

## Air Quality Dashboard | July | 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

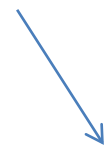
What cargo is  
handled at the  
Townsville  
Port?

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

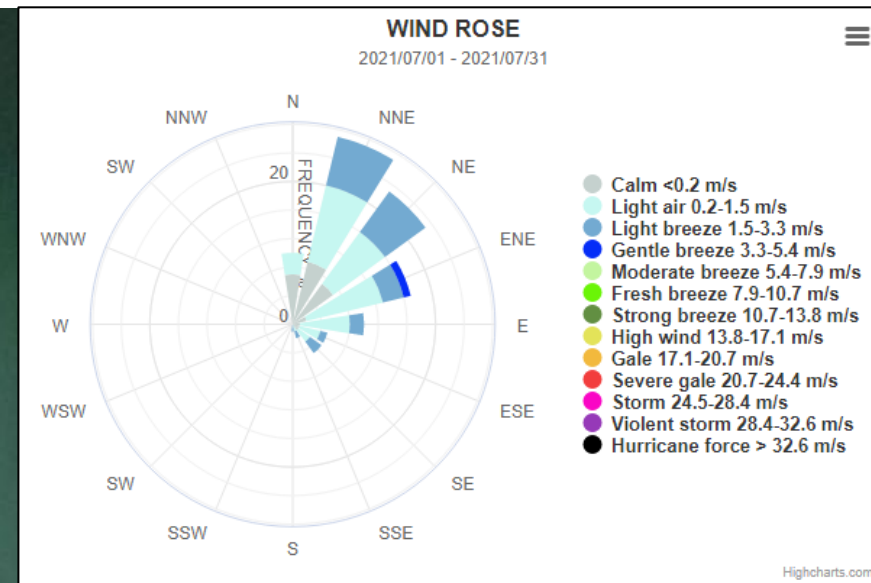
Air Quality  
Bulletin

**Live** Shipping  
Schedule

Rainfall Data -  
BOM

Air Quality  
Monitoring Plan

## Air Quality Monitoring Locations



# Shipping Movements in July 2021

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

Date In/Out	Vessel Name	Cargo	Berth
29 Jun 2021 - 02 Jul 2021	KYOWA ROSE	NIL	3 NTH
29 Jun 2021 - 03 Jul 2021	AFRICAN RAVEN	Copper Concentrates,Sulphur,Fertilizer (IMPORT)	8
30 Jun 2021 - 01 Jul 2021	AUROCHS	Cattle (EXPORT)	3 STH
30 Jun 2021 - 01 Jul 2021	LAE CHIEF	NIL	4
30 Jun 2021 - 02 Jul 2021	PACIFIC INTEGRITY	Sugar (EXPORT)	9
01 Jul 2021 - 04 Jul 2021	WYUNA	Cement (IMPORT)	4
01 Jul 2021 - 08 Jul 2021	ITHACA VISBY	Zinc Concentrates (IMPORT)	10
02 Jul 2021 - 02 Jul 2021	TOKYO TRADER	TBA	3 STH
02 Jul 2021 - 04 Jul 2021	KANSU	Lead Ingots (EXPORT)	3 STH
03 Jul 2021 - 05 Jul 2021	AFRICAN RAVEN	TBA	3 NTH
04 Jul 2021 - 04 Jul 2021	GOLDEN RESOLUTION	Caustic Soda (IMPORT)	4
05 Jul 2021 - 06 Jul 2021	LUCTOR	Fuels (IMPORT)	1
05 Jul 2021 - 08 Jul 2021	MERWEDEGRACHT	Copper Concentrates (EXPORT)	4
06 Jul 2021 - 07 Jul 2021	ELANDRA SEA	Fuels,Fuels (IMPORT)	1
06 Jul 2021 - 09 Jul 2021	NORD EVEREST	Fertilizer (EXPORT)	8
08 Jul 2021 - 09 Jul 2021	DALMACIJA	Fuels (IMPORT)	1
09 Jul 2021 - 10 Jul 2021	STOLT RENGE	Fuels (IMPORT)	1
09 Jul 2021 - 11 Jul 2021	GLOVIS MAPLE	Sugar (EXPORT)	9
09 Jul 2021 - 11 Jul 2021	CONTINENTAL TAIGA	Coke (IMPORT)	10
10 Jul 2021 - 11 Jul 2021	GREYMAN EXPRESS	Cattle,Fodder (EXPORT)	4
10 Jul 2021 - 11 Jul 2021	THERESA MICRONESIA	Molasses (EXPORT)	8
12 Jul 2021 - 12 Jul 2021	LYDDEN	Motor Vehicles (IMPORT)	3 NTH
12 Jul 2021 - 13 Jul 2021	OCEAN SWAGMAN	Cattle (EXPORT)	4
13 Jul 2021 - 13 Jul 2021	WALRUS ACE	Motor Vehicles (IMPORT)	9
13 Jul 2021 - 14 Jul 2021	SN GLORY	Concentrates (EXPORT)	8
13 Jul 2021 - 14 Jul 2021	TS FLOWER	Zinc Concentrates (EXPORT)	3 STH
13 Jul 2021 - 17 Jul 2021	ADF	NIL	10
14 Jul 2021 - 15 Jul 2021	ATLANTIC FAIRY	Sugar (EXPORT)	9
14 Jul 2021 - 15 Jul 2021	JAWAN	Cattle (EXPORT)	3 NTH
14 Jul 2021 - 15 Jul 2021	SUVA CHIEF	NIL	4

Date In/Out	Vessel Name	Cargo	Berth
14 Jul 2021 - 17 Jul 2021	MOONBRIGHT SW	TBA	8
15 Jul 2021 - 15 Jul 2021	HANSA FREYBURG	NIL	3 STH
15 Jul 2021 - 16 Jul 2021	ENERGY ATHENA	Fuels (IMPORT)	1
15 Jul 2021 - 17 Jul 2021	AKUNA	Cement (IMPORT)	4
16 Jul 2021 - 18 Jul 2021	HAFNIA ANDREA	Fuels (IMPORT)	1
16 Jul 2021 - 18 Jul 2021	ADF	TBA	9
16 Jul 2021 - 20 Jul 2021	IVS ORCHARD	Copper Concentrates (IMPORT)	3 STH
17 Jul 2021 - 19 Jul 2021	FLORA DELMAS	NIL	4
18 Jul 2021 - 21 Jul 2021	DANAI	Concentrates (EXPORT)	8
19 Jul 2021 - 19 Jul 2021	GOLDEN LEADER	Fuels,Fuels (IMPORT)	1
19 Jul 2021 - 20 Jul 2021	GOLDEN LEADER	Molasses (EXPORT)	4
20 Jul 2021 - 21 Jul 2021	DAEDALUS LEADER	Motor Vehicles (IMPORT)	10
20 Jul 2021 - 22 Jul 2021	CONTINENTAL TAIGA	Lead Concentrates,Zinc Concentrates (EXPORT)	11
20 Jul 2021 - 22 Jul 2021	GREENERY SEA	Scrap (EXPORT)	9
22 Jul 2021 - 23 Jul 2021	BAUSTELLA	Bitumen (IMPORT)	4
22 Jul 2021 - 23 Jul 2021	MOONBRIGHT SW	TBA	3 STH
22 Jul 2021 - 23 Jul 2021	STI QUEENS	Fuels (IMPORT)	1
23 Jul 2021 - 24 Jul 2021	ADF	TBA	9
23 Jul 2021 - 26 Jul 2021	AFRICAN GOSHAWK	Sulphur,Fertilizer (IMPORT)	10
24 Jul 2021 - 24 Jul 2021	MAERSK CORSICA	Fuels (IMPORT)	1
25 Jul 2021 - 27 Jul 2021	VSC TRITON	Sugar (EXPORT)	9
26 Jul 2021 - 26 Jul 2021	IGUAZU HIGHWAY	Motor Vehicles (IMPORT)	3 NTH
27 Jul 2021 - 28 Jul 2021	STOLT SAKURA	Tallow (EXPORT)	4
27 Jul 2021 - 31 Jul 2021	FEDERAL OAK	Fertilizer (EXPORT)	8
27 Jul 2021 - 31 Jul 2021	CHAMPION TIMUR	Molasses (EXPORT)	9
28 Jul 2021 - 29 Jul 2021	YANGTZE FORTUNE	Cattle,Fodder (EXPORT)	3 STH
28 Jul 2021 - 29 Jul 2021	NOUMEA CHIEF	NIL	4
29 Jul 2021 - 30 Jul 2021	DORIC BREEZE	Fuels (IMPORT)	1
29 Jul 2021 - 31 Jul 2021	MAYSORA	Cattle (EXPORT)	10





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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Visit our website and subscribe here <https://www.townsville-port.com.au/environment-community/community/newsletter-sign-up/>

OR

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

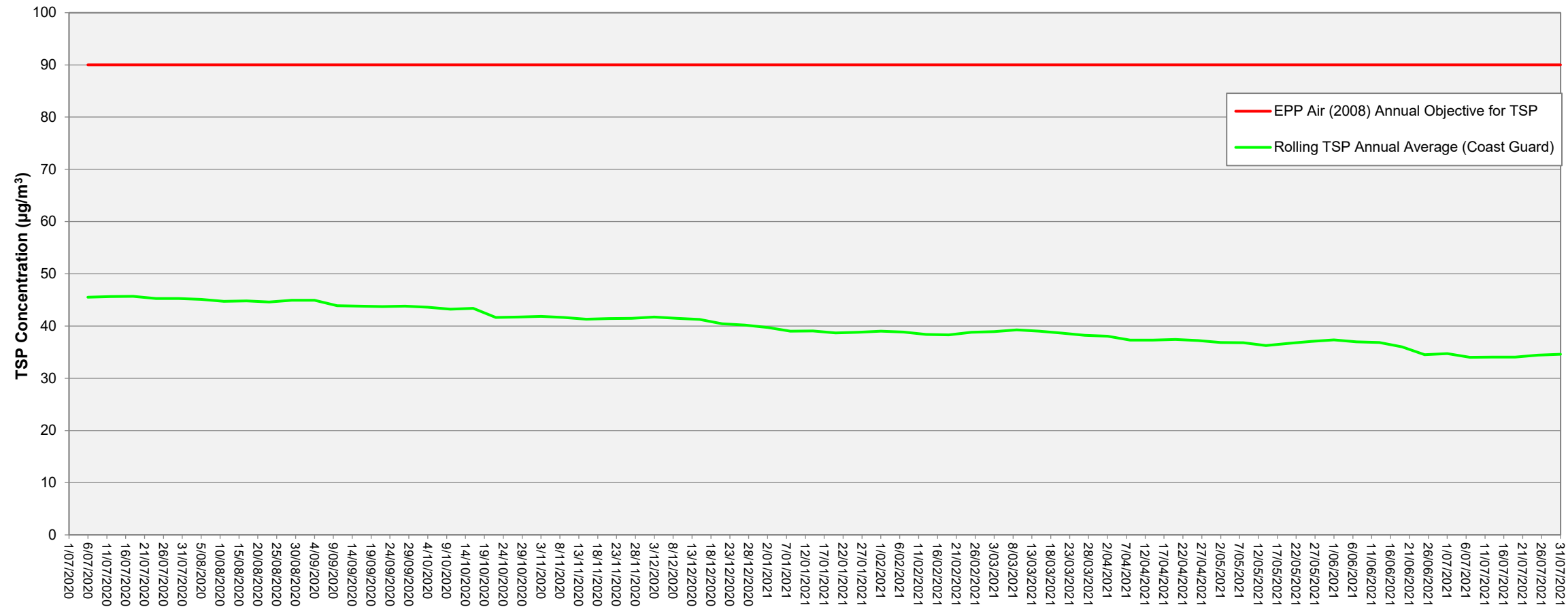
OR

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

## Ask a Question / Provide Feedback

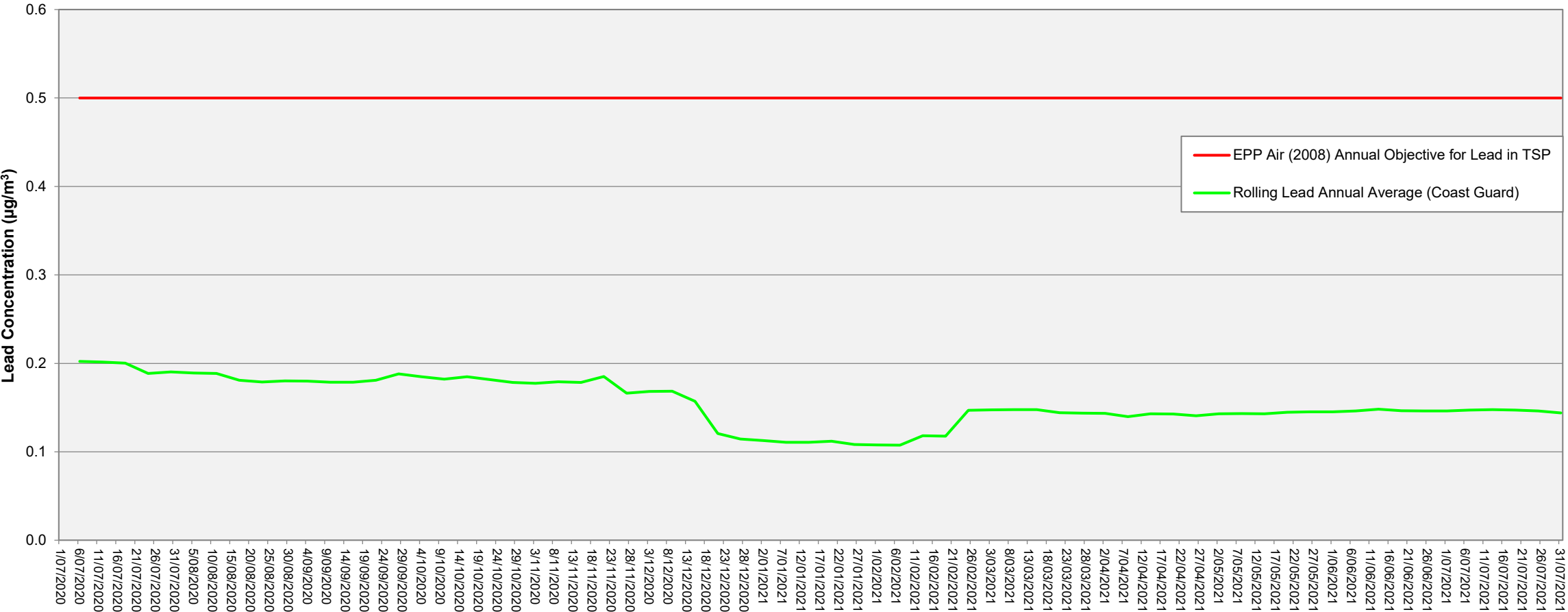
Send your enquiry or feedback to [community@townsvilleport.com.au](mailto:community@townsvilleport.com.au)

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



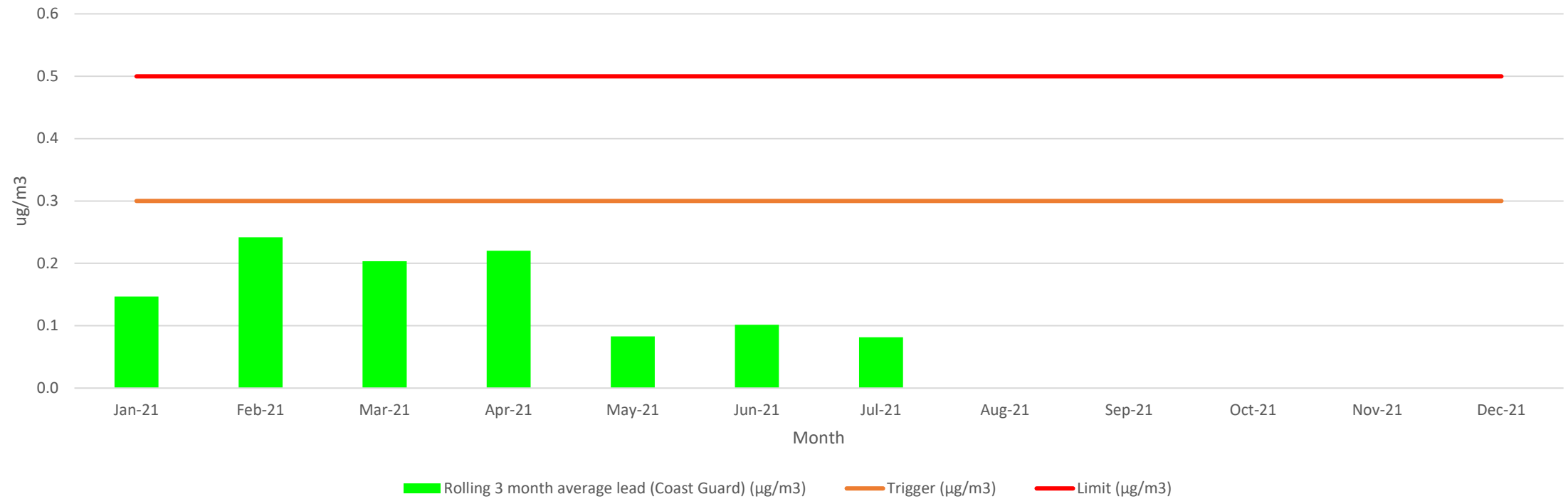
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

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

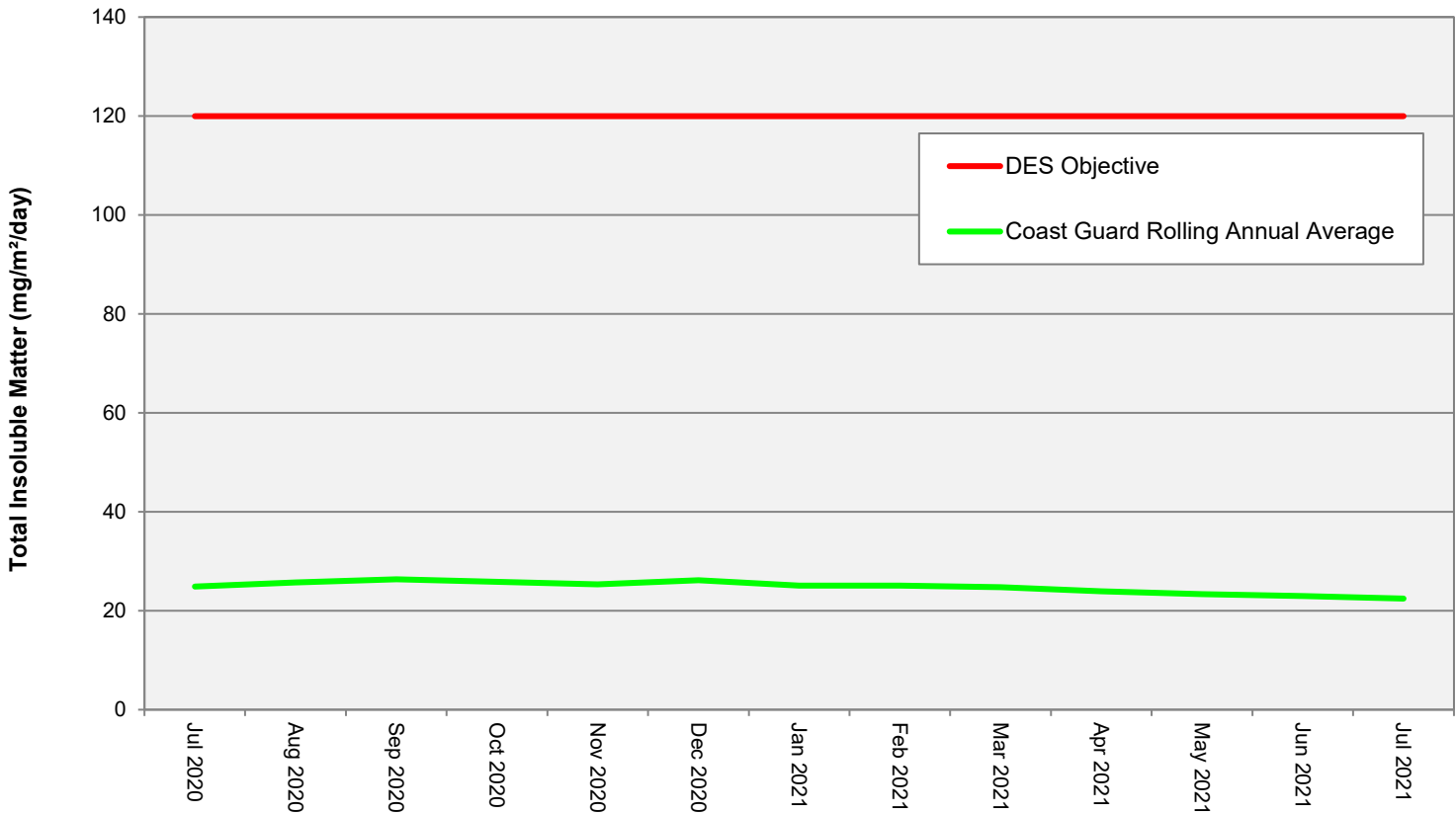
Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site  
2021



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

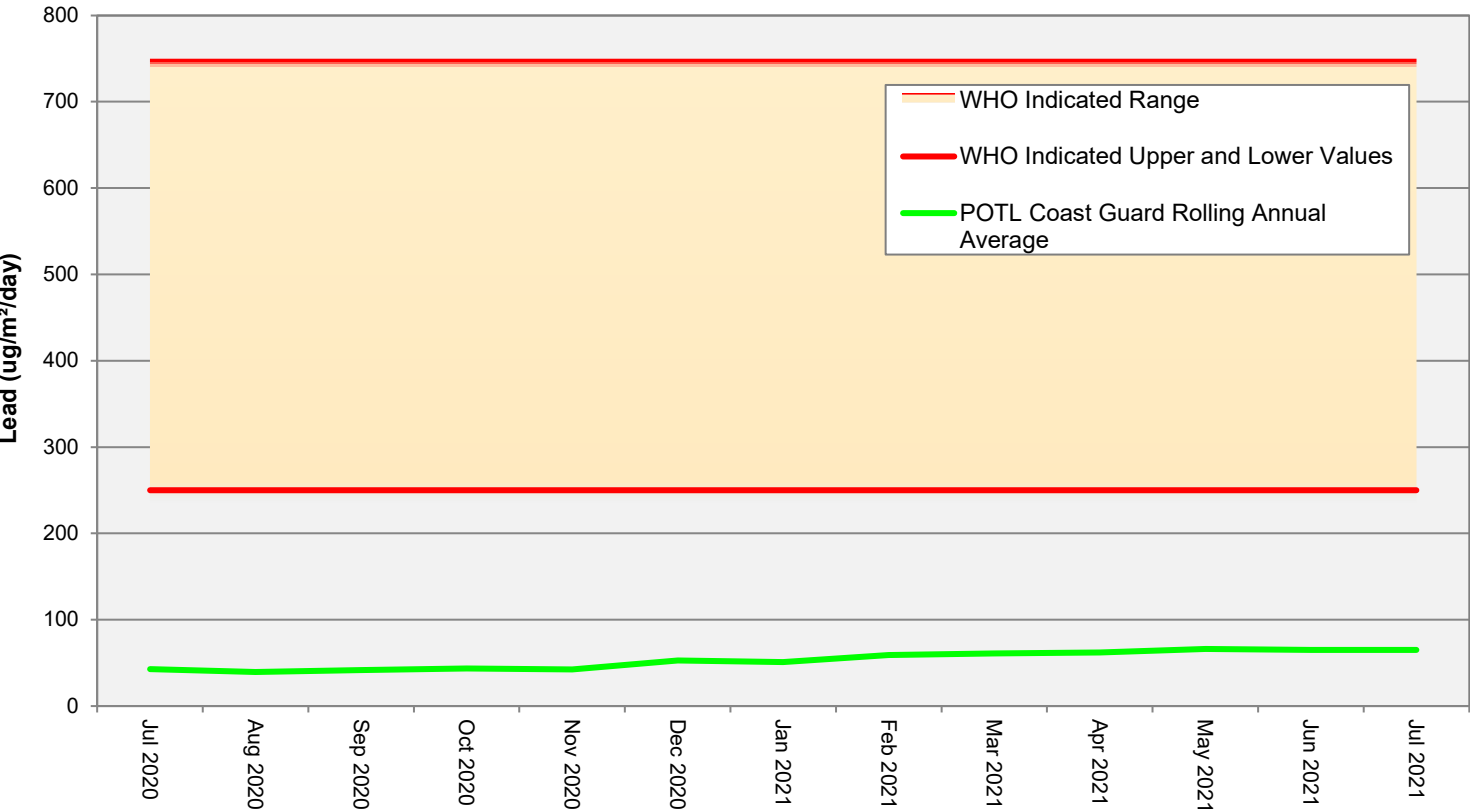


Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site  
JULY 2020 – JULY 2021



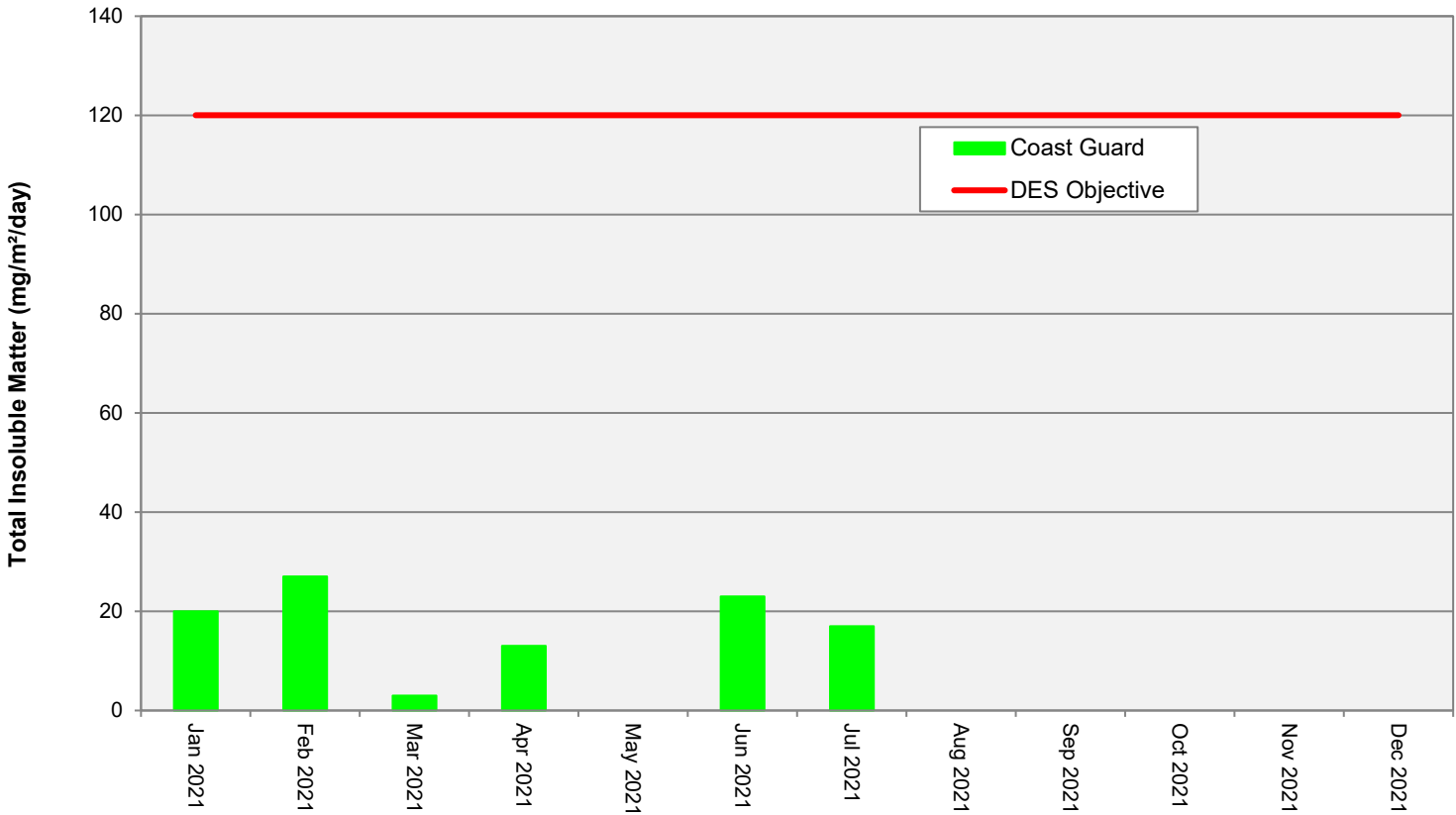
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result

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



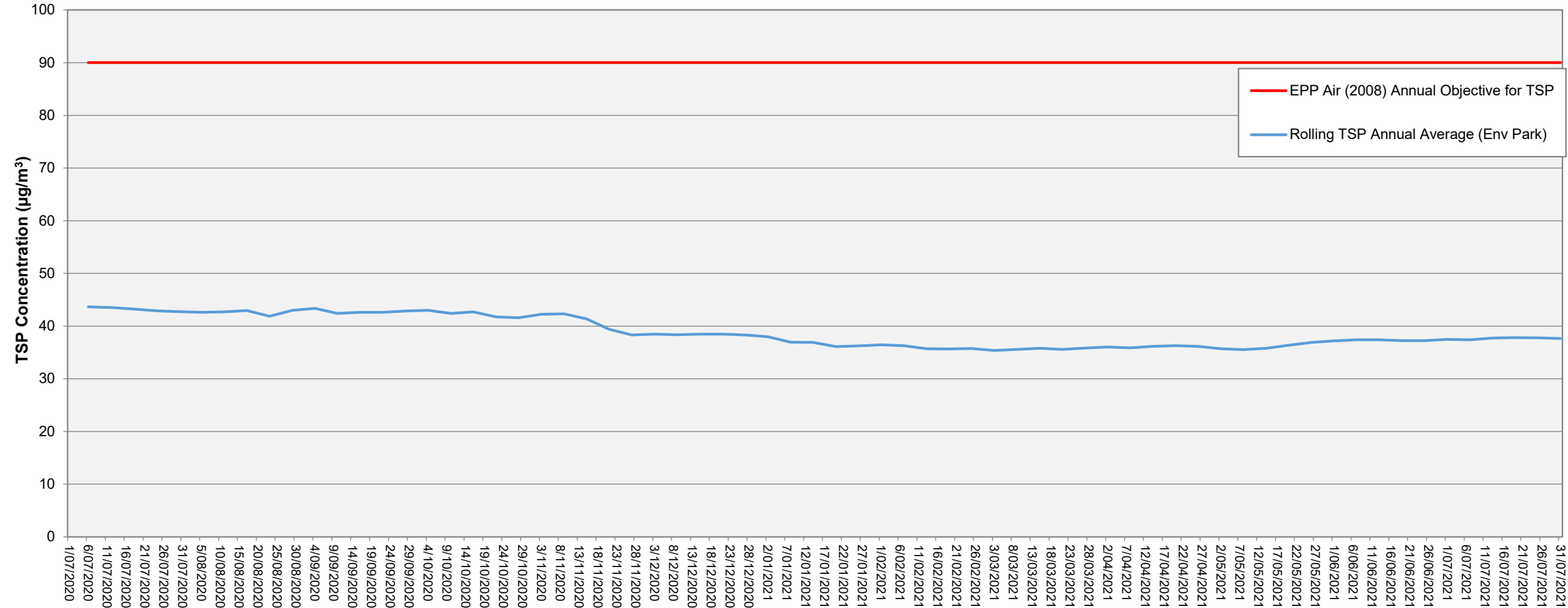
Note: Lead Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result.

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 invalid result. Nil data for display.

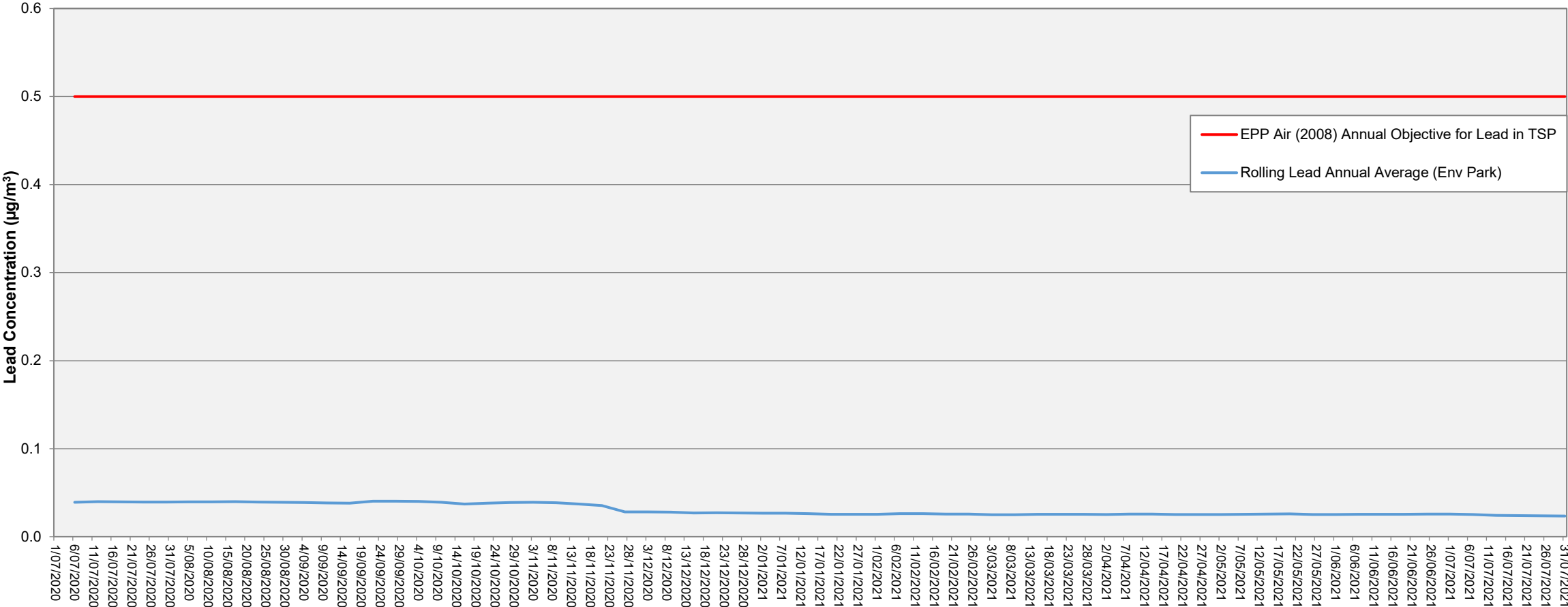
Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site  
JULY 2020 – JULY 2021



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

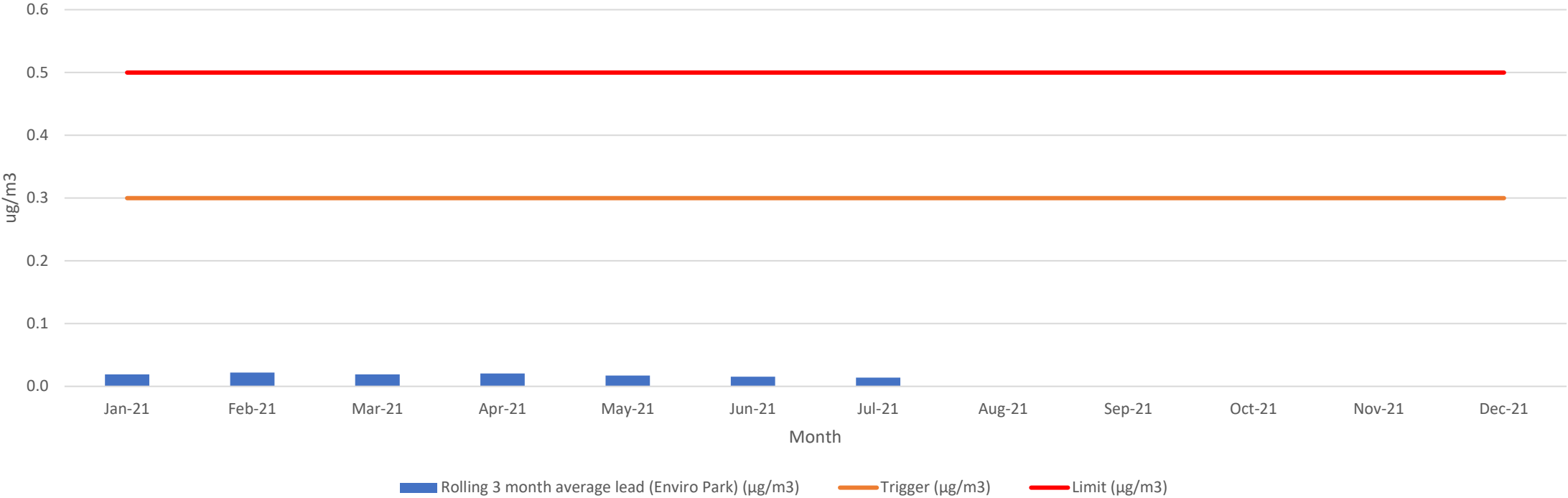


Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site  
JULY 2020 – JULY 2021



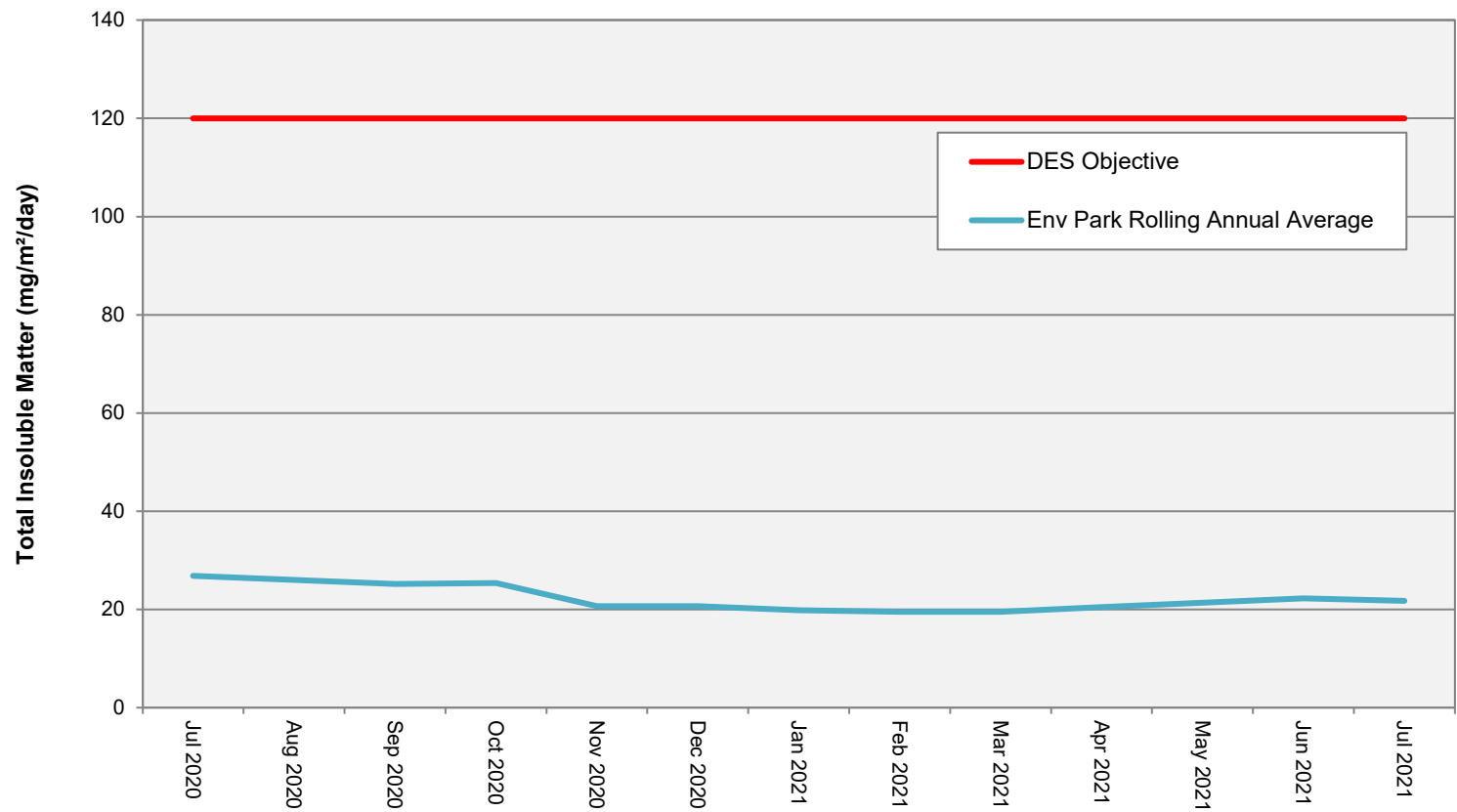
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

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



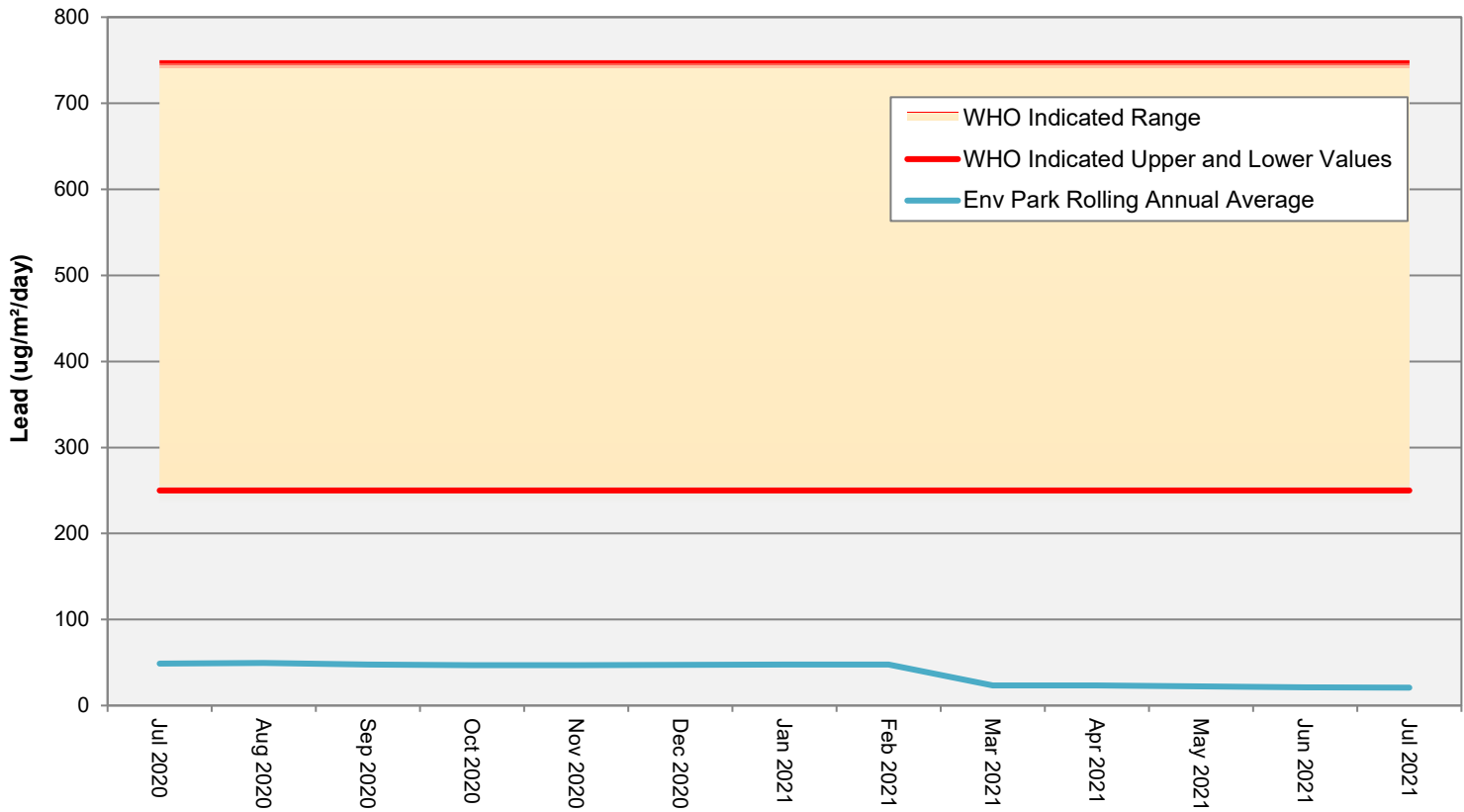
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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

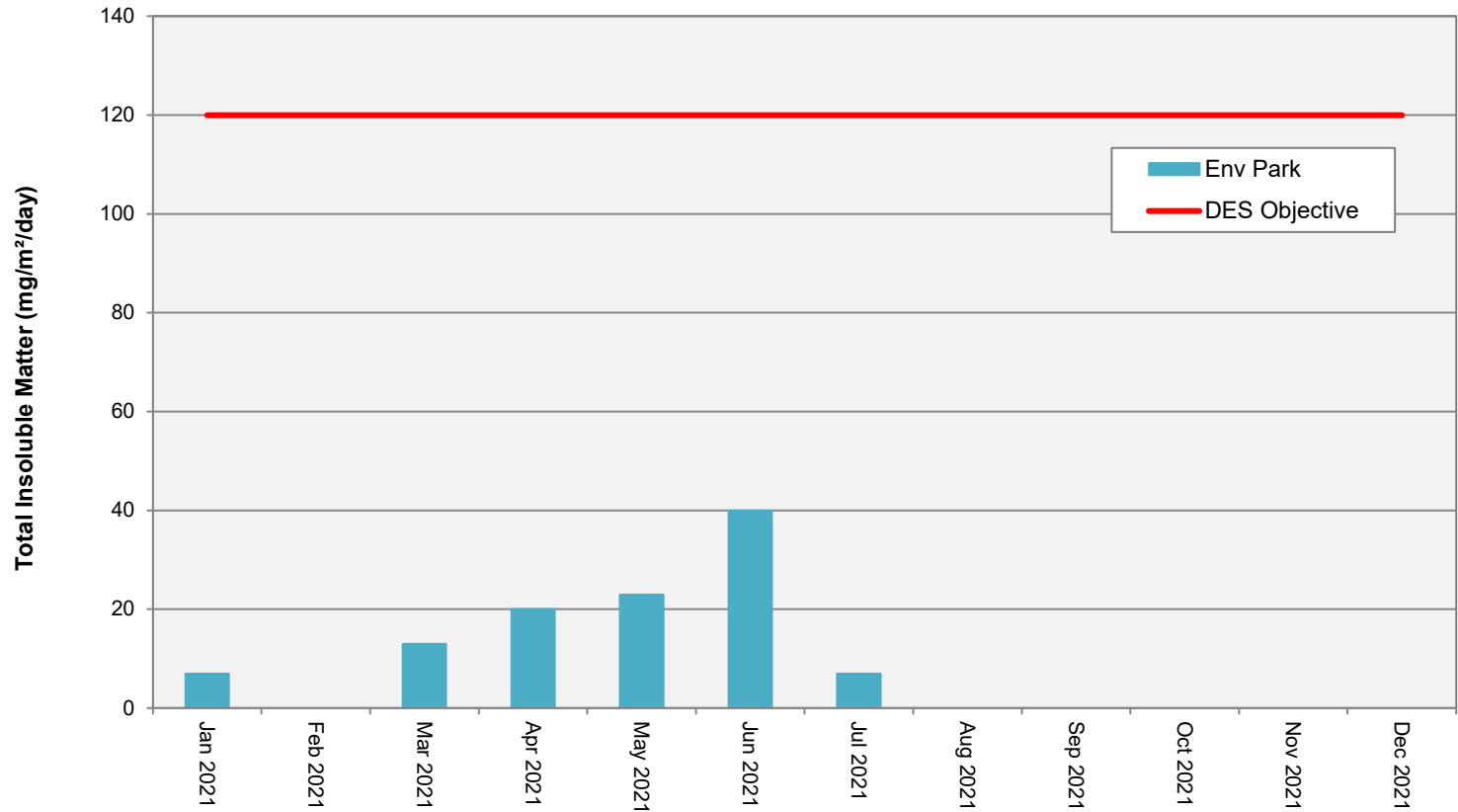
Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site  
JULY 2020 – JULY 2021



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



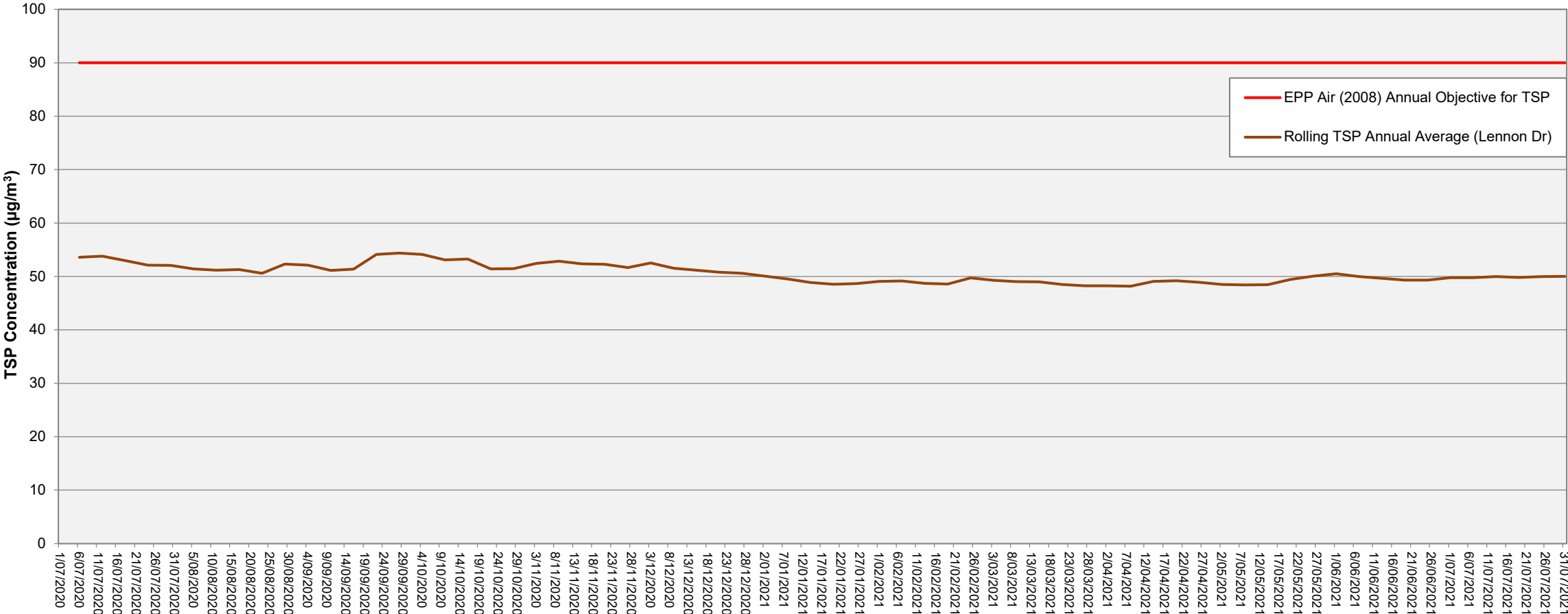
Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site  
2021



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

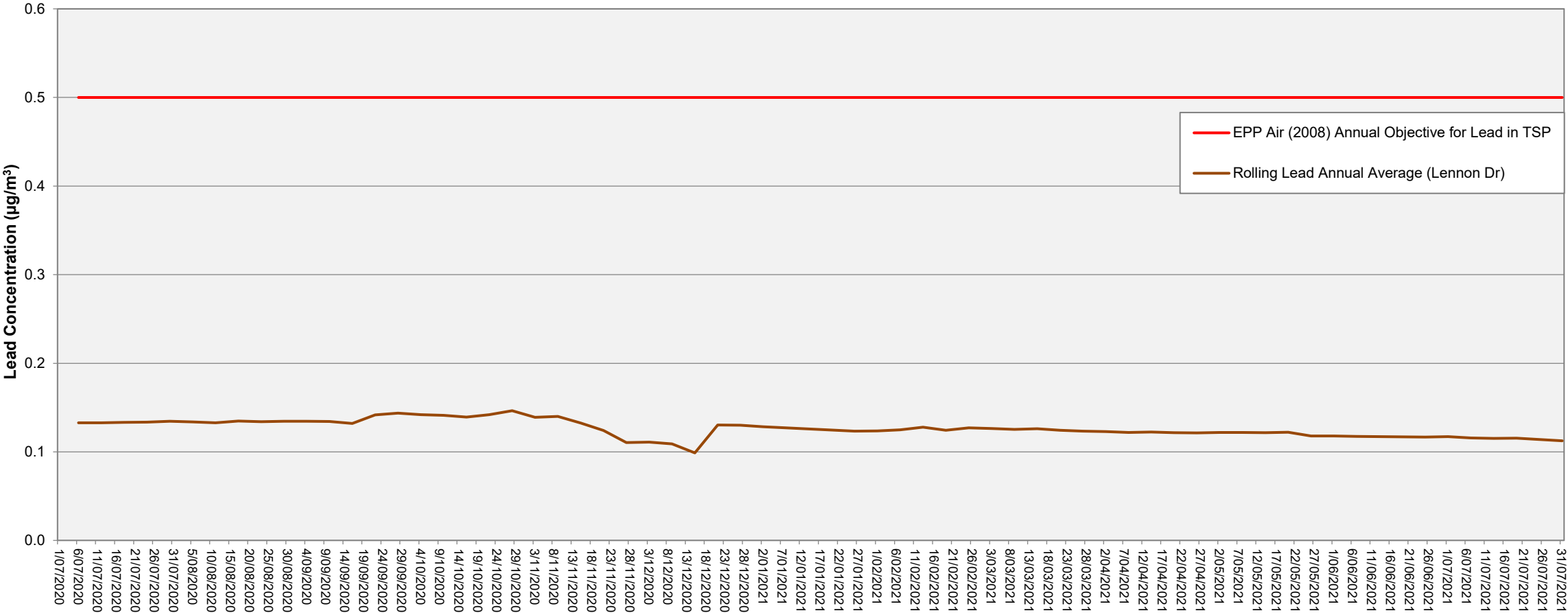
^February 2021 dust bottle damaged in transit. Nil data for display.

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



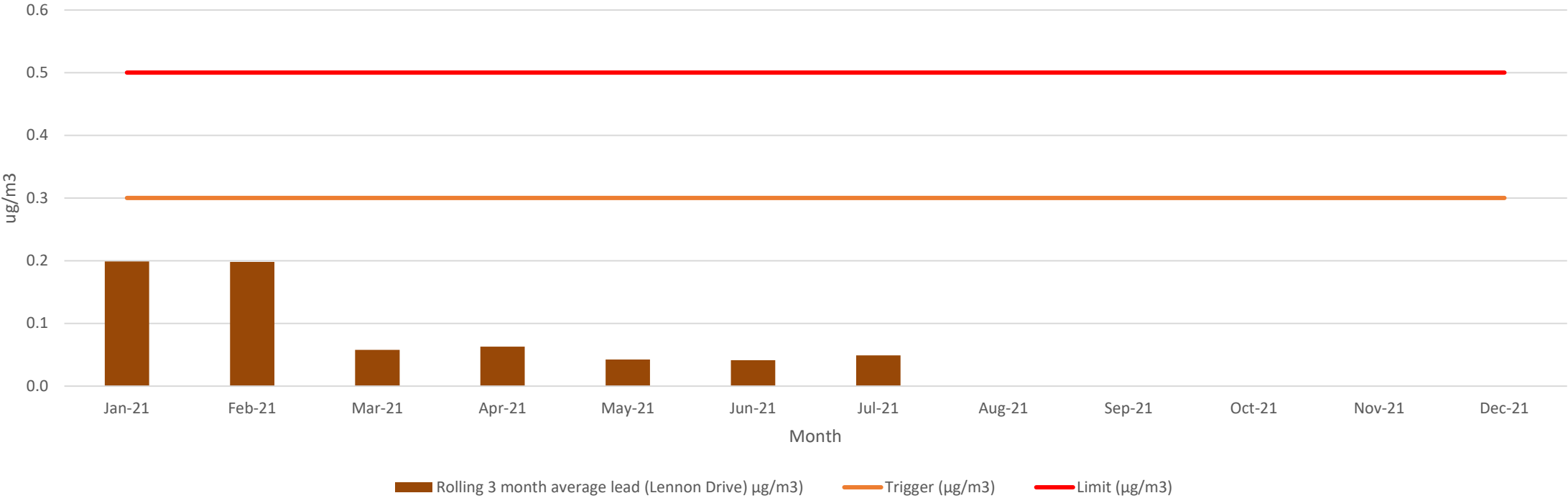
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

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

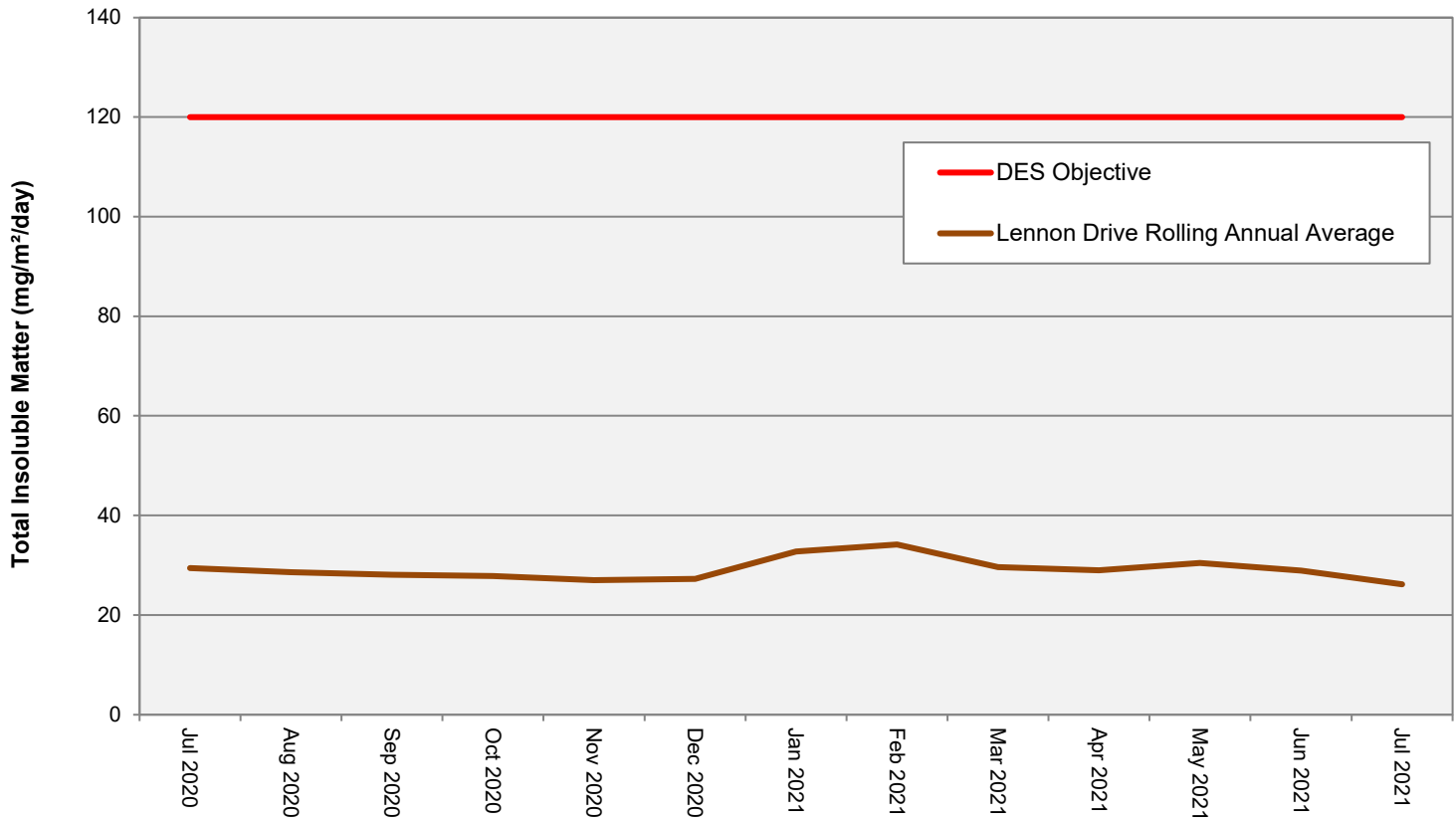
Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site  
2021



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

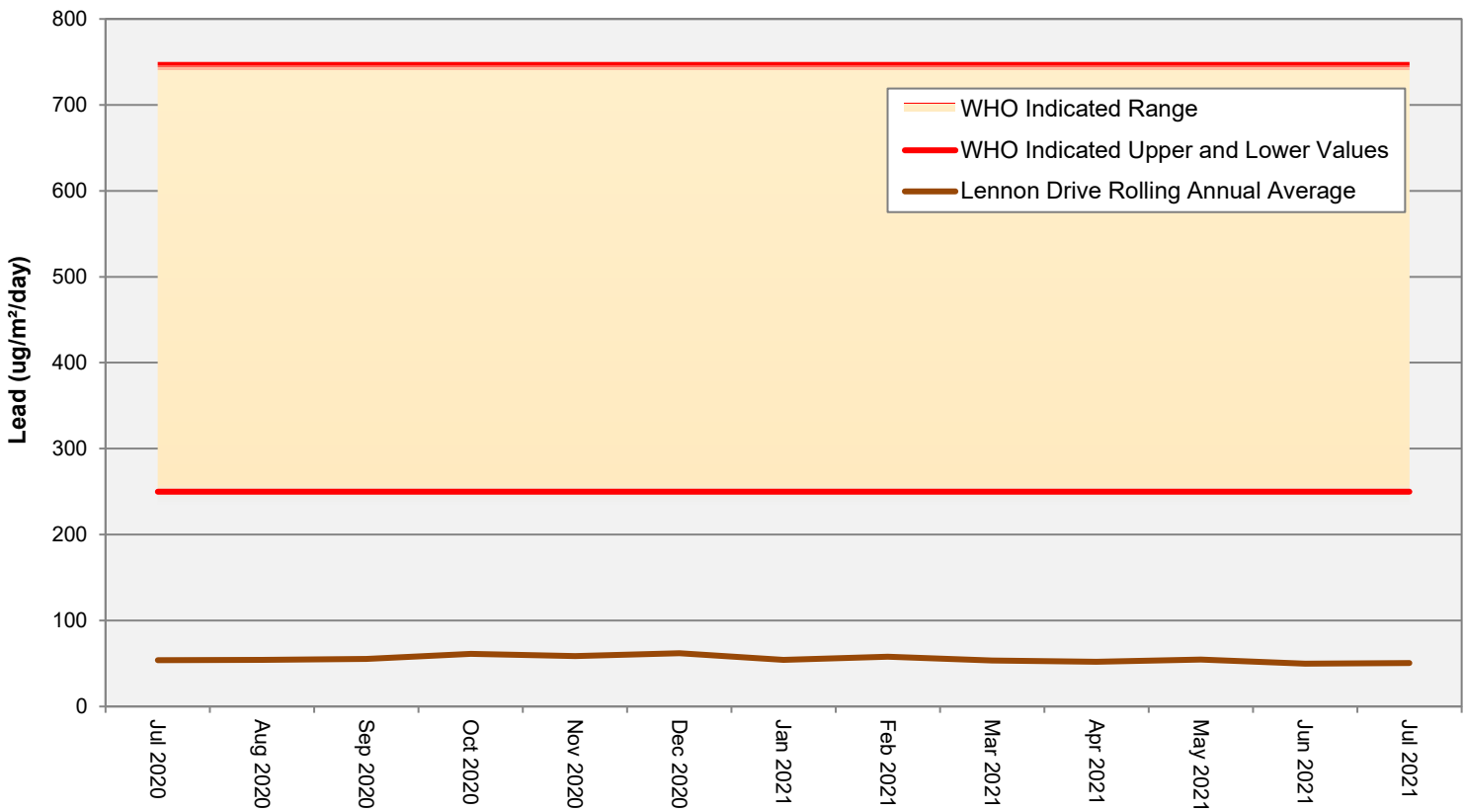


Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site  
JULY 2020 – JULY 2021



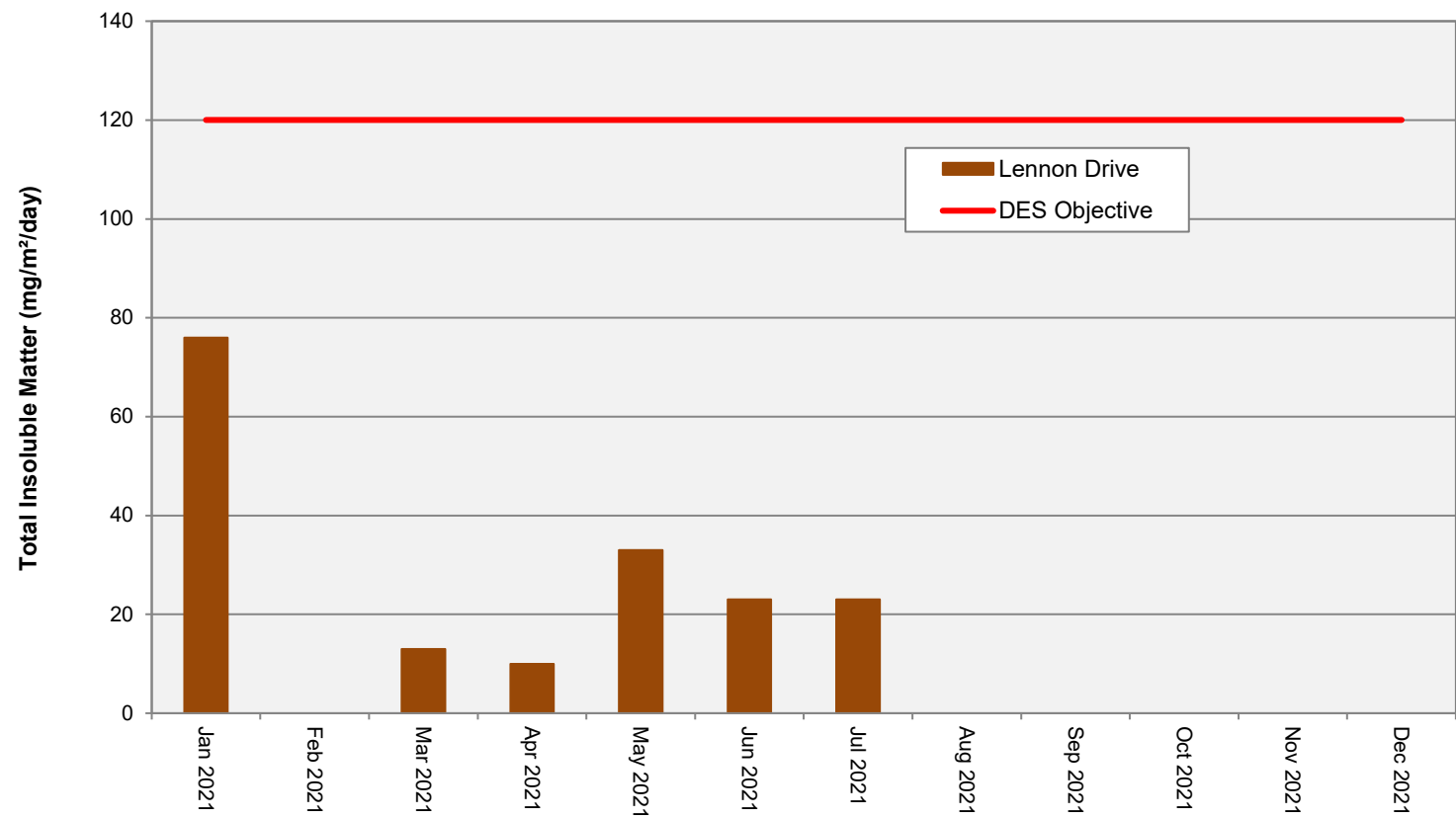
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result

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