

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

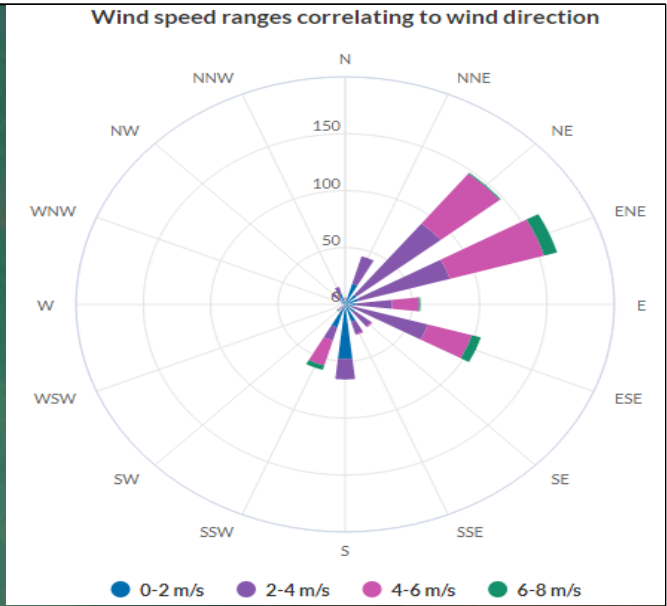
Air Quality Bulletin

Live Shipping Schedule

Rainfall Data - BOM

Air Quality Monitoring Plan

Air Quality Monitoring Locations



Shipping Movements in September 2022

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Date In/Out	Vessel Name	Cargo	Berth
27 Aug 2022 - 03 Sep 2022	YANGTZE SPIRIT	CONCENTRATES (EXPORT)	11
31 Aug 2022 - 01 Sep 2022	ARUNA ECE	LEAD INGOTS (EXPORT)	3 STH
31 Aug 2022 - 01 Sep 2022	LAUTOKA CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
31 Aug 2022 - 01 Sep 2022	LOTSTELLA	BITUMEN (IMPORT)	1
01 Sep 2022 - 02 Sep 2022	ATLANTIC INFINITY	FUELS (IMPORT)	1
01 Sep 2022 - 05 Sep 2022	ROYAL JADE	FERTILIZER (EXPORT)	8
02 Sep 2022 - 03 Sep 2022	SOFRANA TOURVILLE	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 NTH
03 Sep 2022 - 05 Sep 2022	THERESA MICRONESIA	MOLASSES (EXPORT)	9
04 Sep 2022 - 04 Sep 2022	GIROLANDO EXPRESS	CATTLE (EXPORT)	4
04 Sep 2022 - 07 Sep 2022	MARIA 1921	ZINC FERRITES (EXPORT)	3 STH
04 Sep 2022 - 05 Sep 2022	HIGH MARS	FUELS (IMPORT)	1
05 Sep 2022 - 05 Sep 2022	POLARIS HIGHWAY	MOTOR VEHICLES (IMPORT)	4
05 Sep 2022 - 07 Sep 2022	ALAM SERI	UREA (IMPORT)	10
05 Sep 2022 - 05 Sep 2022	POLARIS HIGHWAY	MOTOR VEHICLES (IMPORT)	4
05 Sep 2022 - 07 Sep 2022	ALAM SERI	UREA (IMPORT)	10
05 Sep 2022 - 07 Sep 2022	BBC PLATA	GENERAL/BREAK BULK (IMPORT)	4
06 Sep 2022 - 07 Sep 2022	ADF		8
06 Sep 2022 - 08 Sep 2022	EIDSVAAG OMEGA	GENERAL CARGO (IMPORT)	9
08 Sep 2022 - 11 Sep 2022	PAULA TRADER	ZINC INGOTS (EXPORT)	10
08 Sep 2022 - 09 Sep 2022	NINE EAGLE	CATTLE (EXPORT)	3 STH
09 Sep 2022 - 11 Sep 2022	KONDILI	CEMENT (IMPORT)	4
09 Sep 2022 - 10 Sep 2022	TOKYO TRADER	CONTAINERS (IMPORT)	3 STH
10 Sep 2022 - 11 Sep 2022	FLAGSHIP VIOLET	FUELS (IMPORT)	1
11 Sep 2022 - 11 Sep 2022	PRESTIGE ACE	MOTOR VEHICLES (IMPORT)	9
11 Sep 2022 - 13 Sep 2022	OCEAN UTE	FODDER (EXPORT)	3 NTH
12 Sep 2022 - 14 Sep 2022	CSC AUSPICIOUS	FUELS (IMPORT)	1
13 Sep 2022 - 13 Sep 2022	BRISBANE		9
14 Sep 2022 - 15 Sep 2022	SUVA CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
14 Sep 2022 - 16 Sep 2022	ANL KOKODA	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 STH
14 Sep 2022 - 15 Sep 2022	DANCEWOOD SW	CONCENTRATES (EXPORT)	8
15 Sep 2022 - 16 Sep 2022	ADF	ARMY EQUIPMENT (EXPORT)	10
15 Sep 2022 - 15 Sep 2022	BRISBANE		9
16 Sep 2022 - 17 Sep 2022	KEN UN	SUGAR (EXPORT)	9
16 Sep 2022 - 17 Sep 2022	KEN VOYAGER	ZINC CONCENTRATES (EXPORT)	3 NTH
16 Sep 2022 - 17 Sep 2022	GELBRAY EXPRESS	CATTLE (EXPORT)	10
16 Sep 2022 - 19 Sep 2022	PAN NOVA	FERTILIZER (IMPORT)	4
16 Sep 2022 - 20 Sep 2022	AAL SINGAPORE	METAL PIPES (IMPORT)	3 STH
17 Sep 2022 - 20 Sep 2022	LOWLANDS AMSTEL	FERTILIZER (EXPORT)	8
17 Sep 2022 - 18 Sep 2022	ERIDANUS LEADER	MOTOR VEHICLES (IMPORT)	10

Date In/Out	Vessel Name	Cargo	Berth
19 Sep 2022 - 19 Sep 2022	IGUAZU HIGHWAY	MOTOR VEHICLES (IMPORT)	10
19 Sep 2022 - 20 Sep 2022	THERESA MICRONESIA	MOLASSES (EXPORT)	9
19 Sep 2022 - 19 Sep 2022	BAUSTELLA	BITUMEN (IMPORT)	4
20 Sep 2022 - 21 Sep 2022	WYUNA	CEMENT (IMPORT)	4
21 Sep 2022 - 24 Sep 2022	PENGHU SW	SCRAP (EXPORT)	8
21 Sep 2022 - 22 Sep 2022	DAIWAN JUSTICE	SUGAR (EXPORT)	9
22 Sep 2022 - 23 Sep 2022	ANGELINA THE GREAT N	CONCENTRATES (EXPORT)	4
22 Sep 2022 - 24 Sep 2022	SEA SMILE	CONCENTRATES (EXPORT)	3 STH
23 Sep 2022 - 25 Sep 2022	NORD AGANO	SUGAR (EXPORT)	9
23 Sep 2022 - 24 Sep 2022	ADF		3 NTH
23 Sep 2022 - 24 Sep 2022	ADF		10
23 Sep 2022 - 24 Sep 2022	NORD OCEANIA	FUELS (IMPORT)	1
23 Sep 2022 - 27 Sep 2022	ANGELINA THE GREAT N	CONCENTRATES (EXPORT)	11
24 Sep 2022 - 28 Sep 2022	ELEGANT SW	UREA (IMPORT)	10
25 Sep 2022 - 27 Sep 2022	SOLAR AFRICA	SUGAR (EXPORT)	9
27 Sep 2022 - 28 Sep 2022	THERESA ORION	MOLASSES (EXPORT)	9
28 Sep 2022 - 30 Sep 2022	FLORA DELMAS	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 STH
29 Sep 2022 - 29 Sep 2022	BRISBANE		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 2020-21, the Port of Townsville delivered strong financial results and continued to roll-out major infrastructure investments despite the impacts of the ongoing global pandemic, COVID-19. In a year where supply chains across the world have been tested, a total of 7.7 million tonnes of freight passed over our wharves, which was a 6.3 per cent decrease on last year. With a focus on cost management, the Port also reported a \$14.33 million net profit for 2020/21, 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 (down 8.14%), fertiliser (up 9.7%) and livestock (down 6%). Townsville is the number one port in Australia for copper, zinc, lead and sugar exports and services 75% 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

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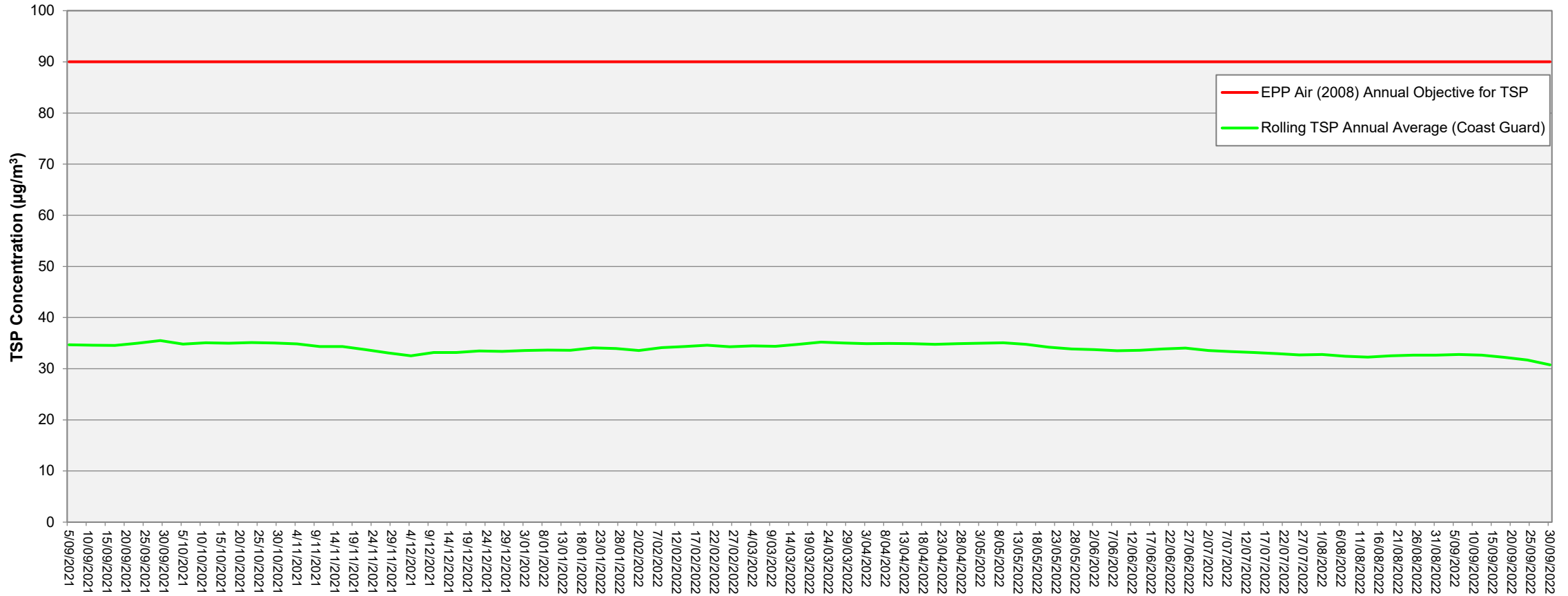
OR

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

Ask a Question / Provide Feedback

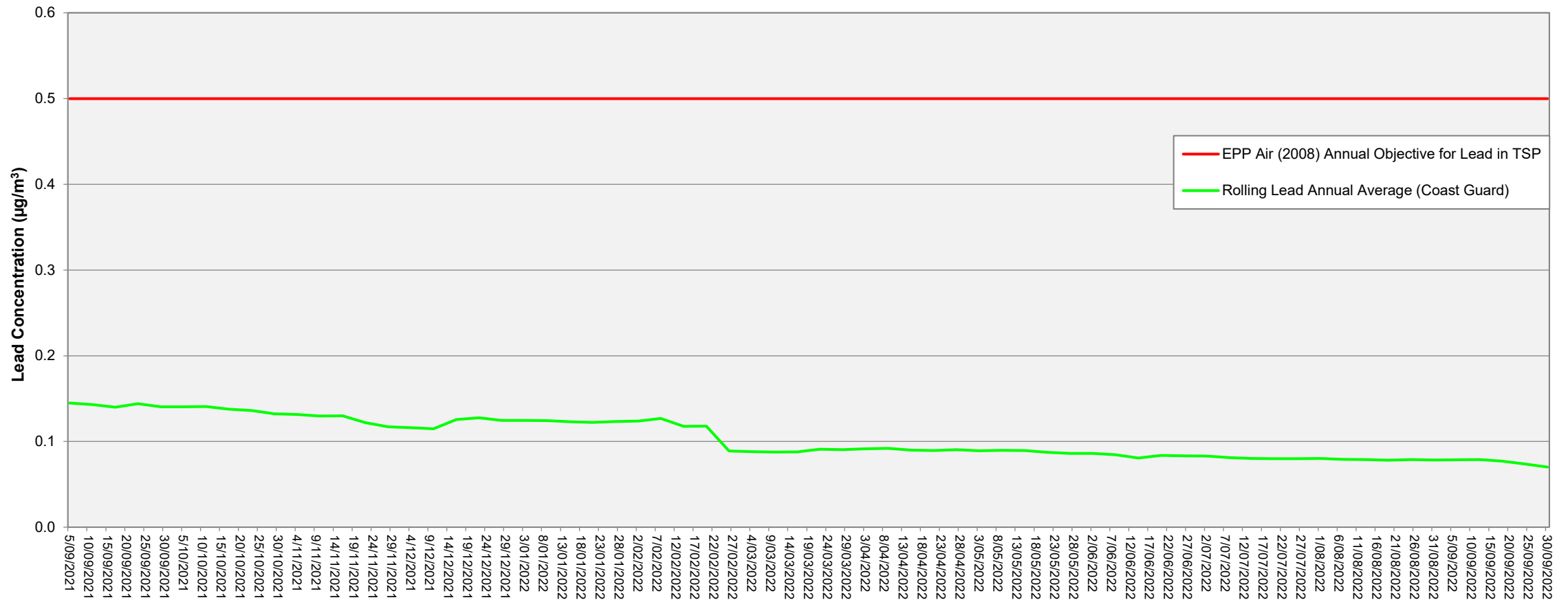
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site September 2021 – September 2022



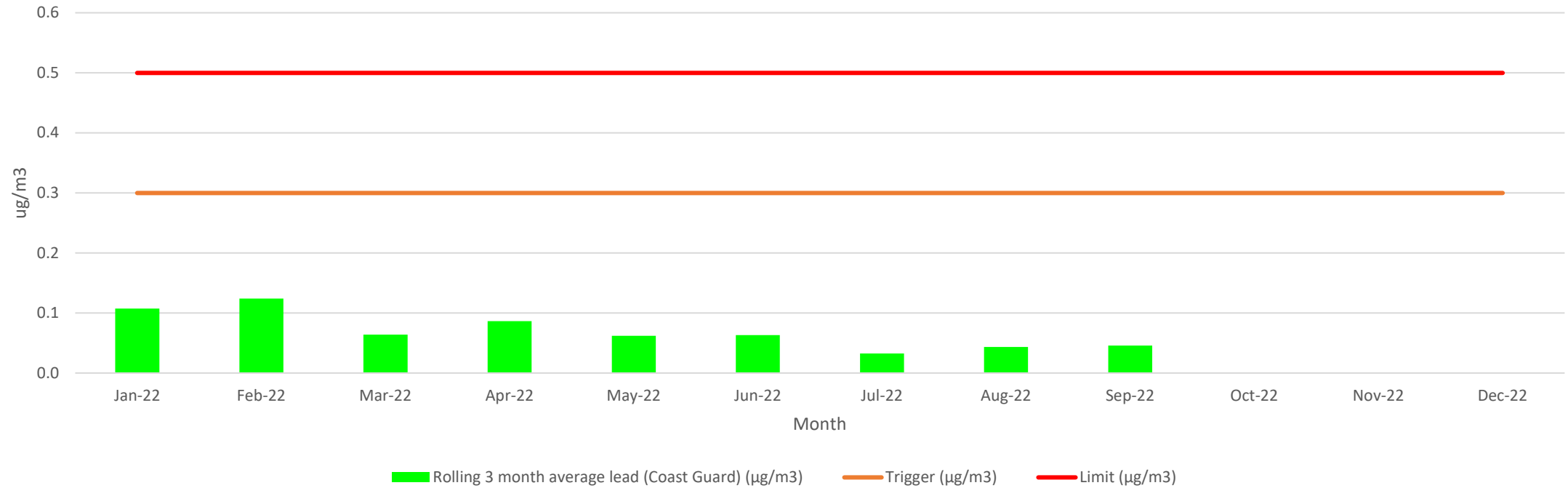
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site September 2021 – September 2022



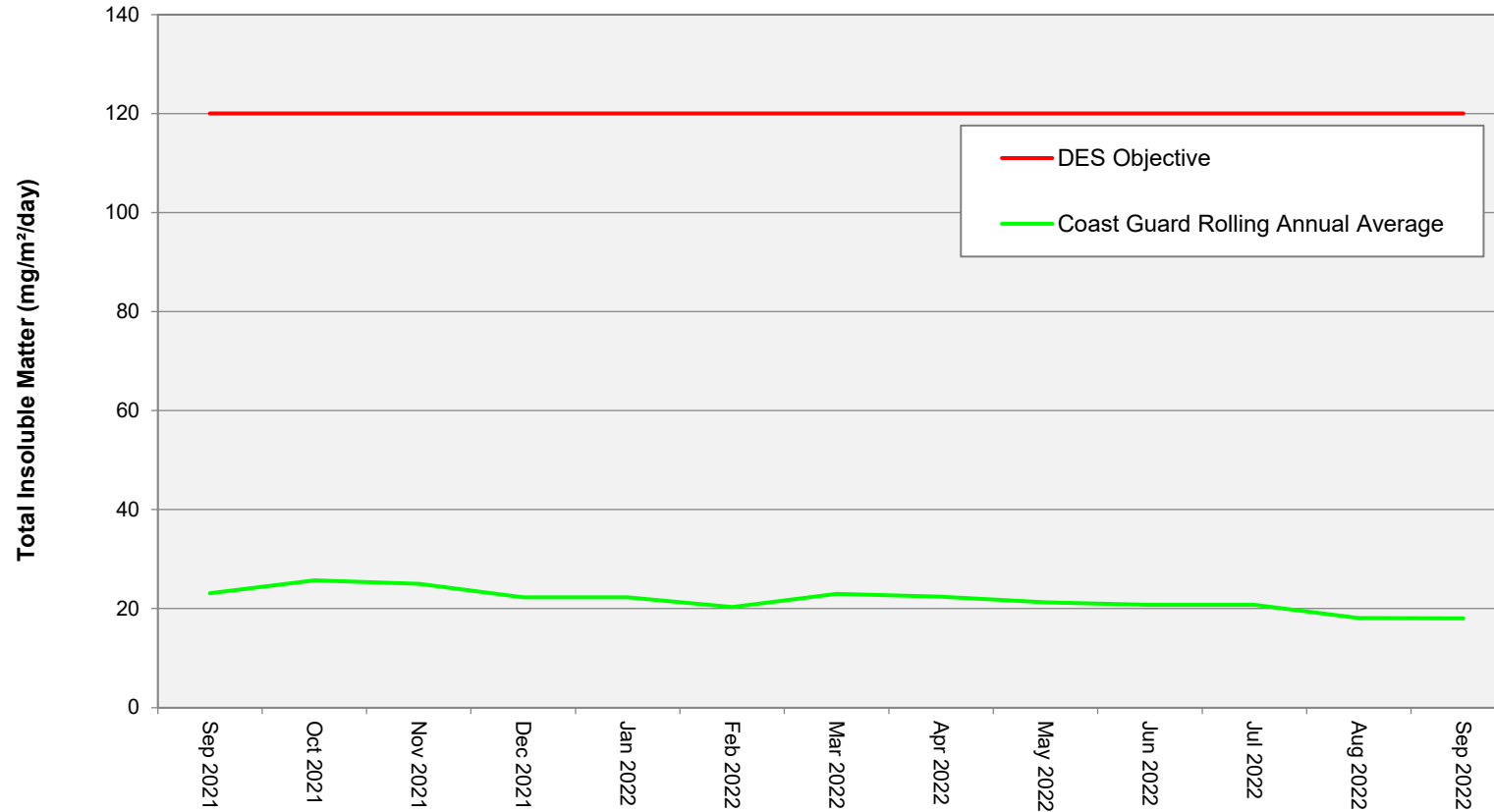
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2022



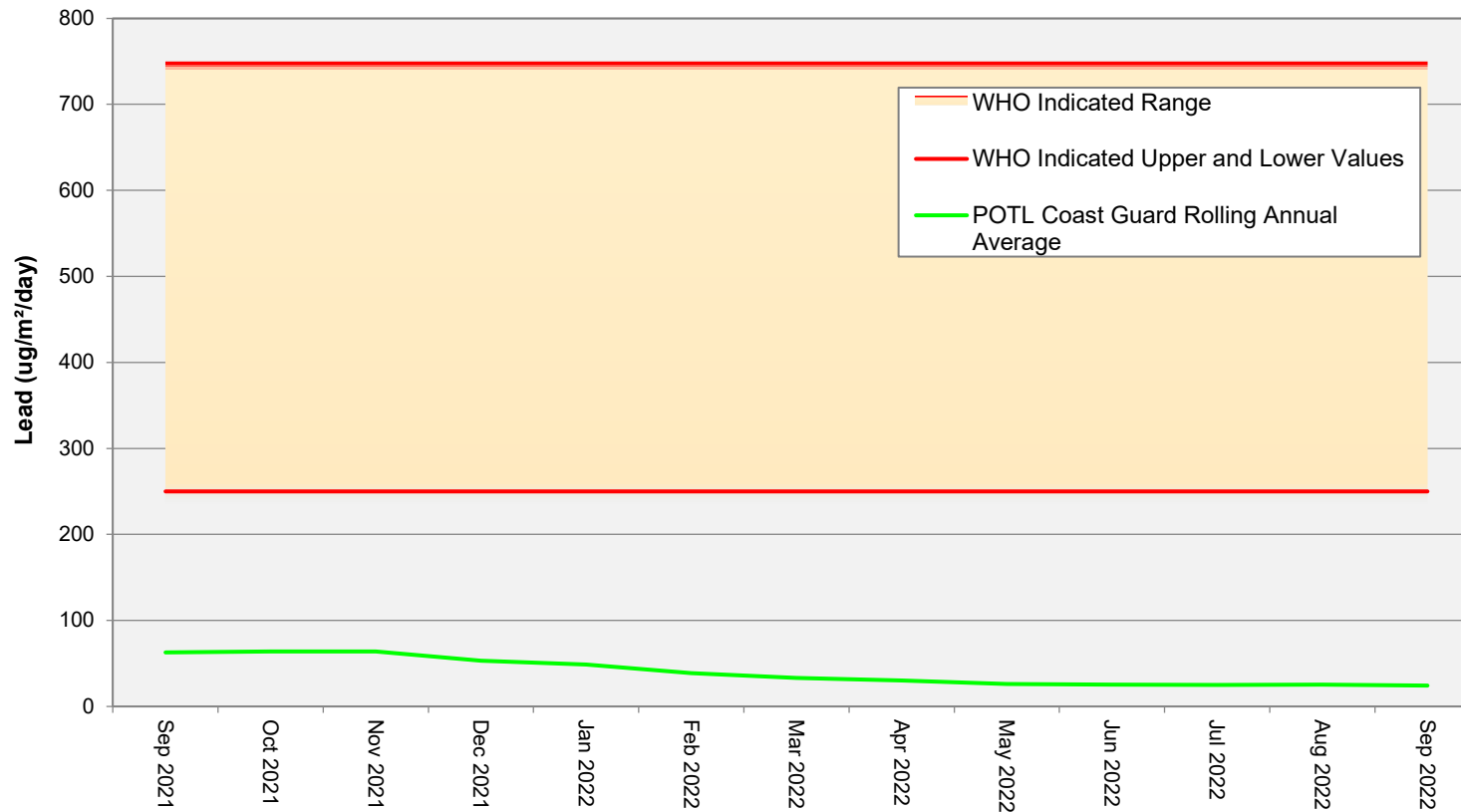
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site September 2021 – September 2022



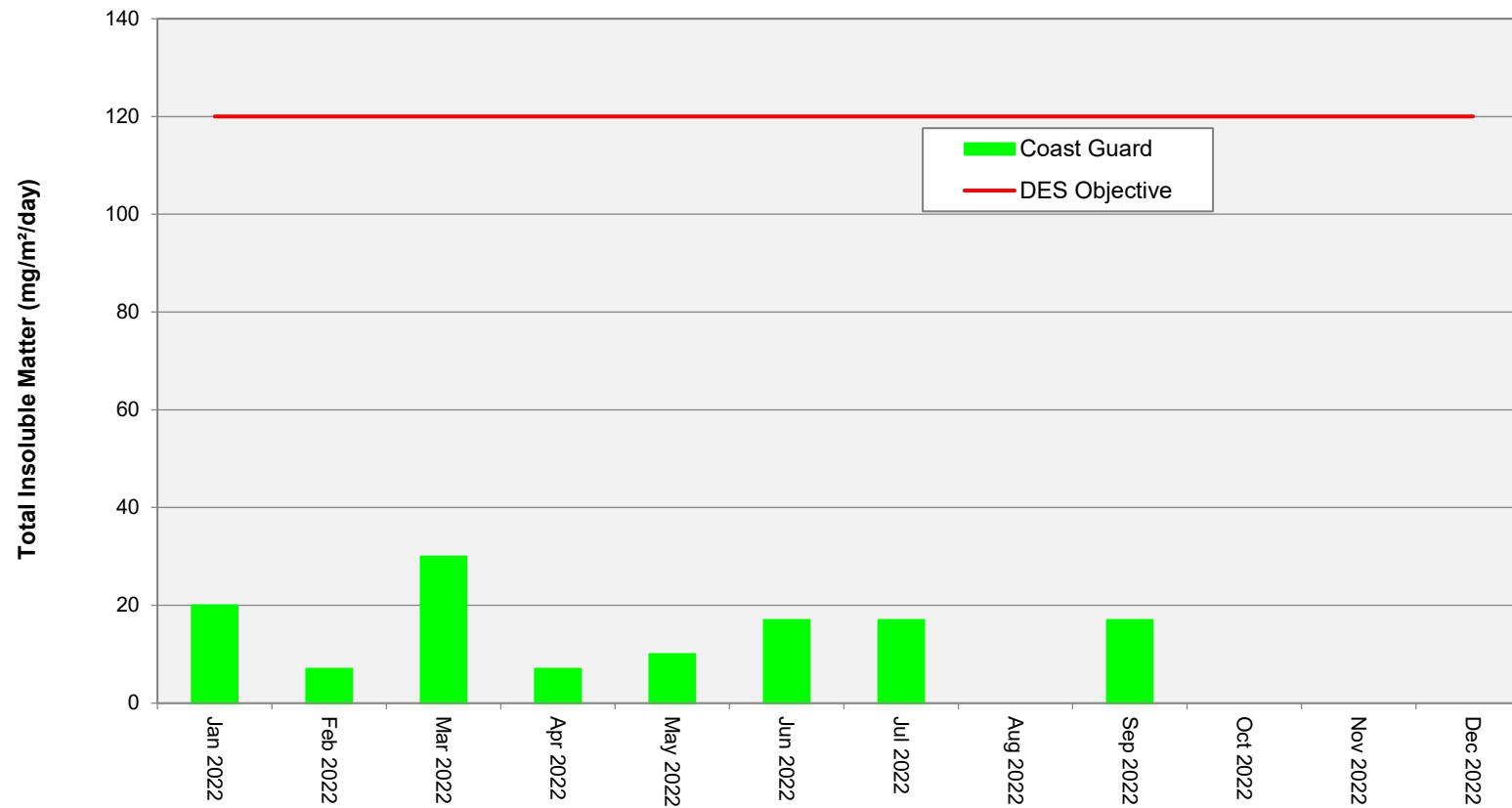
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site SEPTEMBER 2021 – SEPTEMBER 2022



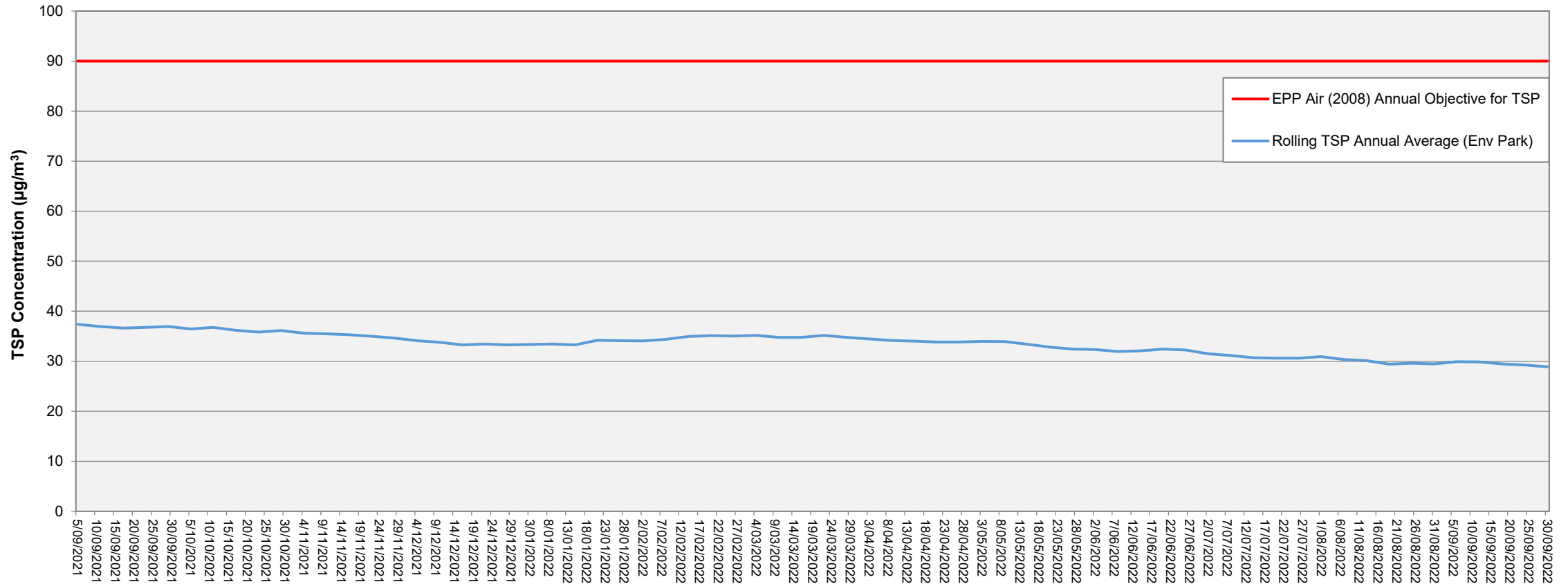
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2022



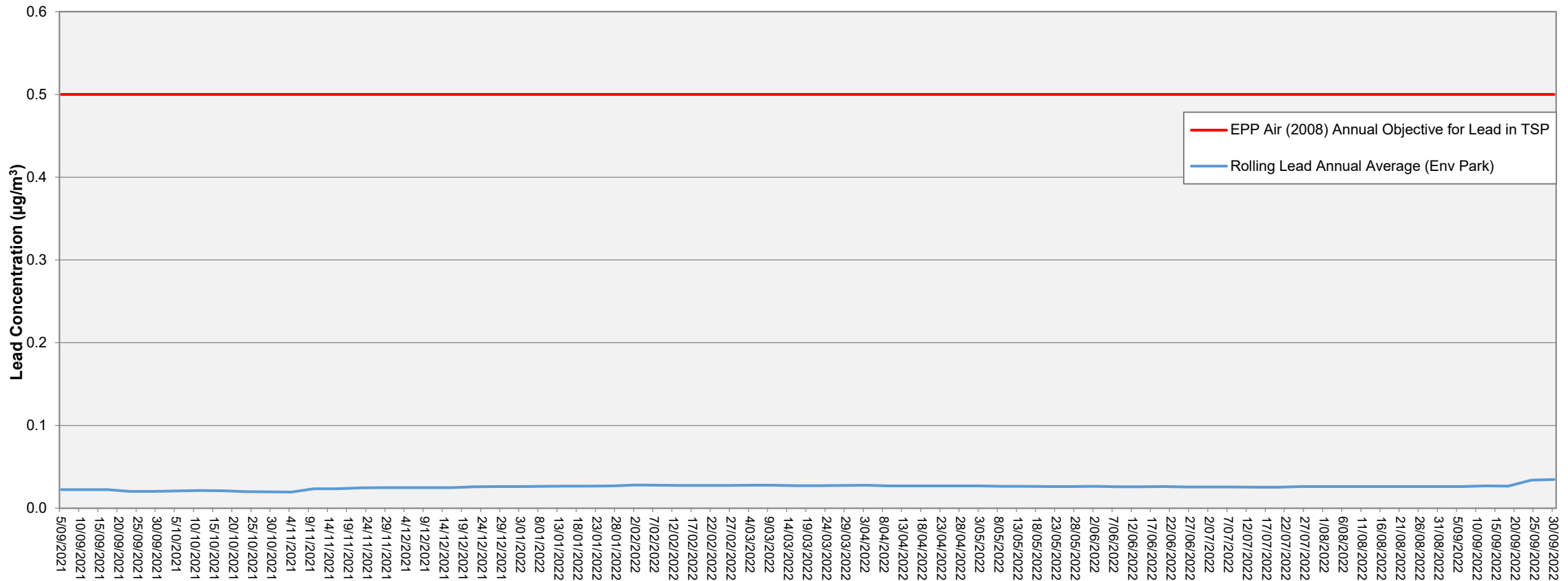
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day.
No result for August 2022 due to Laboratory error.

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site September 2021 – September 2022



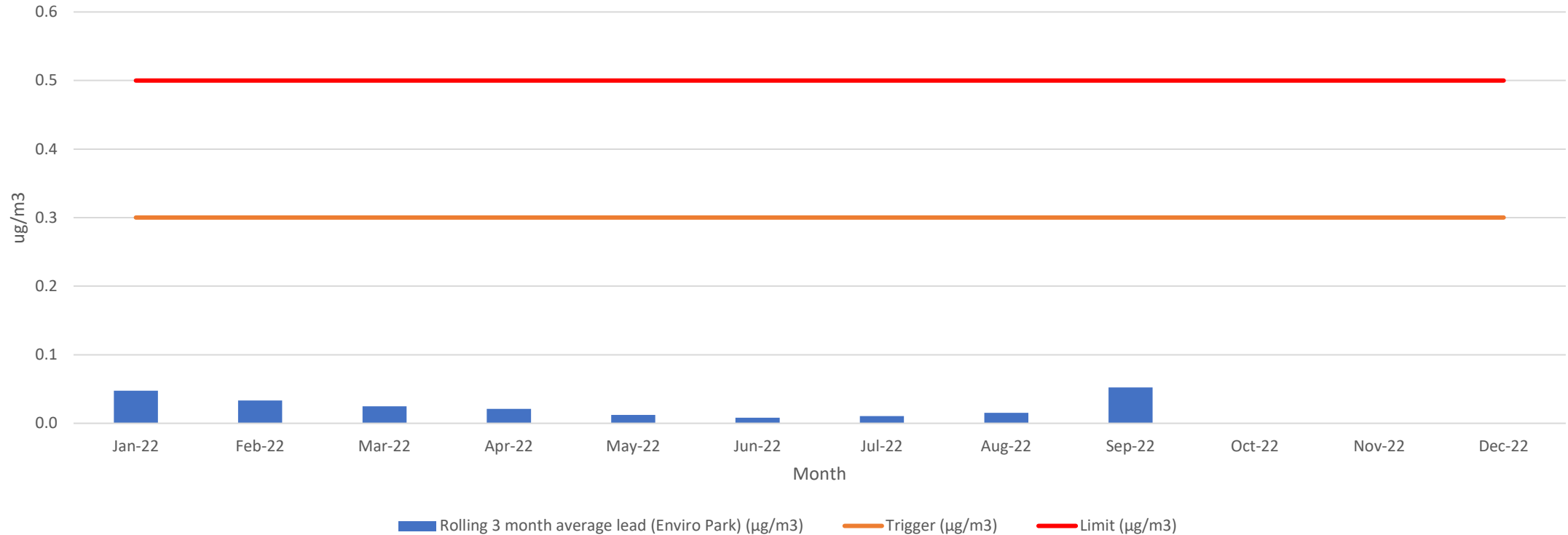
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site September 2021 – September 2022



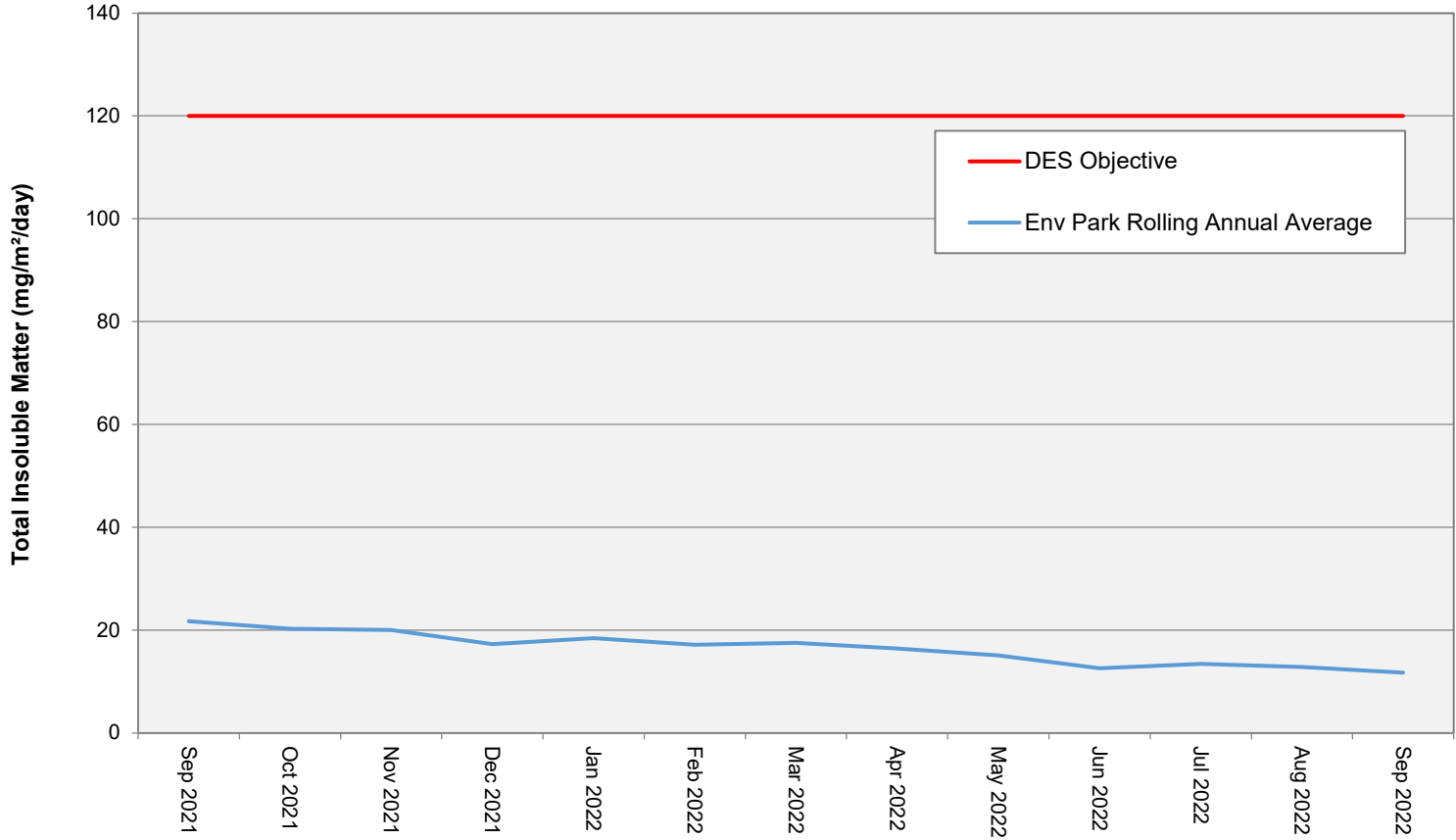
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2022



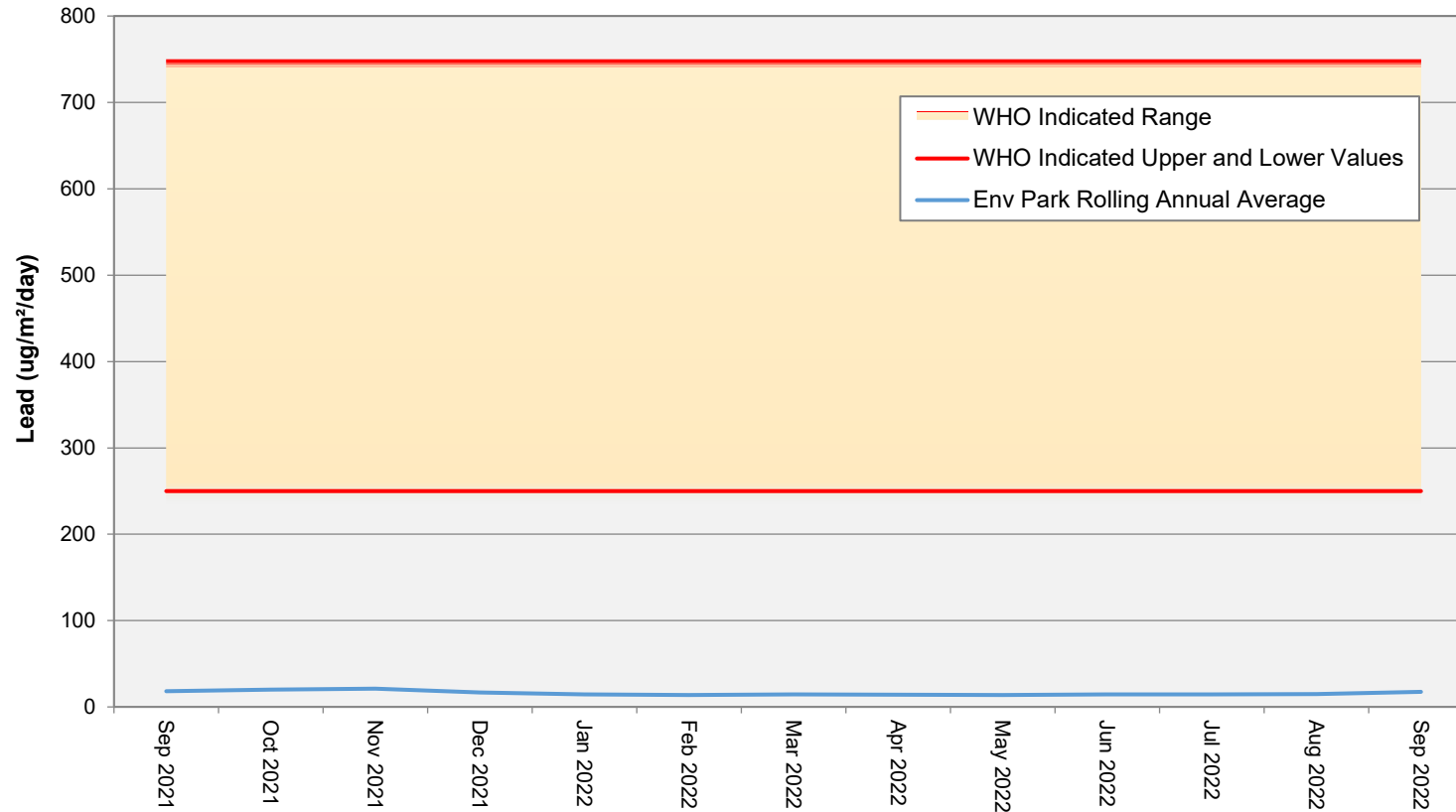
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site September 2021 – September 2022



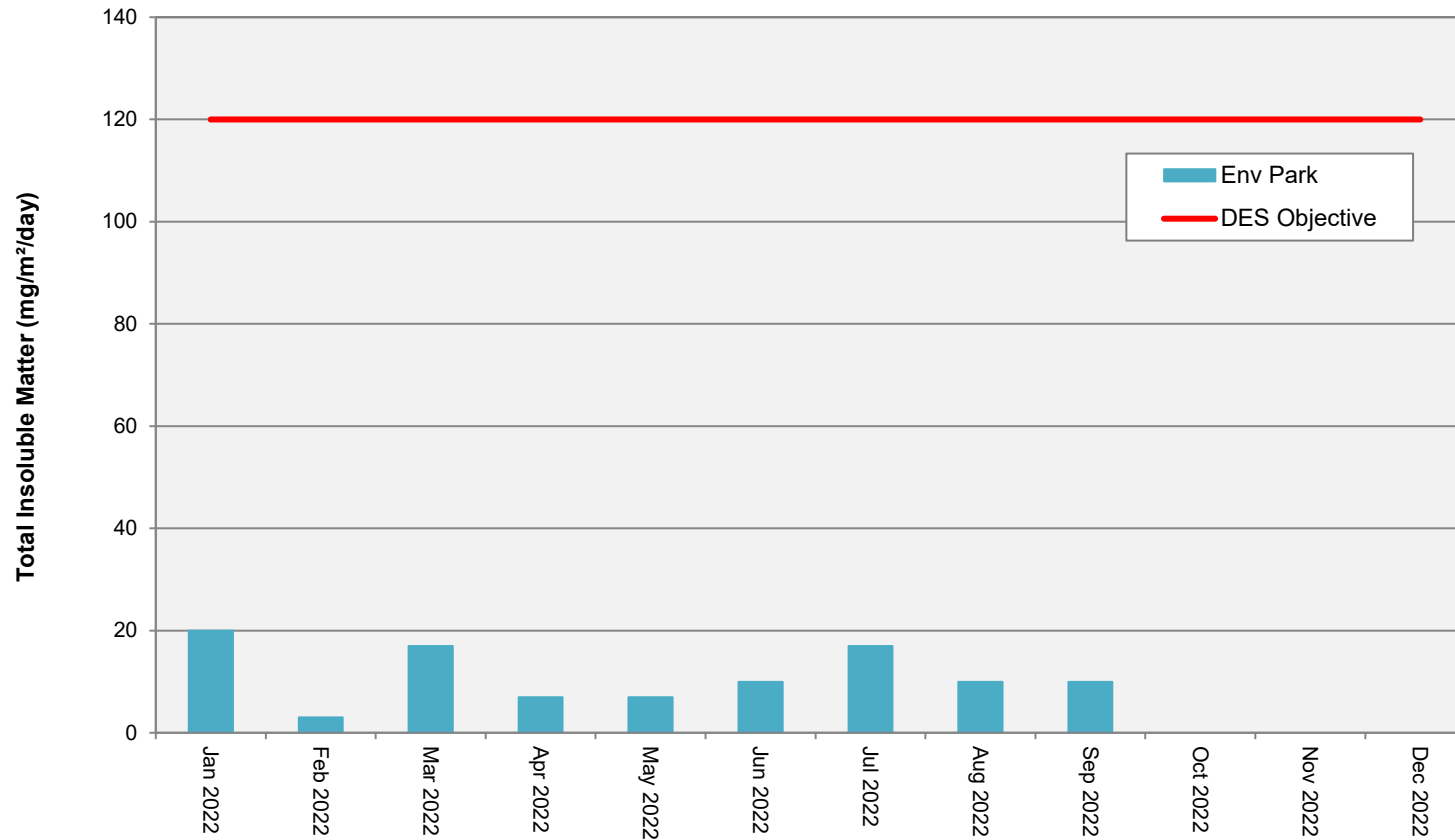
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site SEPTEMBER 2021 – SEPTEMBER 2022



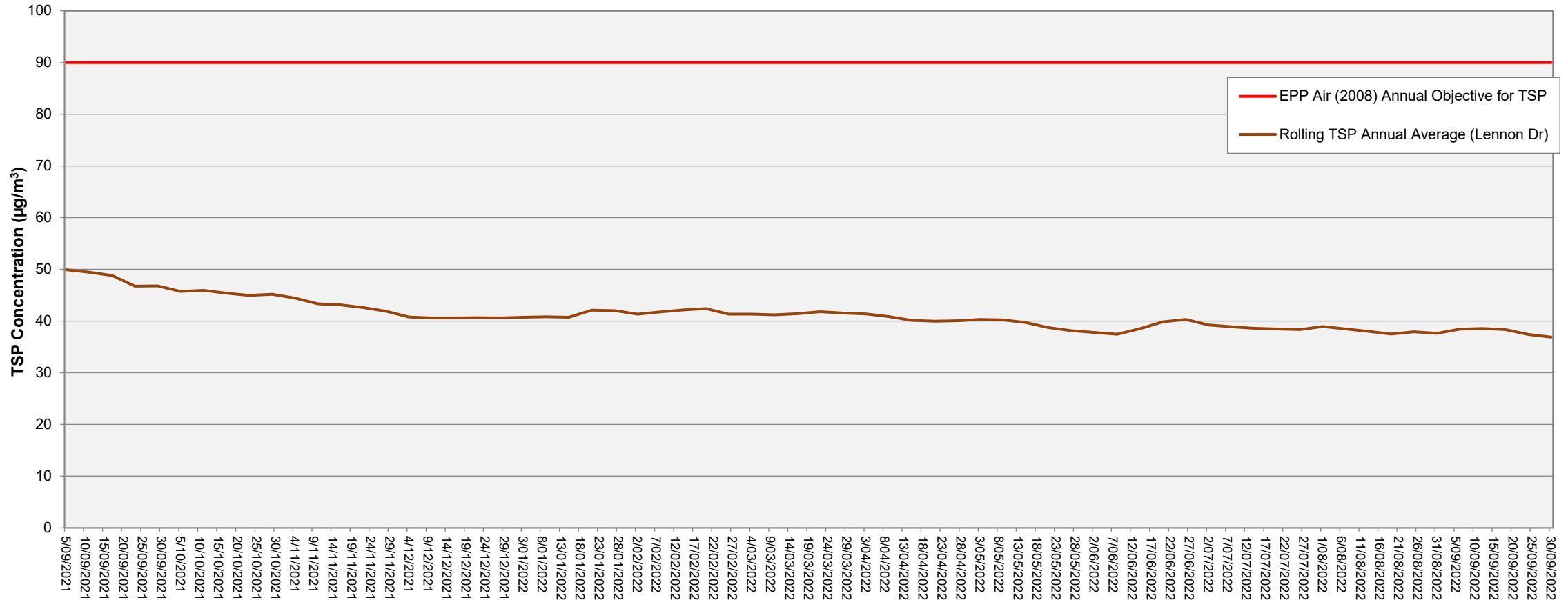
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2022



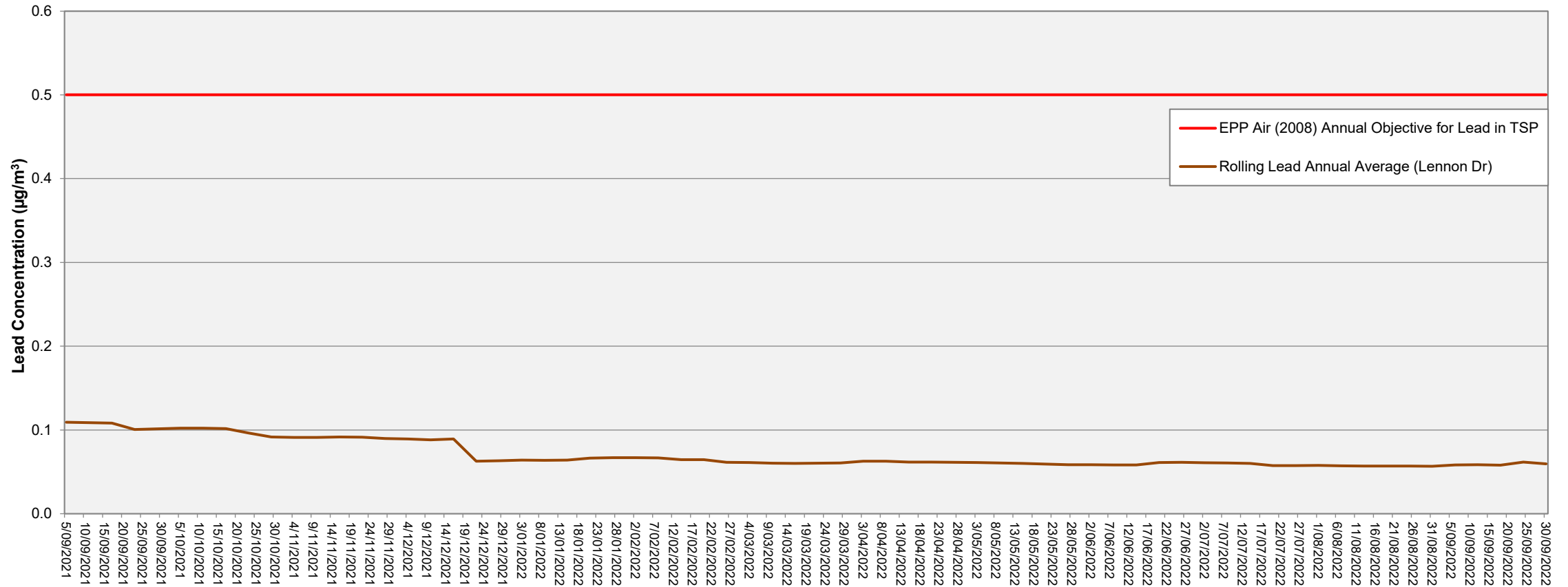
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site September 2021 – September 2022



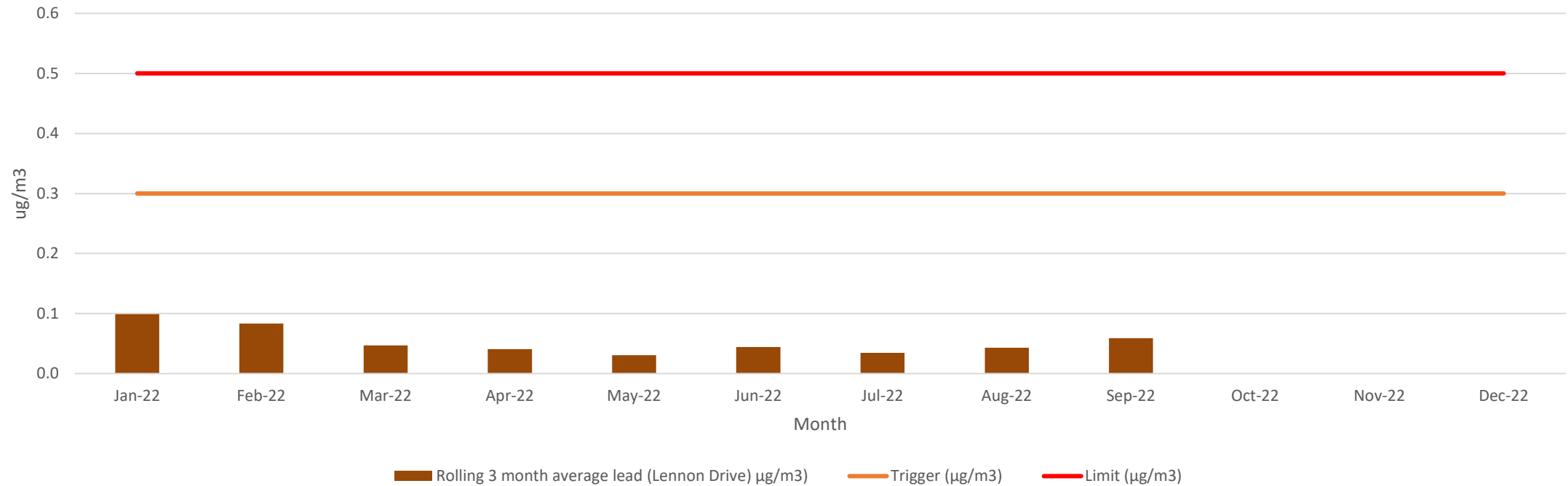
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site September 2021 – September 2022



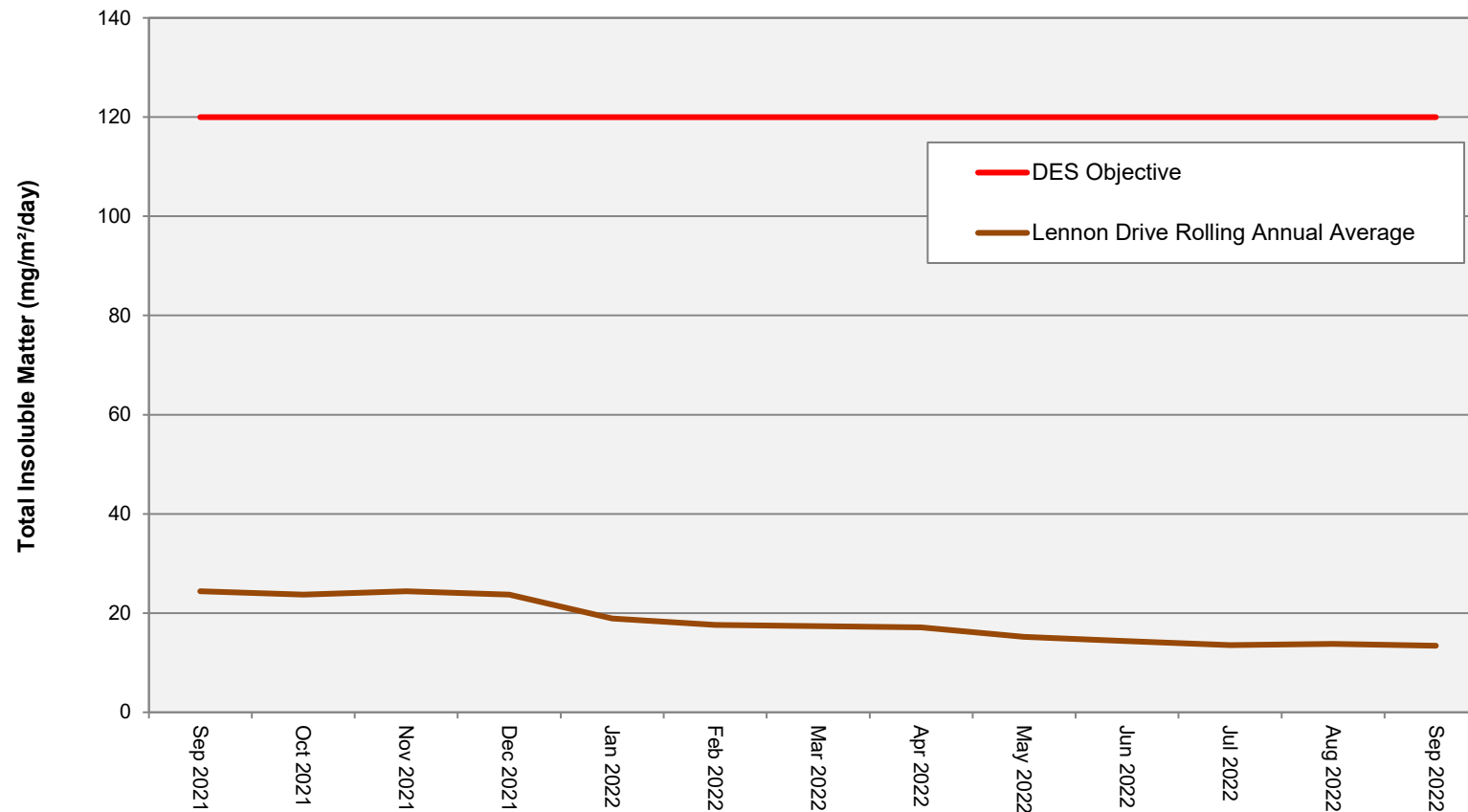
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2022



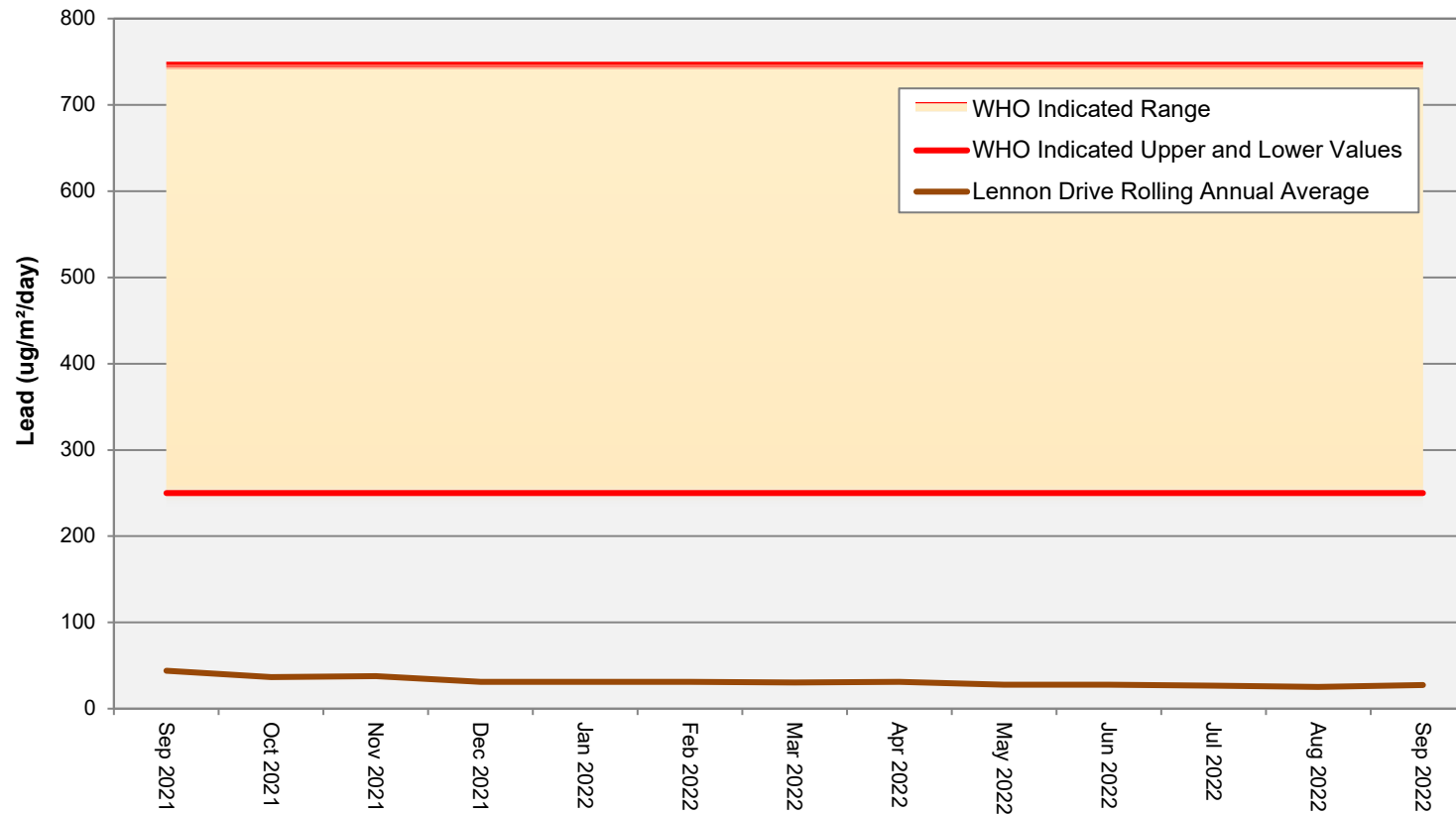
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site September 2021 – September 2022



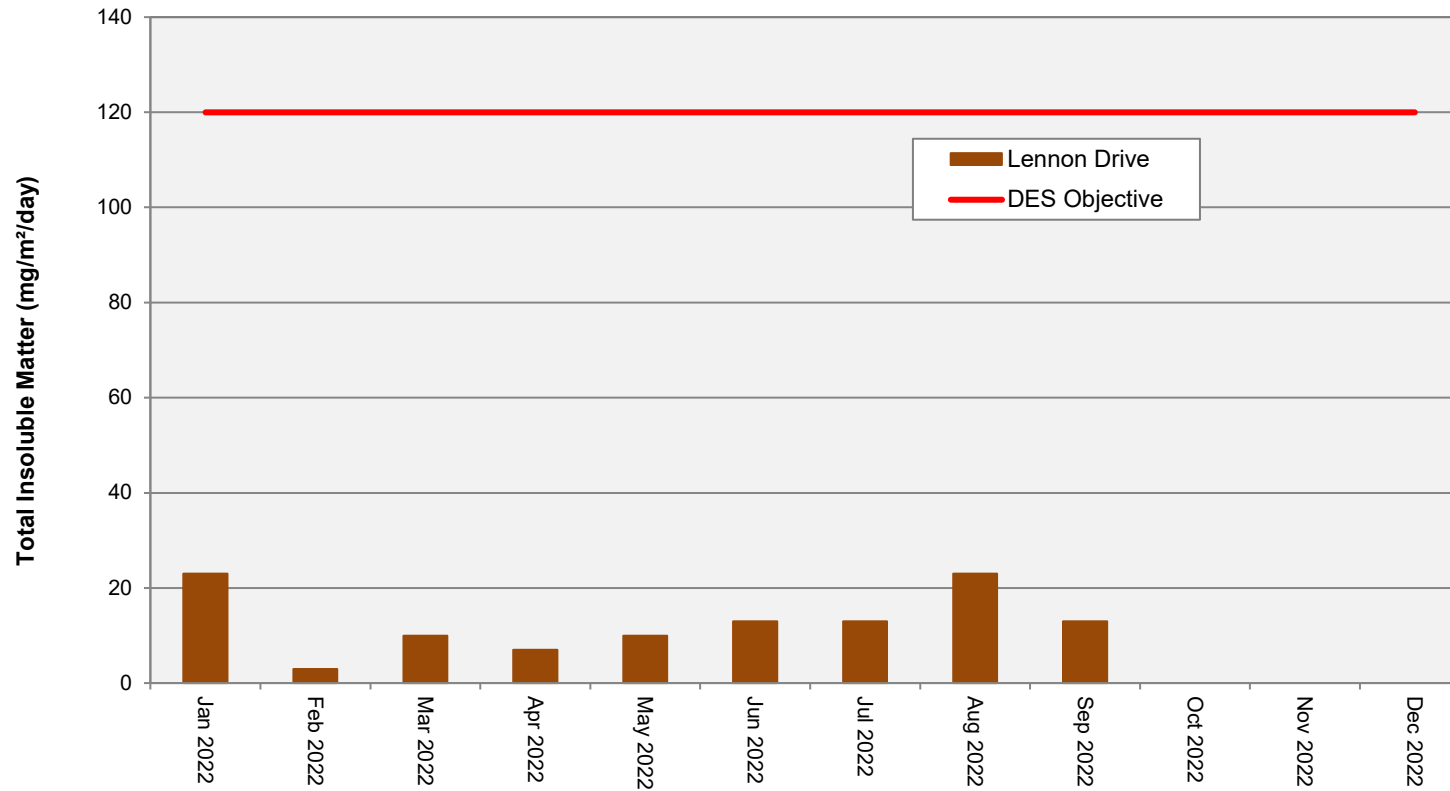
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site SEPTEMBER 2021 – SEPTEMBER 2022



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 2022



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

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 out. 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.