

Air Quality Dashboard | October | 2022

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

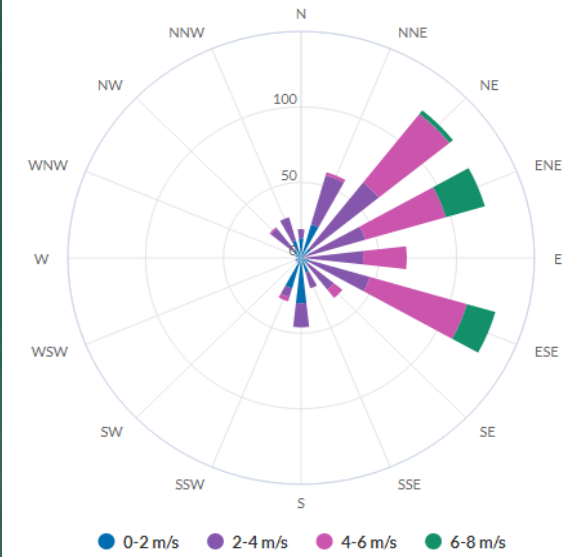
Rainfall Data - BOM

Air Quality Monitoring Plan

Air Quality Monitoring Locations



Wind speed ranges correlating to wind direction



Shipping Movements in October 2022

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

Date In/Out	Vessel Name	Cargo	Berth
01 Oct 2022 - 03 Oct 2022	MAJESTIC MARINA	SCRAP (EXPORT)	9
02 Oct 2022 - 03 Oct 2022	ACUITY	LEAD INGOTS (EXPORT)	3 STH
02 Oct 2022 - 03 Oct 2022	PALANCA MIAMI	BITUMEN (IMPORT)	1
02 Oct 2022 - 05 Oct 2022	PACIFIC ACE	FERTILIZER (EXPORT)	8
03 Oct 2022 - 05 Oct 2022	ADF	ARMY EQUIPMENT (IMPORT)	10
03 Oct 2022 - 06 Oct 2022	SAYSIAT BENEFIT	TYRES (IMPORT)	3 NTH
04 Oct 2022 - 04 Oct 2022	SOFRANA TOURVILLE	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
04 Oct 2022 - 05 Oct 2022	DAREEN	FODDER (EXPORT)	3 STH
04 Oct 2022 - 05 Oct 2022	MOUNT OWEN	SUGAR (EXPORT)	9
04 Oct 2022 - 05 Oct 2022	ST.PETRI	FUELS (IMPORT)	1
04 Oct 2022 - 06 Oct 2022	NADI CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
05 Oct 2022 - 07 Oct 2022	NH SIRI	FUELS (IMPORT)	1
06 Oct 2022 - 07 Oct 2022	THEMIS LEADER	MOTOR VEHICLES (IMPORT)	10
06 Oct 2022 - 08 Oct 2022	KONDILI	CEMENT (IMPORT)	4
06 Oct 2022 - 08 Oct 2022	THERESA ORION	MOLASSES (EXPORT)	9
06 Oct 2022 - 09 Oct 2022	KYOWA ROSE	GENERAL CARGO + CONTAINERS (IMPORT) EMPTY CONTAINERS (EXPORT)	3 NTH
06 Oct 2022 - 11 Oct 2022	AFRICAN EGRET	SULPHUR (IMPORT)	8
07 Oct 2022 - 08 Oct 2022	AMBER ARROW	MOTOR VEHICLES (IMPORT)	10
08 Oct 2022 - 09 Oct 2022	FOREVER HARMONY	FUELS (IMPORT)	1
08 Oct 2022 - 13 Oct 2022	XING NING HAI	COKE (IMPORT)	3 STH
09 Oct 2022 - 09 Oct 2022	BRAHMAN EXPRESS	CATTLE (EXPORT)	4
09 Oct 2022 - 10 Oct 2022	GOLDEN CREATION	FUELS (IMPORT)	1
09 Oct 2022 - 11 Oct 2022	DANZIGERGRACHT	MACHINERY (IMPORT)	3 NTH
10 Oct 2022 - 11 Oct 2022	GOLDEN LEADER	SULPHURIC ACID (EXPORT)	1
11 Oct 2022 - 12 Oct 2022	AFRICAN EGRET	SULPHUR (IMPORT)	10
11 Oct 2022 - 13 Oct 2022	CHERRY POINT	SUGAR (EXPORT)	9
12 Oct 2022 - 13 Oct 2022	LAUTOKA CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
12 Oct 2022 - 13 Oct 2022	GOLDEN CREATION	FUELS (IMPORT)	1
13 Oct 2022 - 14 Oct 2022	ANDREA ENTERPRISE	UREA (IMPORT)	10
13 Oct 2022 - 14 Oct 2022	NH ERLE	FUELS (IMPORT)	1
13 Oct 2022 - 14 Oct 2022	QI CHENG 3	ZINC CONCENTRATES (EXPORT)	3 STH
13 Oct 2022 - 15 Oct 2022	WYUNA	CEMENT (IMPORT)	4
14 Oct 2022 - 16 Oct 2022	EIDSVAG OMEGA	GENERAL CARGO (IMPORT)	10
14 Oct 2022 - 16 Oct 2022	THERESA MICRONESIA	MOLASSES (EXPORT)	9
16 Oct 2022 - 16 Oct 2022	GUDALI EXPRESS	CATTLE (EXPORT)	4
17 Oct 2022 - 17 Oct 2022	EUPHRATES HIGHWAY	MOTOR VEHICLES (IMPORT)	4
17 Oct 2022 - 18 Oct 2022	QI CHENG 3	ZINC CONCENTRATES (EXPORT)	3 STH
18 Oct 2022 - 20 Oct 2022	OCEAN SATOKO	FERTILIZER (EXPORT)	8

Date In/Out	Vessel Name	Cargo	Berth
19 Oct 2022 - 20 Oct 2022	HERCULES LEADER	MOTOR VEHICLES (IMPORT)	9
20 Oct 2022 - 21 Oct 2022	ANL KOKODA	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
20 Oct 2022 - 22 Oct 2022	XING NING HAI	ZINC CONCENTRATES (EXPORT)	3 STH
20 Oct 2022 - 22 Oct 2022	QI CHENG 3	ZINC CONCENTRATES (EXPORT)	8
21 Oct 2022 - 24 Oct 2022	ADF	ARMY EQUIPMENT (IMPORT)	10
22 Oct 2022 - 23 Oct 2022	XING NING HAI	ZINC CONCENTRATES (EXPORT)	8
22 Oct 2022 - 23 Oct 2022	HANSA FREYBURG	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	3 STH
22 Oct 2022 - 24 Oct 2022	CSC AUSPICIOUS	FUELS (IMPORT)	1
23 Oct 2022 - 25 Oct 2022	BRONZE LADY	TYRES (IMPORT)	3 STH
24 Oct 2022 - 28 Oct 2022	STAR KVARVEN	ZINC INGOTS (EXPORT)	10
26 Oct 2022 - 27 Oct 2022	SUVA CHIEF	CONTAINERS (IMPORT) CONTAINERS (EXPORT)	4
26 Oct 2022 - 27 Oct 2022	AFRICAN PIPIT	ZINC CONCENTRATES (EXPORT)	8
26 Oct 2022 - 29 Oct 2022	DL LAVENDER	CONCENTRATES (EXPORT)	11
26 Oct 2022 - 29 Oct 2022	LIGNUM FIBER	FERTILIZER (IMPORT)	9
27 Oct 2022 - 28 Oct 2022	SJARD	TYRES (IMPORT)	3 STH
28 Oct 2022 - 28 Oct 2022	AAL SINGAPORE	GENERAL/BREAK BULK (IMPORT)	3 NTH
28 Oct 2022 - 31 Oct 2022	ADF		10
29 Oct 2022 - 31 Oct 2022	THERESA ORION	MOLASSES (EXPORT)	8
30 Oct 2022 - 31 Oct 2022	PETROLIMEX 21	FUELS (IMPORT)	1
30 Sep 2022 - 01 Oct 2022	SEA SMILE	CONCENTRATES (EXPORT)	8



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

Visit our website and subscribe here www.townsville-port.com.au/community/

OR

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

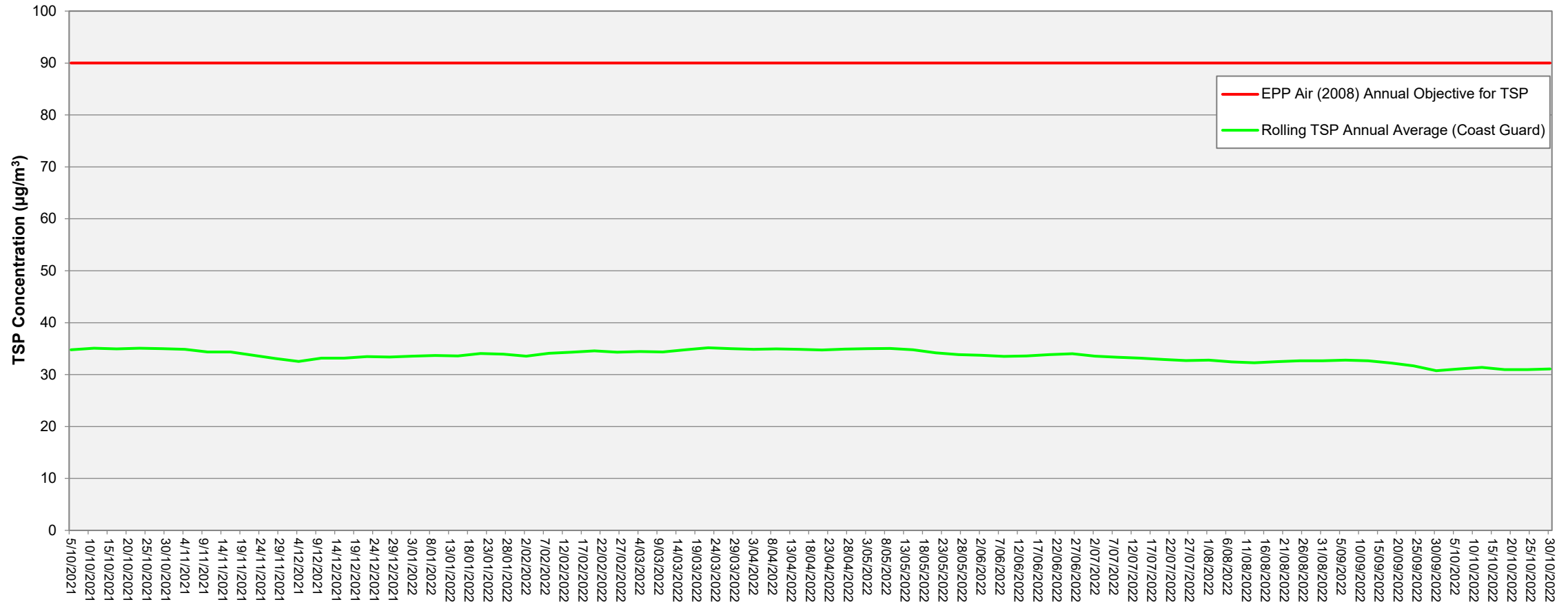
OR

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

Ask a Question / Provide Feedback

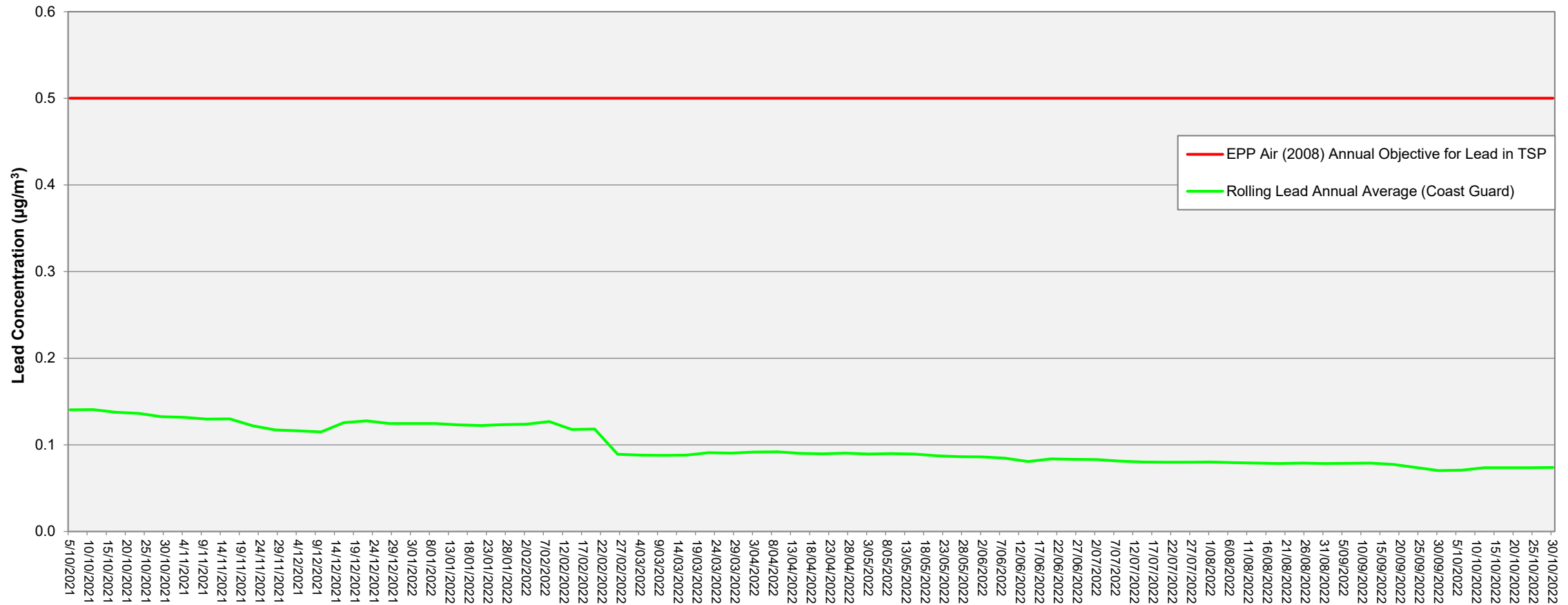
Send your enquiry or feedback to community@townsvilleport.com.au

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



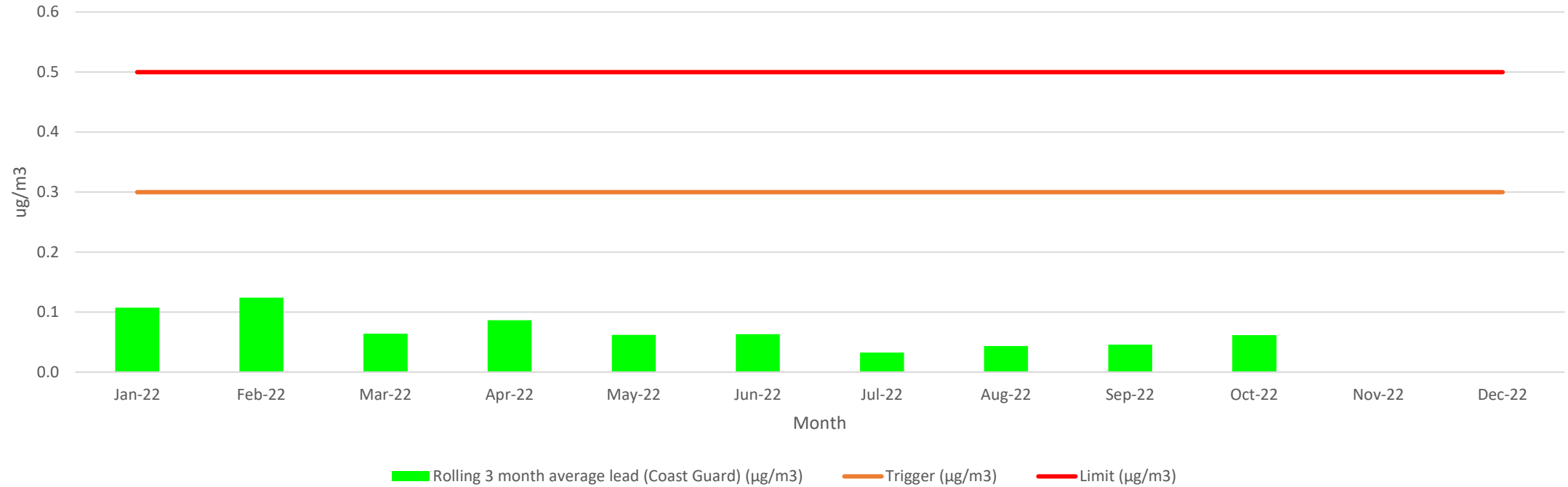
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



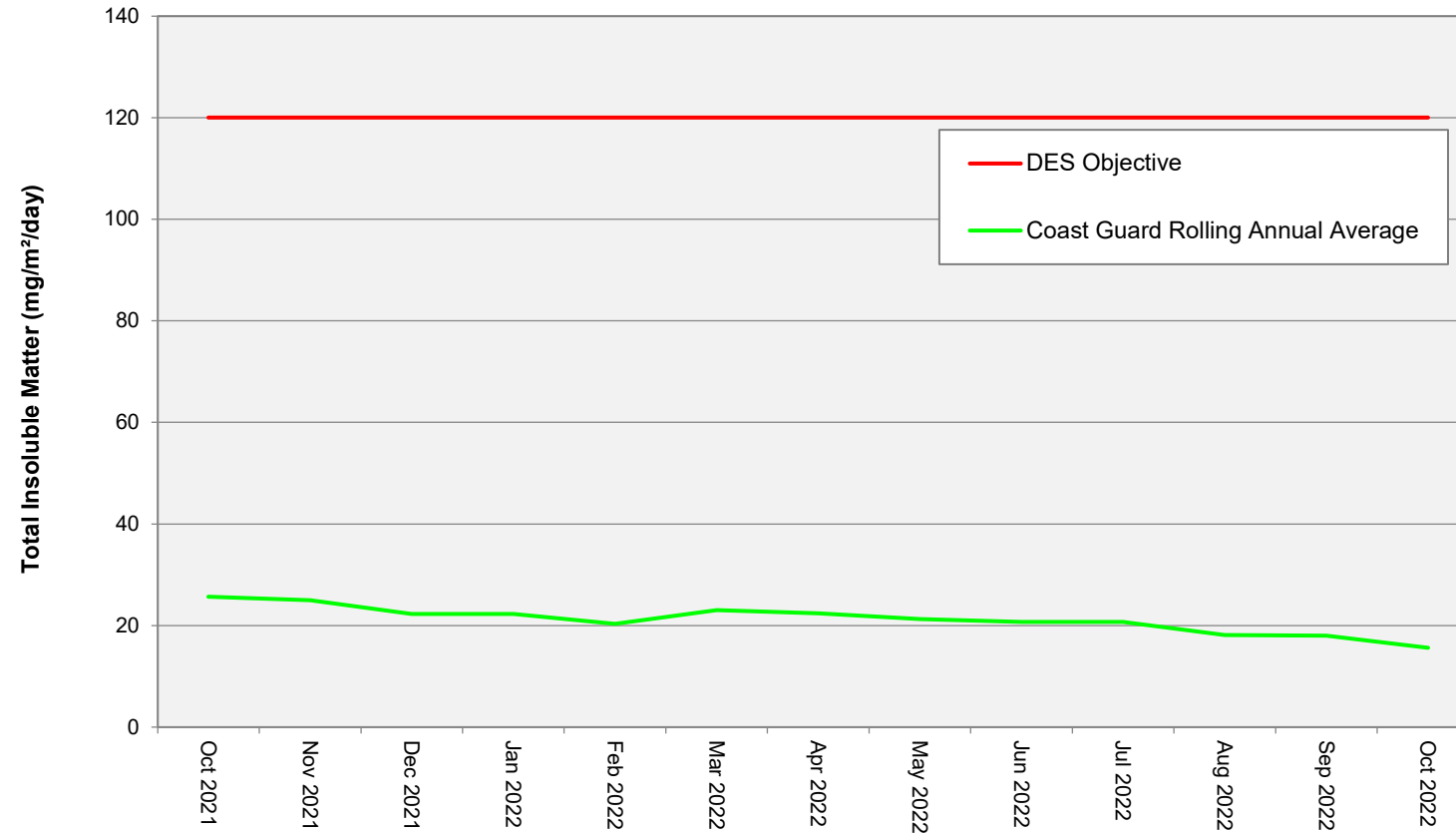
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



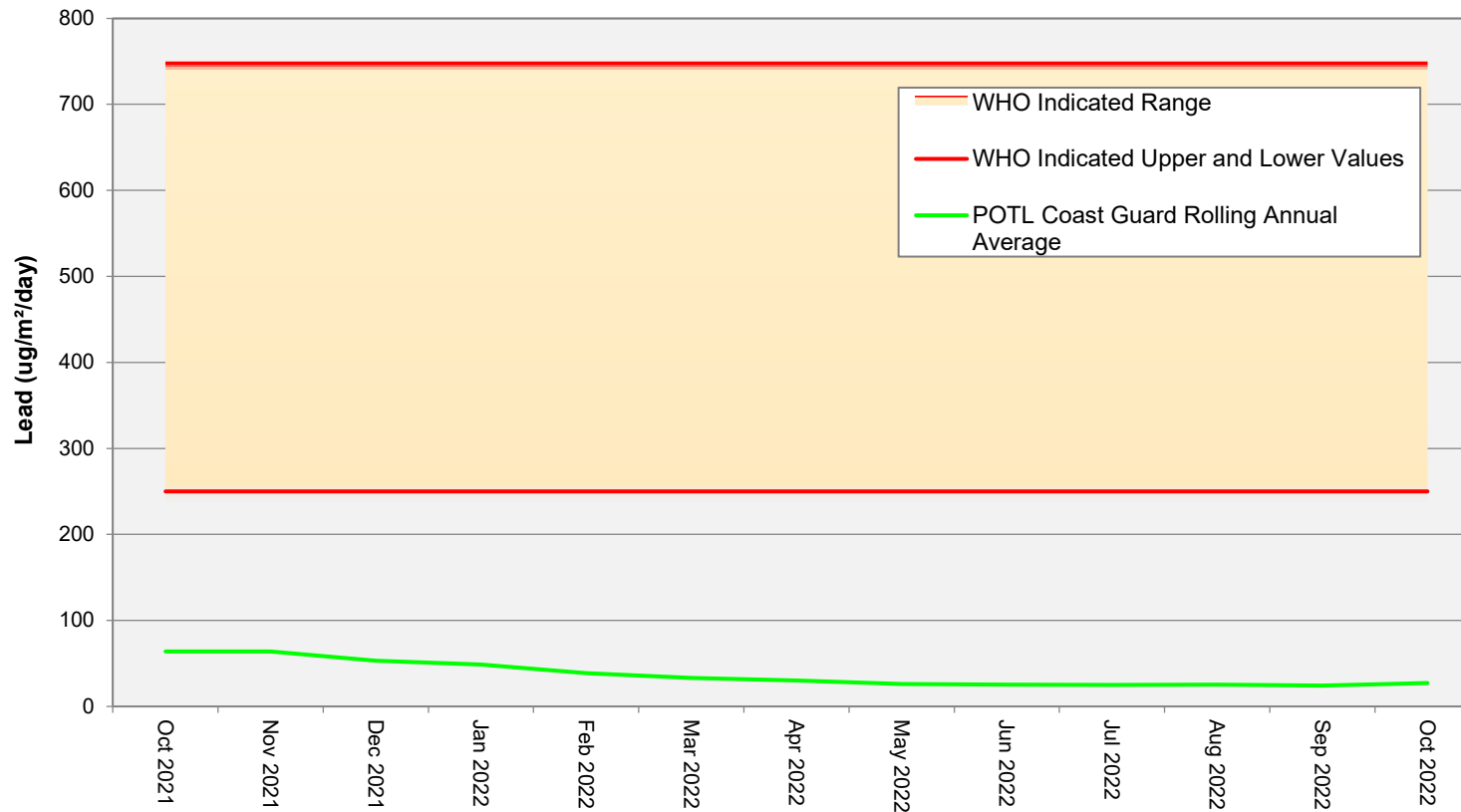
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



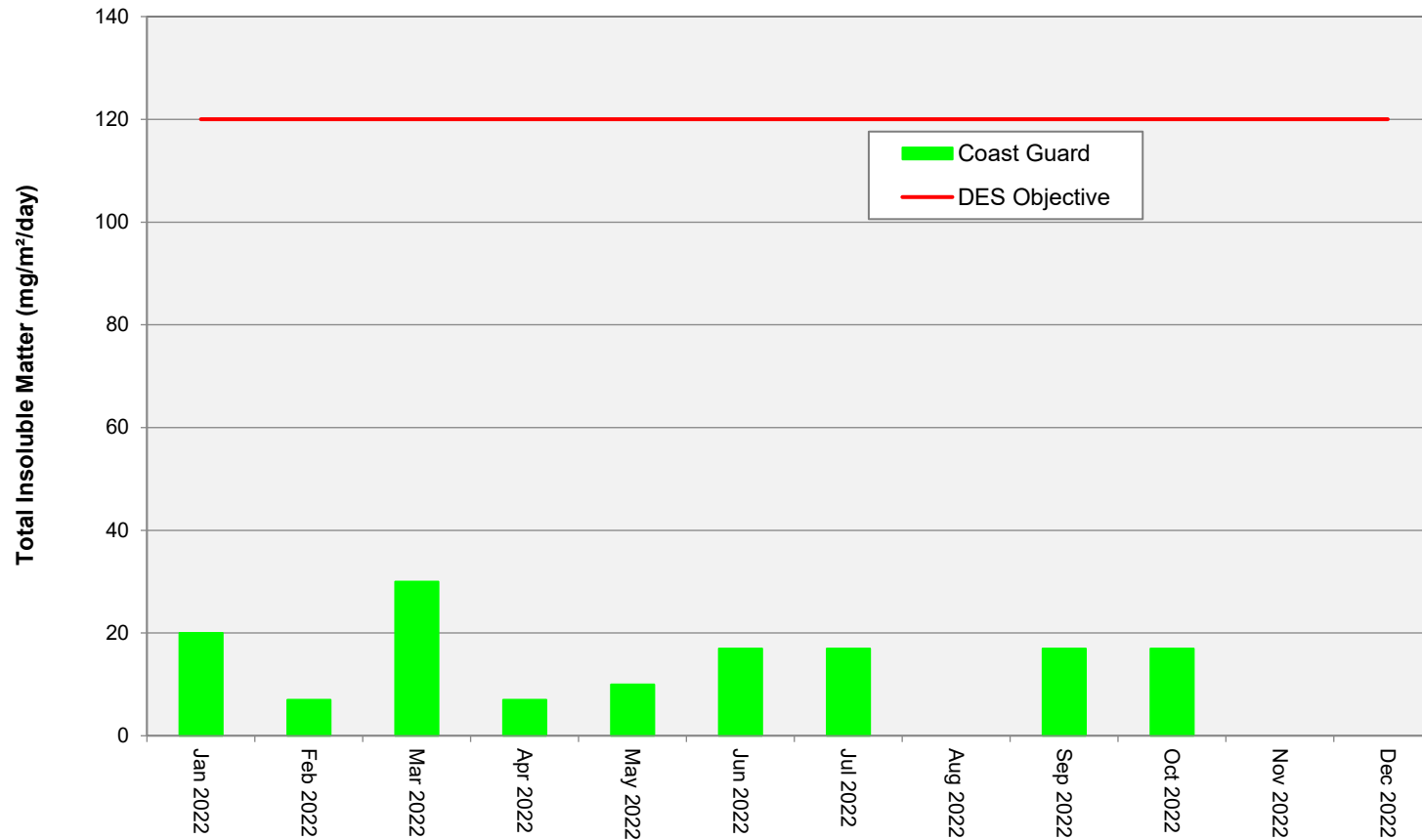
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



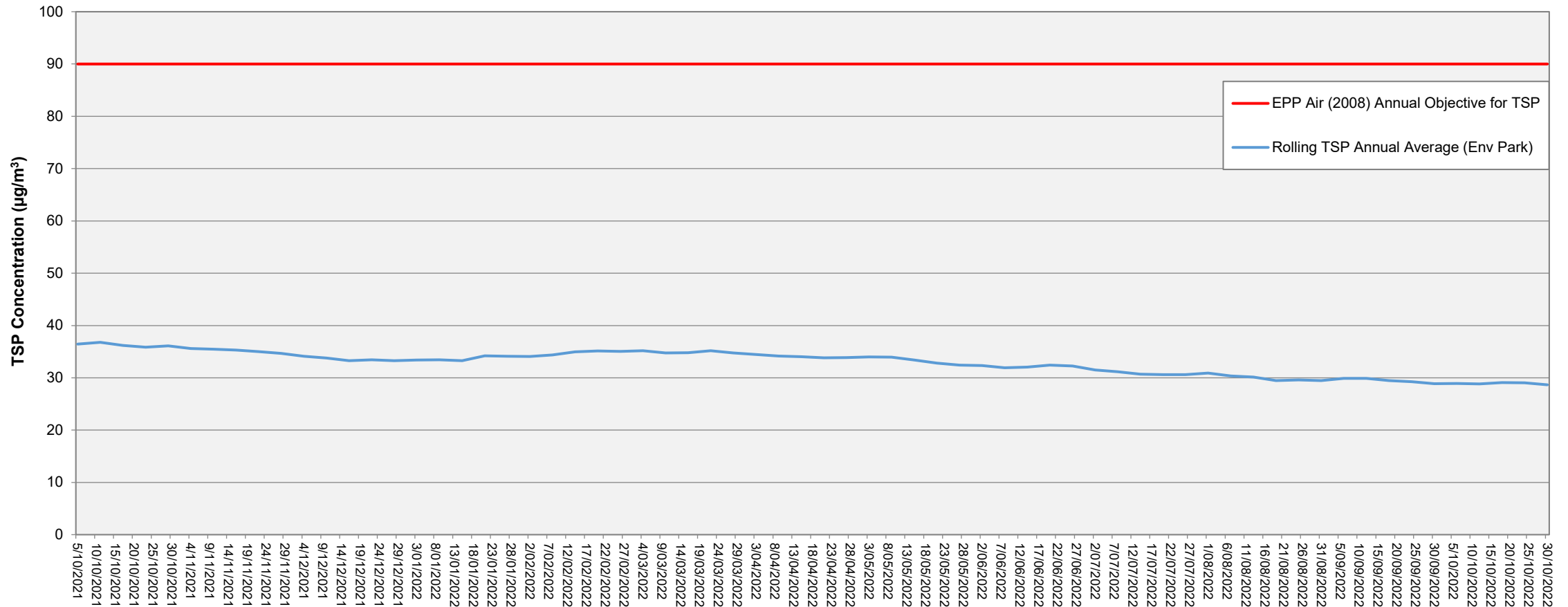
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

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



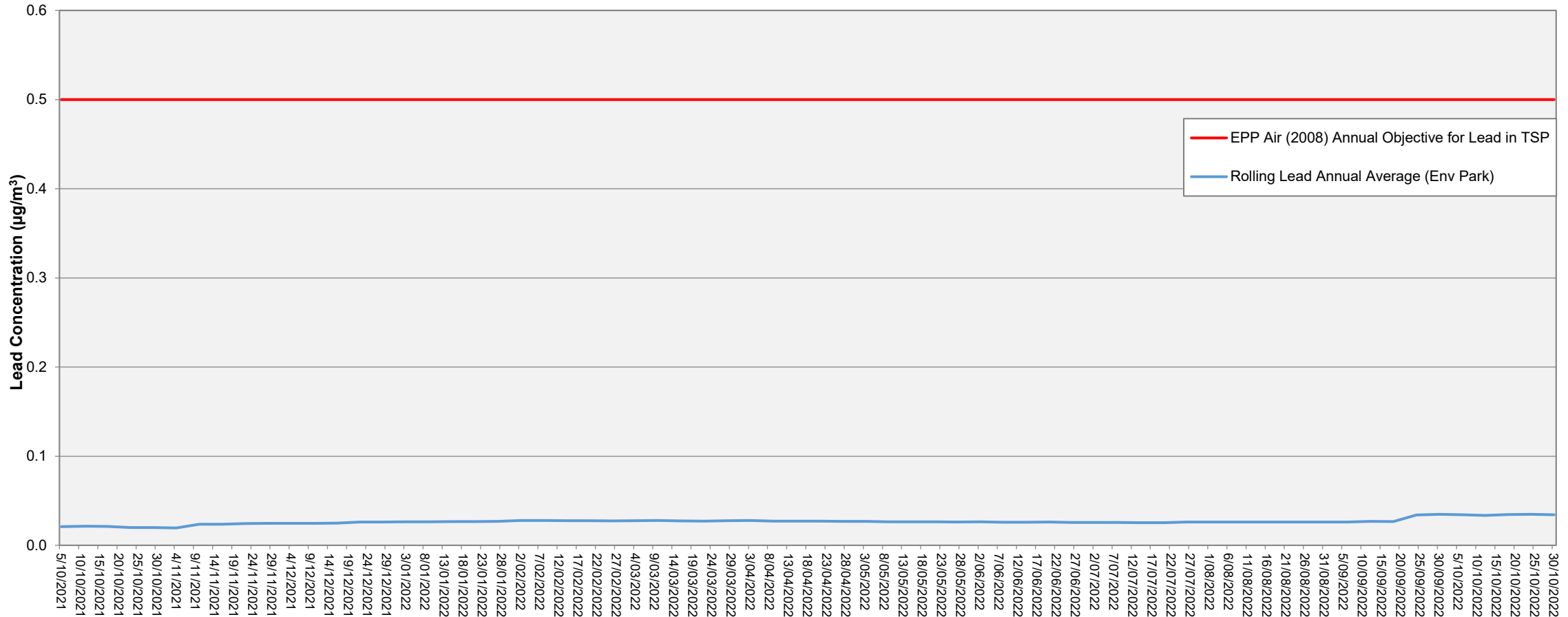
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day.
No result for August 2022 due to Laboratory error.

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



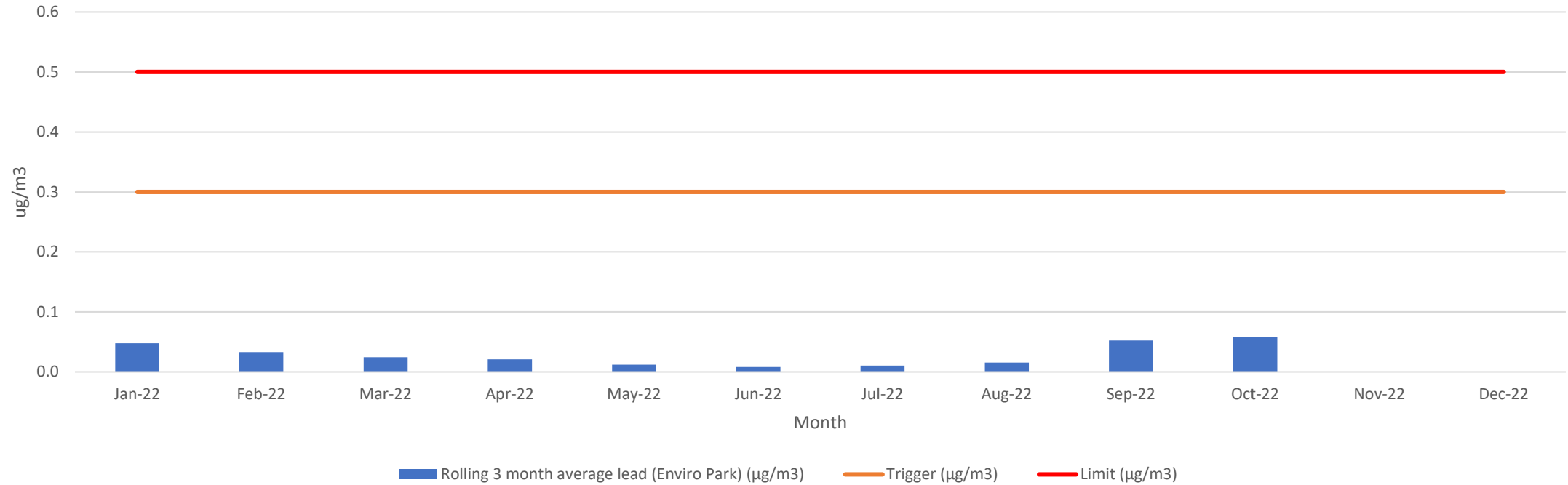
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



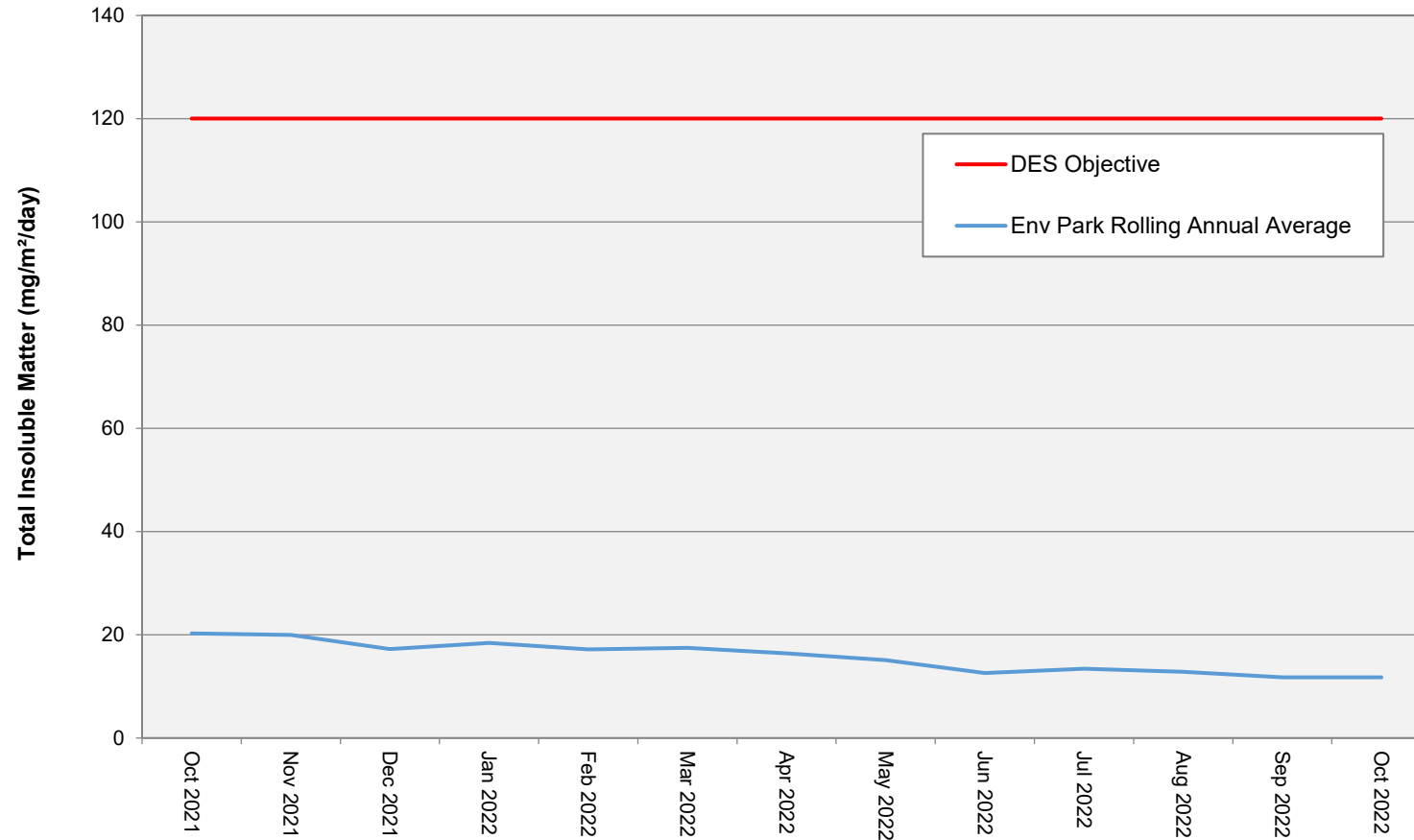
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



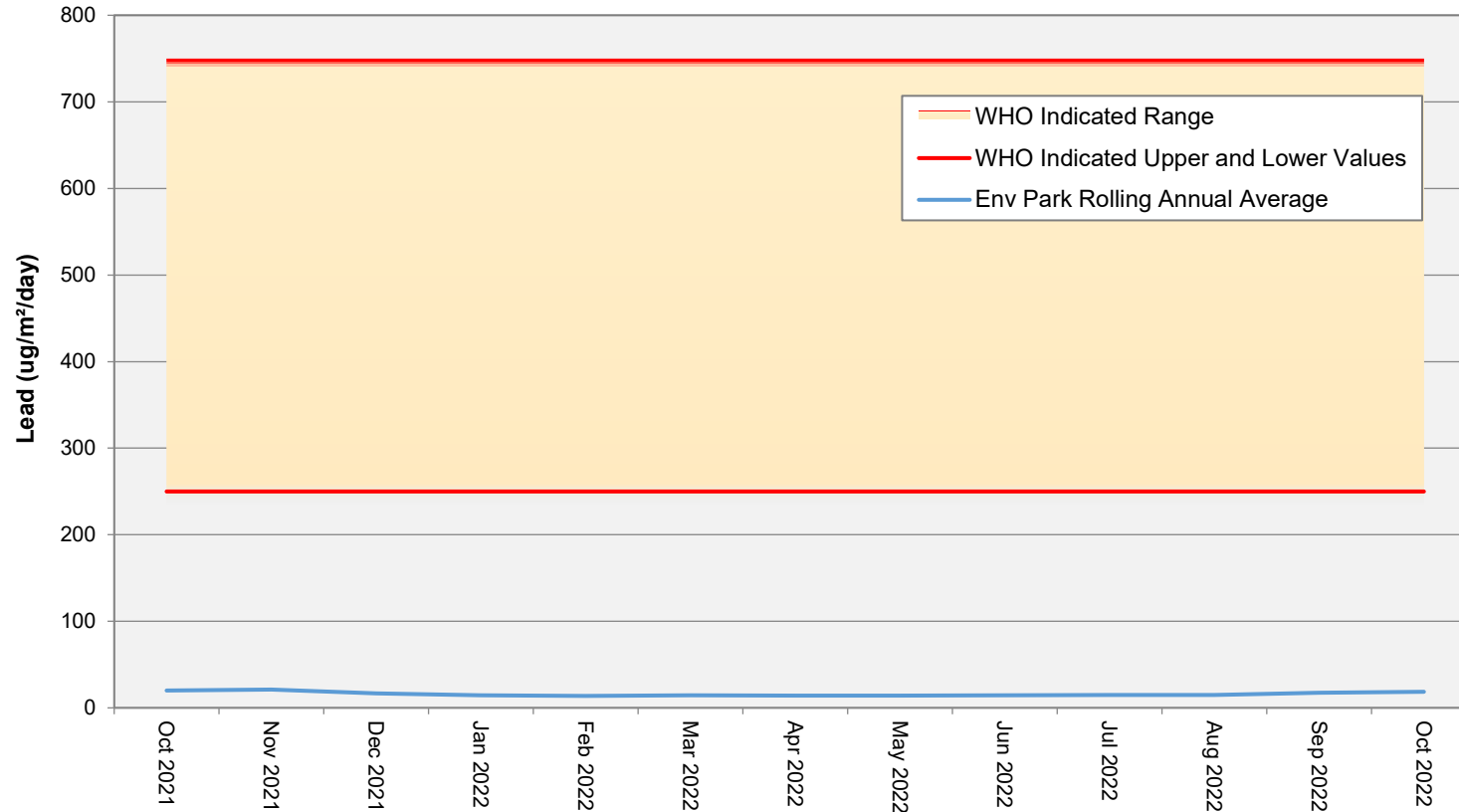
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



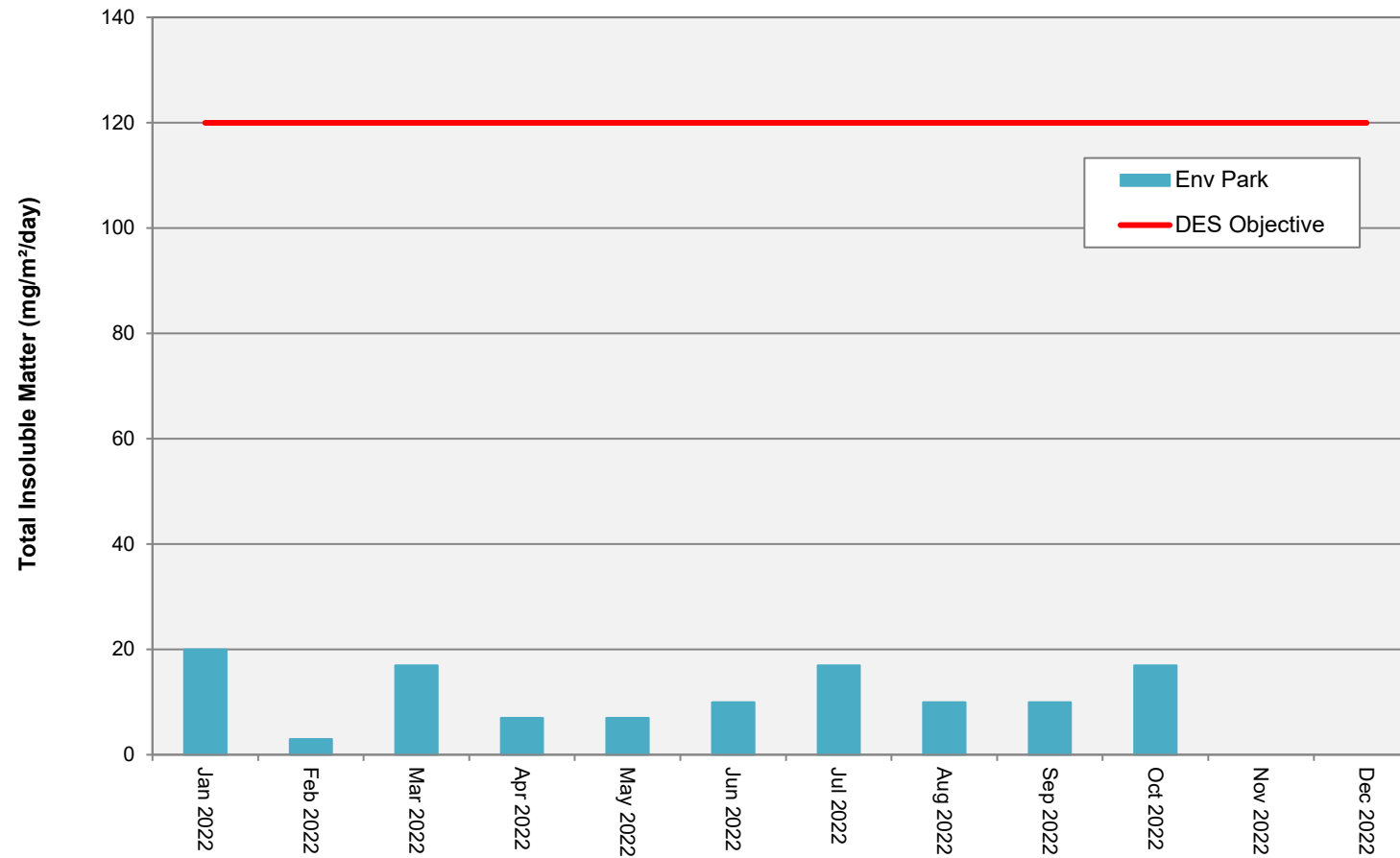
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



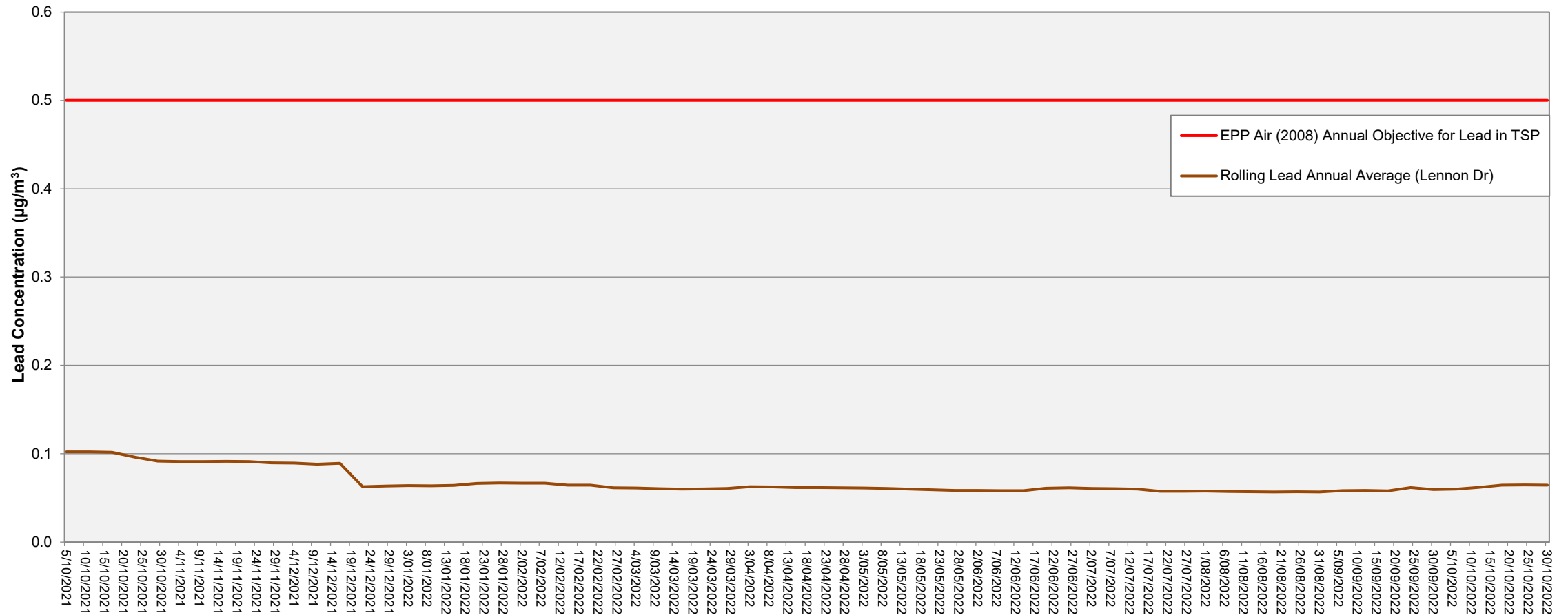
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



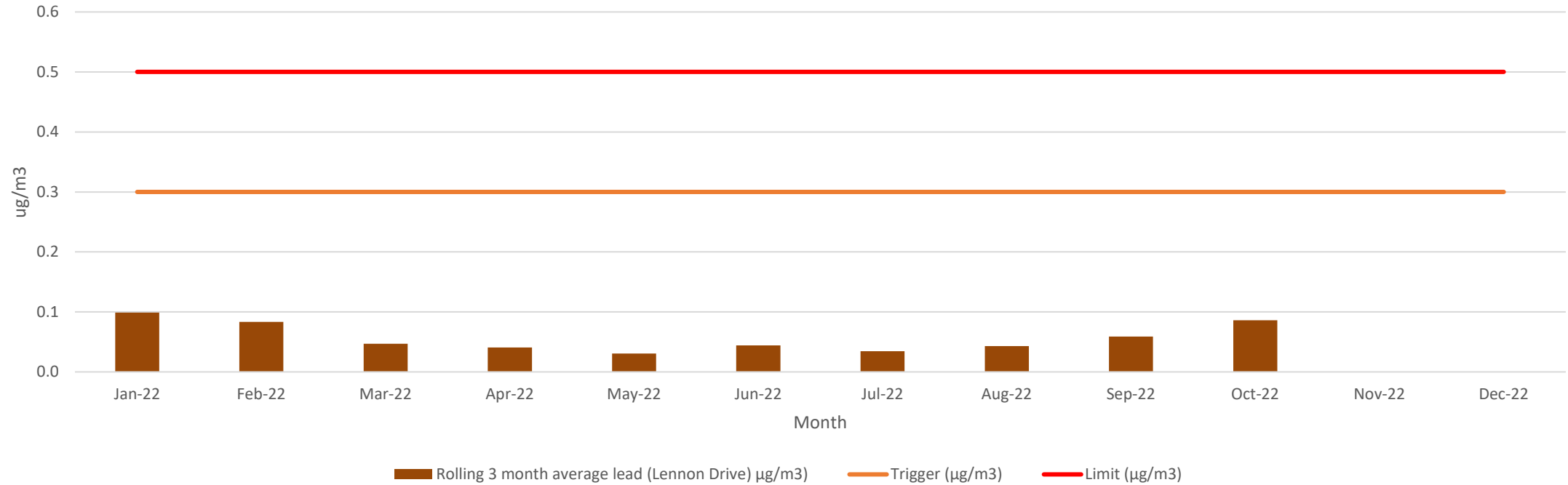
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



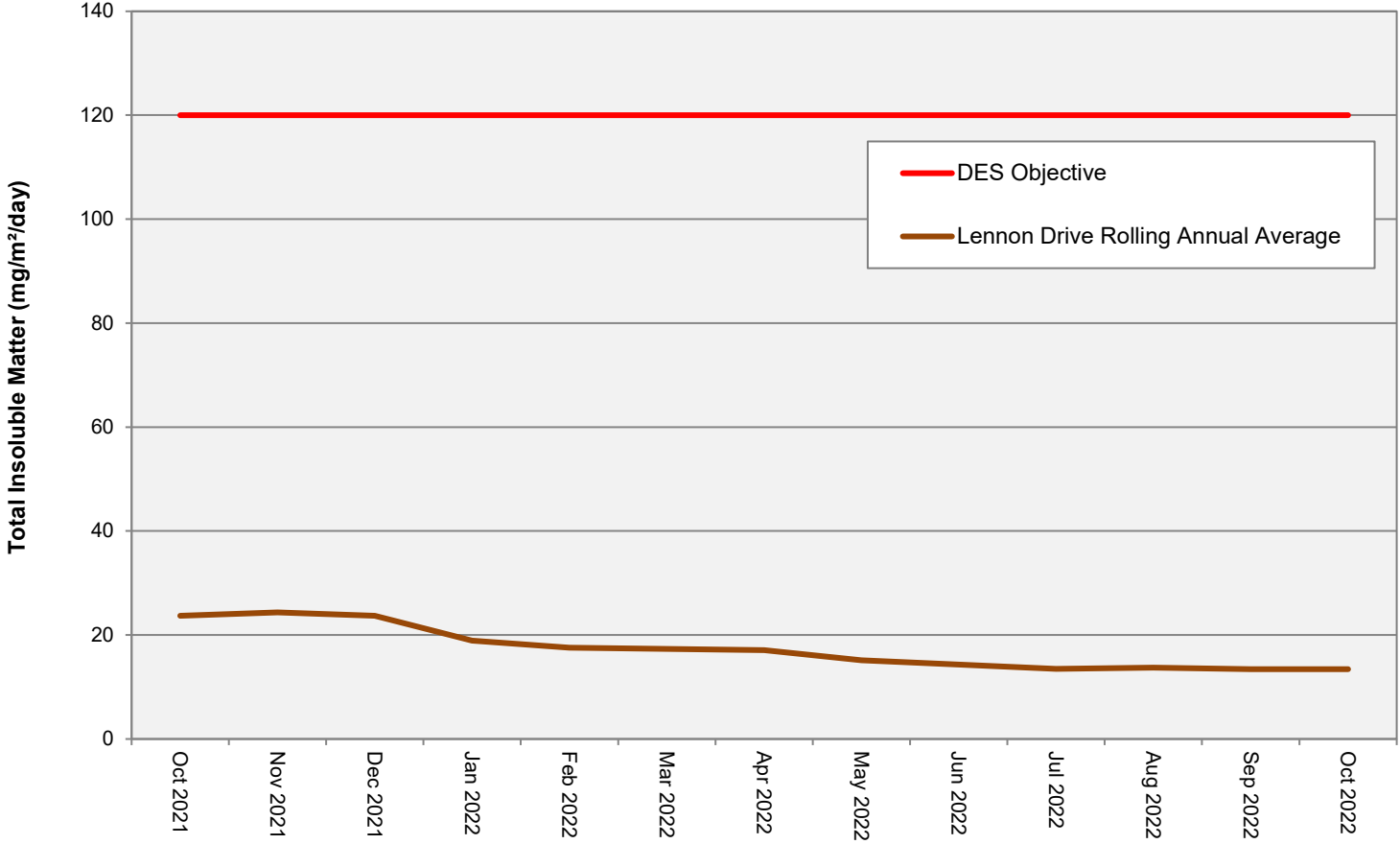
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



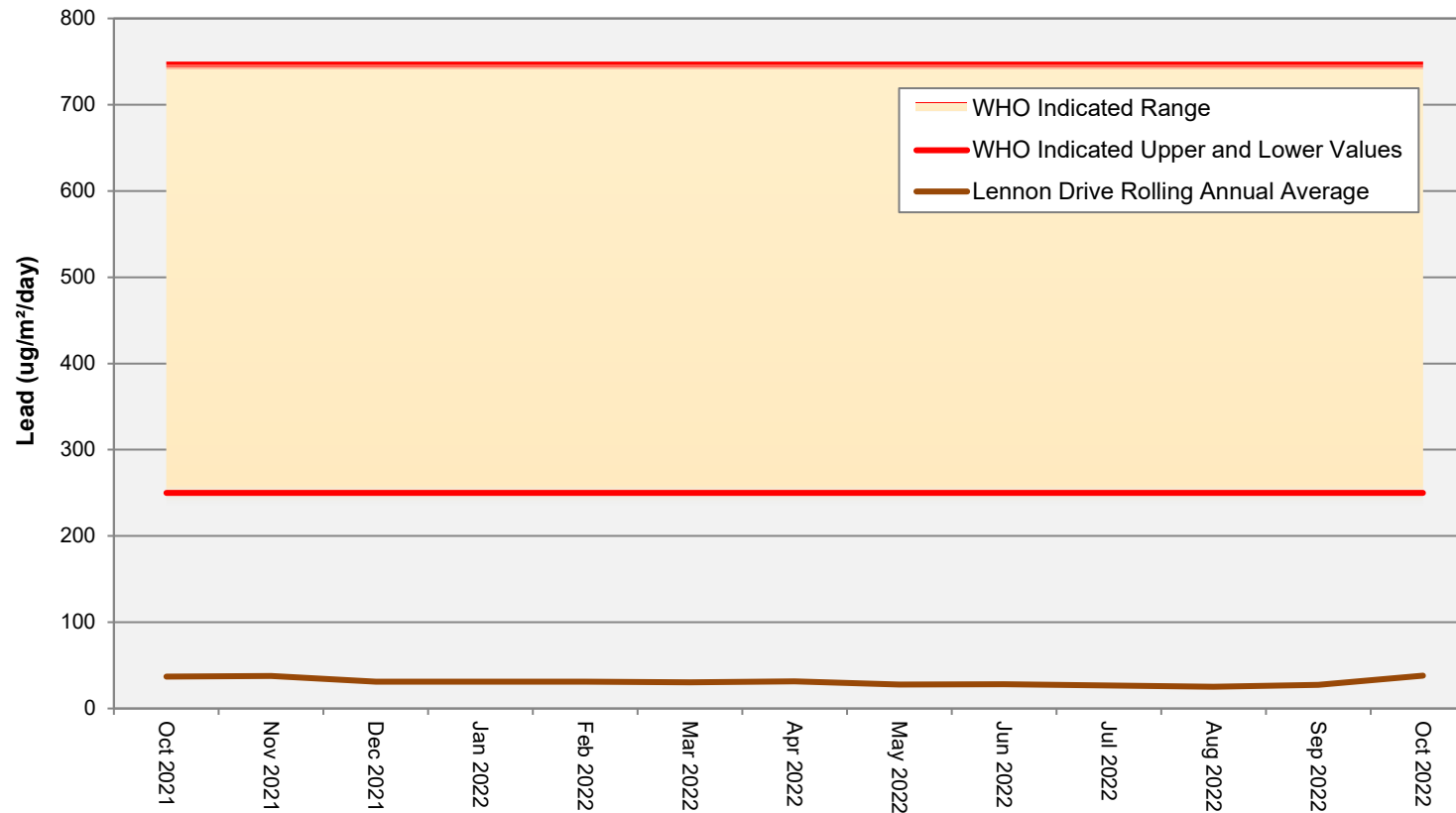
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



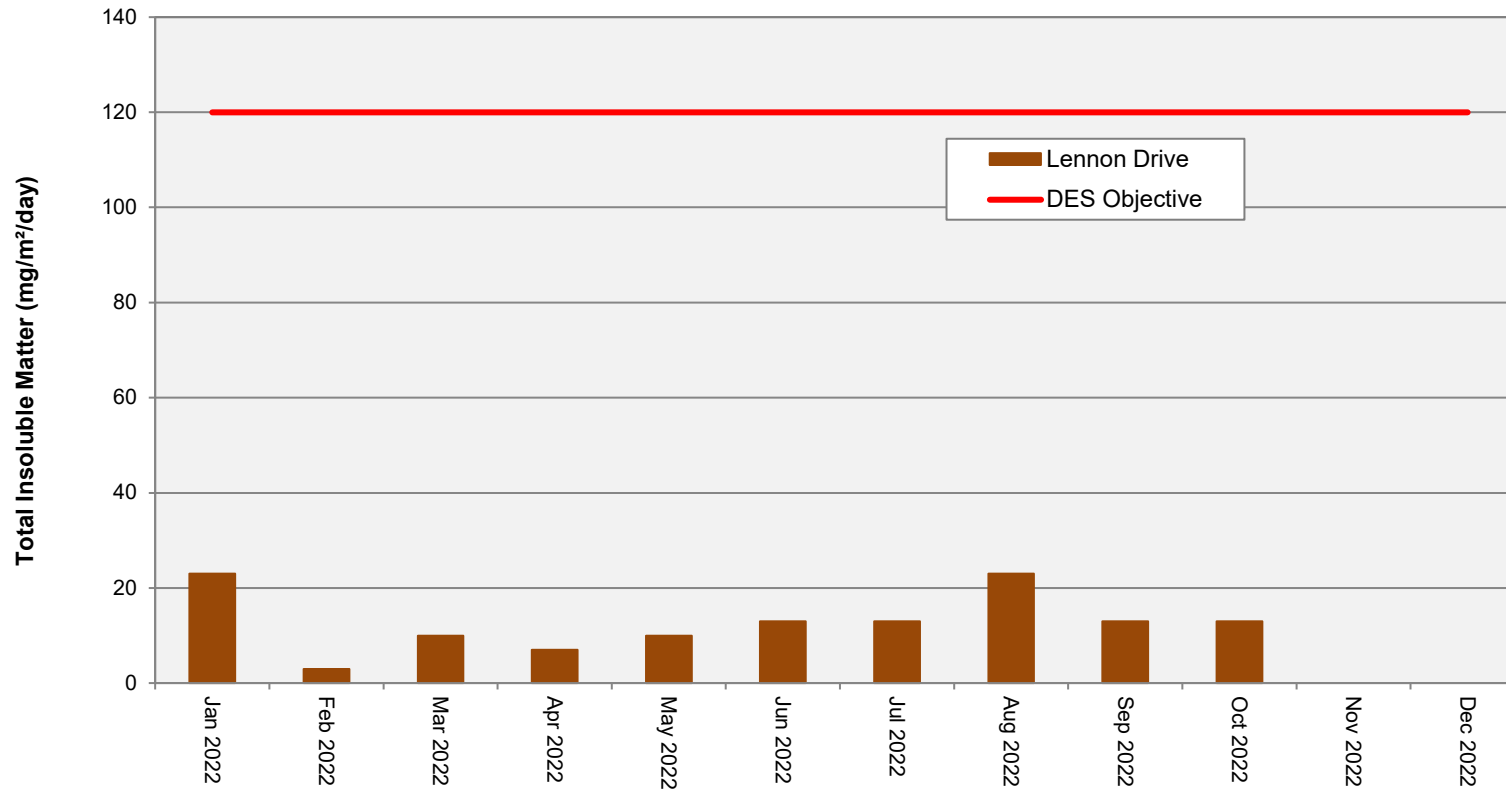
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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