

# Air Quality Dashboard | January | 2024

## 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

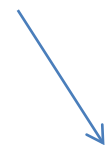
What cargo is handled at the Townsville Port?

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

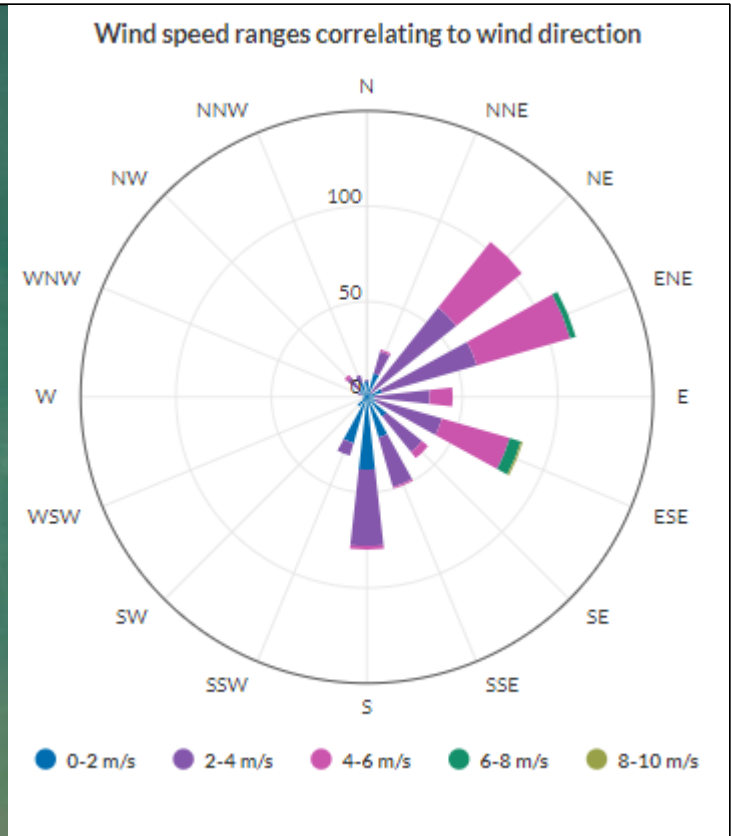
Air Quality Bulletin

Live Shipping Schedule

Rainfall Data - BOM

Air Quality Monitoring Plan

# Air Quality Monitoring Locations



# Shipping Movements in January 2024

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

Date In/Out	Vessel Name	Cargo	Berth
29 Dec 2023 - 02 Jan 2024	AUSTRALIAN BULKER	FERTILIZER (EXPORT)	8
01 Jan 2024 - 01 Jan 2024	DELPHINUS LEADER	MOTOR VEHICLES (IMPORT)	4
01 Jan 2024 - 02 Jan 2024	SUNSHINE EXPRESS	FUELS (IMPORT)	1
02 Jan 2024 - 02 Jan 2024	APHRODITE LEADER	MOTOR VEHICLES (IMPORT)	4
03 Jan 2024 - 04 Jan 2024	KOTA GABUNG	CONTAINERS (IMPORT)	4
04 Jan 2024 - 04 Jan 2024	SEVEN SEAS NAVIGATOR		10
04 Jan 2024 - 06 Jan 2024	FLORA DELMAS	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
05 Jan 2024 - 05 Jan 2024	HELLAS NEMESIS	FUELS (IMPORT)	1
05 Jan 2024 - 07 Jan 2024	NORD YILAN	FERTILIZER (EXPORT)	8
05 Jan 2024 - 07 Jan 2024	PACIFIC CONDOR	TYRES (IMPORT) CONTAINERS (EXPORT)	3 NTH
05 Jan 2024 - 07 Jan 2024	APOLLO.GR	SUGAR (EXPORT)	9
06 Jan 2024 - 06 Jan 2024	HANSA FREYBURG	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
06 Jan 2024 - 09 Jan 2024	KONDILI	CEMENT (IMPORT)	4
07 Jan 2024 - 09 Jan 2024	EIBE OLDENDORFF		3 STH
07 Jan 2024 - 12 Jan 2024	AFRICAN GANNET	SULPHUR (IMPORT)	10
07 Jan 2024 - 08 Jan 2024	POS OCEANIA	ZINC CONCENTRATES (EXPORT)	8
09 Jan 2024 - 10 Jan 2024	EIBE OLDENDORFF		8
10 Jan 2024 - 10 Jan 2024	RCC ASIA	MOTOR VEHICLES (IMPORT)	4
11 Jan 2024 - 12 Jan 2024	GREYMAN EXPRESS	CATTLE (EXPORT)	4
12 Jan 2024 - 13 Jan 2024	THE PROSPECTOR	BITUMEN (IMPORT)	1
12 Jan 2024 - 14 Jan 2024	OCEAN FORTUNE	SUGAR (EXPORT)	9
13 Jan 2024 - 17 Jan 2024	CHINA SPIRIT	UREA (IMPORT)	10
13 Jan 2024 - 14 Jan 2024	THERESA MICRONESIA	MOLASSES (IMPORT)	8
16 Jan 2024 - 17 Jan 2024	RCC ASIA	MOTOR VEHICLES (IMPORT)	3 NTH
16 Jan 2024 - 18 Jan 2024	CETUS CACHALOT	SUGAR (EXPORT)	9
17 Jan 2024 - 18 Jan 2024	LAUTOKA CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
18 Jan 2024 - 18 Jan 2024	GLORIOUS LEADER	MOTOR VEHICLES (IMPORT)	10

Date In/Out	Vessel Name	Cargo	Berth
19 Jan 2024 - 19 Jan 2024	BLUE BUTTERFLY	FUELS (IMPORT)	1
19 Jan 2024 - 20 Jan 2024	CAPE SPENCER	ZINC CONCENTRATES (EXPORT)	8
19 Jan 2024 - 20 Jan 2024	CHANG HANG XING YUN	FUELS (IMPORT)	1
20 Jan 2024 - 21 Jan 2024	IVS MAGPIE	FERTILIZER (EXPORT)	10
20 Jan 2024 - 22 Jan 2024	EDWARD OLDENDORFF	COPPER CONCENTRATES (EXPORT)	3 NTH
21 Jan 2024 - 22 Jan 2024	MIRACULOUS ACE	MOTOR VEHICLES (IMPORT)	4
22 Jan 2024 - 24 Jan 2024	VALENTINA	FERTILIZER (EXPORT)	8
22 Jan 2024 - 23 Jan 2024	EDWARD OLDENDORFF	COPPER CONCENTRATES (EXPORT)	11
22 Jan 2024 - 23 Jan 2024	GUDALI EXPRESS	CATTLE (EXPORT)	4
23 Jan 2024 - 23 Jan 2024	SEVEN SEAS EXPLORER		10
27 Jan 2024 - 28 Jan 2024	NORD MAJESTIC	FUELS (IMPORT)	1
27 Jan 2024 - 29 Jan 2024	AFRICAN LOGRUNNER	ZINC CONCENTRATES (EXPORT)	8
28 Jan 2024 - 29 Jan 2024	WOORYANG CLES		4
28 Jan 2024 - 29 Jan 2024	ANL DHAMBI	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 STH
28 Jan 2024 - 29 Jan 2024	STI LARVOTTO	FUELS (IMPORT)	1
29 Jan 2024 - 31 Jan 2024	COPENHAGEN BULKER	CONCENTRATES (EXPORT)	3 NTH
30 Jan 2024 - 30 Jan 2024	GRAND VICTORY	MOTOR VEHICLES (IMPORT)	4
31 Jan 2024 - 31 Jan 2024	SOFRANA TOURVILLE	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 NTH



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

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

OR

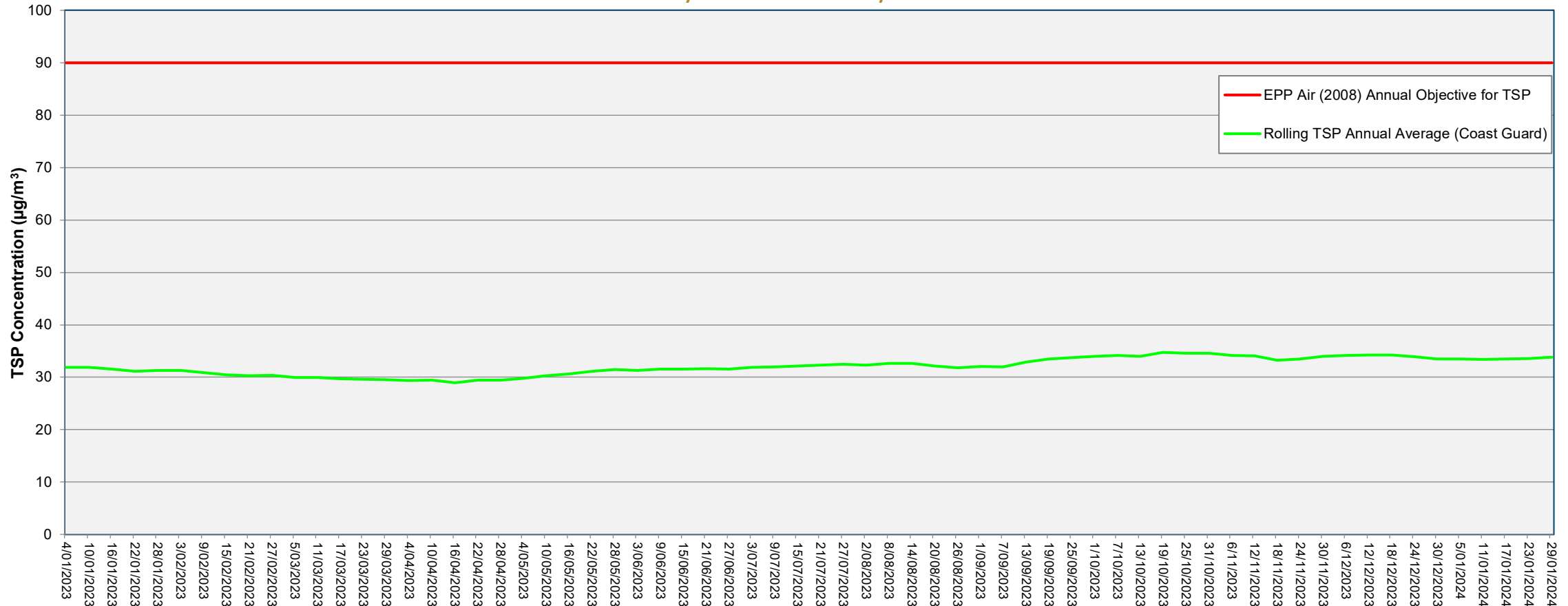
Phone 07 4781 1500 and asked to be added to the list.

## Ask a Question / Provide Feedback

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

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

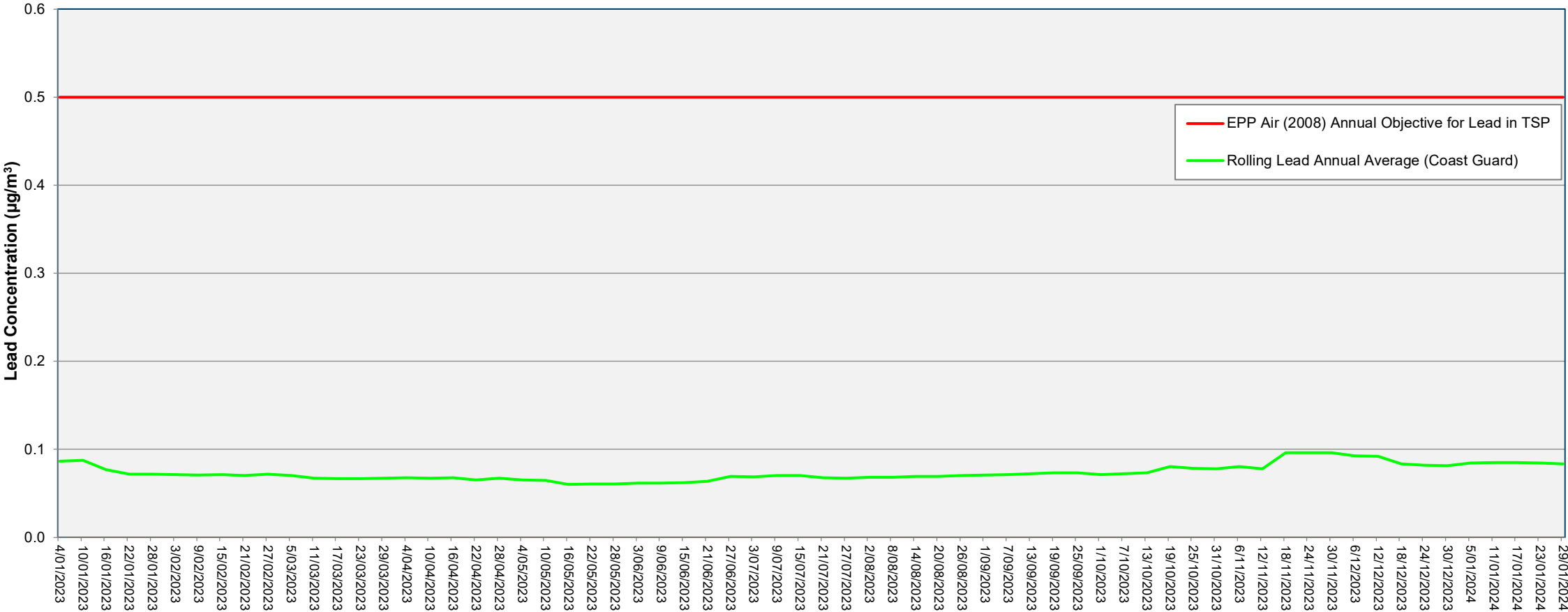
## Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site January 2023 – January 2024



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  
No data available for 29/01/2024 due to filter being damaged by rain during Cyclone

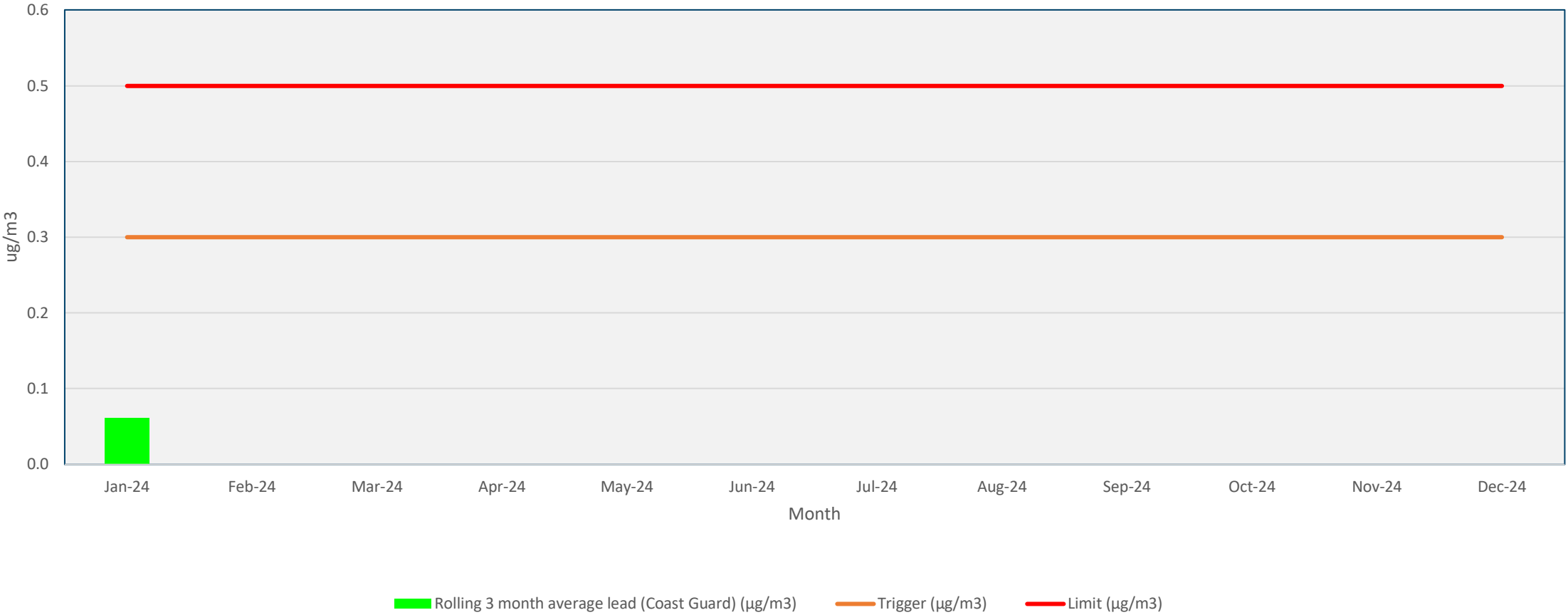
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### Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site January 2023 – January 2024



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### Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2024

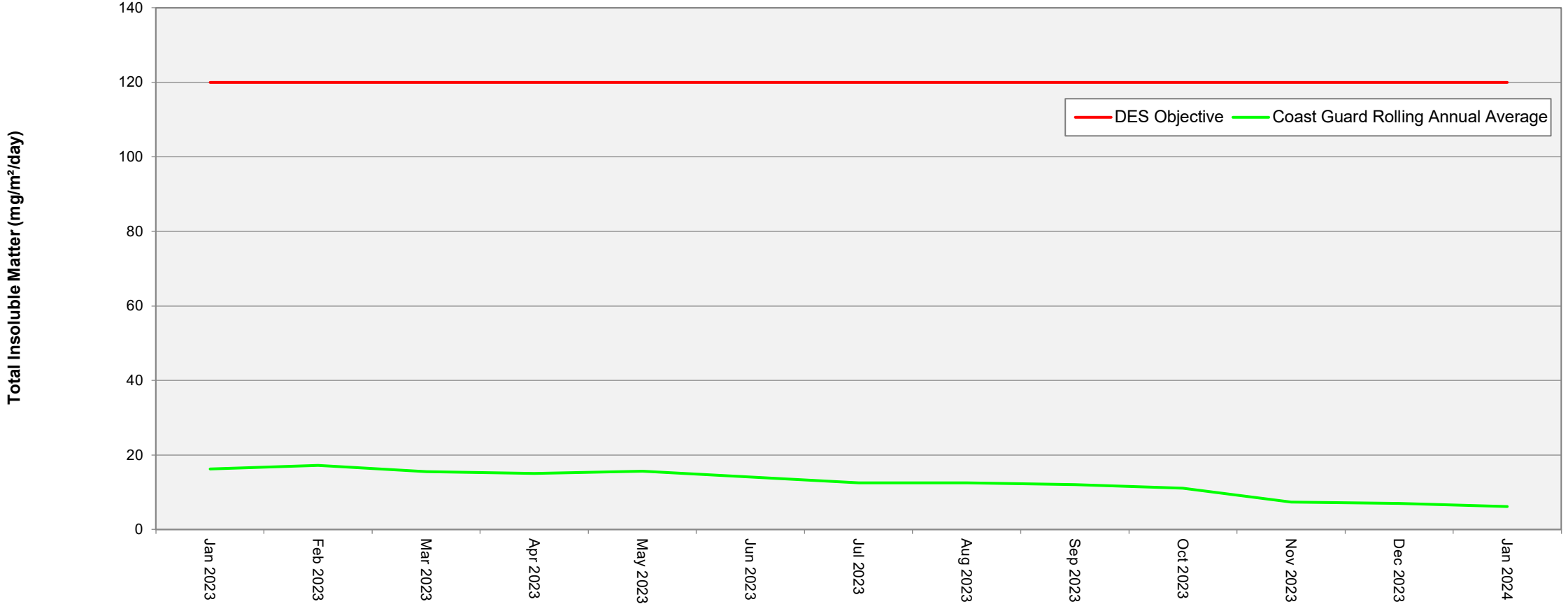


Note: Rolling 3-month average = the moving average of the previous 2 months and the current month result  
No data available for 29/01/2024 due to filter being damaged by rain during Cyclone



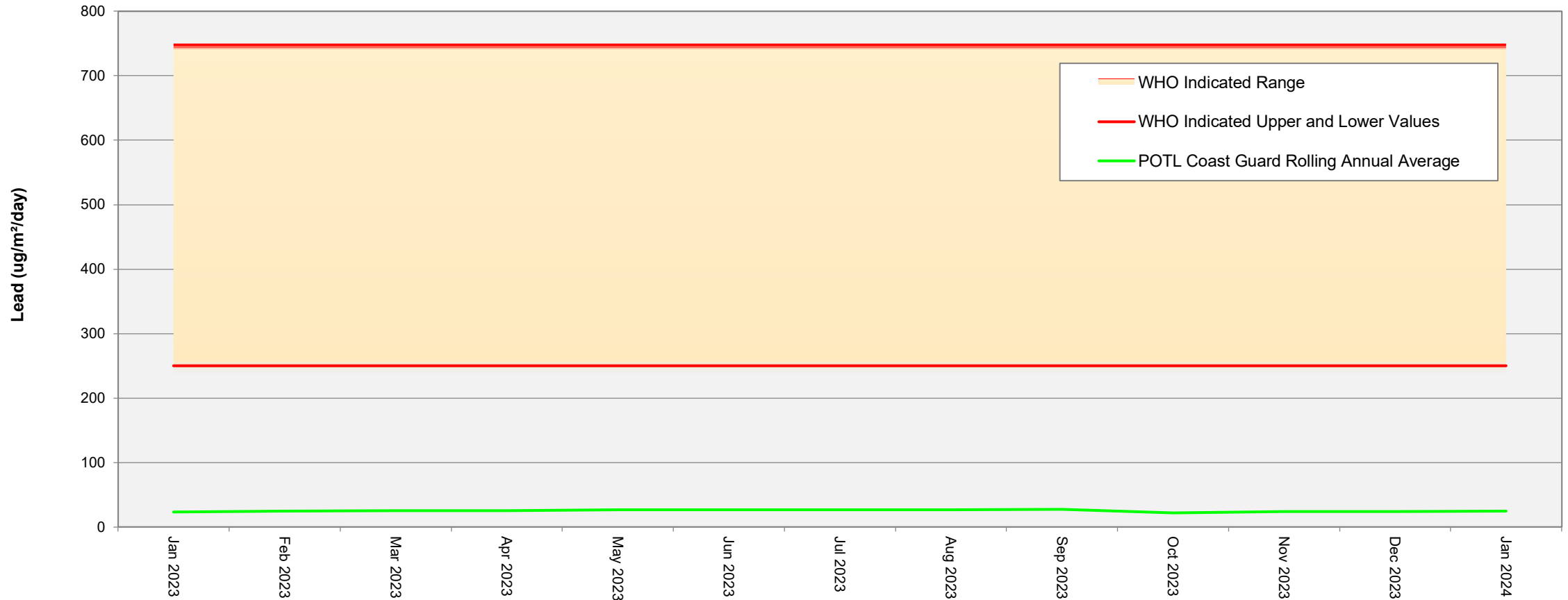
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### Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site January 2023 – January 2024



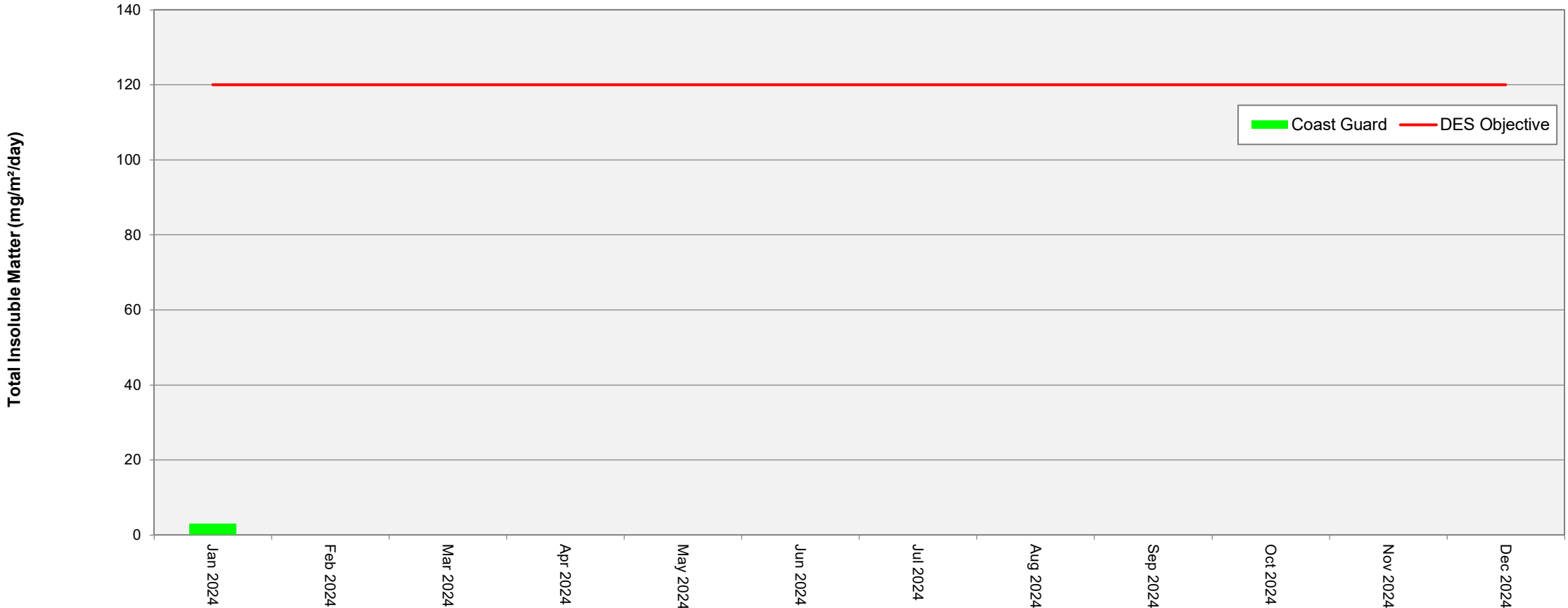
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
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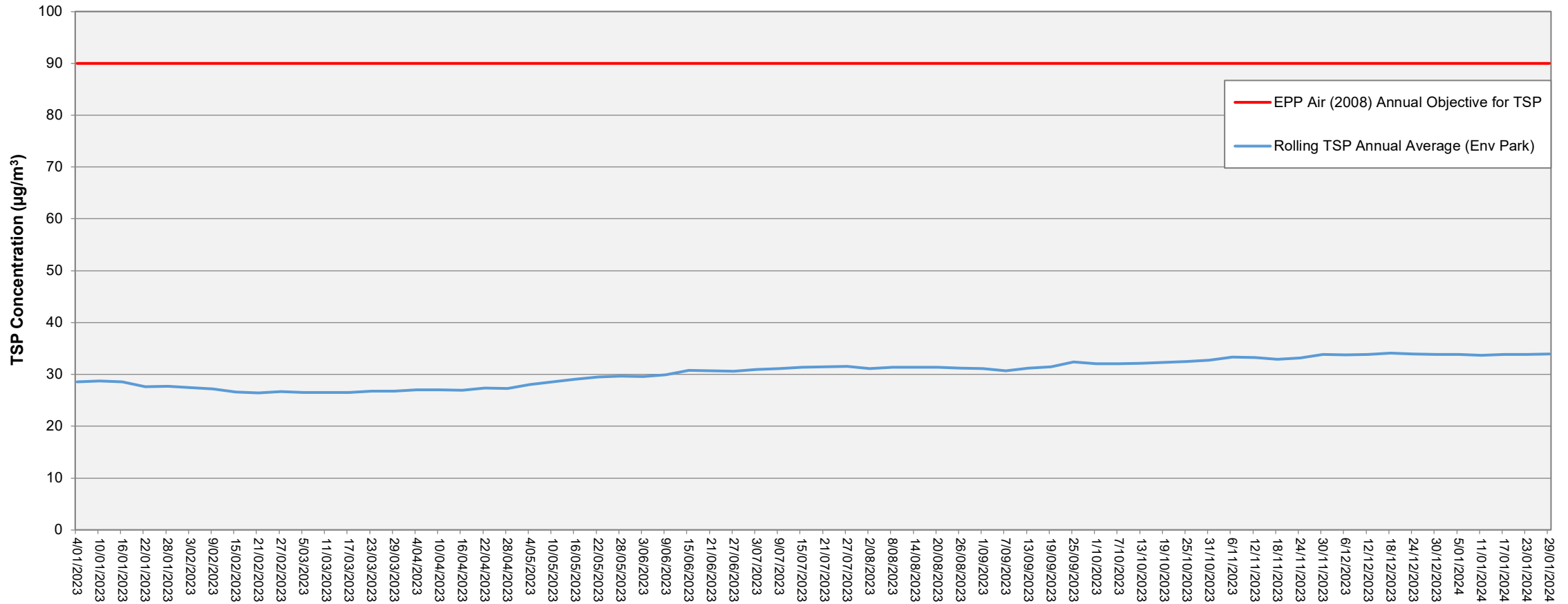
### Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2024



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

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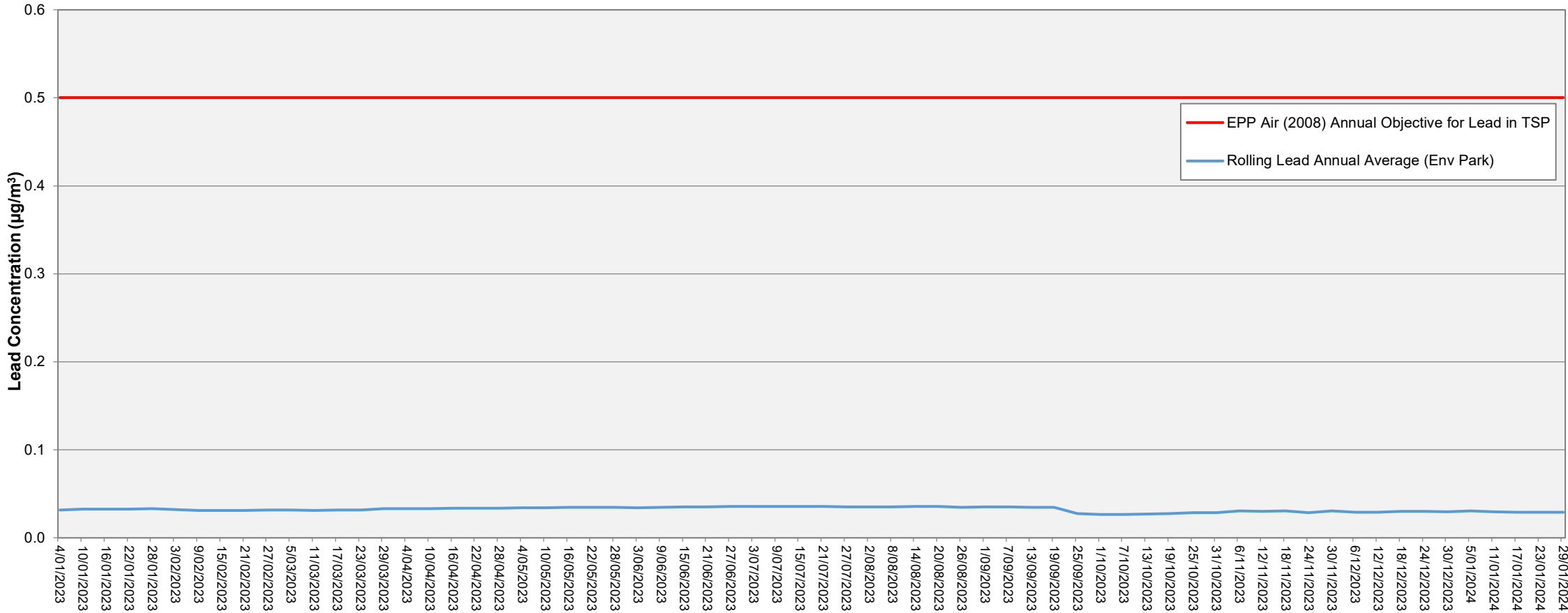
## Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site January 2023 – January 2024



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

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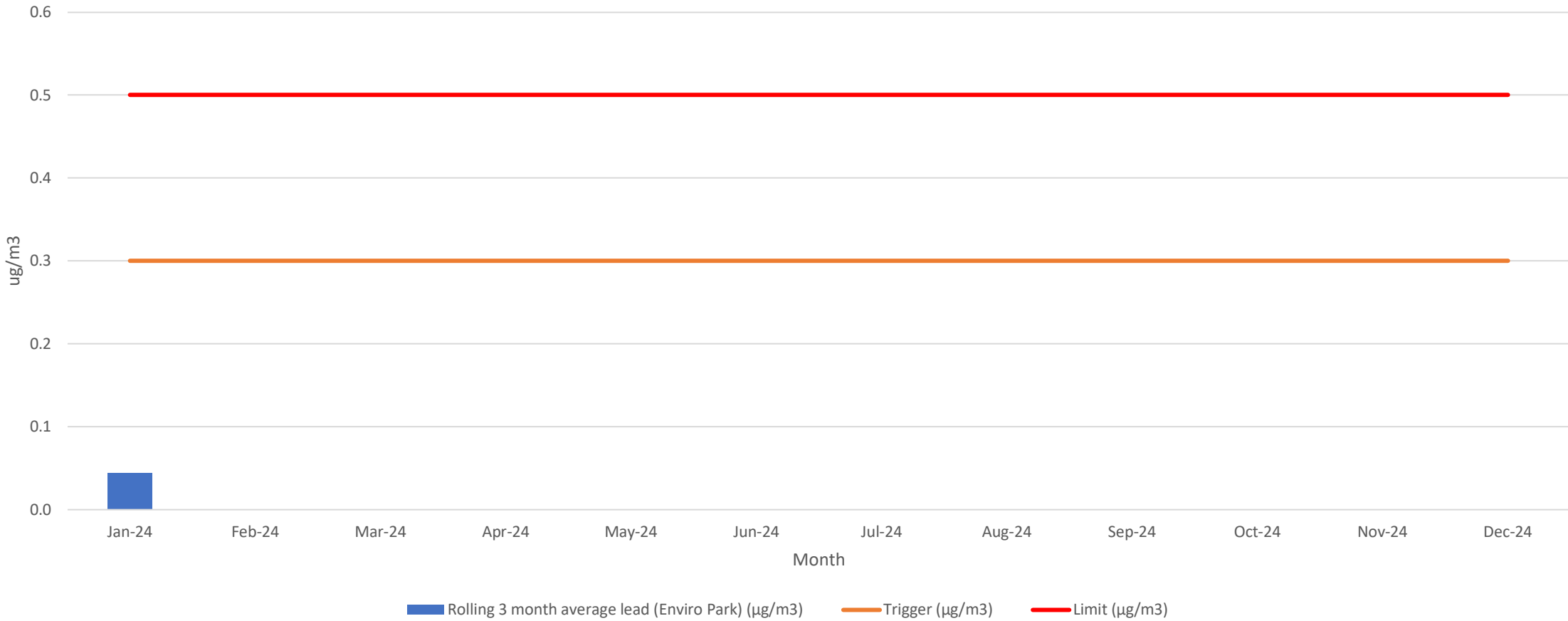
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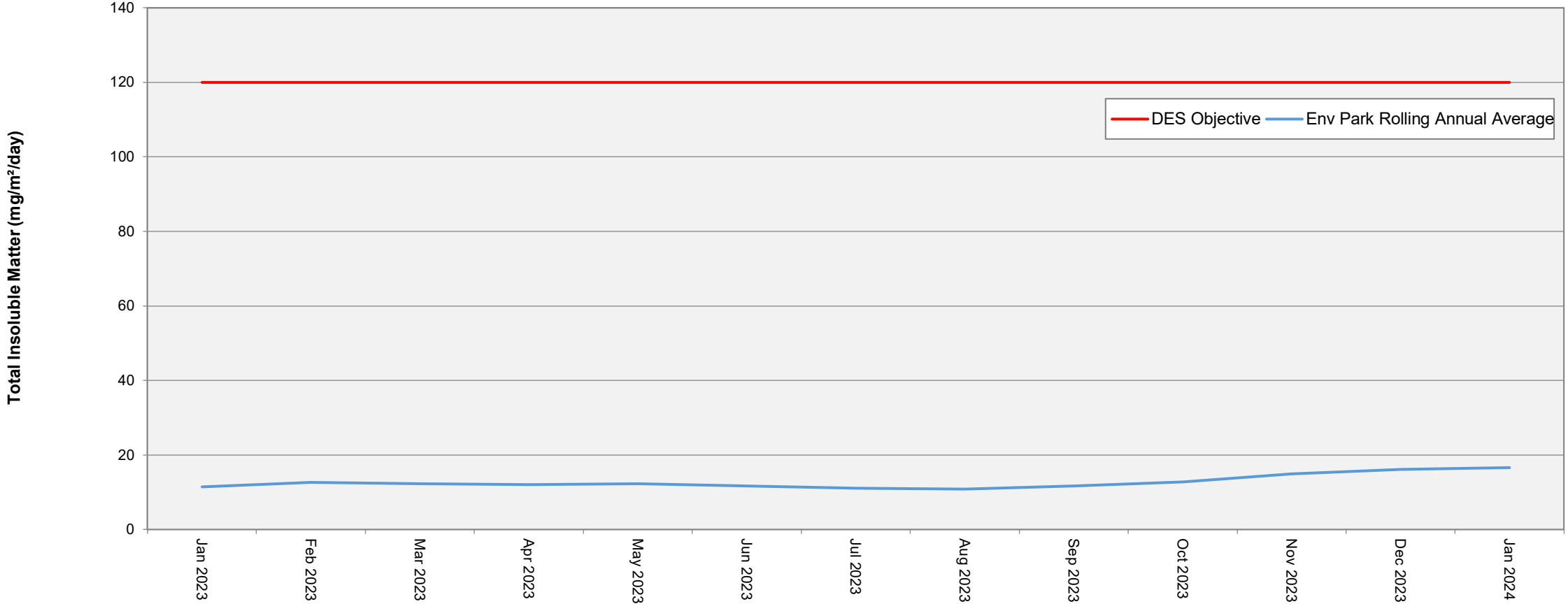
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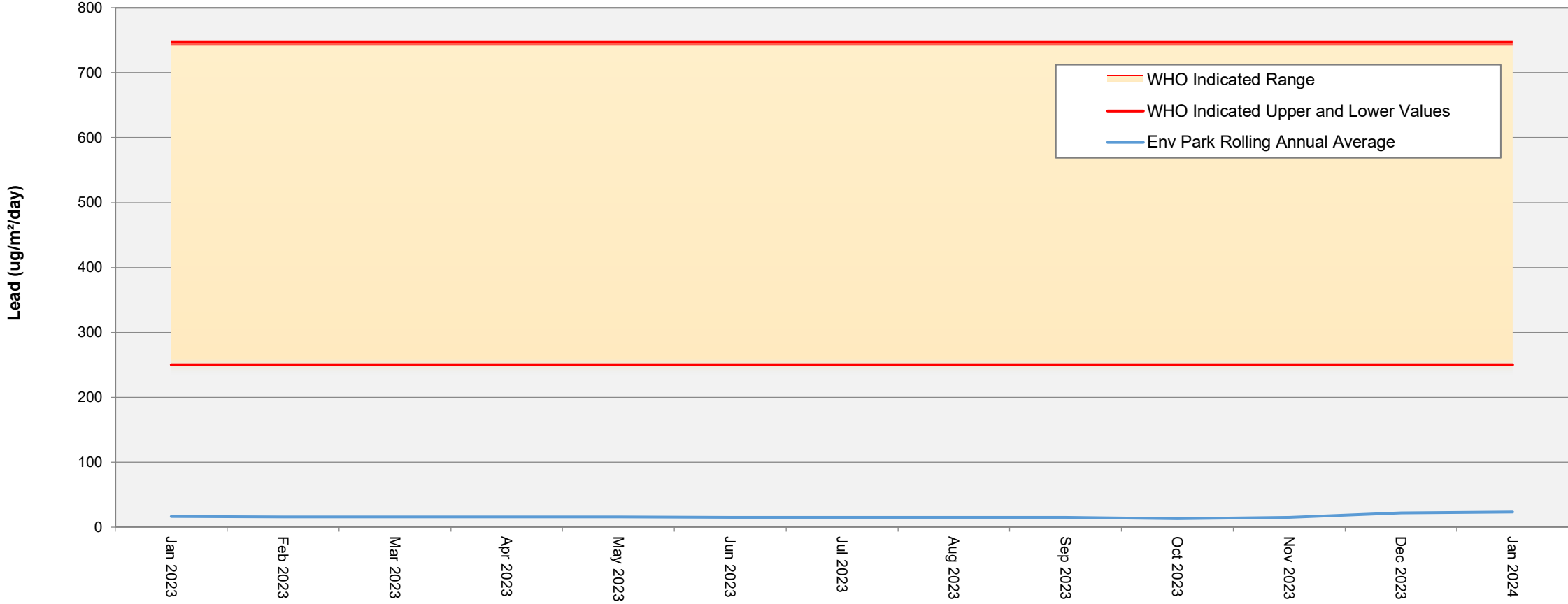
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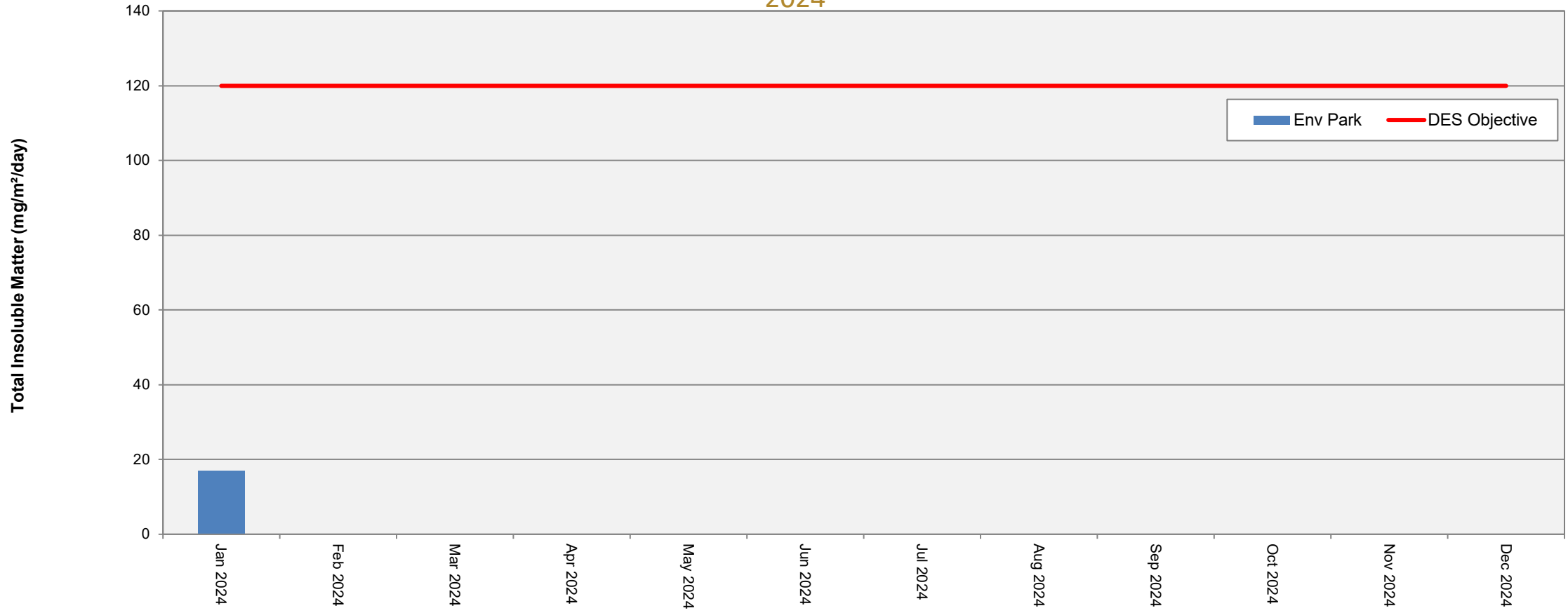


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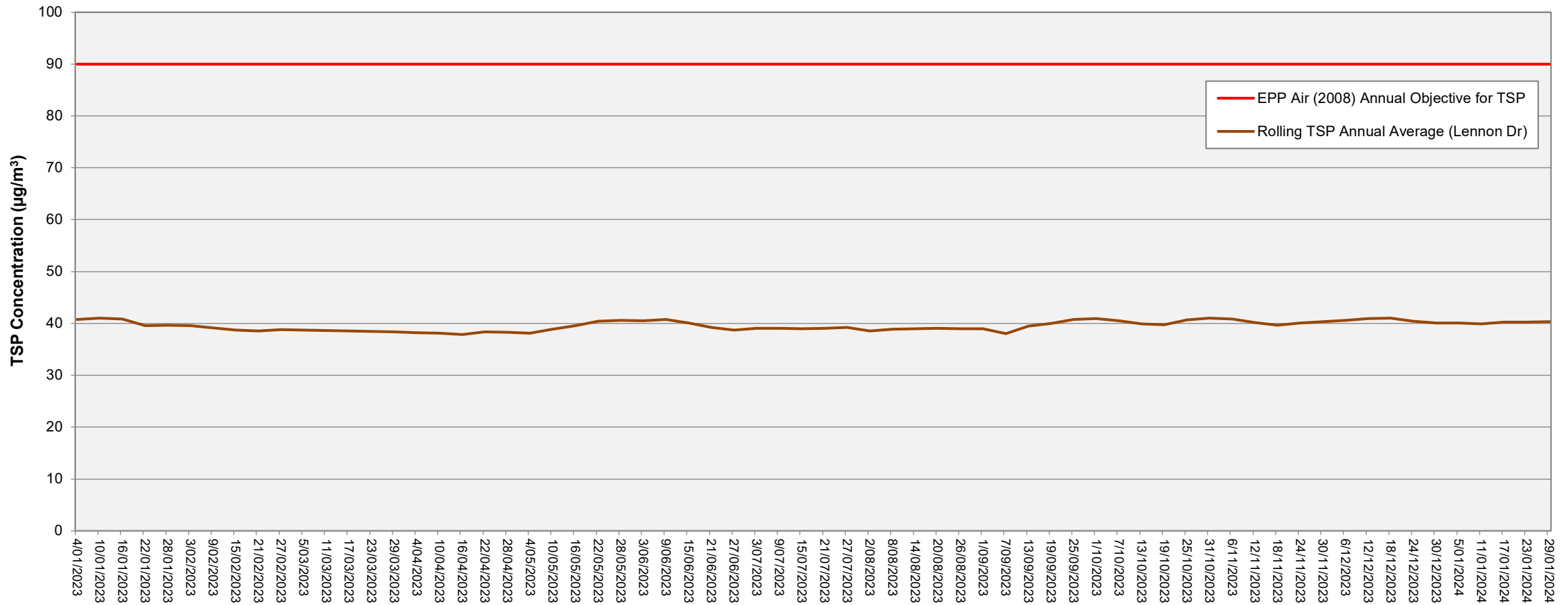
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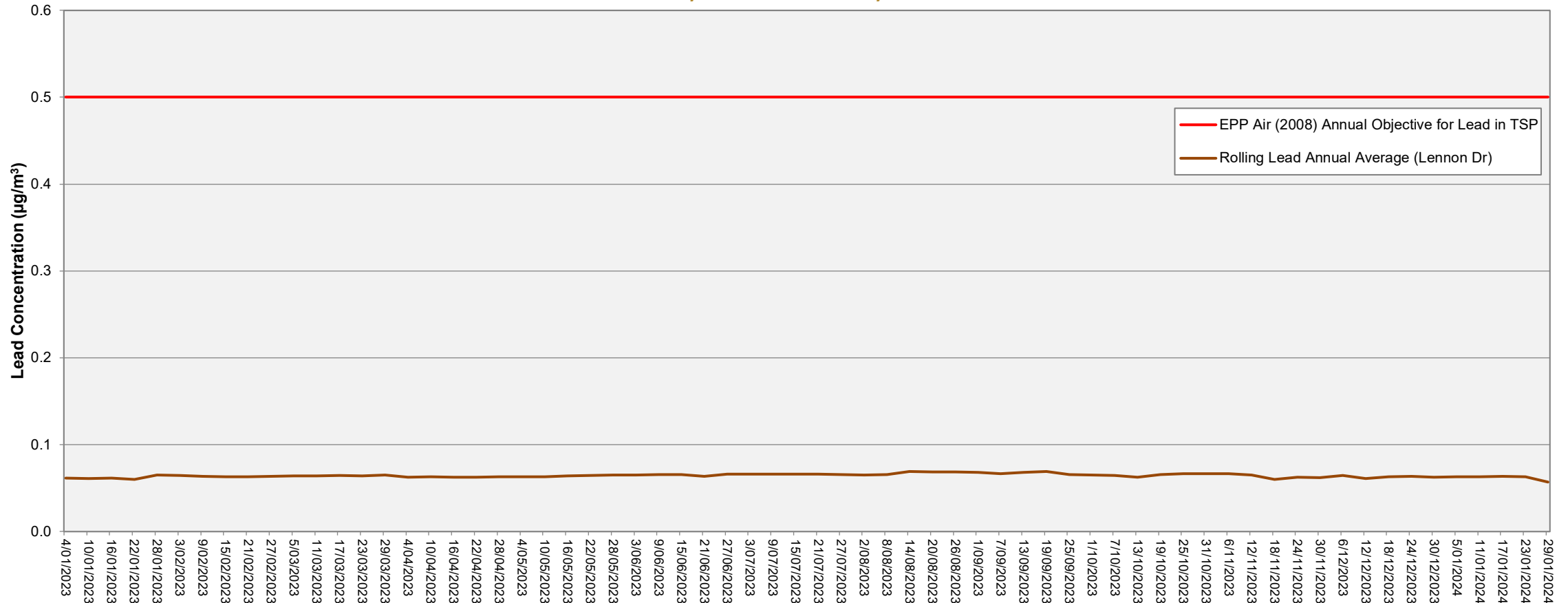
## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site January 2023 – January 2024



Note: TSP Concentration units = micrograms per cubic metre per 24-hour period  
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[Click here](#) for information on how to interpret this data

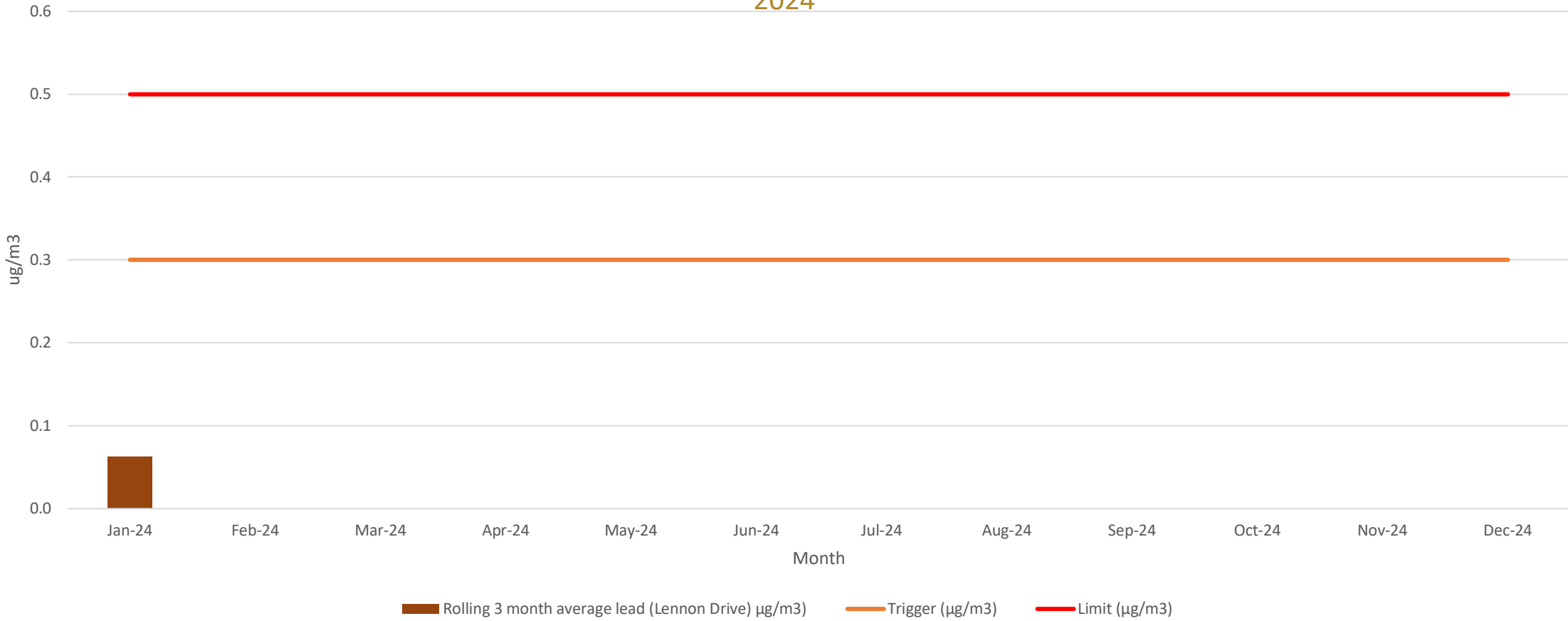
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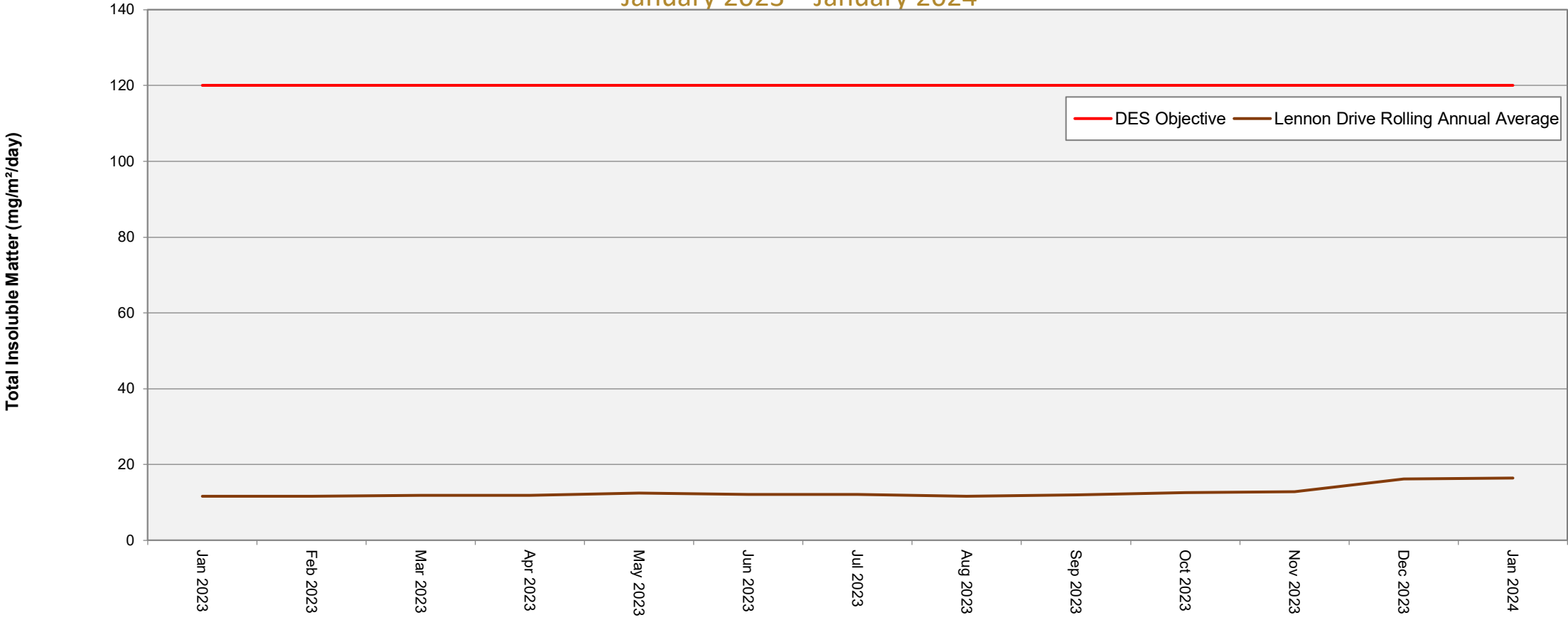
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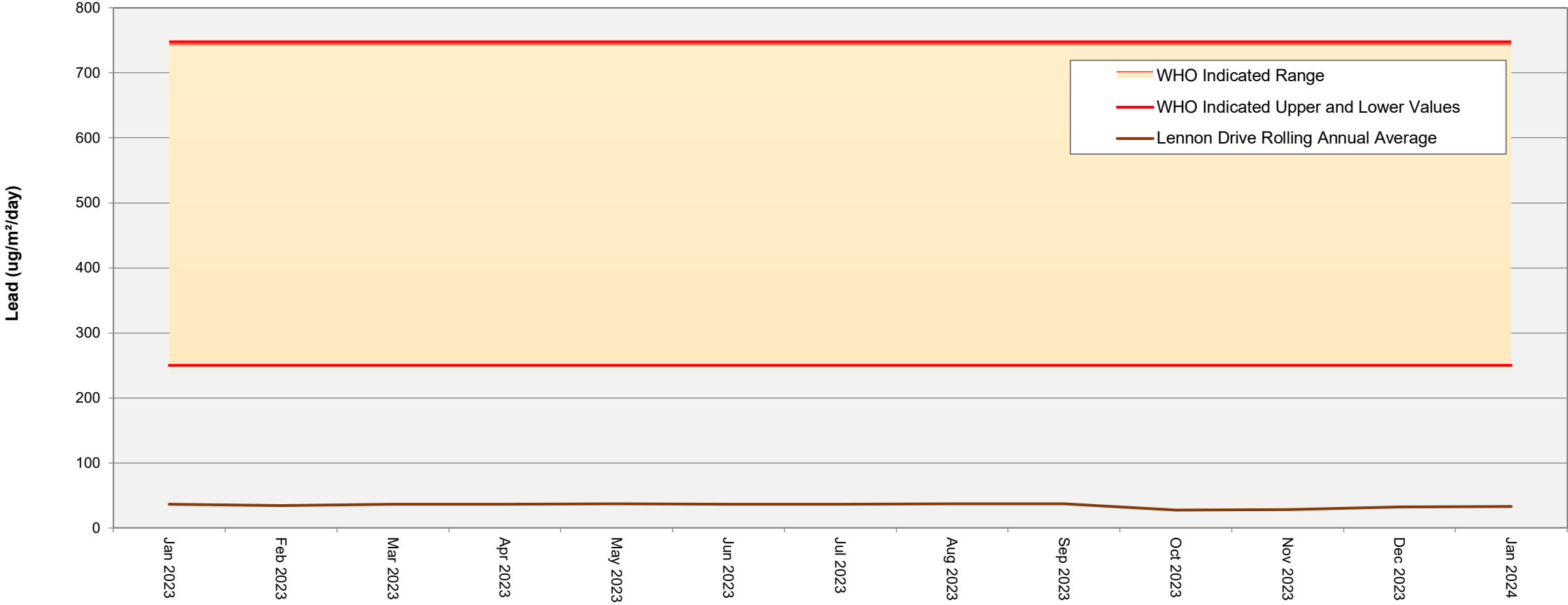
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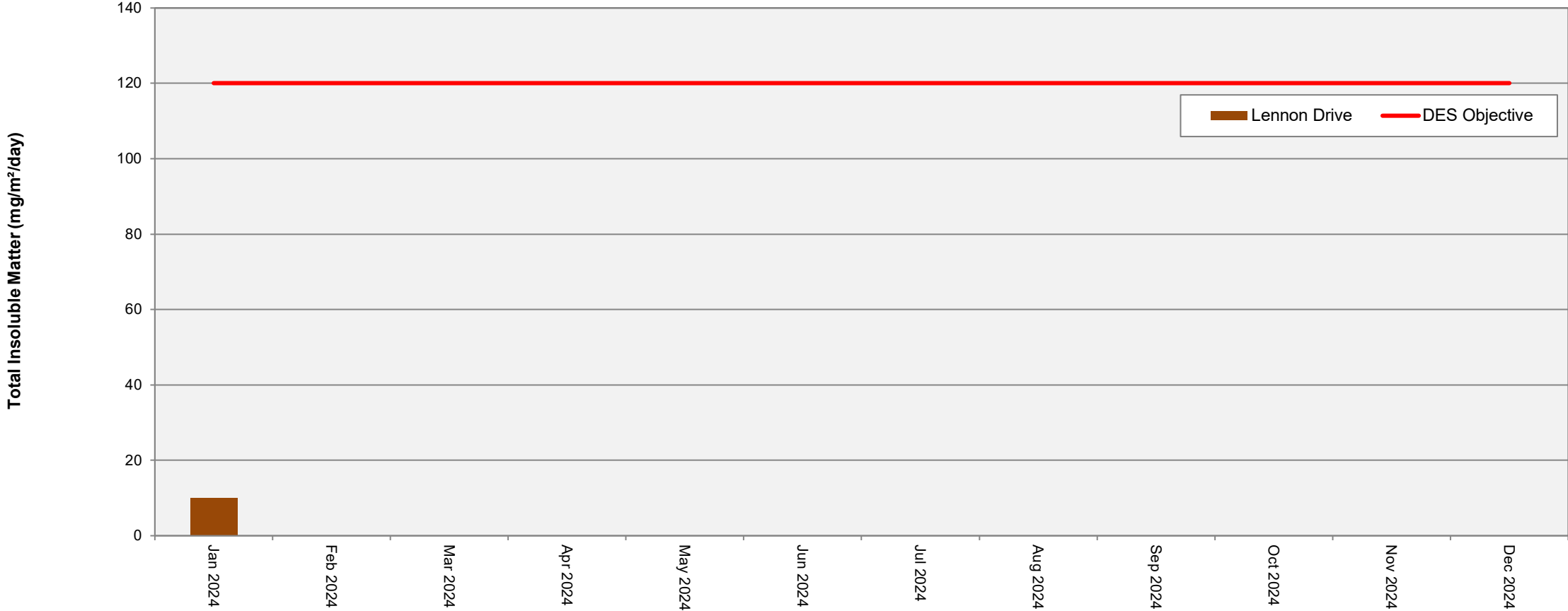
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## **This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016**

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.