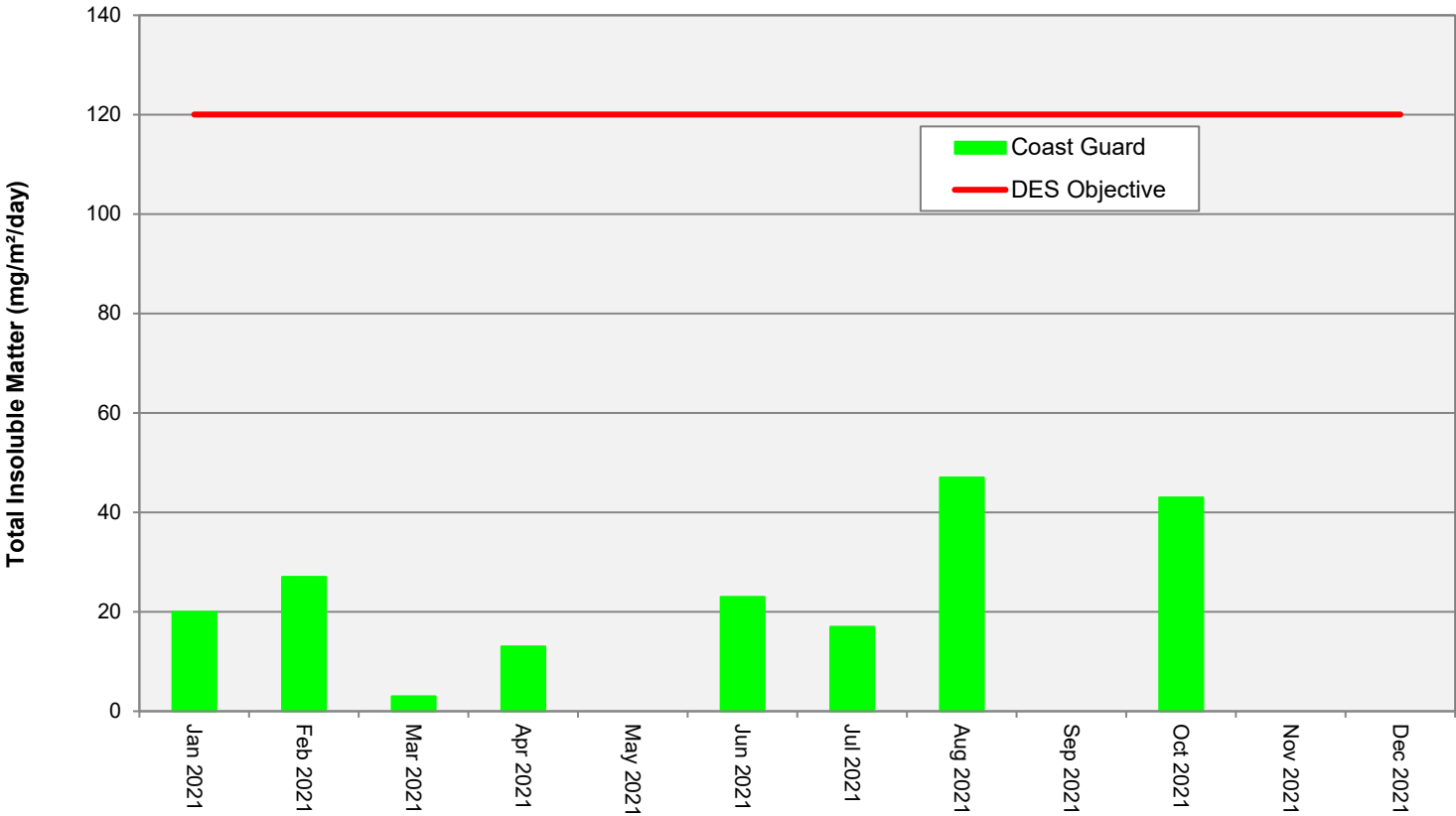
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



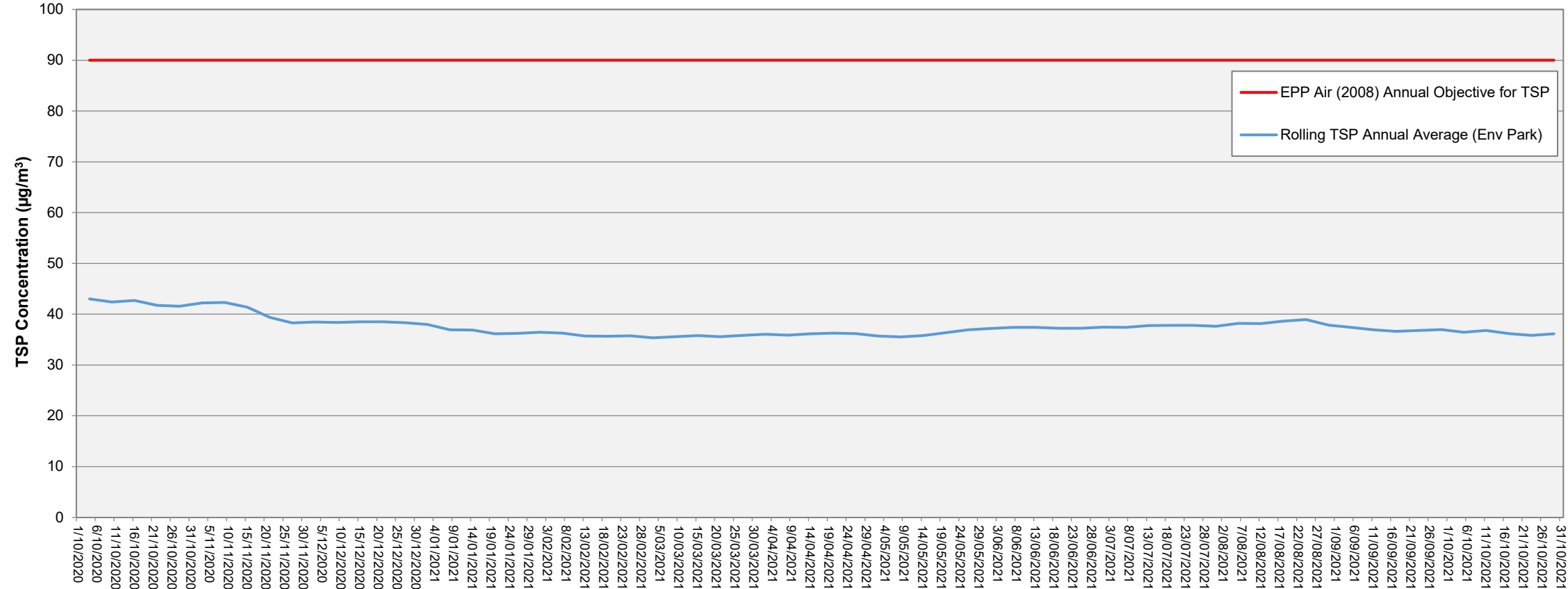
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

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

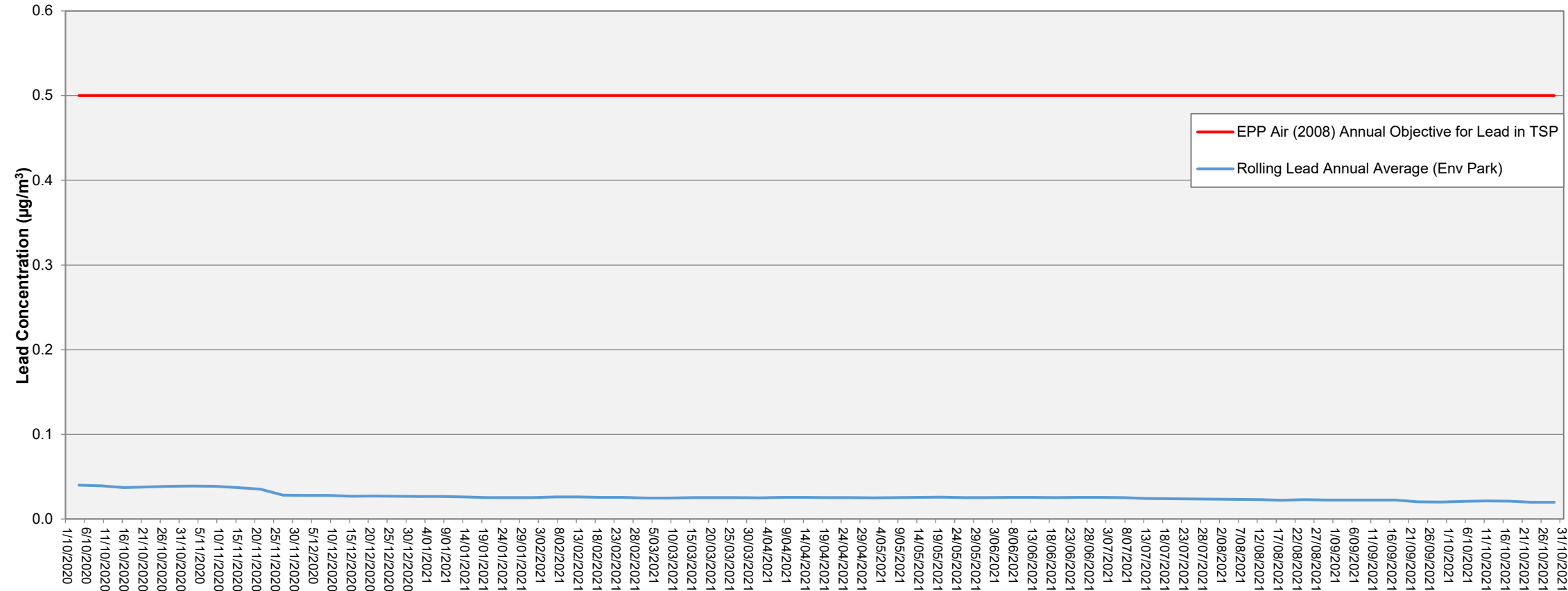


Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^May 2021, Sep 2021 invalid result. Nil data for display.

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

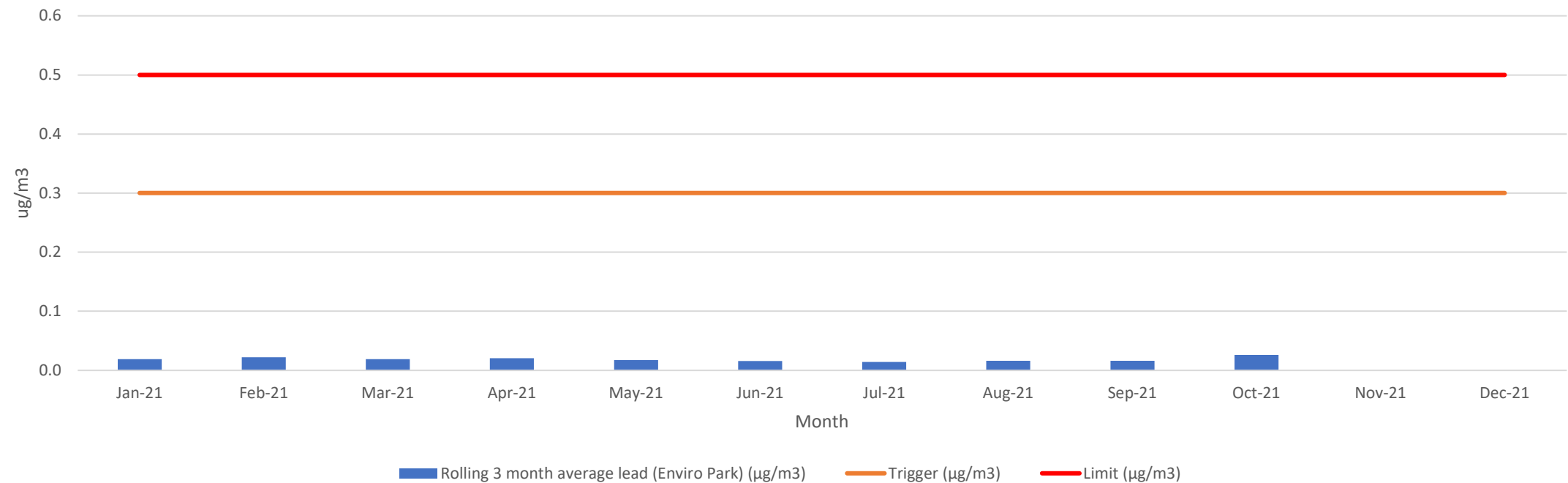


Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
OCTOBER 2020 – OCTOBER 2021



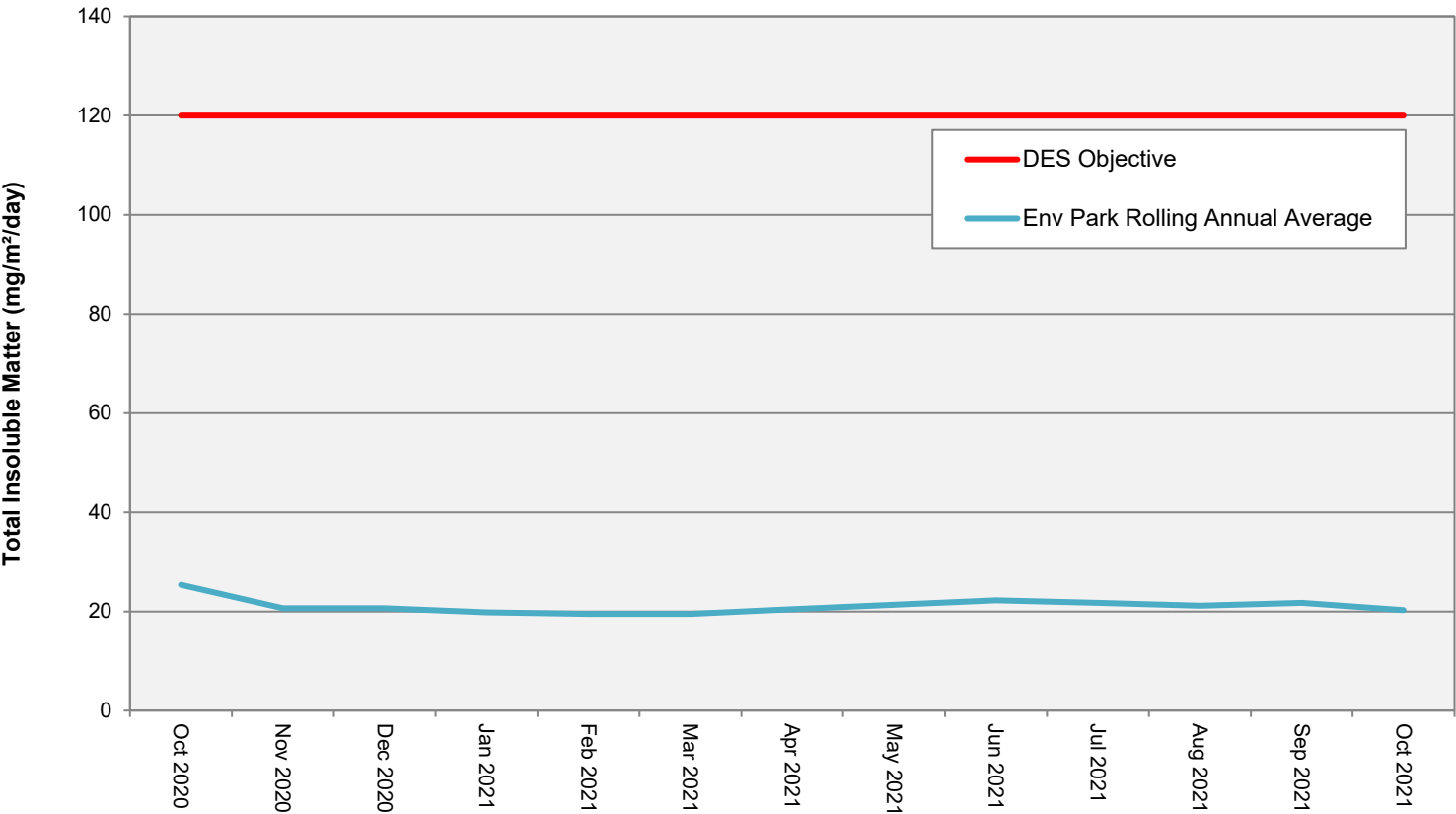
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



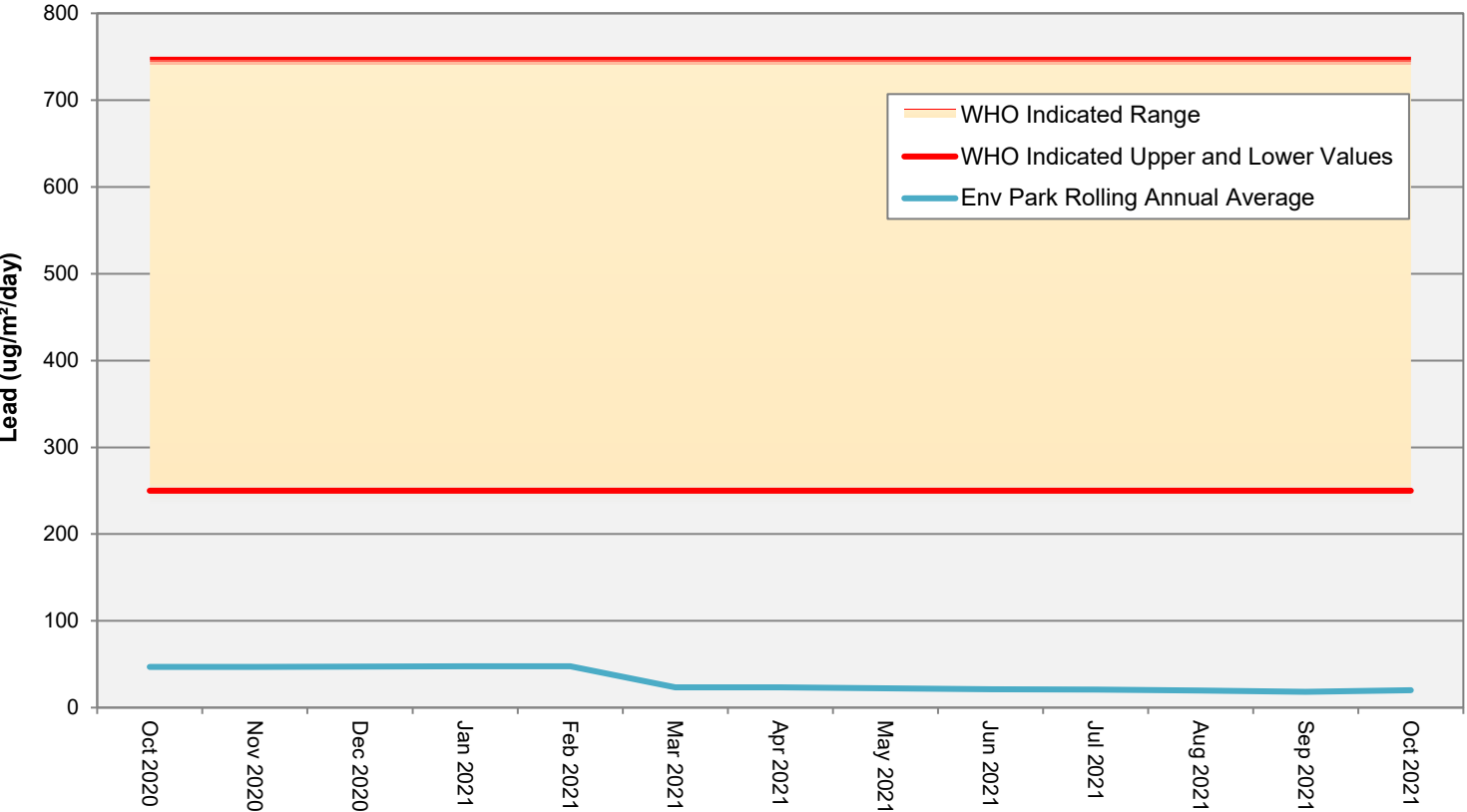
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



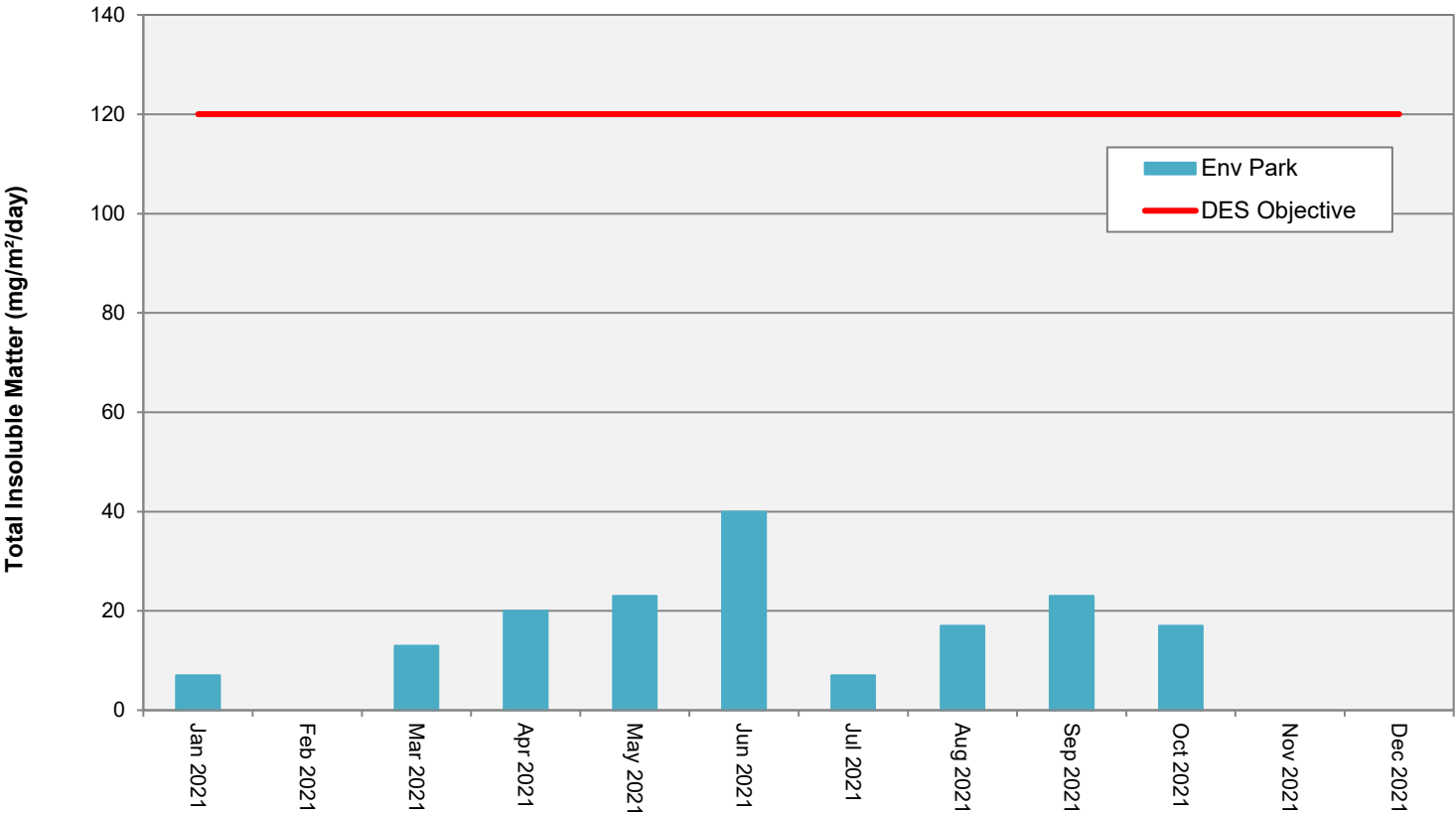
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



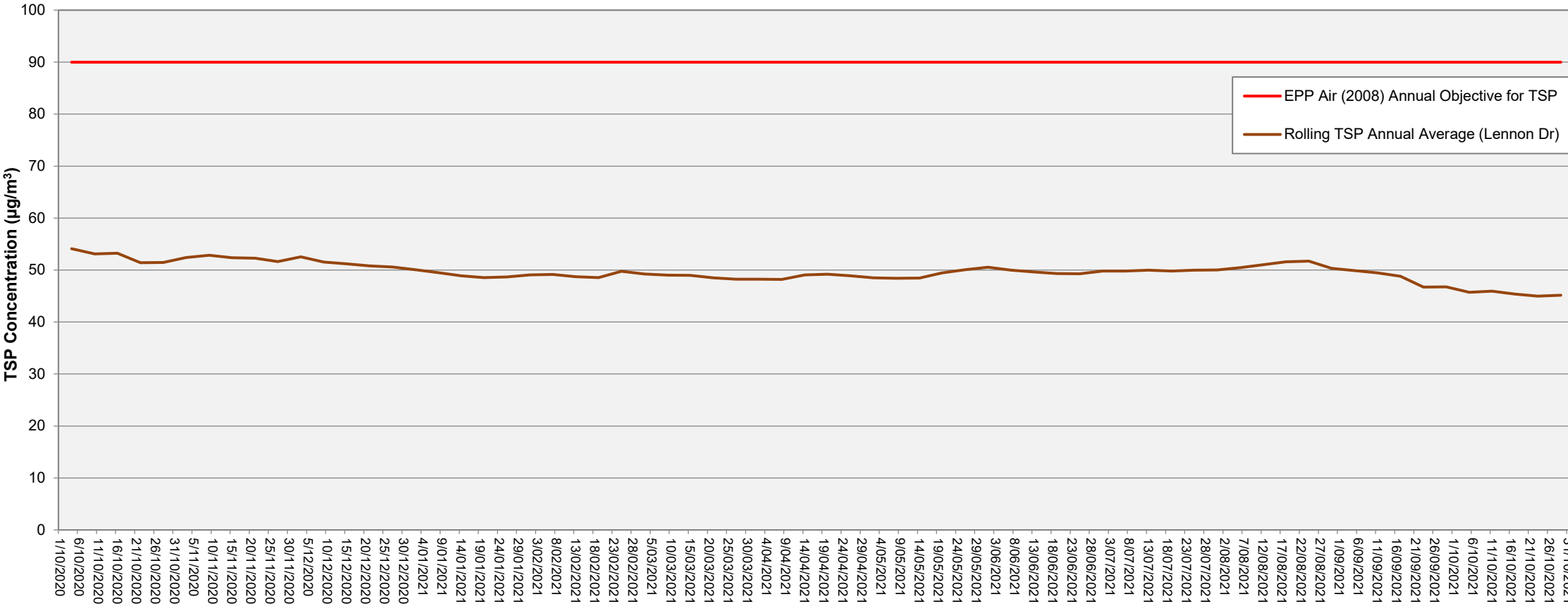
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



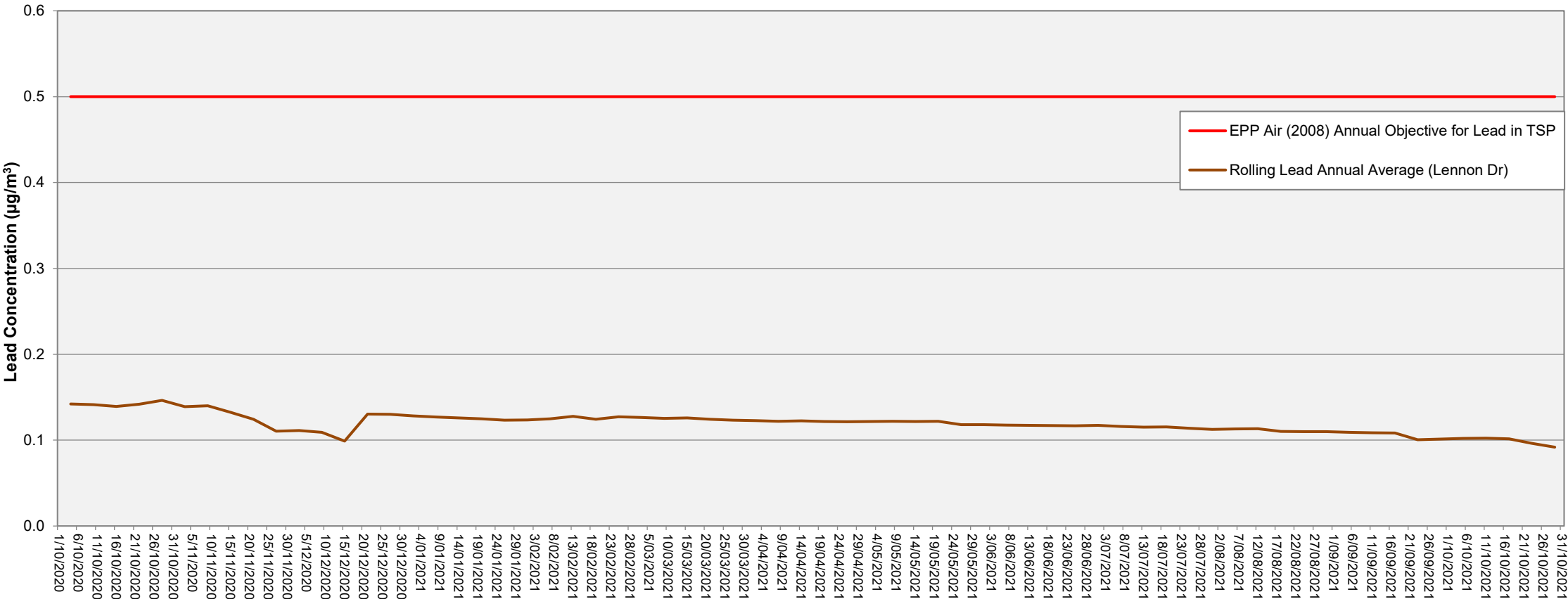
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

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

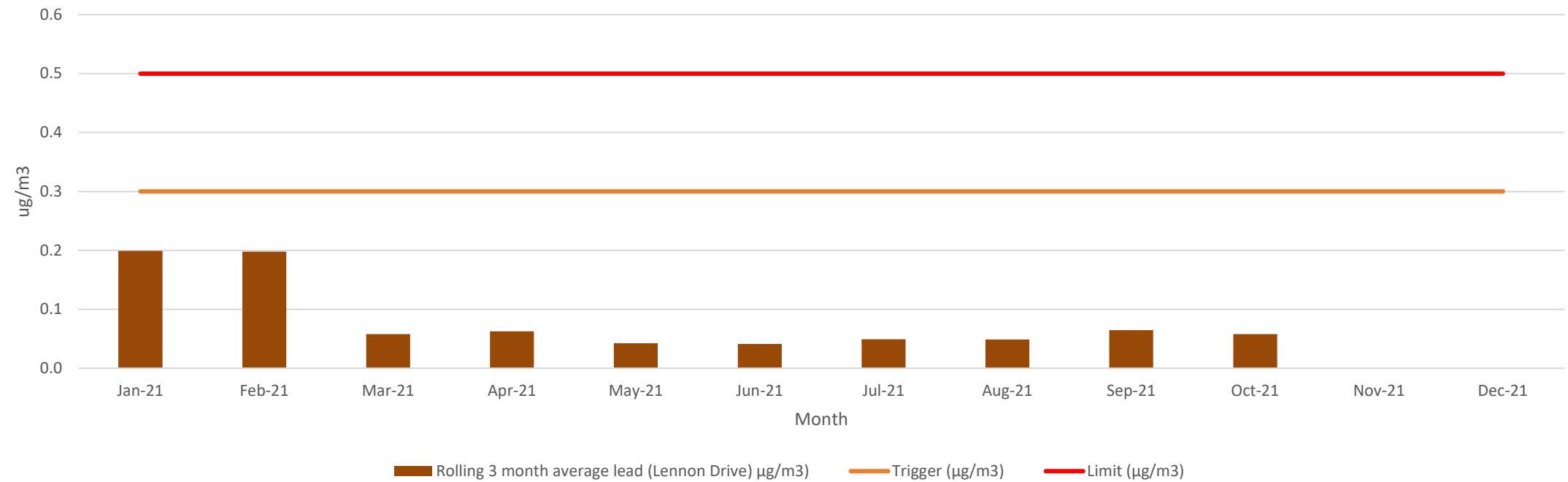


Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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

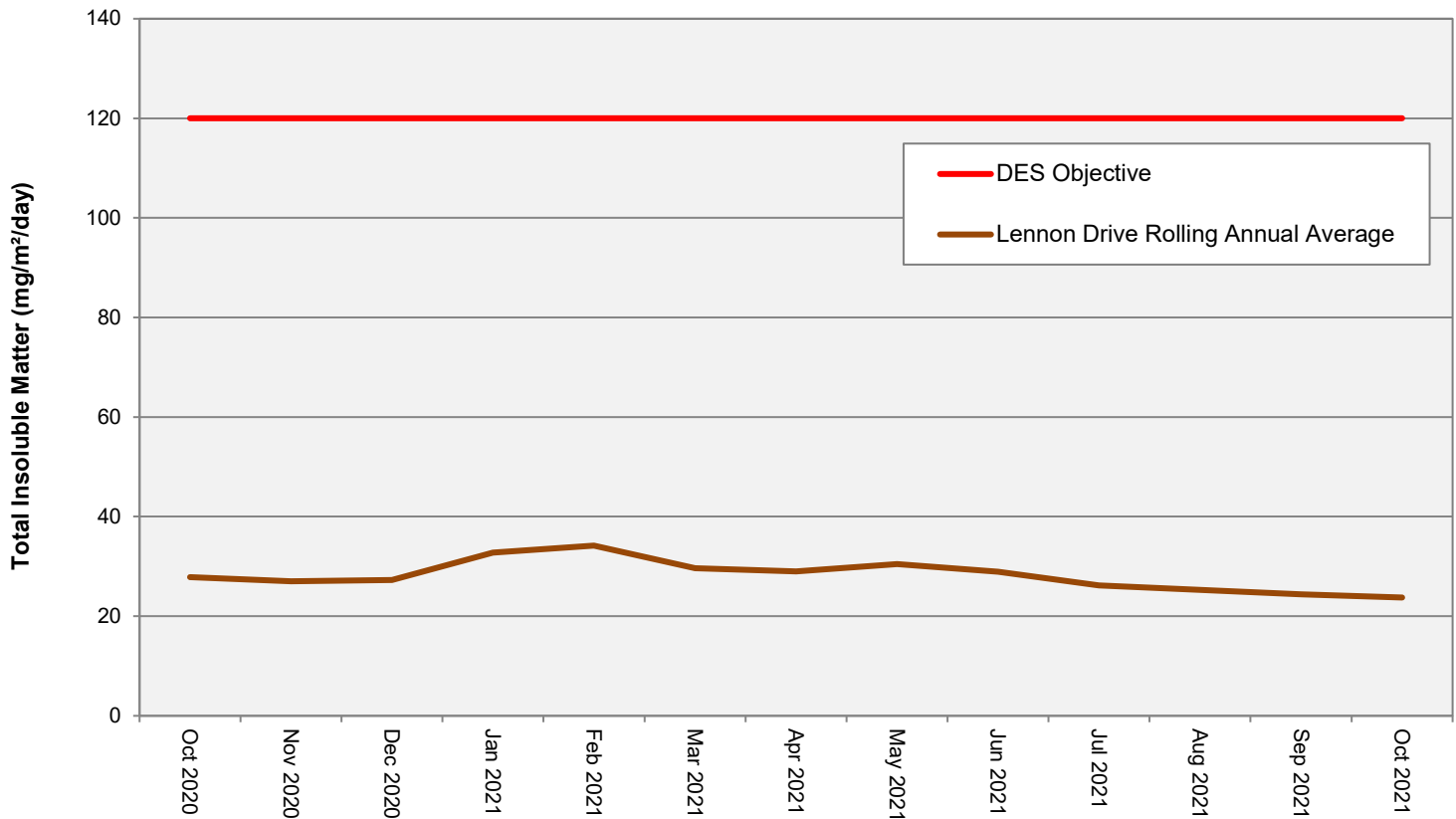


Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2021



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

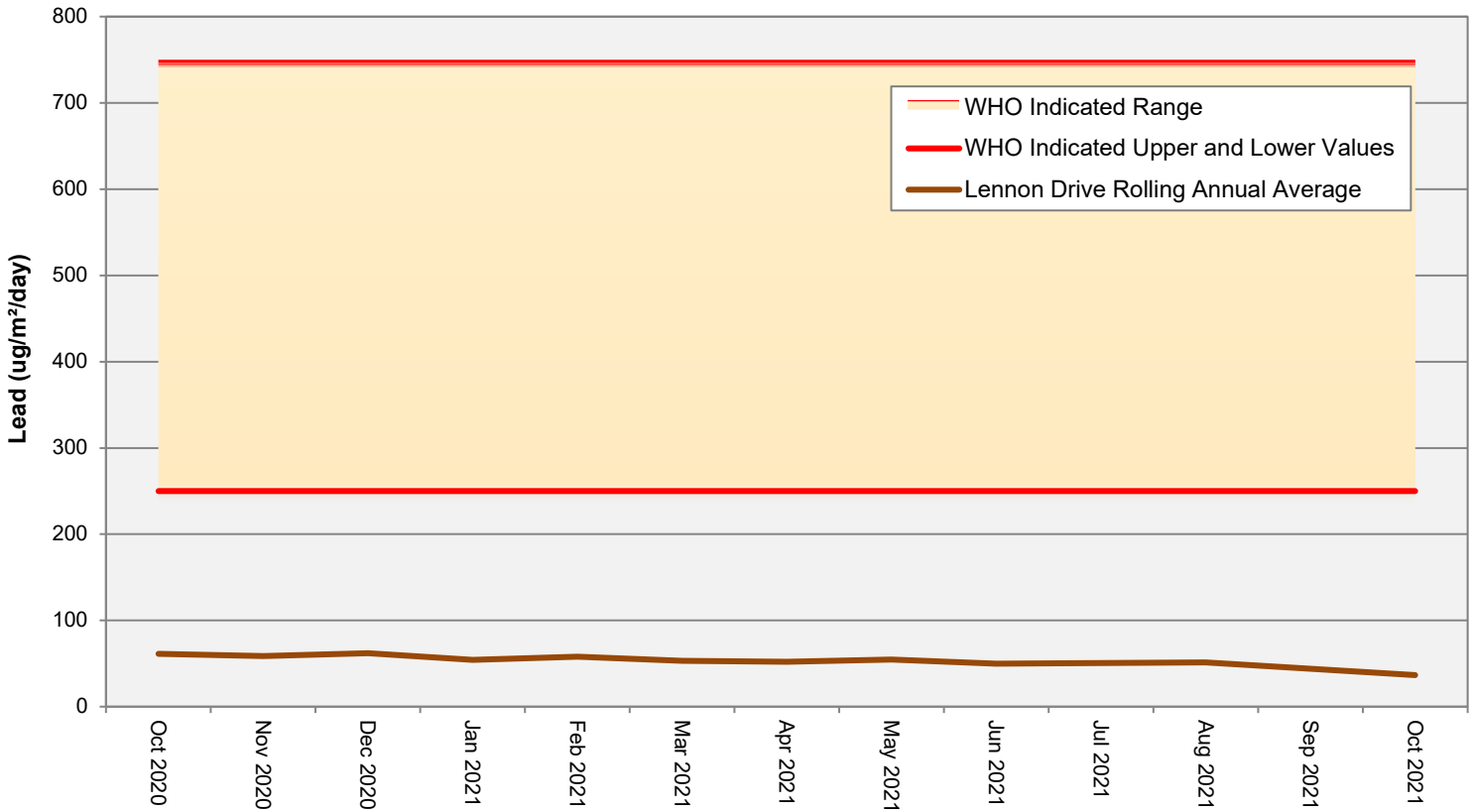
Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
OCTOBER 2020 – OCTOBER 2021



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

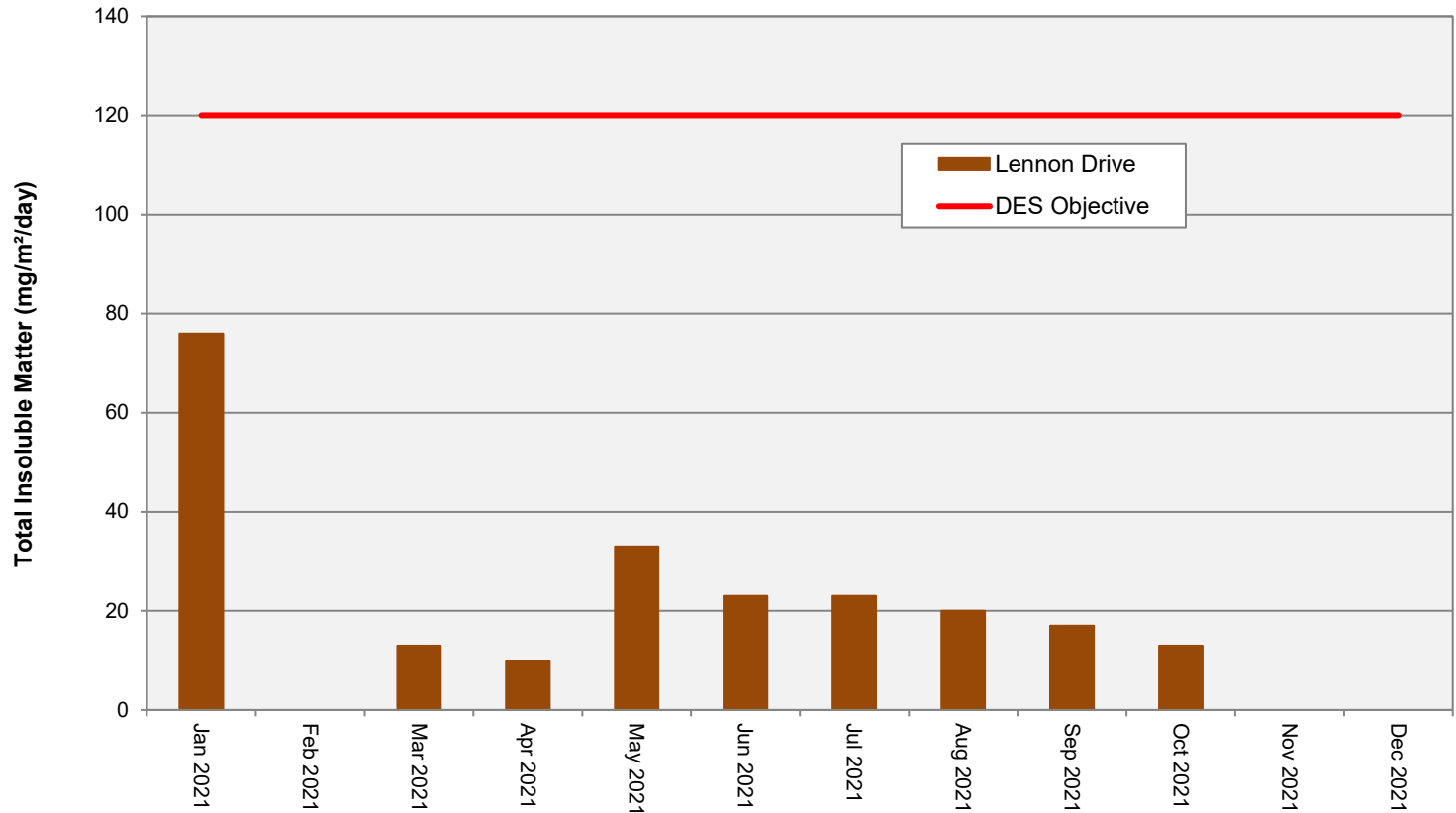
[Click here](#) for information on how to interpret this data

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