

# Air Quality Dashboard | April | 2023

## 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

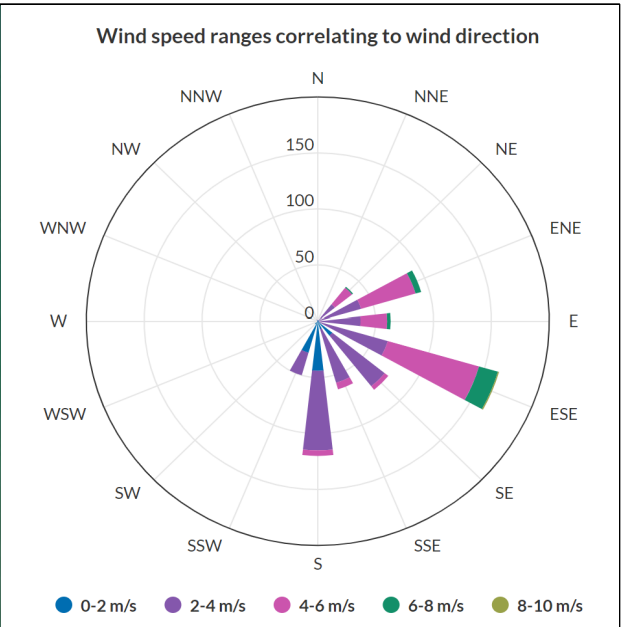
Air Quality Bulletin

Live Shipping Schedule

Rainfall Data - BOM

Air Quality Monitoring Plan

# Air Quality Monitoring Locations



# Shipping Movements in April 2023

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

Date In/Out	Vessel Name	Cargo	Berth
29 Mar 2023 - 01 Apr 2023	ENTERPRISE		11
31 Mar 2023 - 02 Apr 2023	ADF	ARMY EQUIPMENT (IMPORT)	10
31 Mar 2023 - 02 Apr 2023	POAVOSA BRAVE	SUGAR (EXPORT)	9
01 Apr 2023 - 02 Apr 2023	GOLDEN CHIE	FUELS (IMPORT)	1
02 Apr 2023 - 02 Apr 2023	GREYMAN EXPRESS	CATTLE (EXPORT)	3 NTH
03 Apr 2023 - 06 Apr 2023	JAWAN	CATTLE (EXPORT)	10
03 Apr 2023 - 05 Apr 2023	DAT MERCURY	FUELS (IMPORT)	1
03 Apr 2023 - 04 Apr 2023	DOVER HIGHWAY	MOTOR VEHICLES (IMPORT)	3 NTH
04 Apr 2023 - 07 Apr 2023	KONDILI	CEMENT (IMPORT)	4
04 Apr 2023 - 06 Apr 2023	ANL KOKODA	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 STH
05 Apr 2023 - 05 Apr 2023	GENIUS HIGHWAY	MOTOR VEHICLES (IMPORT)	9
05 Apr 2023 - 07 Apr 2023	IRON MAIDEN	ZINC CONCENTRATES (EXPORT)	8
05 Apr 2023 - 06 Apr 2023	SEYMOUR SUN	FUELS (IMPORT)	1
07 Apr 2023 - 08 Apr 2023	SARA LEADER	MOTOR VEHICLES (IMPORT)	10
08 Apr 2023 - 08 Apr 2023	GOLDEN MIND	FUELS (IMPORT)	1
08 Apr 2023 - 09 Apr 2023	BULL SHARK	FUELS (IMPORT)	1
08 Apr 2023 - 10 Apr 2023	KYOWA ROSE	TYRES (IMPORT) COPPER ANODE (EXPORT)	3 NTH
09 Apr 2023 - 11 Apr 2023	WESTERN MIAMI	ZINC CONCENTRATES (EXPORT)	8
09 Apr 2023 - 11 Apr 2023	HARRISBURG	FUELS (IMPORT)	1
11 Apr 2023 - 15 Apr 2023	ADF		10
11 Apr 2023 - 13 Apr 2023	WESTERN MIAMI	ZINC CONCENTRATES (EXPORT)	3 STH
11 Apr 2023 - 17 Apr 2023	AFRICAN ROOK	SULPHUR (IMPORT)	8
12 Apr 2023 - 13 Apr 2023	SUVA CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
12 Apr 2023 - 14 Apr 2023	GOLDEN AXIS	SULPHURIC ACID (EXPORT)	1
14 Apr 2023 - 14 Apr 2023	HANSA FREYBURG	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 STH
14 Apr 2023 - 15 Apr 2023	PALANCA MIAMI	BITUMEN (IMPORT)	1
15 Apr 2023 - 17 Apr 2023	GOLDEN CREATION	MOLASSES (EXPORT)	4
16 Apr 2023 - 17 Apr 2023	BRAHMAN EXPRESS	CATTLE (EXPORT)	3 NTH

Date In/Out	Vessel Name	Cargo	Berth
16 Apr 2023 - 19 Apr 2023	TAI SHINE	SUGAR (EXPORT)	9
17 Apr 2023 - 20 Apr 2023	AAL SHANGHAI	CONCENTRATES (EXPORT)	3 STH
18 Apr 2023 - 19 Apr 2023	IVORY ARROW	MOTOR VEHICLES (IMPORT)	10
19 Apr 2023 - 23 Apr 2023	ASIAN BULKER	ZINC CONCENTRATES (IMPORT)	10
19 Apr 2023 - 22 Apr 2023	AKUNA	CEMENT (IMPORT)	4
21 Apr 2023 - 24 Apr 2023	PLOVER ARROW	STEEL PIPES (IMPORT)	3 STH
22 Apr 2023 - 23 Apr 2023	SOFRANA TOURVILLE	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
23 Apr 2023 - 25 Apr 2023	DANZIGERGRACHT	ZINC FERRITES (EXPORT)	10
23 Apr 2023 - 24 Apr 2023	AUROCHS	CATTLE (EXPORT)	4
23 Apr 2023 - 25 Apr 2023	NAVIG8 GOAL	FUELS (IMPORT)	1
24 Apr 2023 - 25 Apr 2023	OCEAN UTE	CATTLE (EXPORT)	4
24 Apr 2023 - 26 Apr 2023	MELODY SELMER	ZINC CONCENTRATES (EXPORT)	8
24 Apr 2023 - 25 Apr 2023	ERIDANUS LEADER	MOTOR VEHICLES (IMPORT)	9
26 Apr 2023 - 27 Apr 2023	PACIFIC CONDOR	TYRES (IMPORT) CONTAINERS (EXPORT)	3 NTH
26 Apr 2023 - 27 Apr 2023	NADI CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
26 Apr 2023 - 28 Apr 2023	FEDERAL PRIME	FERTILIZER (IMPORT)	10
27 Apr 2023 - 28 Apr 2023	MOUNT OWEN	CONCENTRATES (EXPORT)	8
27 Apr 2023 - 29 Apr 2023	MELODY SELMER	ZINC CONCENTRATES (EXPORT)	3 STH



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

# Subscribe to Dashboard Updates

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OR

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

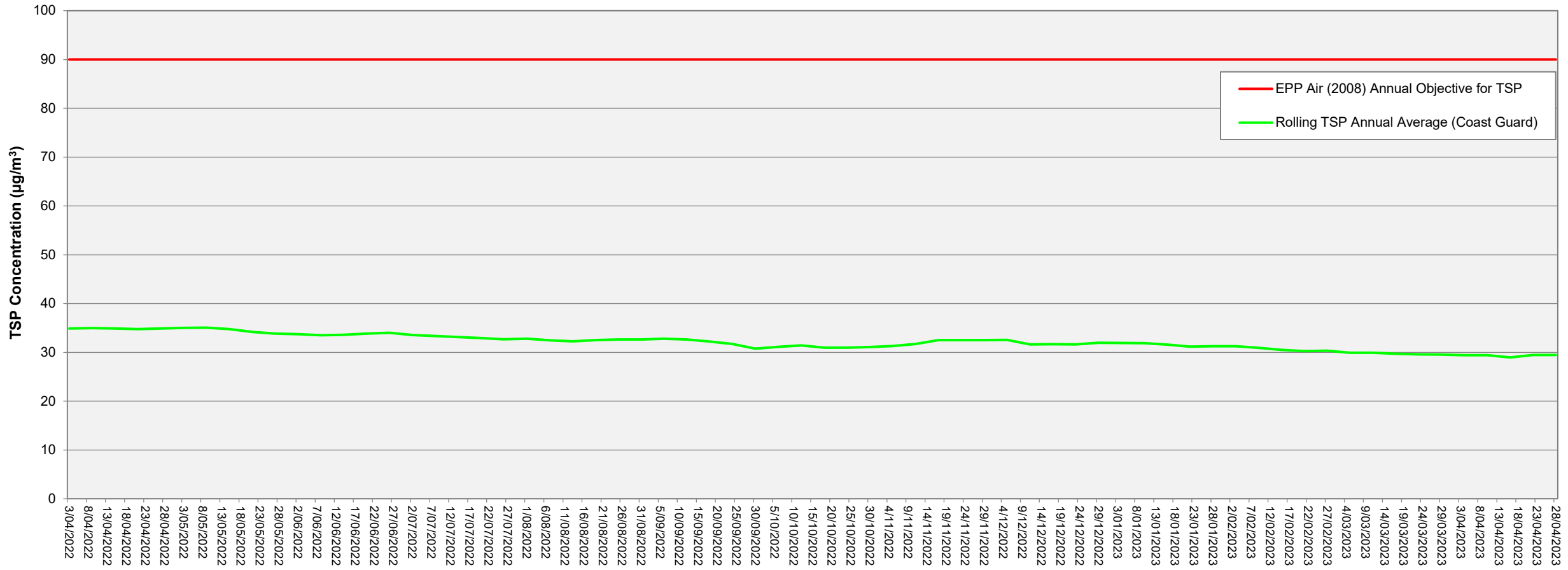
OR

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

## Ask a Question / Provide Feedback

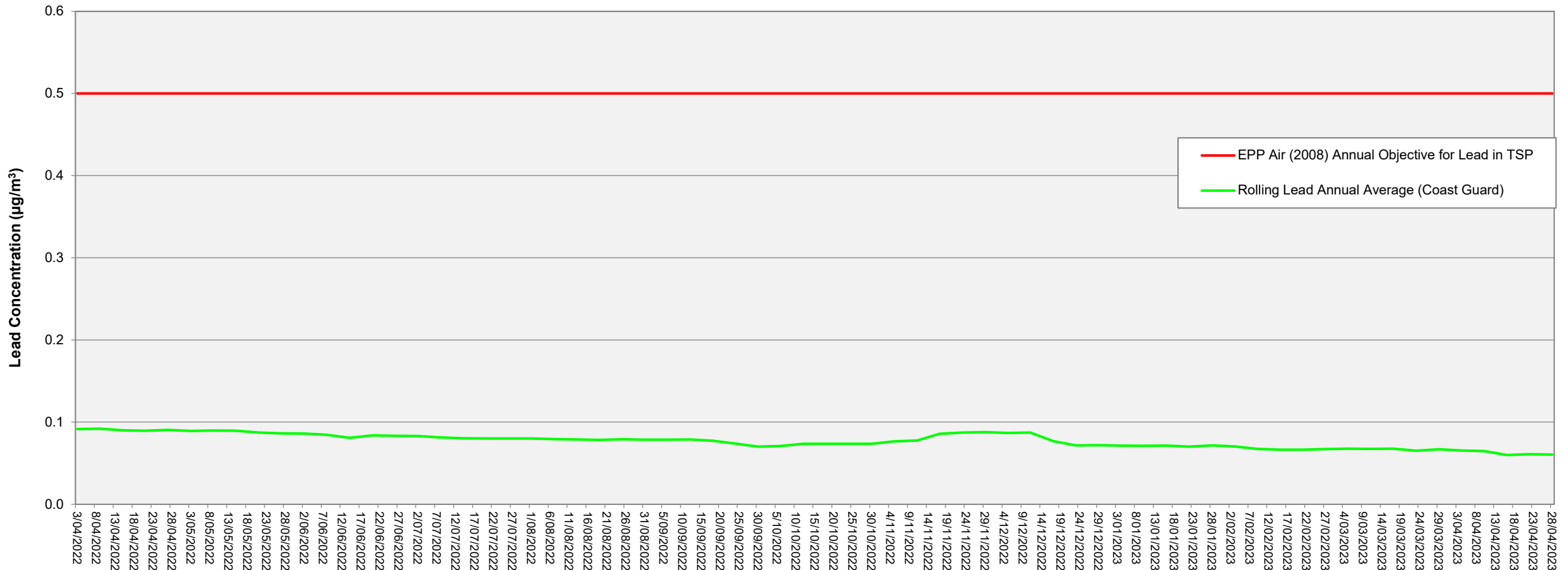
Send your enquiry or feedback to [community@townsvilleport.com.au](mailto:community@townsvilleport.com.au)

## Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site April 2022 – April 2023



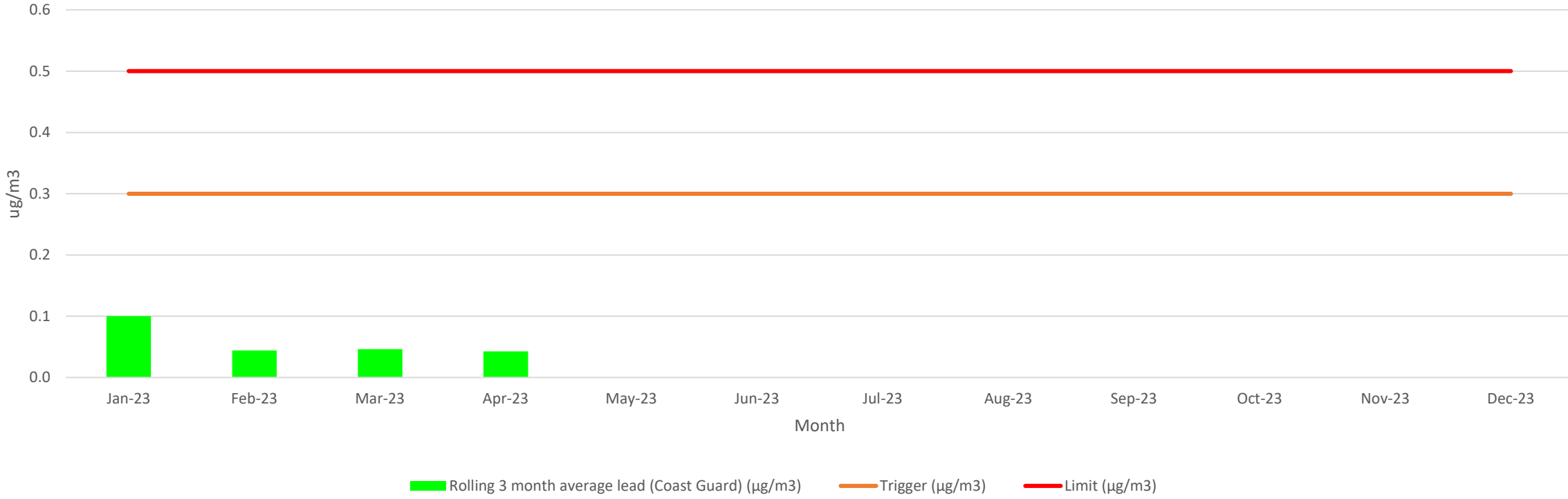
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site April 2022 – April 2023



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

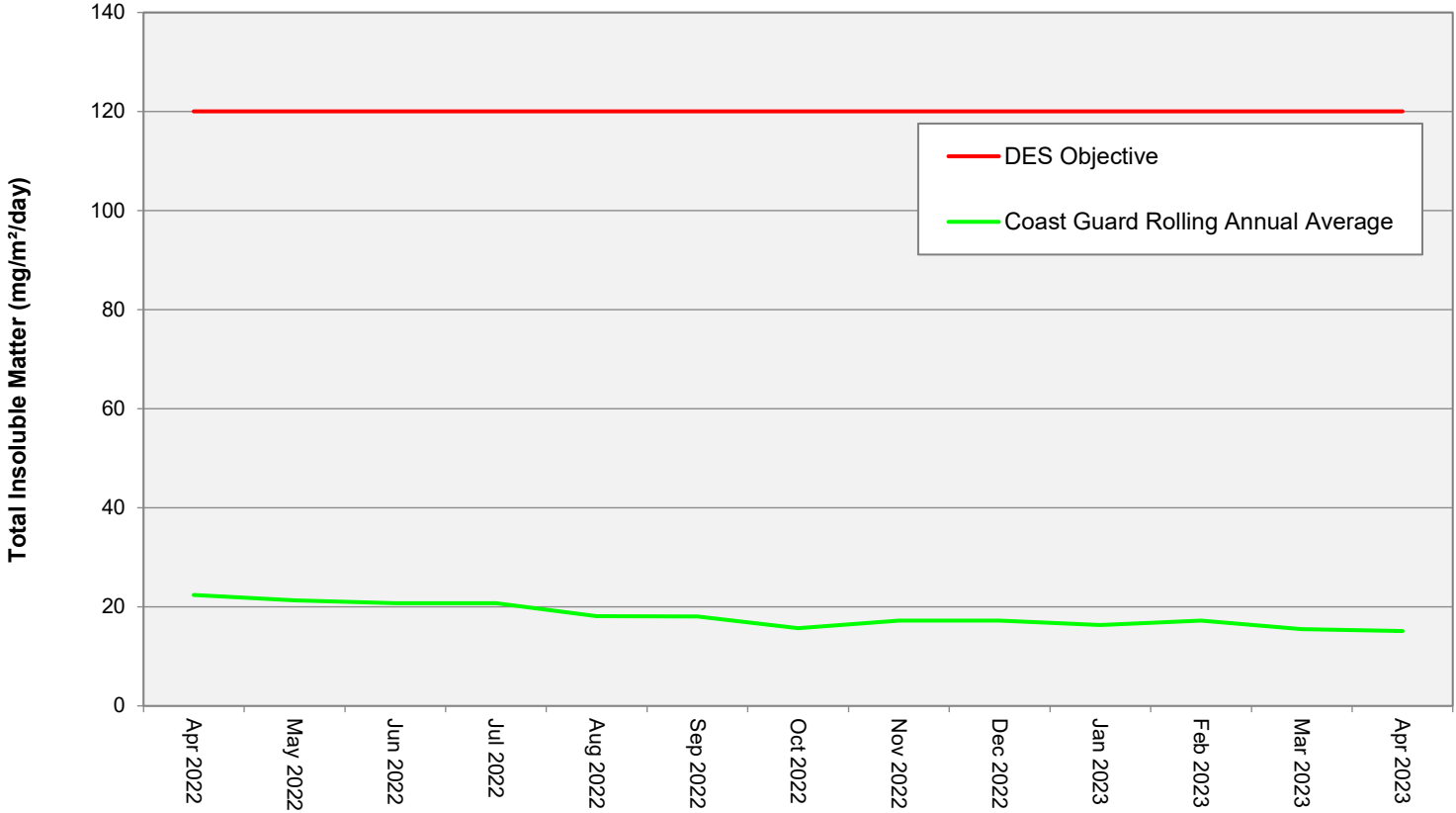
### Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2023



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

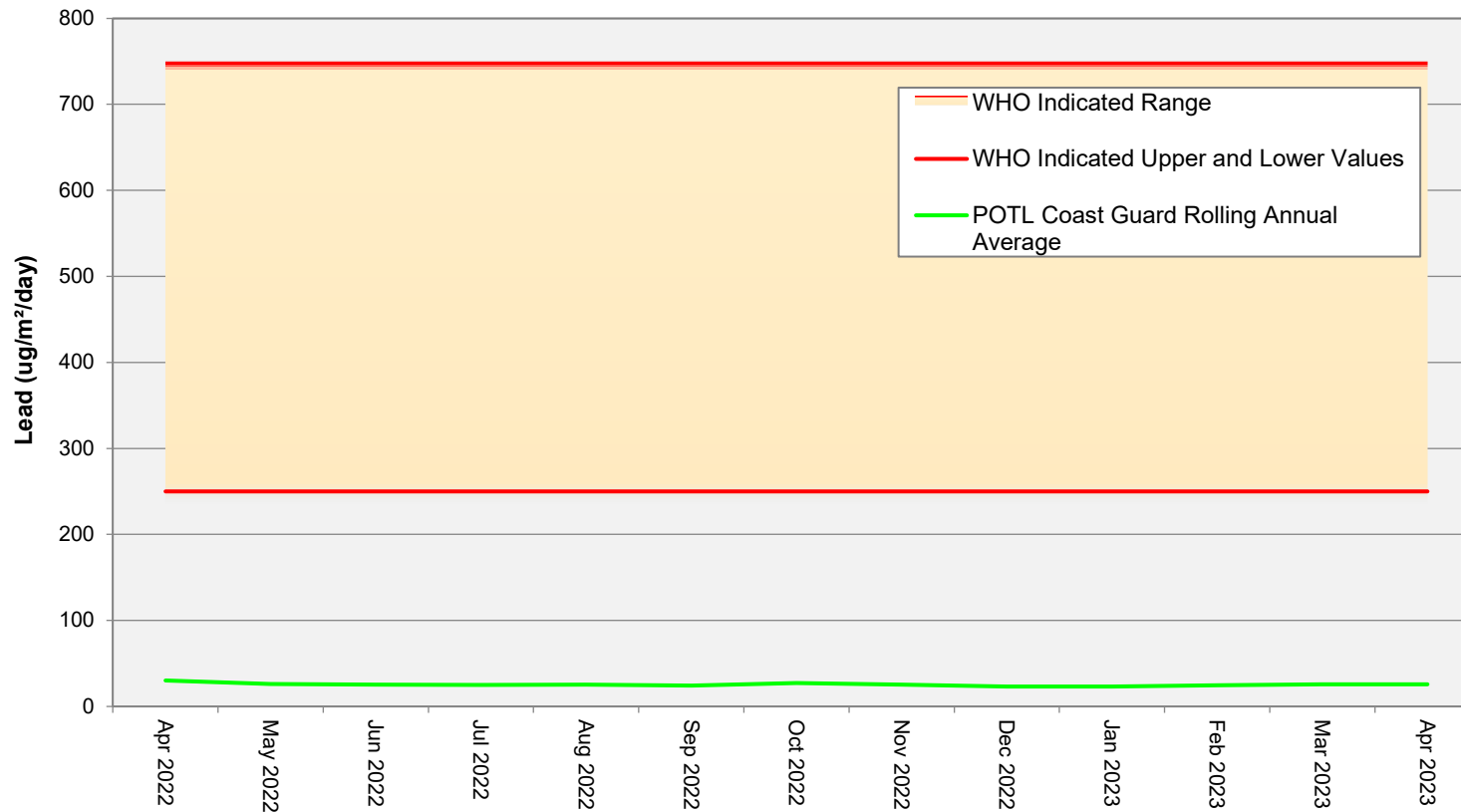


### Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site April 2022 – April 2023



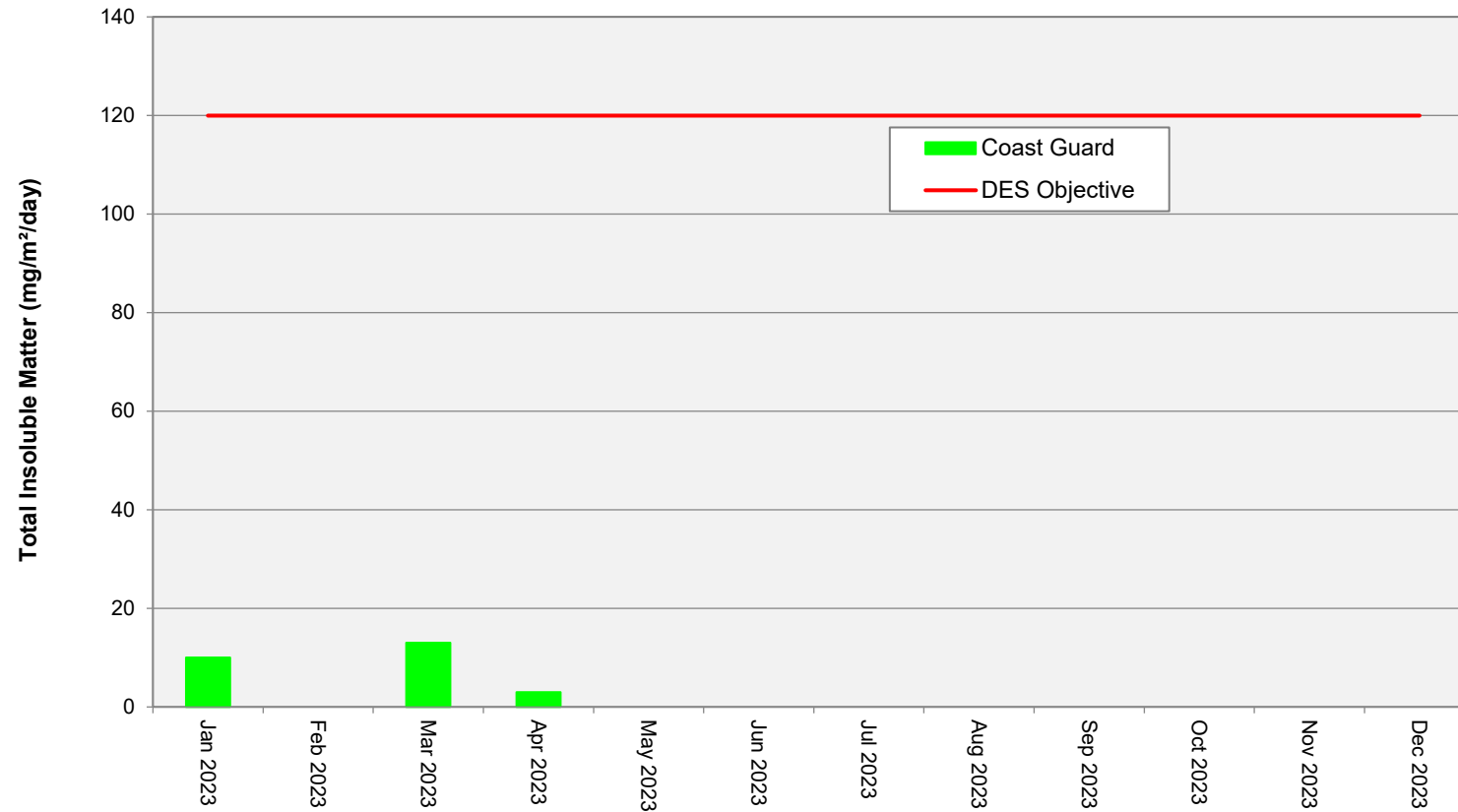
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result

## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site APRIL 2022– APRIL 2023



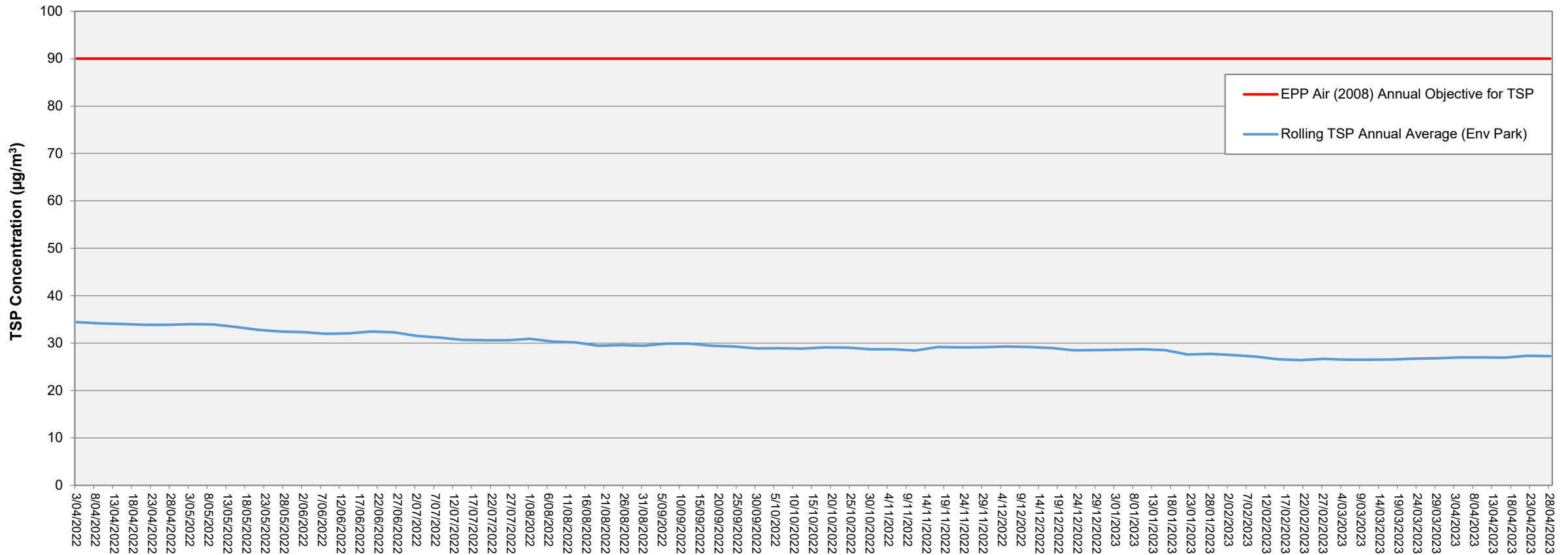
Note: Lead Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result.

## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2023



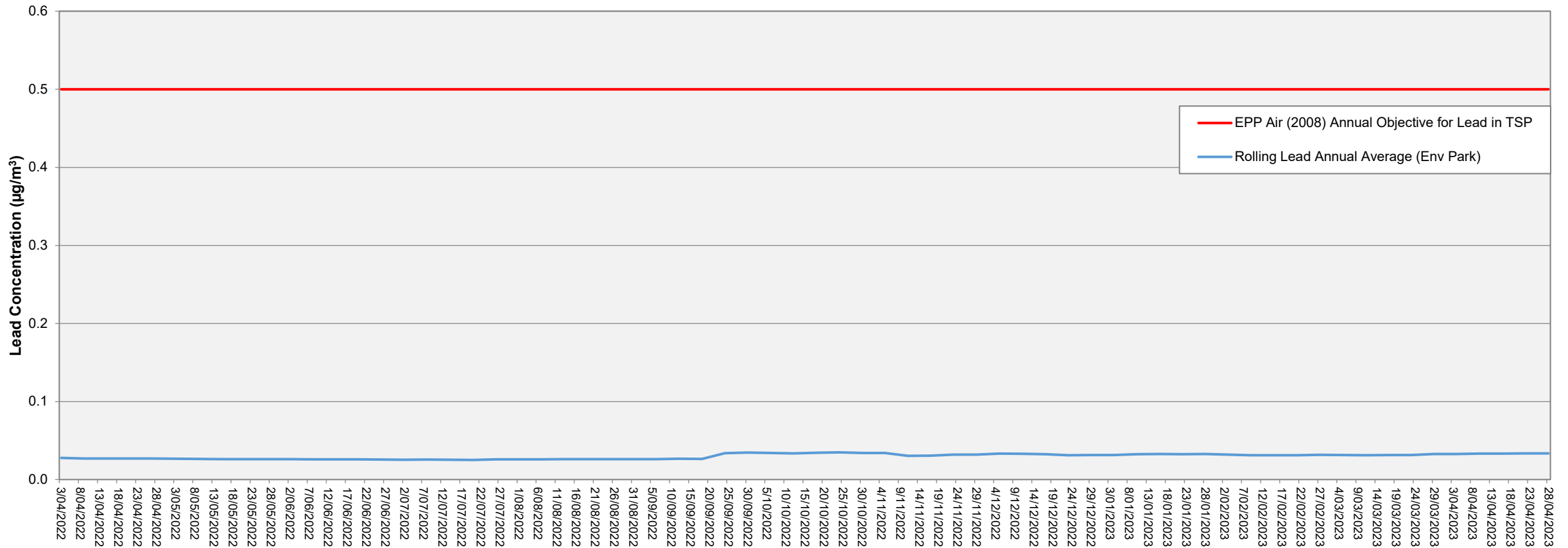
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day.  
No result for February 2023 due to Laboratory error.

## Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site April 2022 – April 2023



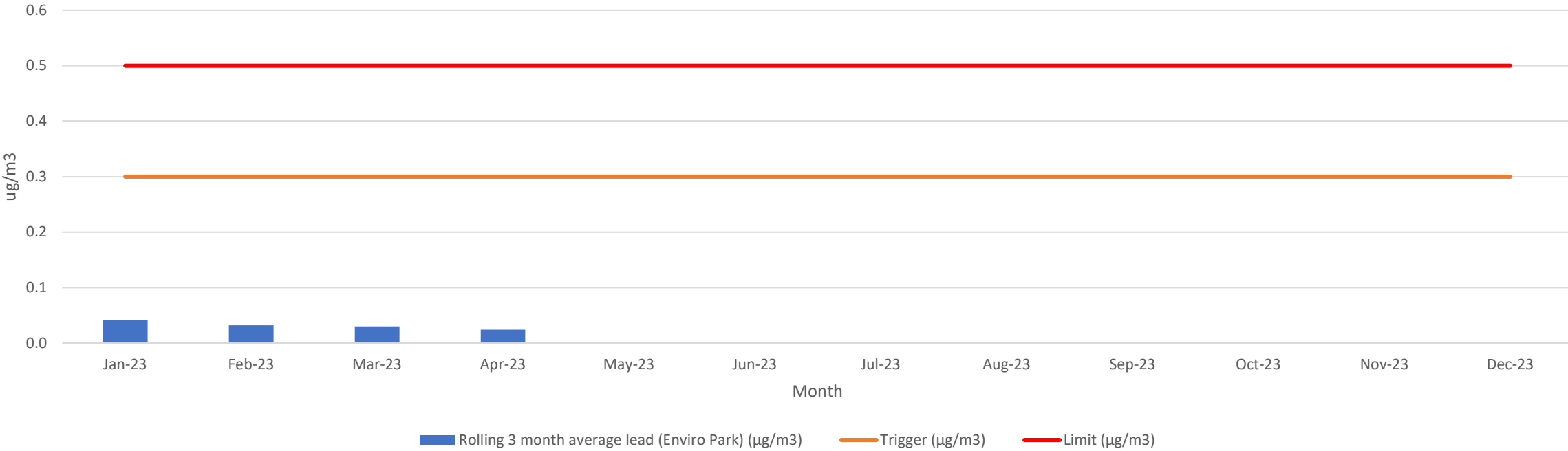
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site April 2022 – April 2023



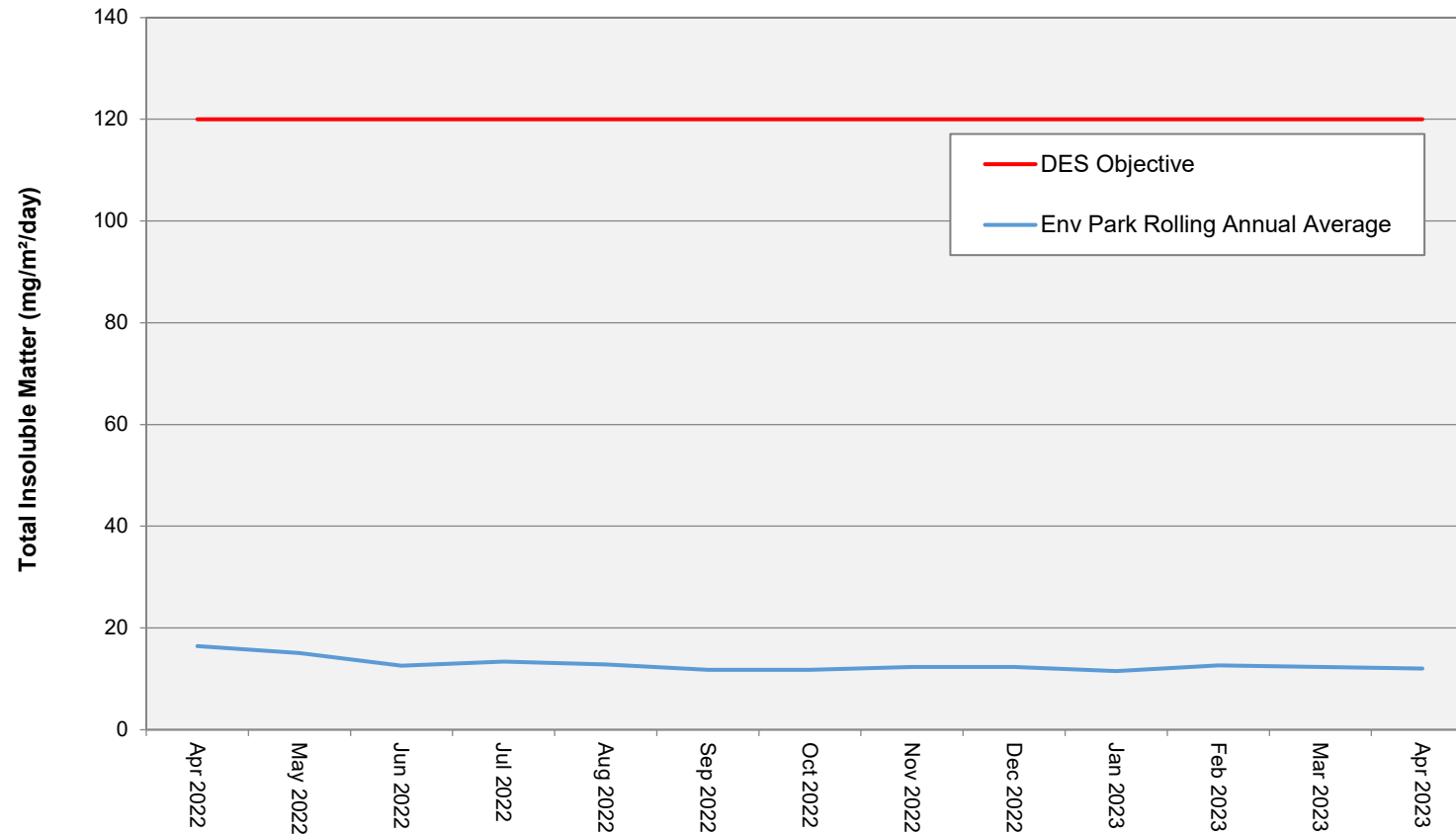
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

### Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2023



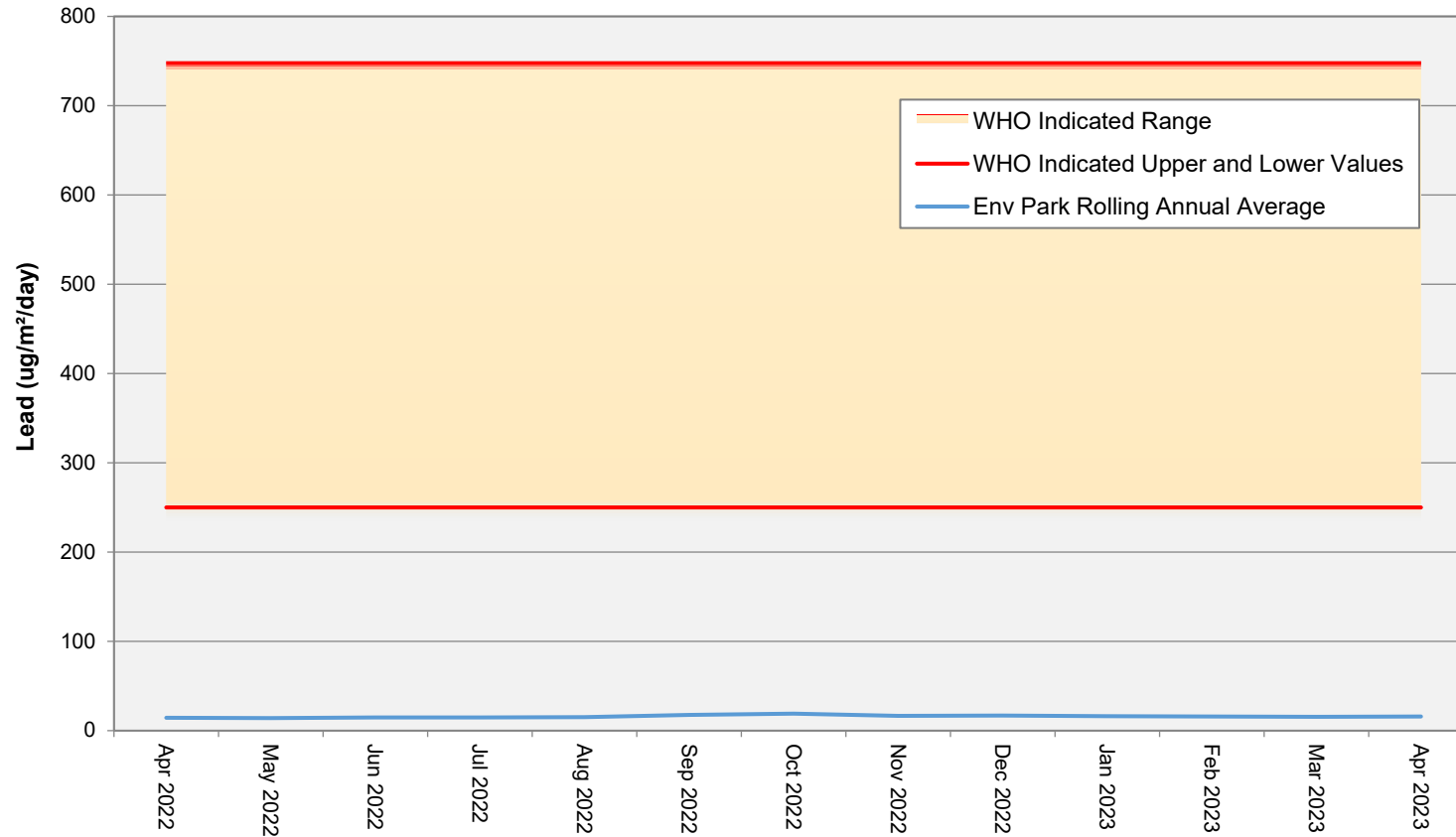
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

## Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site April 2022 – April 2023



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

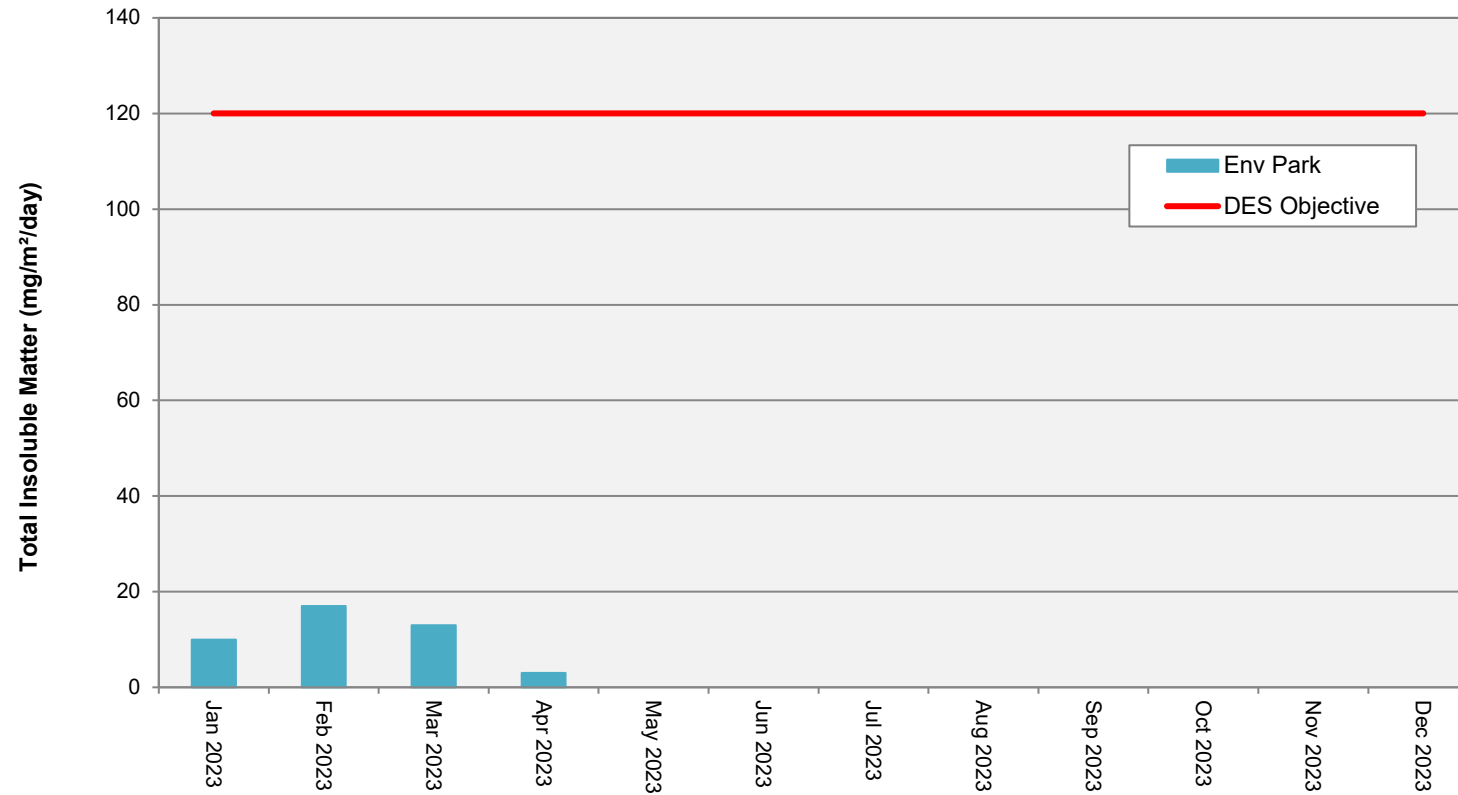
## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site APRIL 2022 – APRIL 2023



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

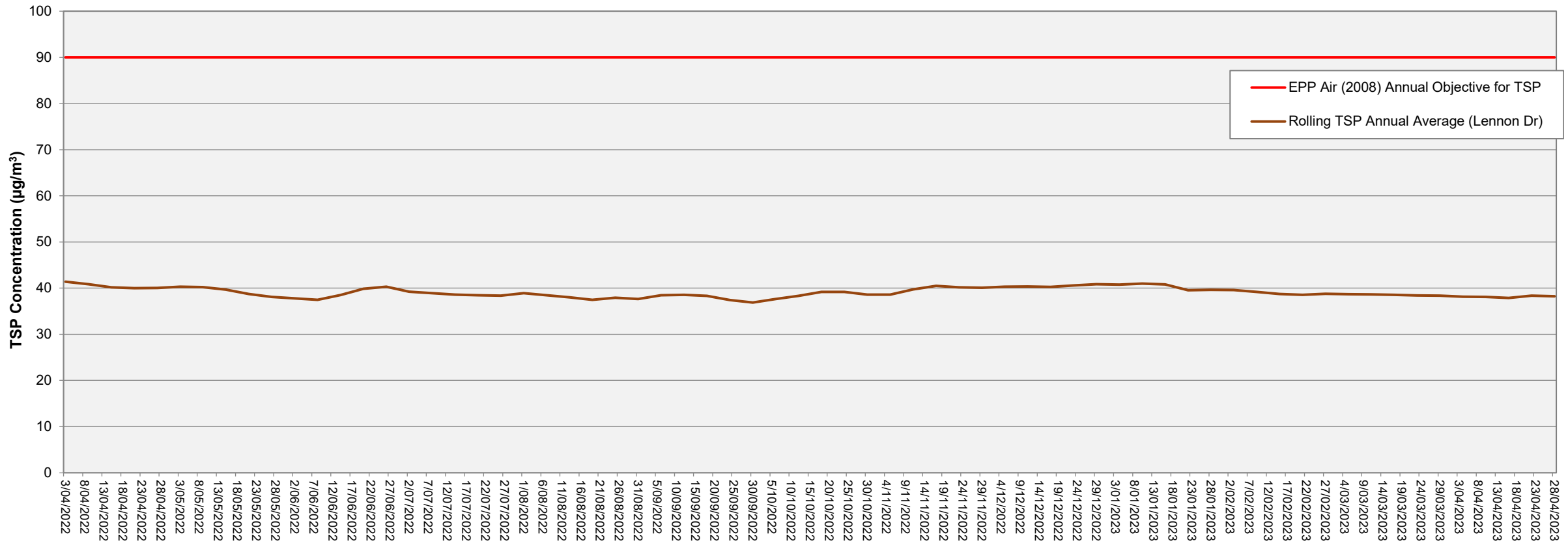


## Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2023



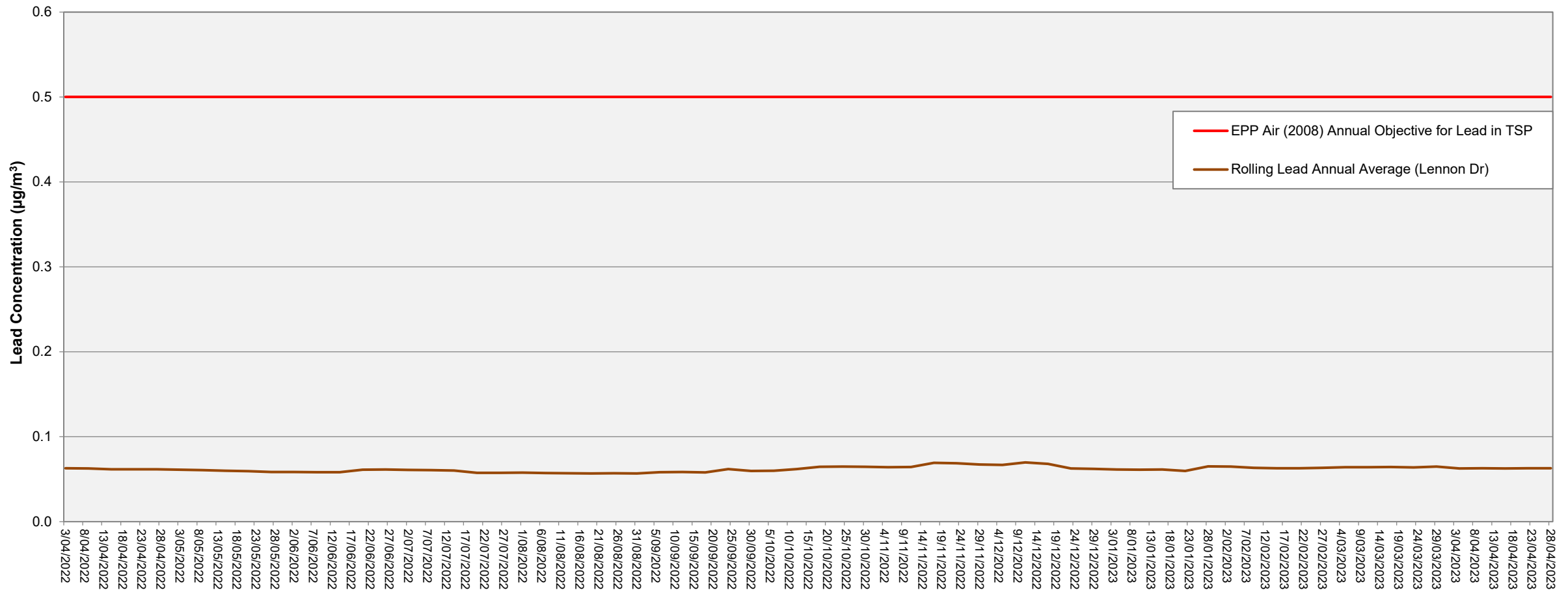
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site April 2022 – April 2023



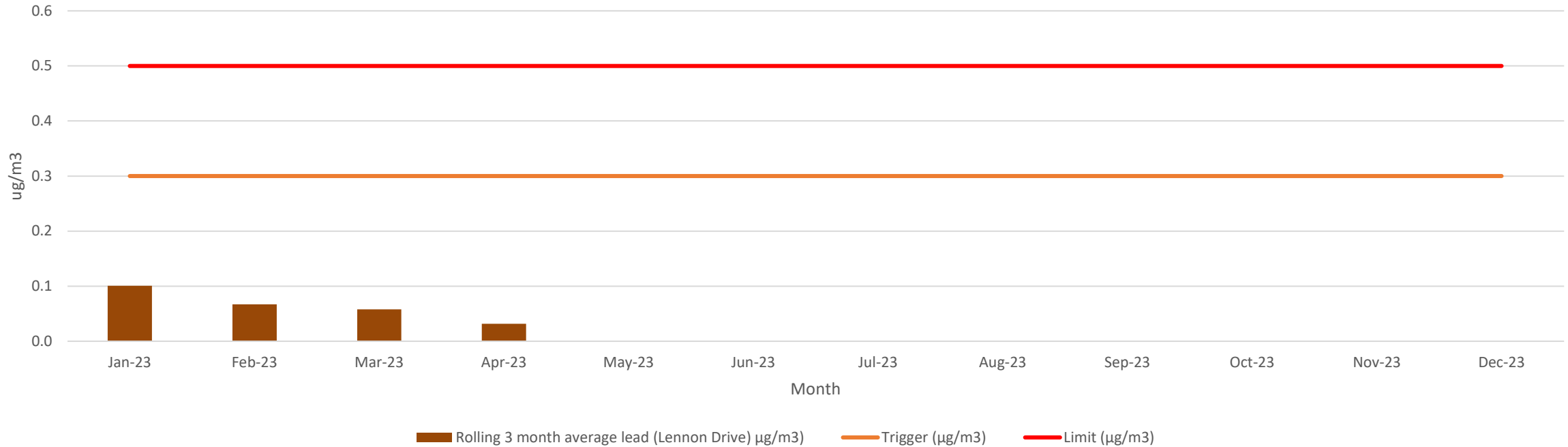
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site April 2022 – April 2023



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

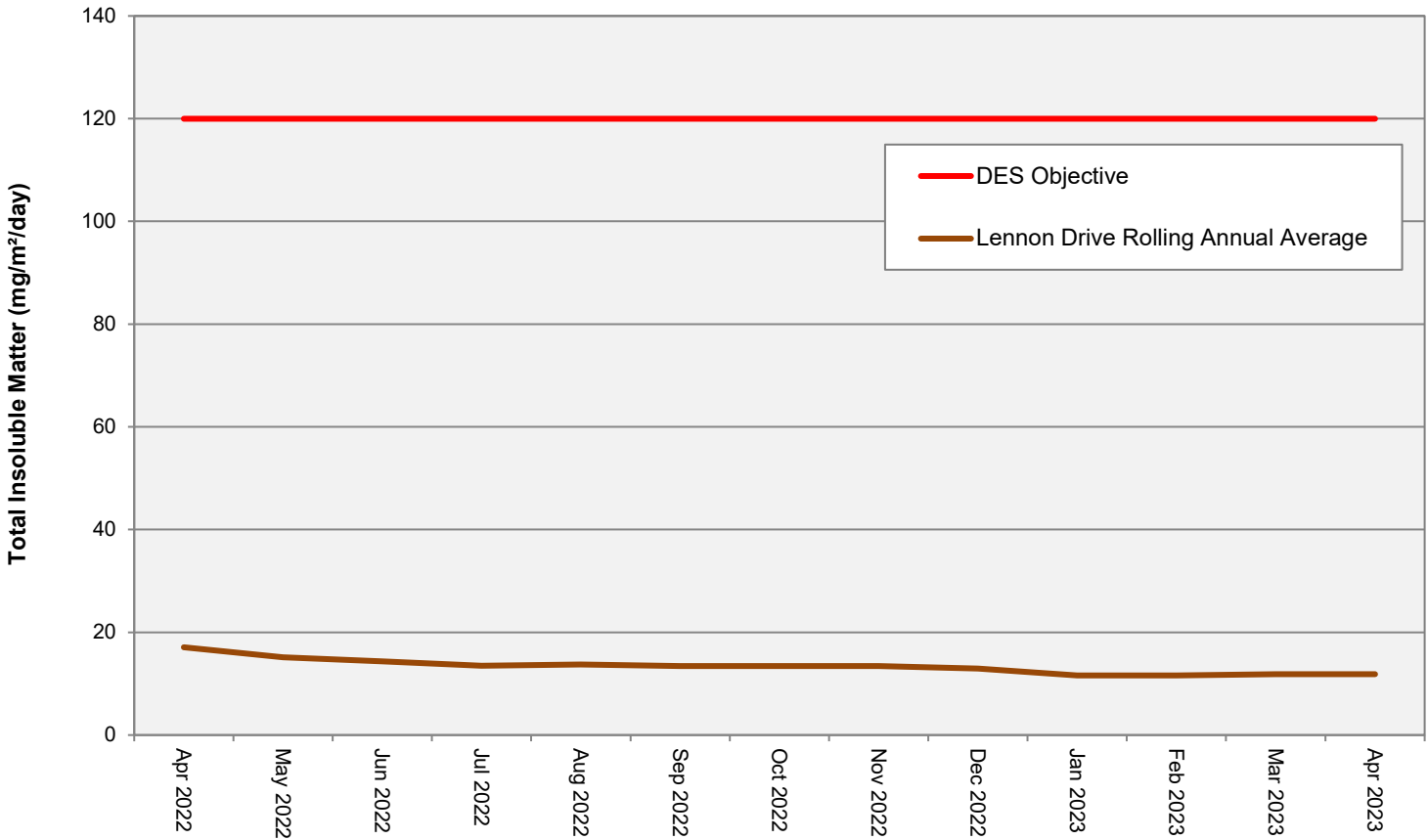
## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2023



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

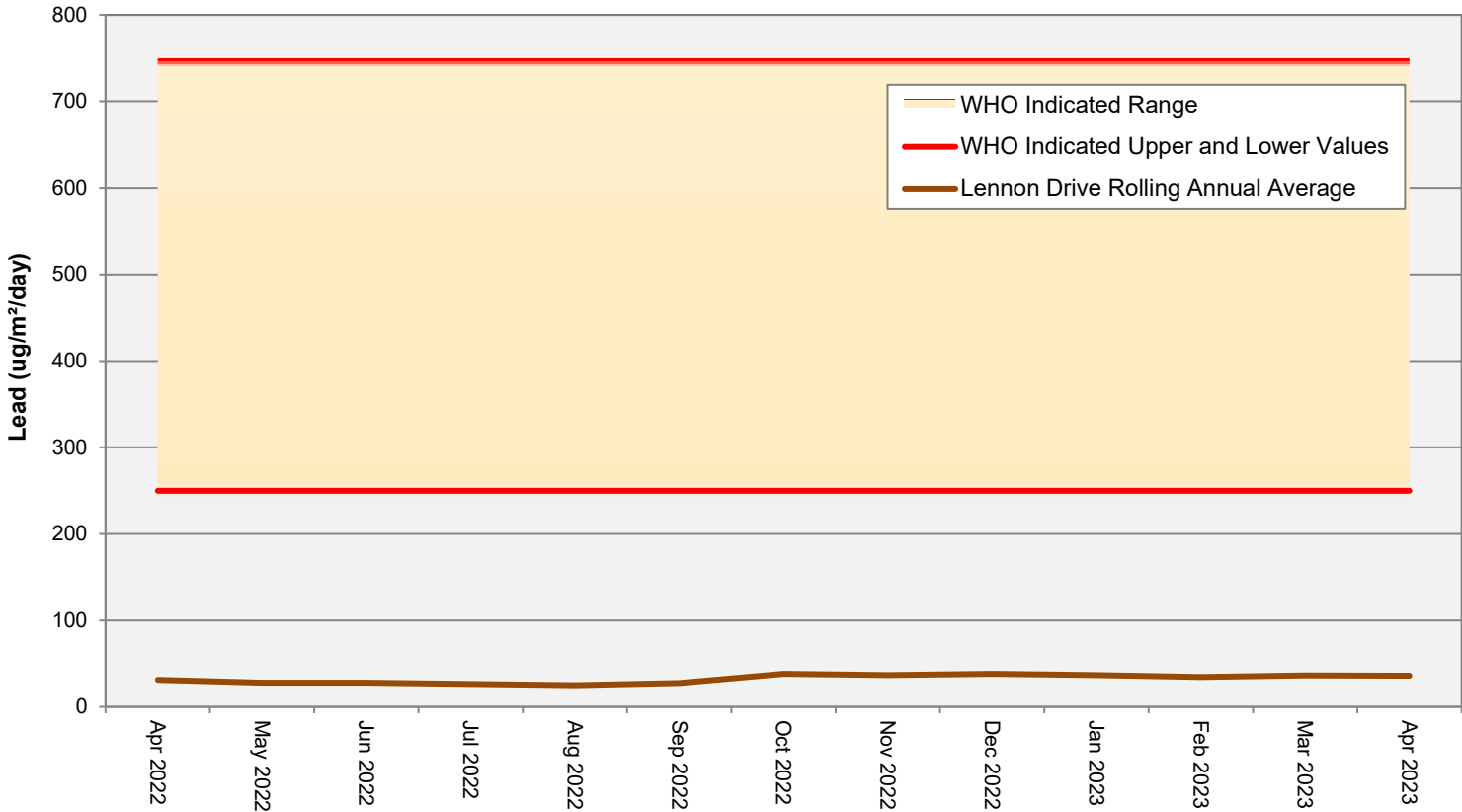
[Click here](#) for information on how to interpret this data

### Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site April 2022 – April 2023



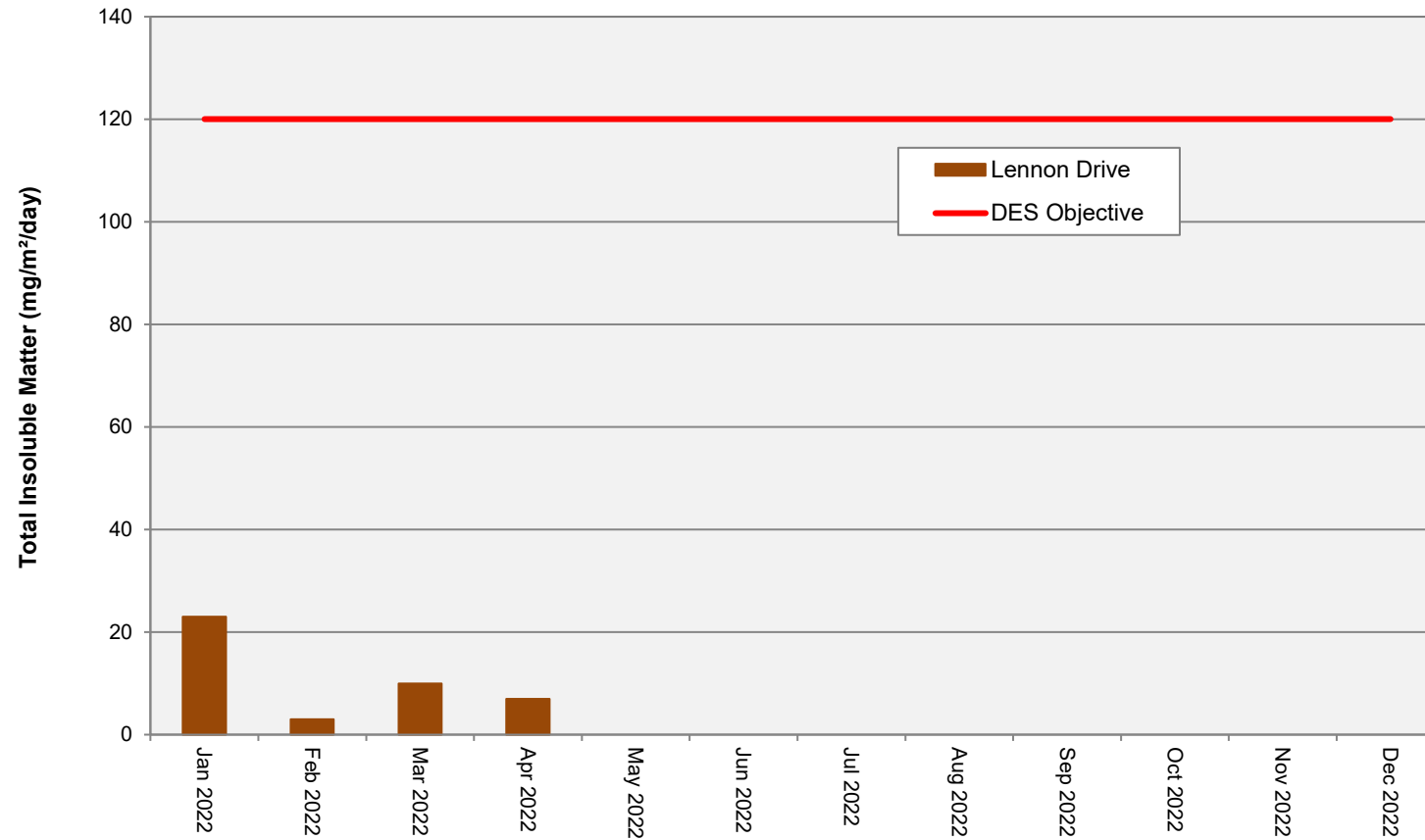
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result

### Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site APRIL 2022– APRIL 2023



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 2023



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.