

Air Quality Dashboard | November | 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

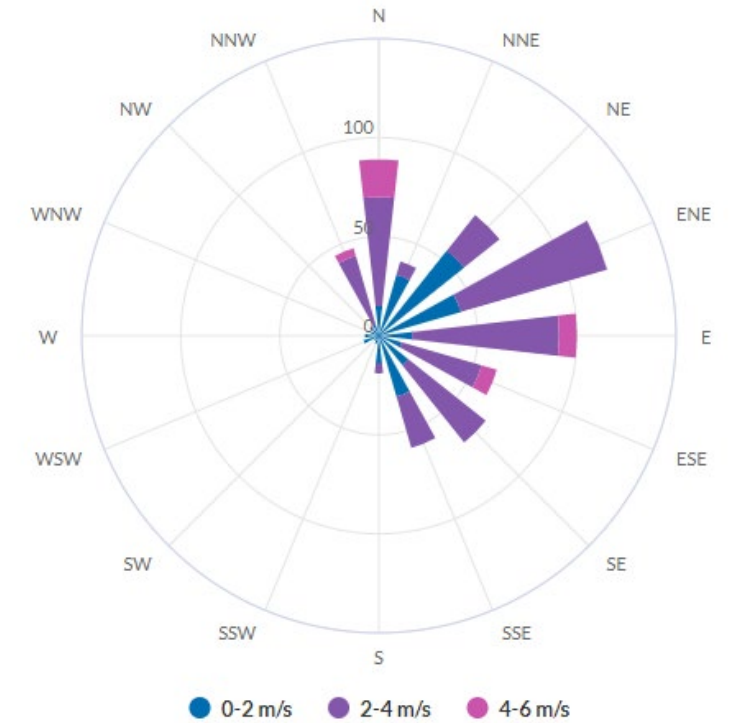
Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Wind speed ranges correlating to wind direction



Shipping Movements in November 2021

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

Date In/Out	Vessel Name	Cargo	Berth
31 Oct 2021 - 03 Nov 2021	TSL ROSEMARY	Copper Concentrates (IMPORT)	3 STH
01 Nov 2021 - 01 Nov 2021	CHALLENGE PHOENIX	Fuels (IMPORT)	1
01 Nov 2021 - 03 Nov 2021	HANSA REGENSBURG	NIL	4
02 Nov 2021 - 10 Nov 2021	DANCEWOOD SW	Concentrates (EXPORT)	11
02 Nov 2021 - 03 Nov 2021	STOLT HAGI	Tallow (EXPORT)	9
03 Nov 2021 - 05 Nov 2021	TSL ROSEMARY	Copper Concentrates (IMPORT)	3 NTH
03 Nov 2021 - 05 Nov 2021	HANSA REGENSBURG	TBA	3 STH
03 Nov 2021 - 03 Nov 2021	PMG EMERALD	General/Break Bulk (IMPORT)	2
03 Nov 2021 - 05 Nov 2021	LAUTOKA CHIEF	NIL	4
03 Nov 2021 - 08 Nov 2021	AFRICAN RAVEN	Sulphur,Fertilizer,Fertilizer (IMPORT)	10
04 Nov 2021 - 05 Nov 2021	VICTORIA HIGHWAY	Motor Vehicles (IMPORT)	9
04 Nov 2021 - 07 Nov 2021	MORNING GLORY	Fuels (IMPORT)	1
05 Nov 2021 - 06 Nov 2021	LUENHO	Lead Ingots (EXPORT)	3 STH
05 Nov 2021 - 05 Nov 2021	GREYMAN EXPRESS	Cattle,Fodder (EXPORT)	3 NTH
06 Nov 2021 - 09 Nov 2021	PAN OPTIMUM	Fertilizer (EXPORT)	8
07 Nov 2021 - 09 Nov 2021	STAMINA SW	Sugar (EXPORT)	9
08 Nov 2021 - 09 Nov 2021	AL KUWAIT	Fodder (EXPORT)	3 NTH
08 Nov 2021 - 09 Nov 2021	THERESA MICRONESIA	Molasses (EXPORT)	4
08 Nov 2021 - 09 Nov 2021	VUKOVAR	Fuels (IMPORT)	1
09 Nov 2021 - 09 Nov 2021	MERIDIAN ACE	Motor Vehicles (IMPORT)	10
09 Nov 2021 - 10 Nov 2021	TAO BRAVE	Zinc Concentrates (EXPORT)	8
10 Nov 2021 - 11 Nov 2021	IVS IBIS	Sugar (EXPORT)	9
10 Nov 2021 - 12 Nov 2021	TAO BRAVE	Zinc Concentrates (EXPORT)	3 STH
11 Nov 2021 - 11 Nov 2021	CALEDONIAN SKY	TBA	10
11 Nov 2021 - 11 Nov 2021	SOFRANA TOURVILLE	NIL	4
12 Nov 2021 - 12 Nov 2021	GOLDEN HACHI	Fuels (IMPORT)	1
12 Nov 2021 - 14 Nov 2021	PACIFIC CONDOR	NIL	3 NTH
14 Nov 2021 - 14 Nov 2021	PALANCA MIAMI	Bitumen (IMPORT)	1

Date In/Out	Vessel Name	Cargo	Berth
15 Nov 2021 - 26 Nov 2021	DREAM SKY	Zinc Concentrates (IMPORT)	10
15 Nov 2021 - 19 Nov 2021	PACIFIC PIONEER	Scrap (EXPORT)	9
15 Nov 2021 - 17 Nov 2021	FLORA DELMAS	NIL	3 STH
16 Nov 2021 - 16 Nov 2021	RHEA LEADER	Motor Vehicles (IMPORT)	4
17 Nov 2021 - 18 Nov 2021	SUVA CHIEF	NIL	4
17 Nov 2021 - 18 Nov 2021	TORM TORINO	Fuels (IMPORT)	1
17 Nov 2021 - 18 Nov 2021	TOKYO TRADER	NIL	3 STH
17 Nov 2021 - 18 Nov 2021	BLUE RIDGE HIGHWAY	Motor Vehicles (IMPORT)	3 NTH
18 Nov 2021 - 21 Nov 2021	RUBY ENTERPRISE	Fertilizer (EXPORT)	8
18 Nov 2021 - 19 Nov 2021	ATLANTIC DAWN	General Cargo,General Cargo (IMPORT)	3 NTH
18 Nov 2021 - 19 Nov 2021	HANSA FREYBURG	NIL	3 STH
18 Nov 2021 - 21 Nov 2021	KONDILI	Cement (IMPORT)	4
19 Nov 2021 - 20 Nov 2021	THERESA ORION	Molasses (EXPORT)	9
21 Nov 2021 - 25 Nov 2021	ORIENTAL SPIRIT	Zinc Concentrates (EXPORT)	4
21 Nov 2021 - 23 Nov 2021	MILAU BULKER	Sugar (EXPORT)	9
23 Nov 2021 - 23 Nov 2021	CALEDONIAN SKY	TBA	8
23 Nov 2021 - 25 Nov 2021	BELLE ETOILE	Sugar (EXPORT)	9
24 Nov 2021 - 26 Nov 2021	SAKURA FORTUNE	TBA	11
25 Nov 2021 - 27 Nov 2021	ELANDRA FJORD	Fuels (IMPORT)	1
26 Nov 2021 - 28 Nov 2021	SAKURA FORTUNE	Lead Concentrates,Zinc Concentrates,Zinc Concentrates,Concentrates,Concentrates (EXPORT)	8
26 Nov 2021 - 29 Nov 2021	NIGHTHAWK	Sugar (EXPORT)	9
27 Nov 2021 - 28 Nov 2021	AFRICAN GANNET	Copper Concentrates,Sulphur (IMPORT)	3 NTH
27 Nov 2021 - 29 Nov 2021	GOLDEN CREATION	Sulphuric Acid (EXPORT)	1
27 Nov 2021 - 28 Nov 2021	BAUSTELLA	Bitumen (IMPORT)	4
29 Nov 2021 - 29 Nov 2021	NIAGARA HIGHWAY	Motor Vehicles (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.

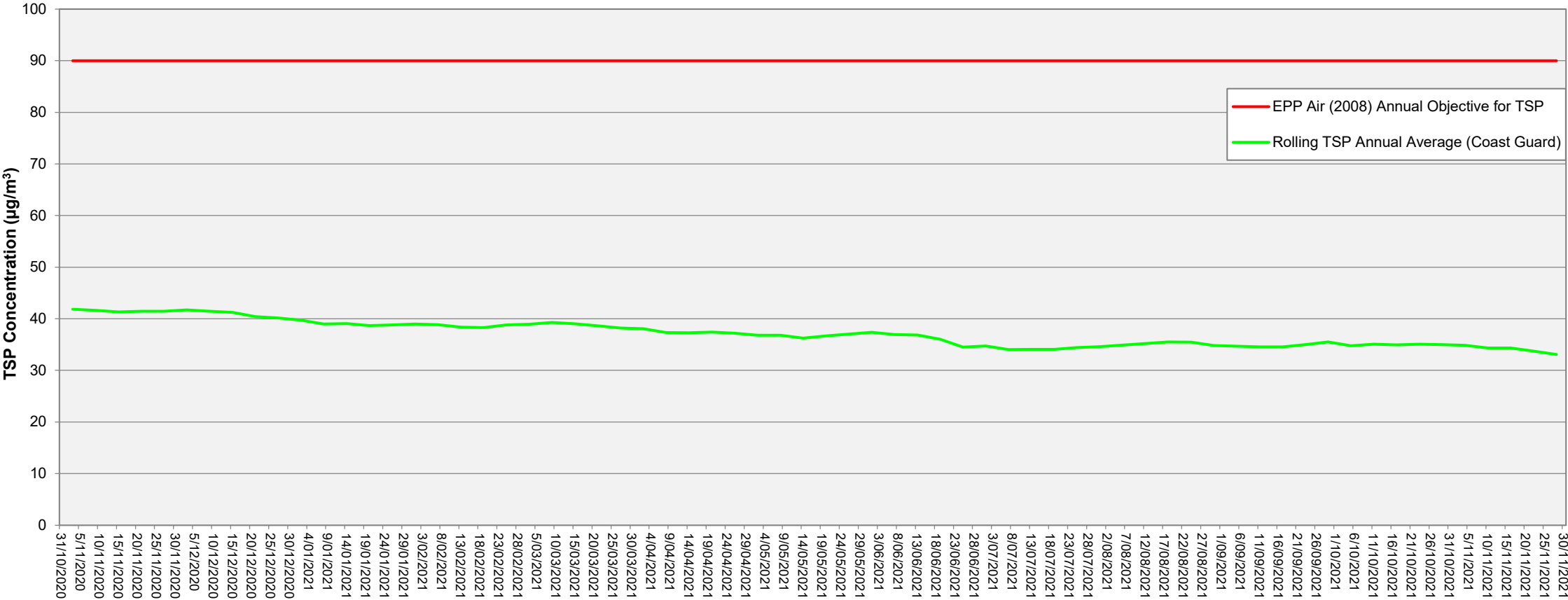
OR

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

Ask a Question / Provide Feedback

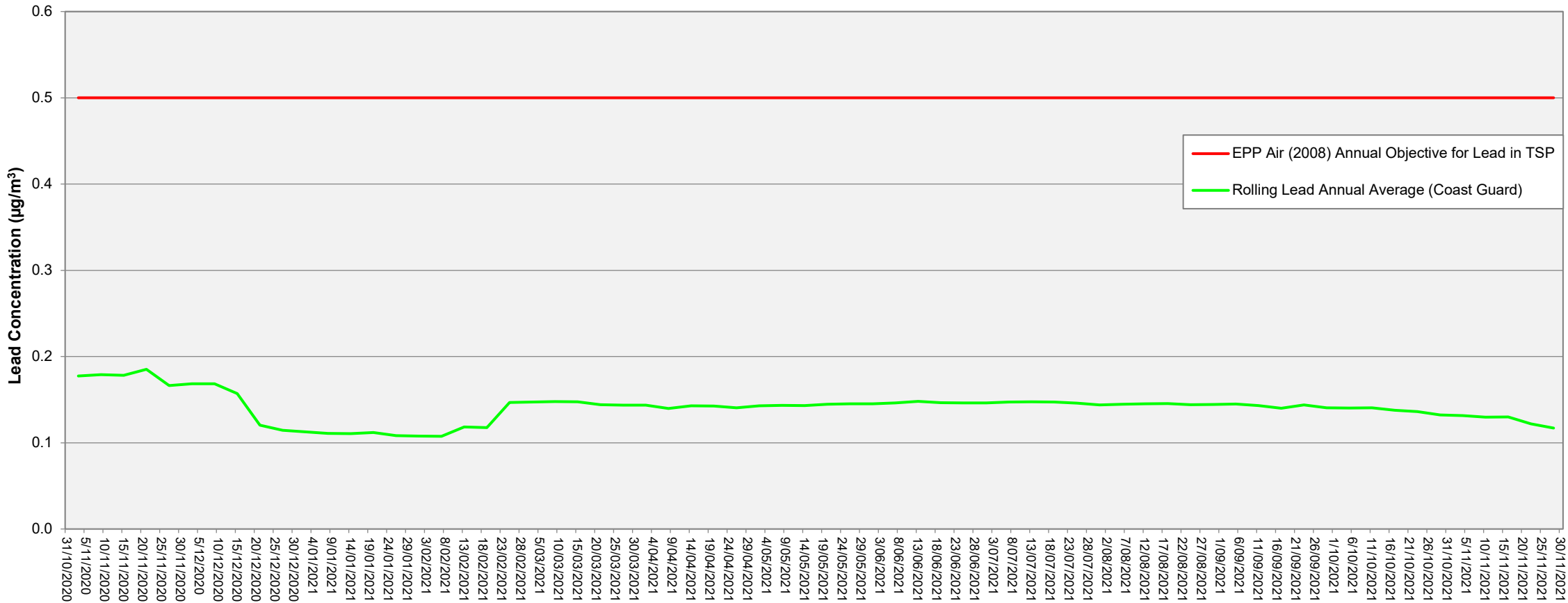
Send your enquiry or feedback to community@townsvilleport.com.au

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



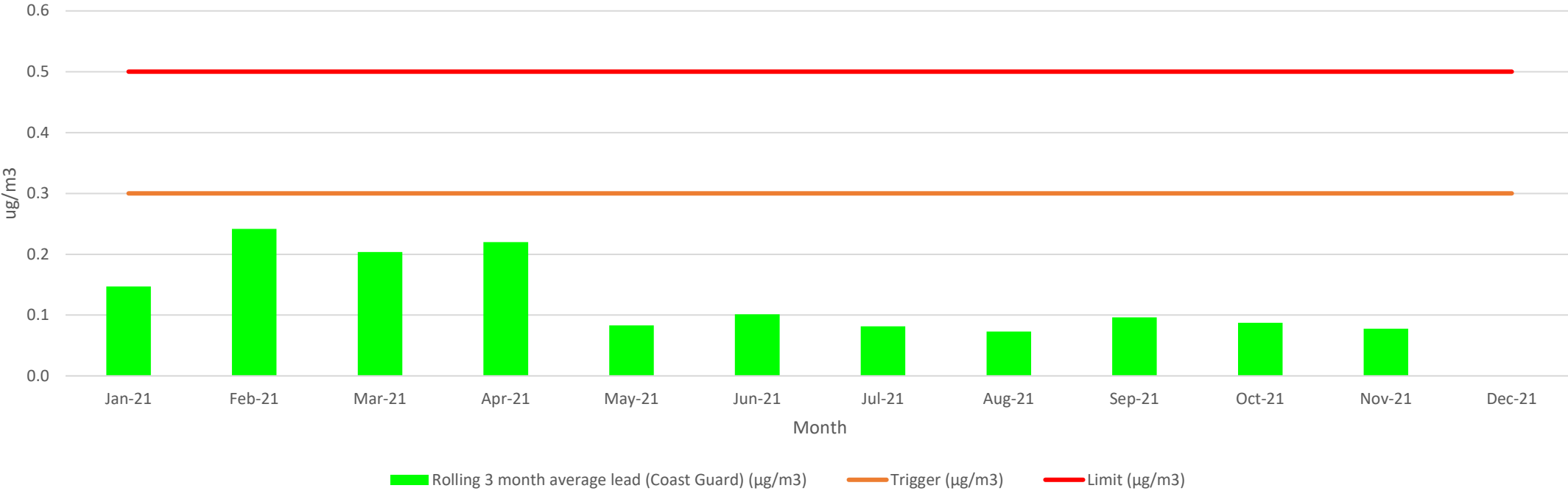
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



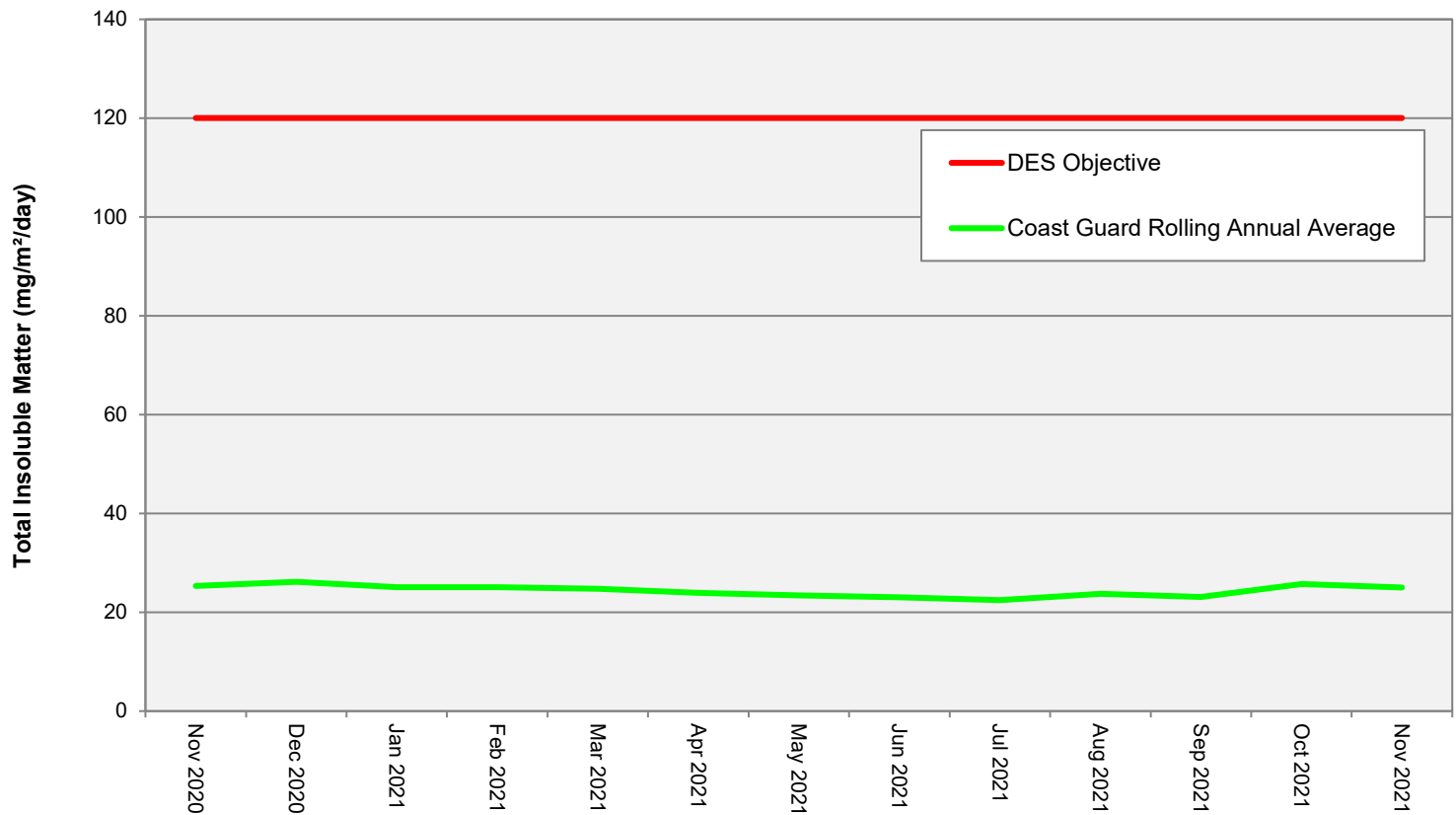
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



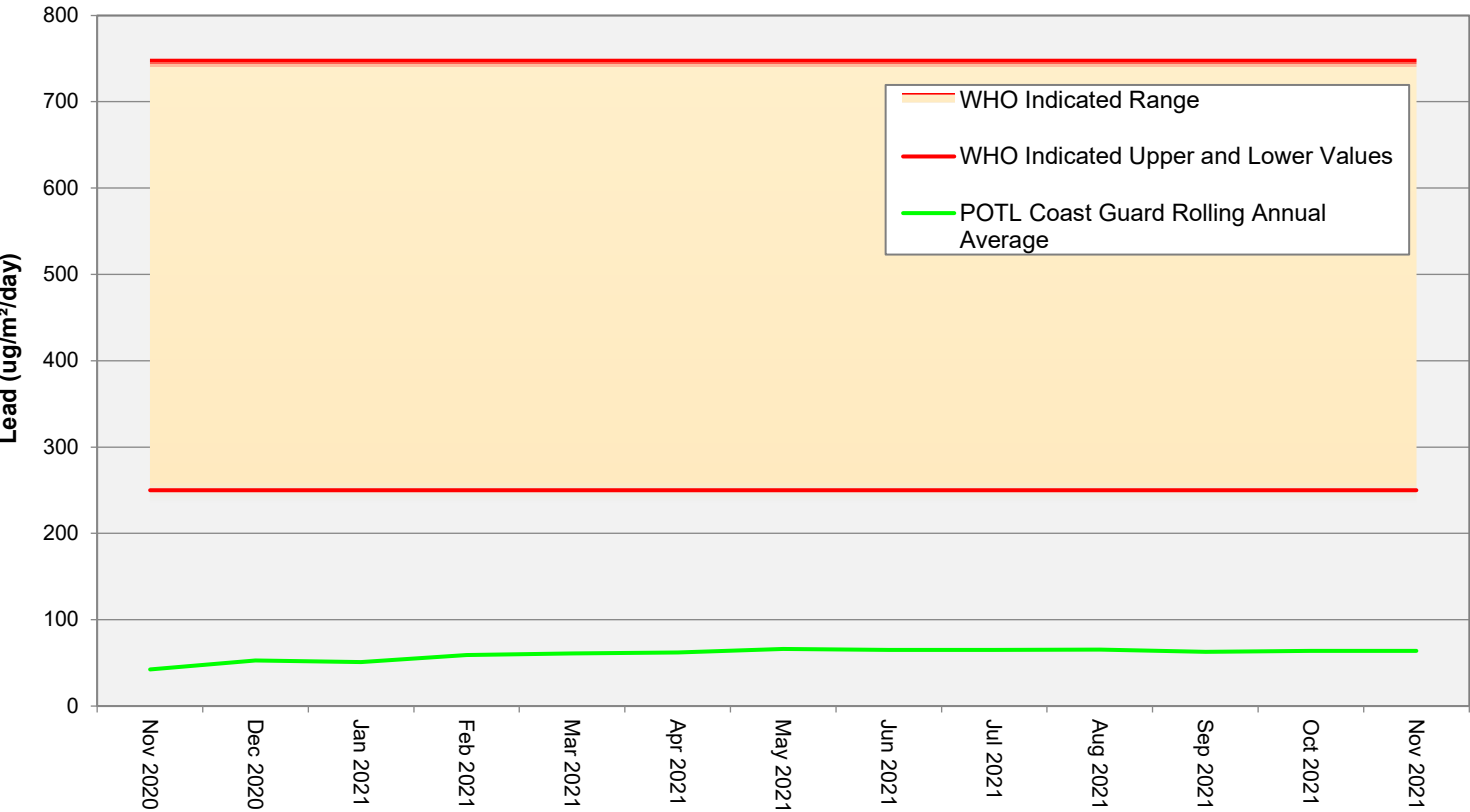
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



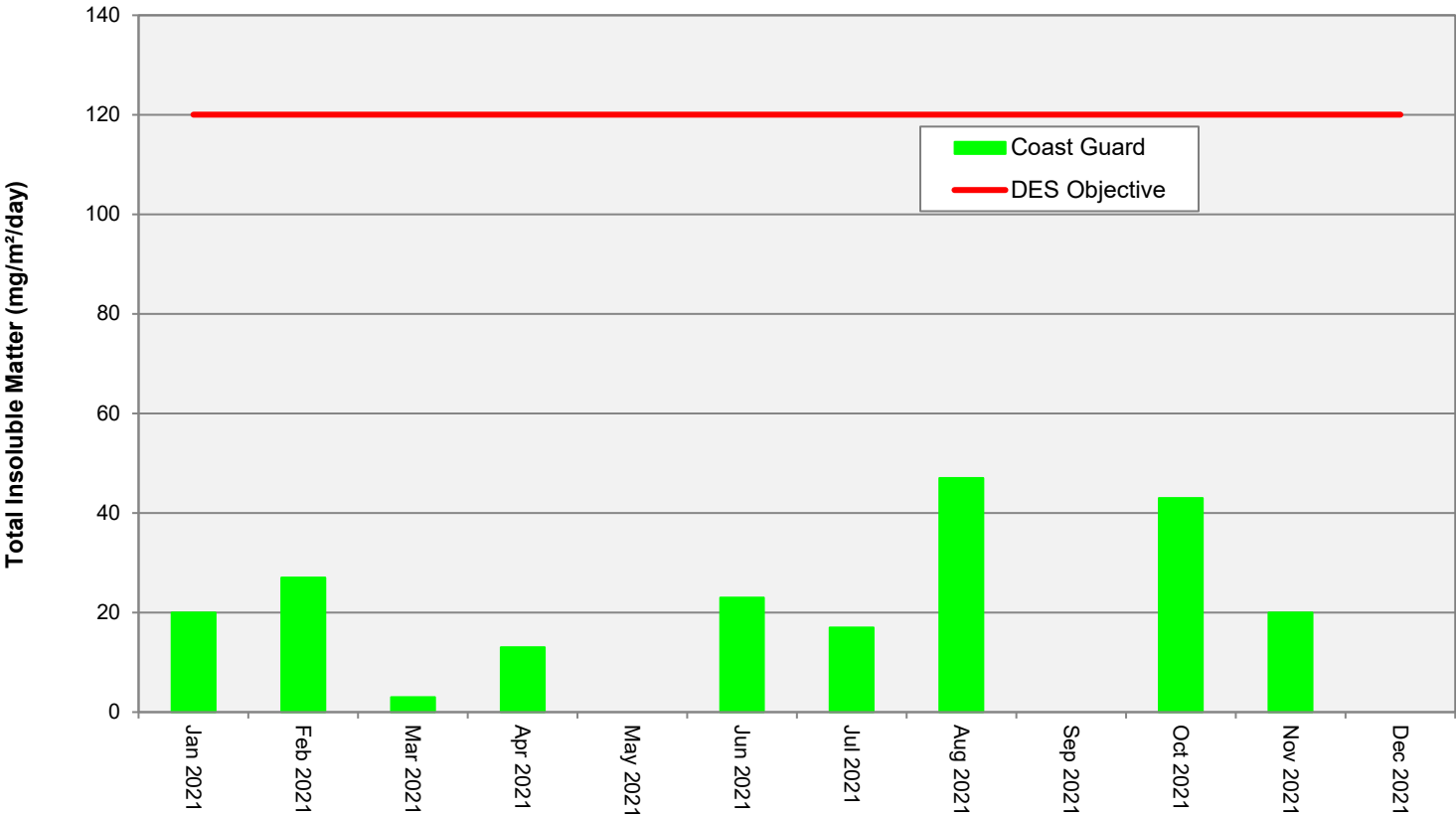
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



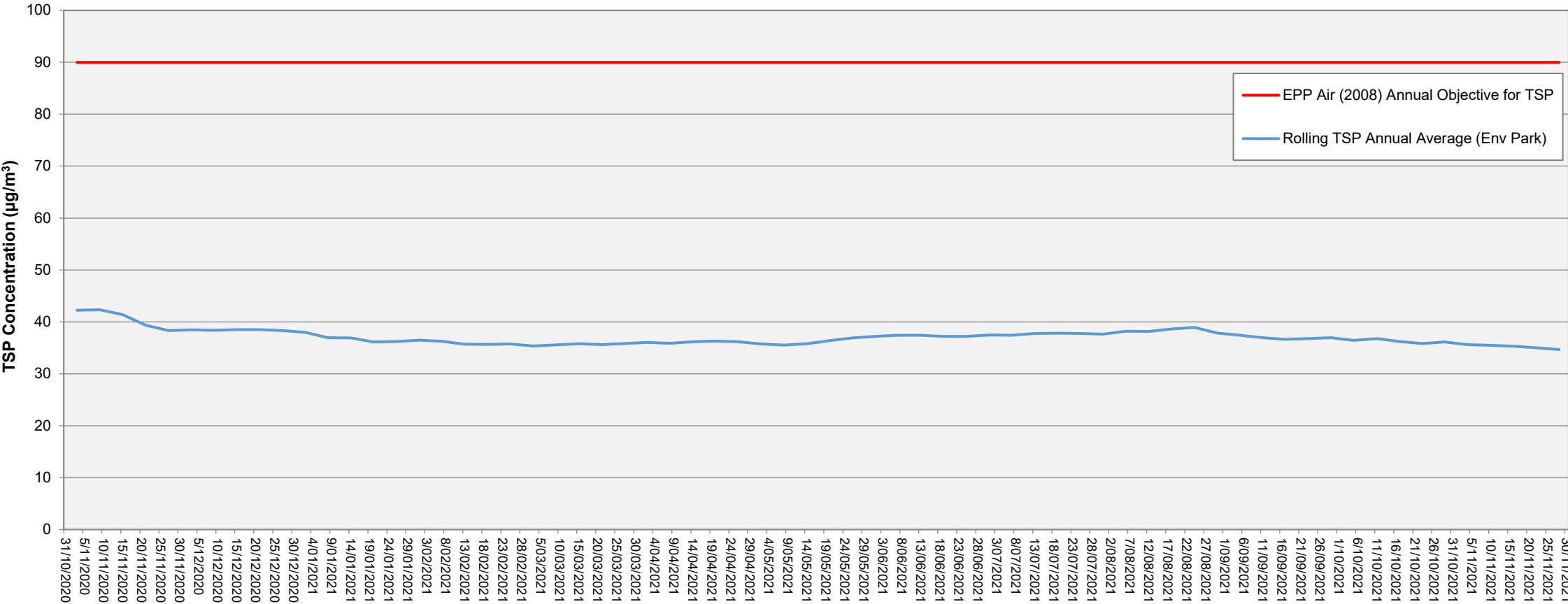
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

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



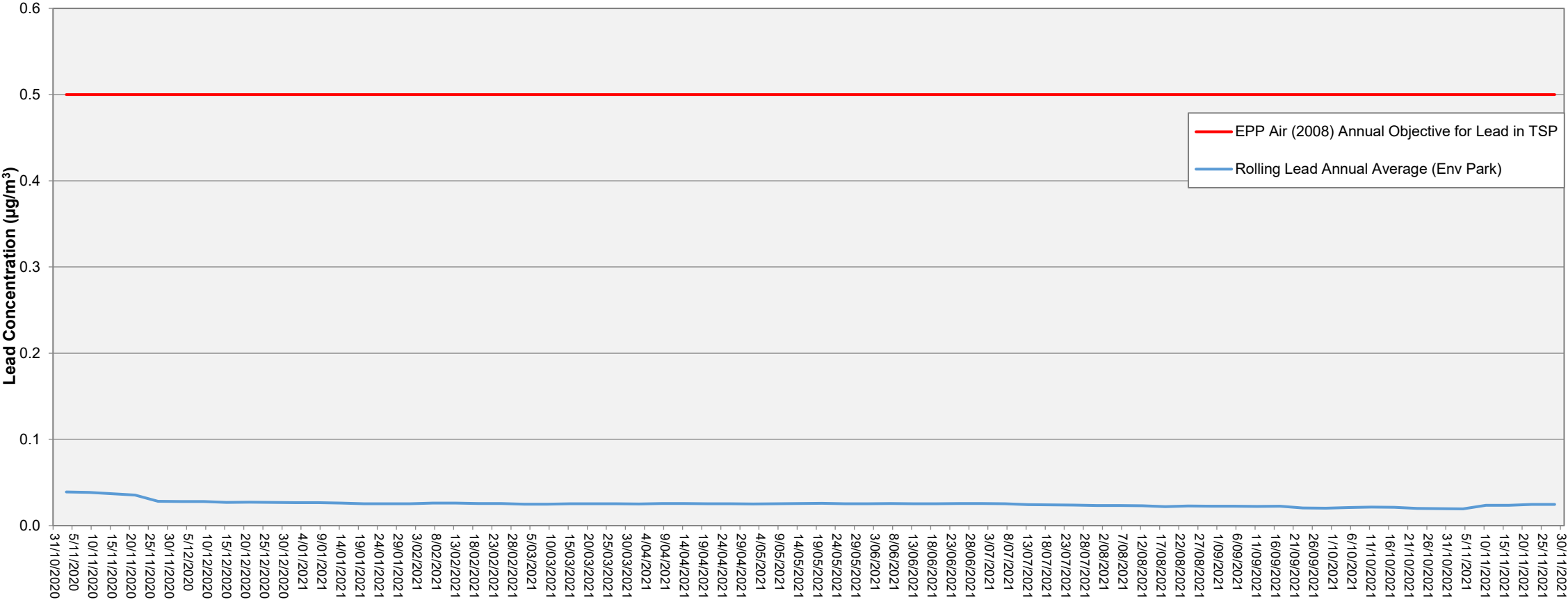
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^May 2021, Sep 2021 invalid result. Nil data for display.

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



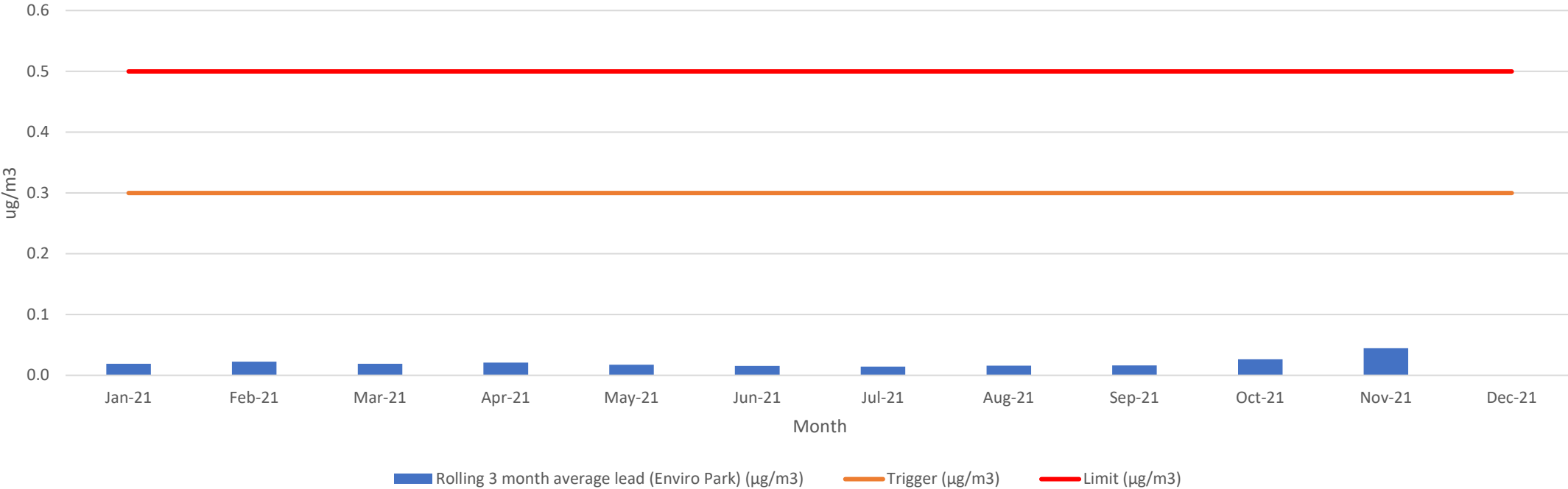
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



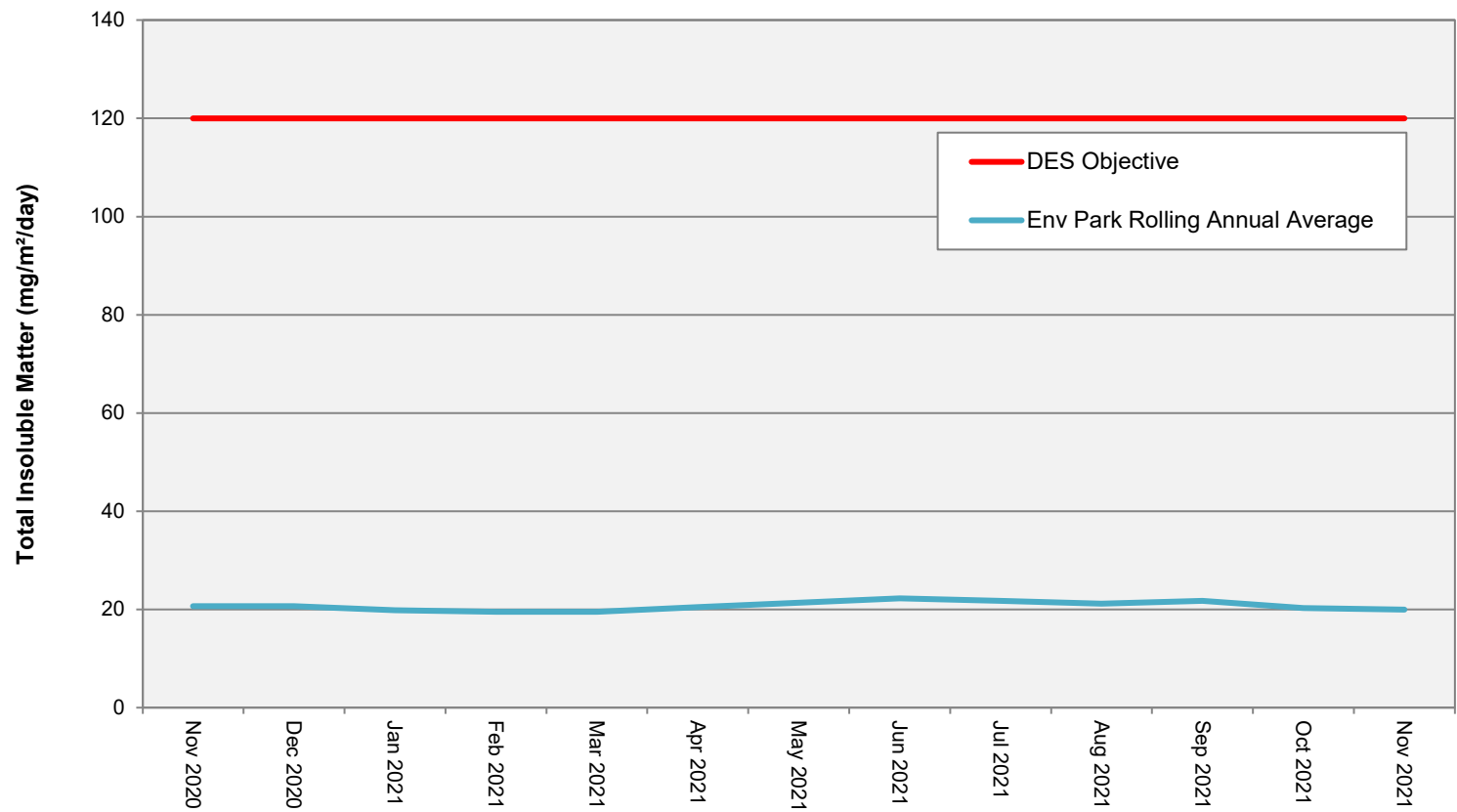
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



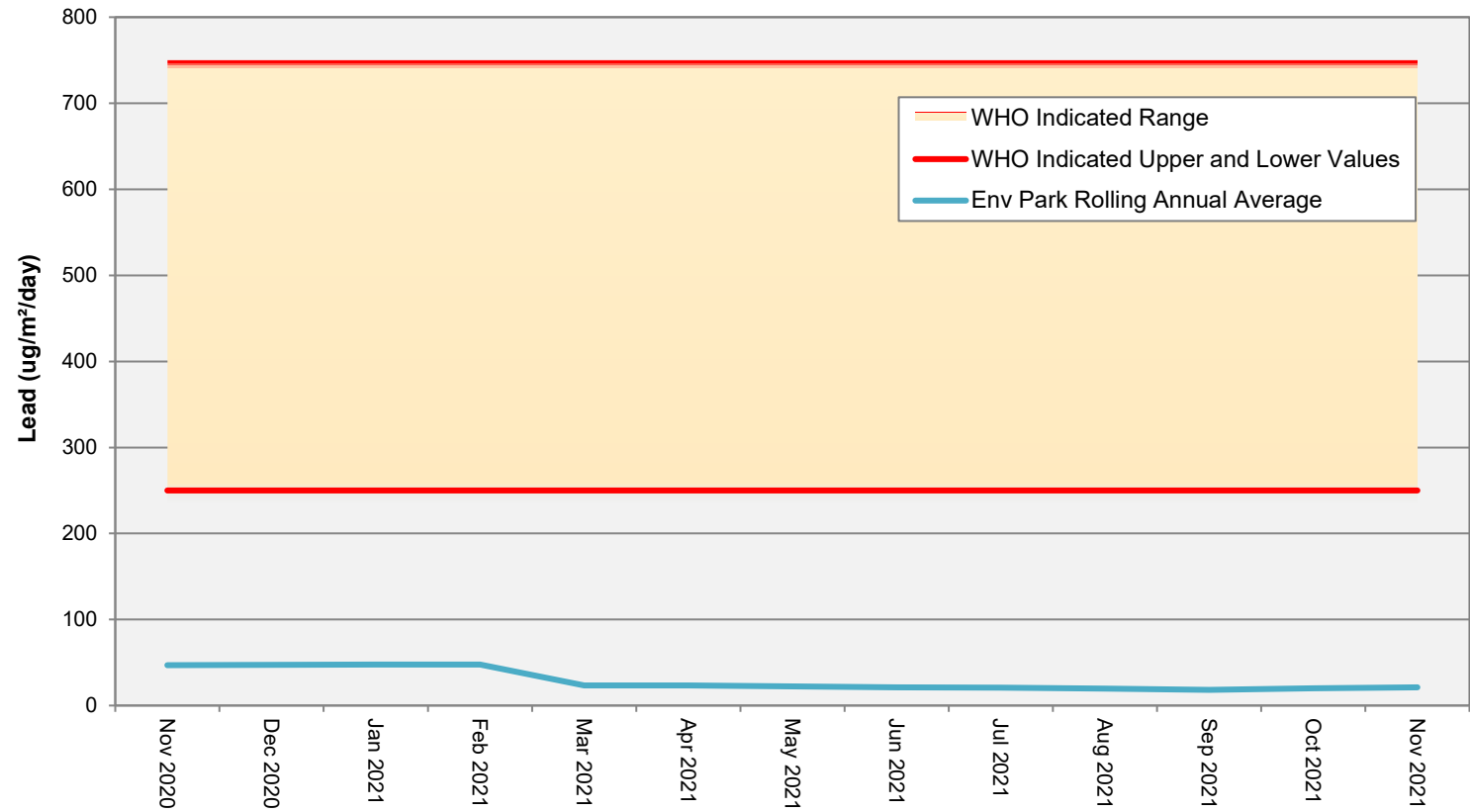
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



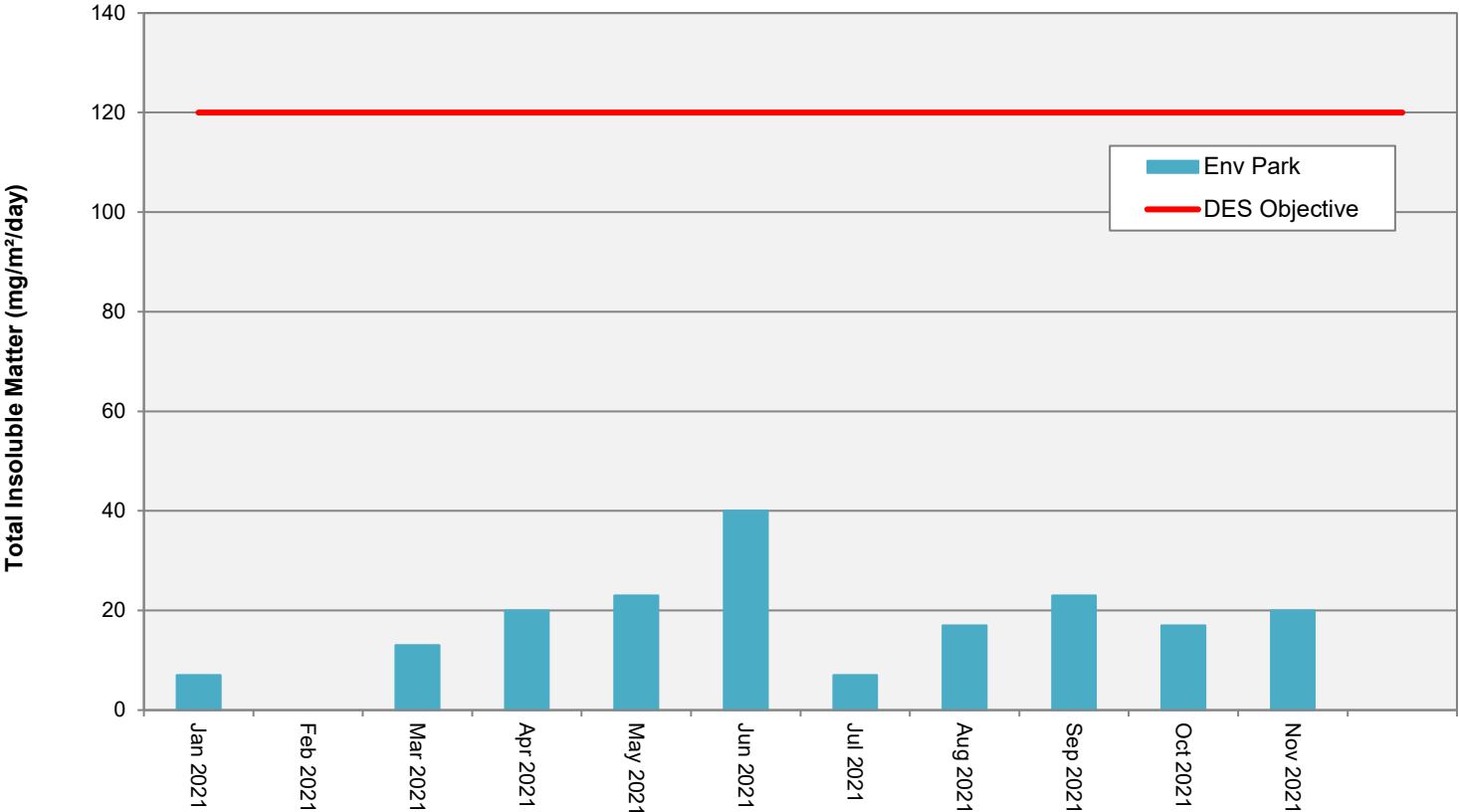
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



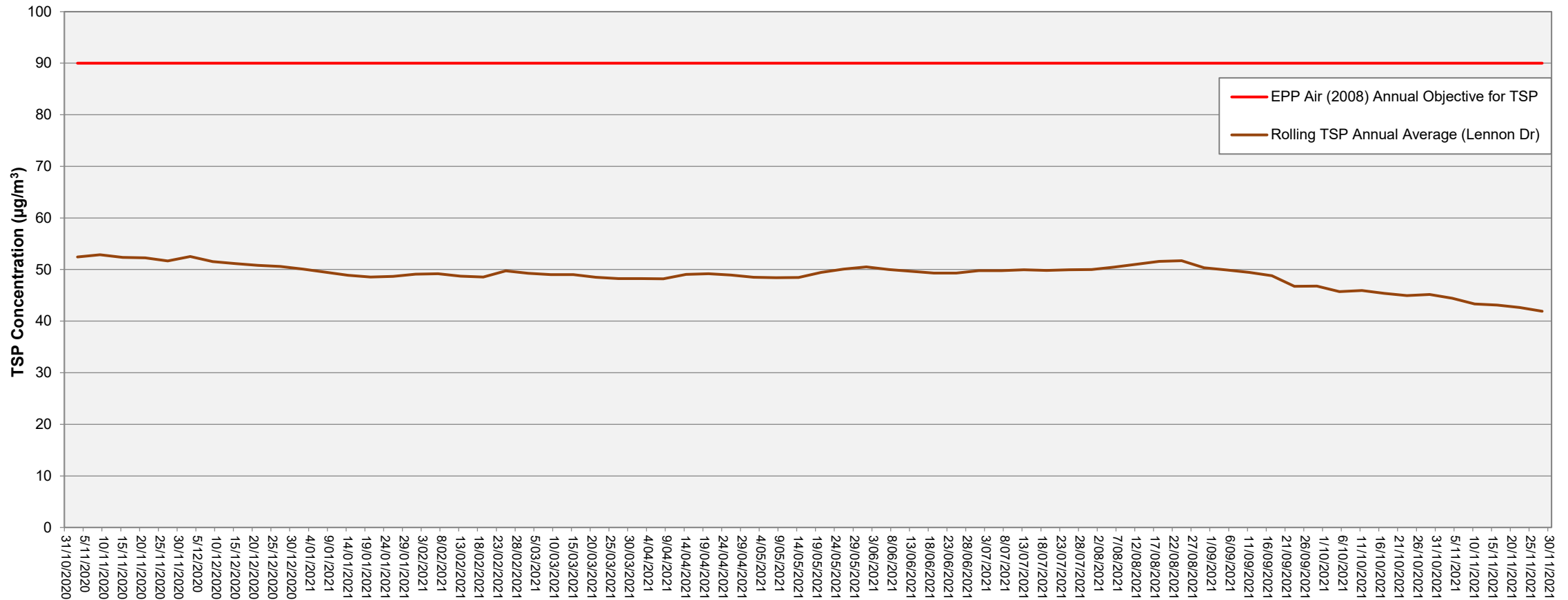
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



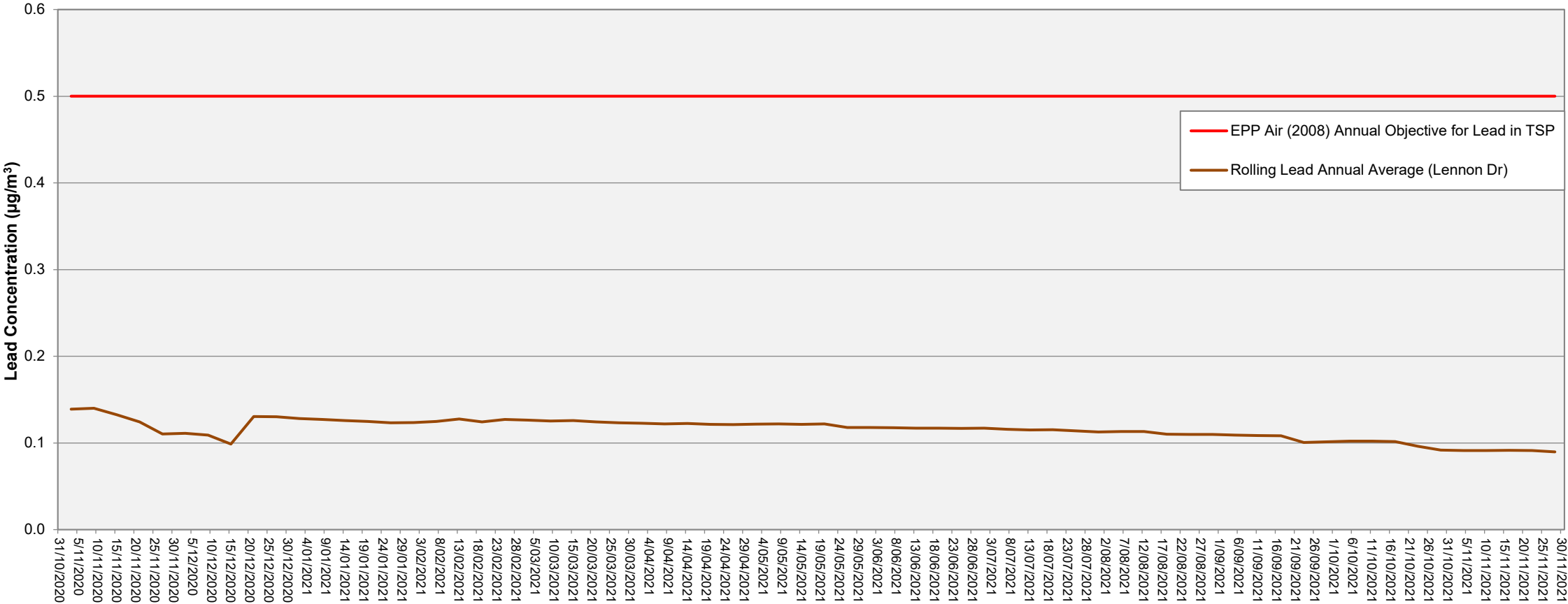
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

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



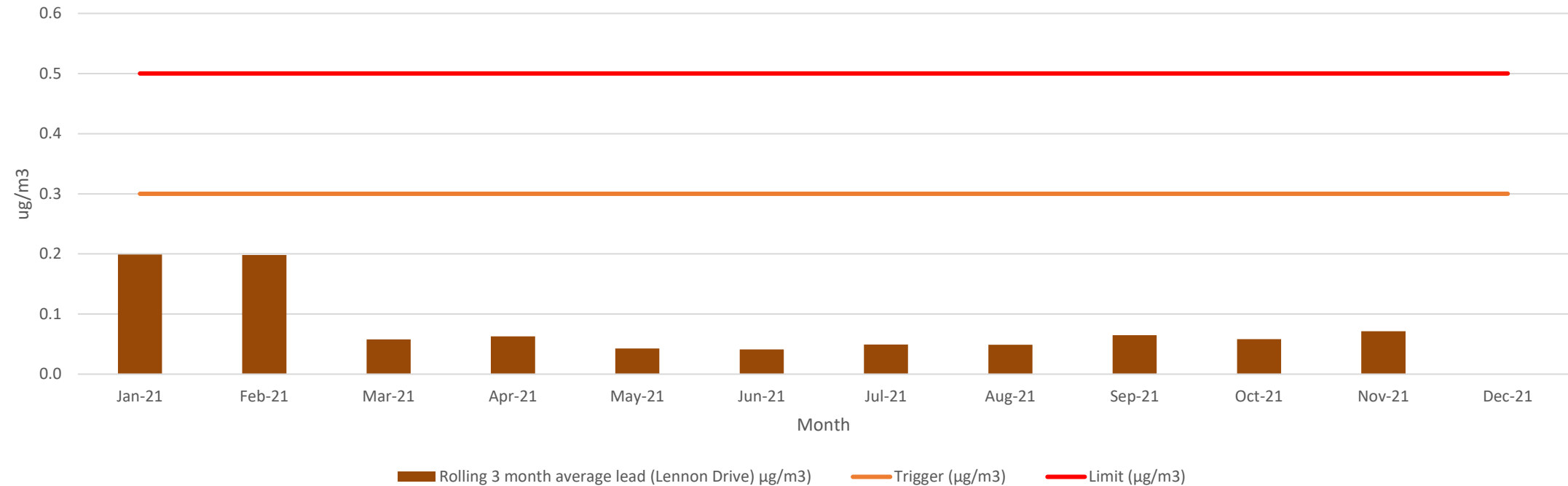
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



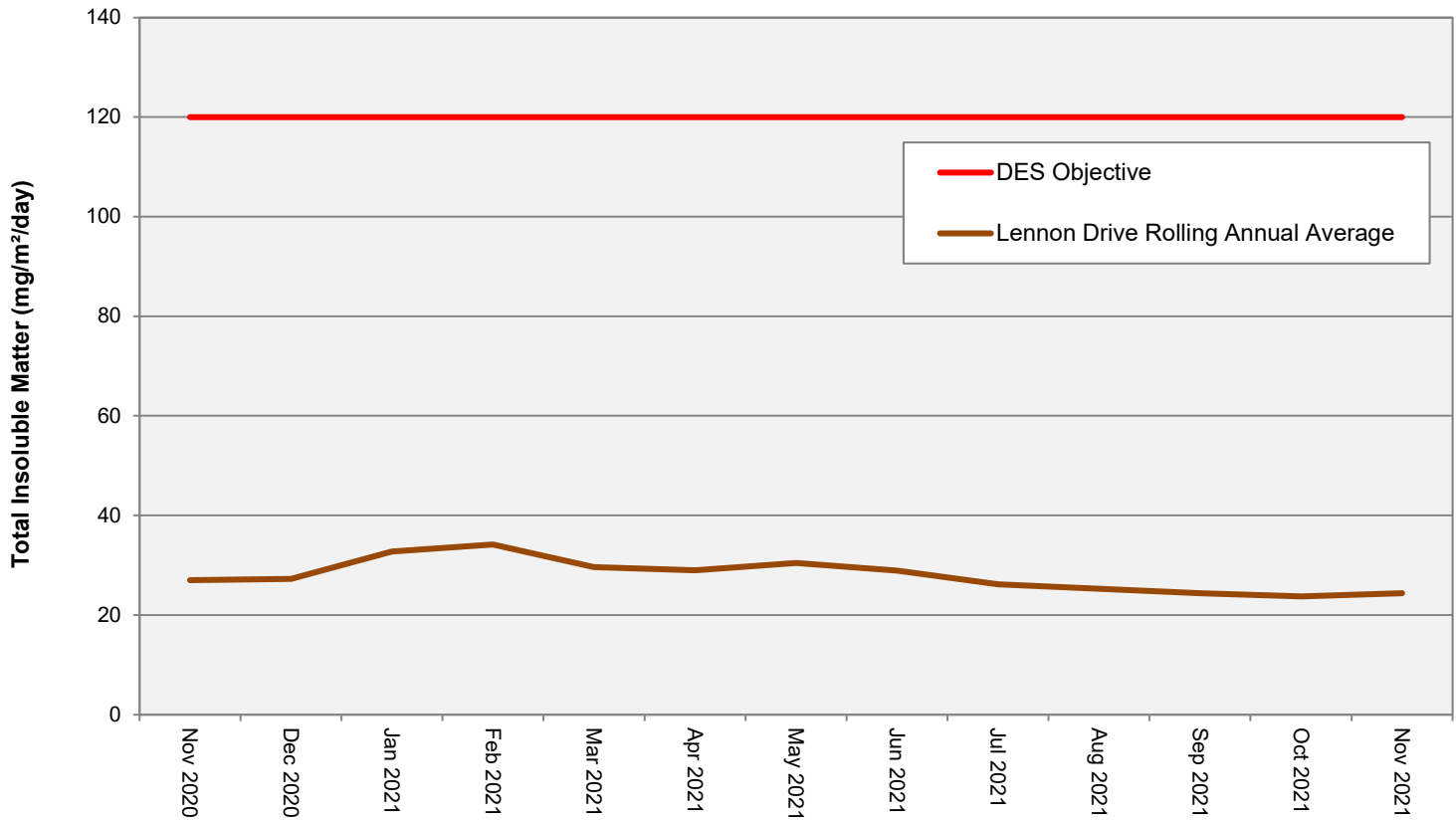
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



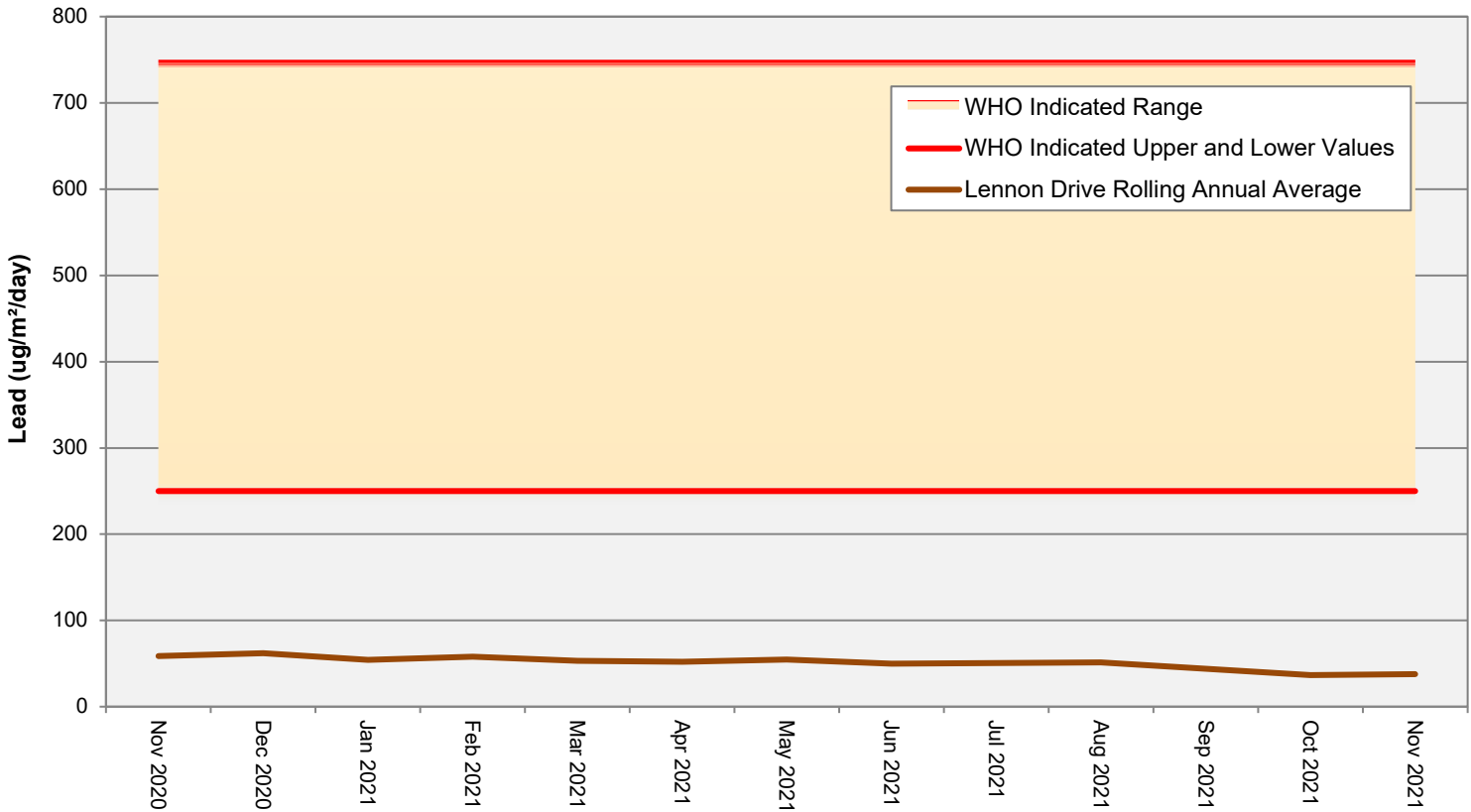
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



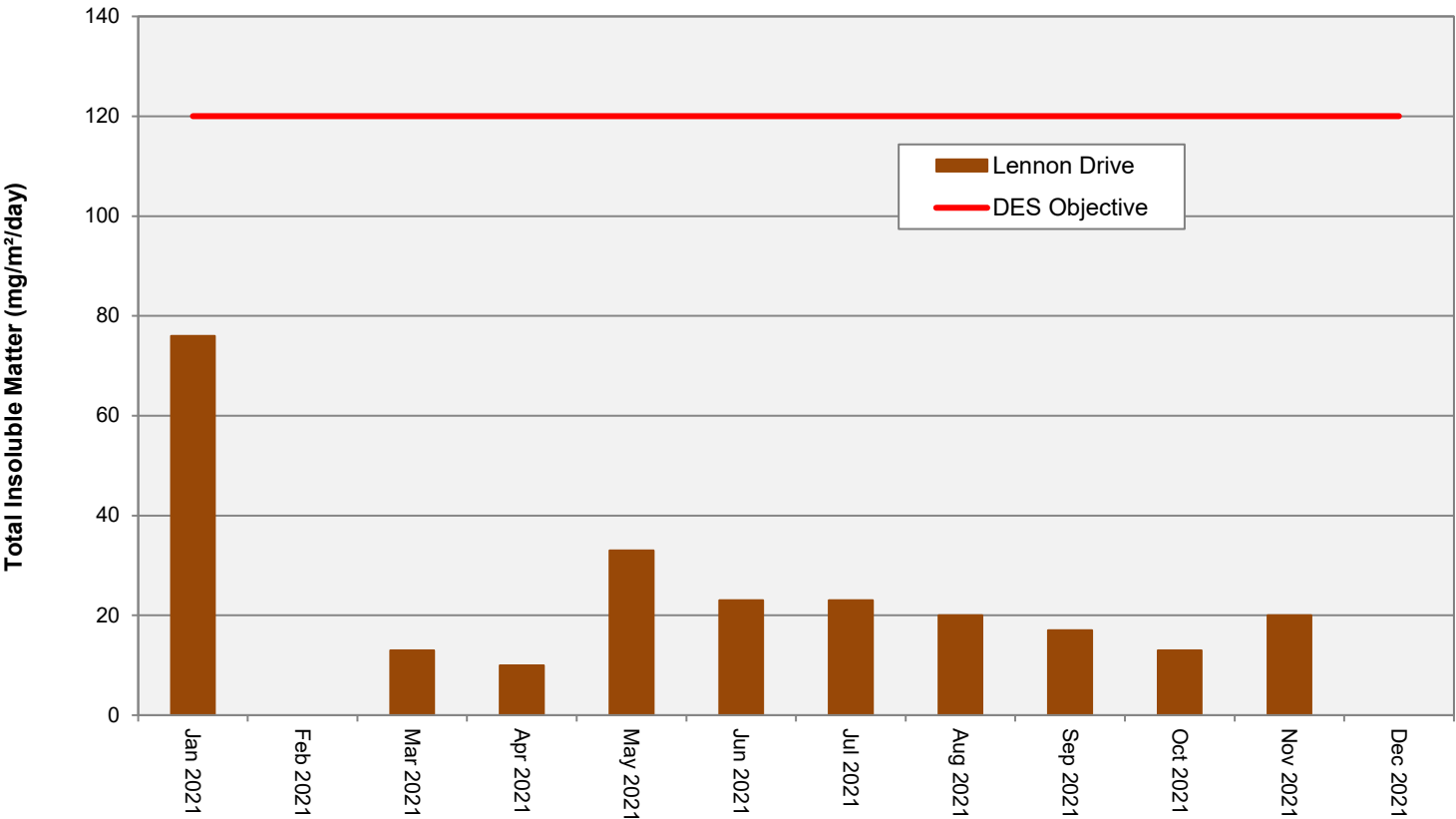
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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