

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

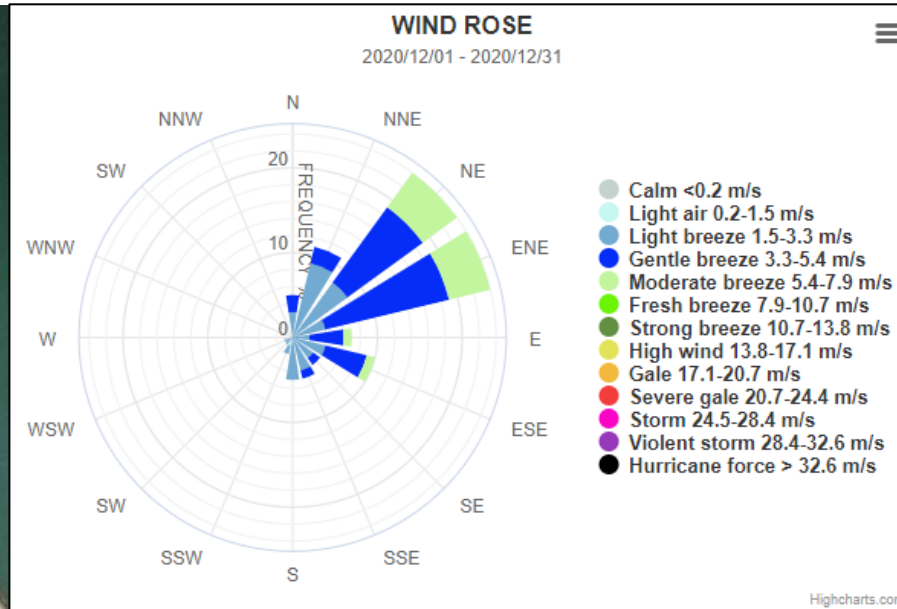
Air Quality Monitoring Locations

Coast Guard

Lennon Drive

Enviro Park

Victoria Park



Shipping Movements in December 2020

| Date In/Out | Vessel Name | Cargo | Berth |
|-----------------|--------------------|--|-------|
| 30 Nov - 01 Dec | GOLDEN RESOLUTION | Nil Cargo (Export), Fuels (Import) | T01 |
| 01 Dec - 11 Dec | SPAR VIRGO | Nil Cargo (Export), Zinc Concentrates (Import) | T10 |
| 02 Dec - 04 Dec | LAE CHIEF | Containers (Export), Concentrates (Import) | T04 |
| 03 Dec - 03 Dec | CALIFORNIA HIGHWAY | Nil Cargo (Export), Motor Vehicles (Import) | T03N |
| 03 Dec - 05 Dec | ARDMORE SEAFOX | Nil Cargo (Export), Fuels (Import) | T01 |
| 04 Dec - 04 Dec | LAE CHIEF | Nil Cargo (Export), Nil Cargo (Import) | T08 |
| 04 Dec - 06 Dec | KONDILI | Nil Cargo (Export), Nil Cargo (Import) | T04 |
| 04 Dec - 07 Dec | TRAMMO INDEPENDENT | Nil Cargo (Export), Fodder (Import) | T09 |
| 04 Dec - 06 Dec | FLORA DELMAS | Containers (Export), Containers (Import) | T03S |
| 06 Dec - 07 Dec | PACIFIC CONDOR | Nil Cargo (Export), Containers (Import) | T03N |
| 06 Dec - 08 Dec | THE JUDGE | Nil Cargo (Export), Bitumen (Import) | T01 |
| 06 Dec - 07 Dec | SOUTHERN QUOKKA | Nil Cargo (Export), Caustic Soda (Import) | T04 |
| 08 Dec - 08 Dec | GELBRAY EXPRESS | Cattle (Export), Nil Cargo (Import) | T04 |
| 08 Dec - 09 Dec | GRAND ACE7 | Nil Cargo (Export), Fuels (Import) | T01 |
| 09 Dec - 10 Dec | THERESA MICRONESIA | Molasses (Export), Nil Cargo (Import) | T09 |
| 10 Dec - 12 Dec | TRAMMO INDEPENDENT | Zinc Concentrates (Export), Nil Cargo (Import) | T03S |
| 10 Dec - 11 Dec | BEAGLE | Nil Cargo (Export), Fuels (Import) | T01 |
| 11 Dec - 12 Dec | ARDMORE SEAFARER | Nil Cargo (Export), Fuels (Import) | T01 |
| 11 Dec - 13 Dec | KONDILI | Nil Cargo (Export), Cement (Import) | T04 |
| 12 Dec - 14 Dec | SPAR VIRGO | Sugar (Export), Nil Cargo (Import) | T09 |
| 12 Dec - 14 Dec | GOLDEN MIND | Sulphuric Acid (Export), Nil Cargo (Import) | T01 |
| 13 Dec - 13 Dec | GRAND DOLPHIN | Nil Cargo (Export), Motor Vehicles (Import) | T03N |
| 13 Dec - 14 Dec | VENUS LEADER | Nil Cargo (Export), Motor Vehicles (Import) | T10 |
| 13 Dec - 15 Dec | TRAMMO INDEPENDENT | Nil Cargo (Export), Nil Cargo (Import) | T11 |
| 14 Dec - 15 Dec | DRY BEAM NEO | Nil Cargo (Export), Nil Cargo (Import) | T08 |
| 14 Dec - 15 Dec | GANADO EXPRESS | Cattle (Export), Nil Cargo (Import) | T04 |
| 14 Dec - 16 Dec | CHEKIANG | Containers (Export), Containers (Import) | T10 |

| Date In/Out | Vessel Name | Cargo | Berth |
|-----------------|-------------------|--|-------|
| 16 Dec - 17 Dec | CRYSTAL ISLAND | Zinc Concentrates (Export), Nil Cargo (Import) | T08 |
| 16 Dec - 16 Dec | HESTIA LEADER | Nil Cargo (Export), Motor Vehicles (Import) | T04 |
| 16 Dec - 17 Dec | FLORIDA HIGHWAY | Nil Cargo (Export), Motor Vehicles (Import) | T03N |
| 16 Dec - 20 Dec | ANACAPA LIGHT | Zinc Ferrites (Export), Nil Cargo (Import) | T10 |
| 17 Dec - 19 Dec | LILSTELLA | Nil Cargo (Export), Bitumen (Import) | T04 |
| 17 Dec - 19 Dec | PLOVER ARROW | Zinc Concentrates (Export), Nil Cargo (Import) | T08 |
| 19 Dec - 20 Dec | GREYMAN EXPRESS | Cattle (Export), Nil Cargo (Import) | T04 |
| 20 Dec - 21 Dec | AUROCHS | Cattle (Export), Nil Cargo (Import) | T04 |
| 20 Dec - 21 Dec | DORIC BREEZE | Nil Cargo (Export), Fuels (Import) | T01 |
| 20 Dec - 21 Dec | ANACAPA LIGHT | Lead Concentrates (Export), Nil Cargo (Import) | T08 |
| 21 Dec - 23 Dec | STOLT HAGI | Sulphuric Acid (Export), Nil Cargo (Import) | T01 |
| 22 Dec - 24 Dec | KEN SPIRIT | Zinc Concentrates (Export), Nil Cargo (Import) | T03S |
| 22 Dec - 23 Dec | BLUE BALESTIER | Fertilizer (Export), Nil Cargo (Import) | T08 |
| 22 Dec - 24 Dec | ZEPHYR VENTURE | Nil Cargo (Export), Urea (Import) | T10 |
| 22 Dec - 23 Dec | TOKYO TRADER | Containers (Export), Containers (Import) | T04 |
| 23 Dec - 24 Dec | KOTA HARUM | Containers (Export), Containers (Import) | T04 |
| 23 Dec - 26 Dec | SEA HAWK | Zinc Concentrates (Export), Nil Cargo (Import) | T08 |
| 24 Dec - 27 Dec | KEN SPIRIT | Nil Cargo (Export), Nil Cargo (Import) | T03S |
| 25 Dec - 28 Dec | GLADIATOR | Sugar (Export), Nil Cargo (Import) | T09 |
| 26 Dec - 26 Dec | KYOWA ROSE | General Cargo (Export), Containers (Import) | T03N |
| 26 Dec - 31 Dec | SEA HAWK | Lead Concentrates (Export), Nil Cargo (Import) | T11 |
| 26 Dec - 30 Dec | KYOWA ROSE | Nil Cargo (Export), Nil Cargo (Import) | T03N |
| 28 Dec - 28 Dec | HAMBURG HIGHWAY | Nil Cargo (Export), Motor Vehicles (Import) | T04 |
| 28 Dec - 29 Dec | SOFRANA TOURVILLE | Containers (Export), Containers (Import) | T03S |
| 29 Dec - 30 Dec | NOUMEA CHIEF | Containers (Export), Containers (Import) | T10 |
| 31 Dec - 31 Dec | HANSA CLOPPENBURG | Nil Cargo (Export), Containers (Import) | T04 |



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

Subscribe to Dashboard Updates

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.

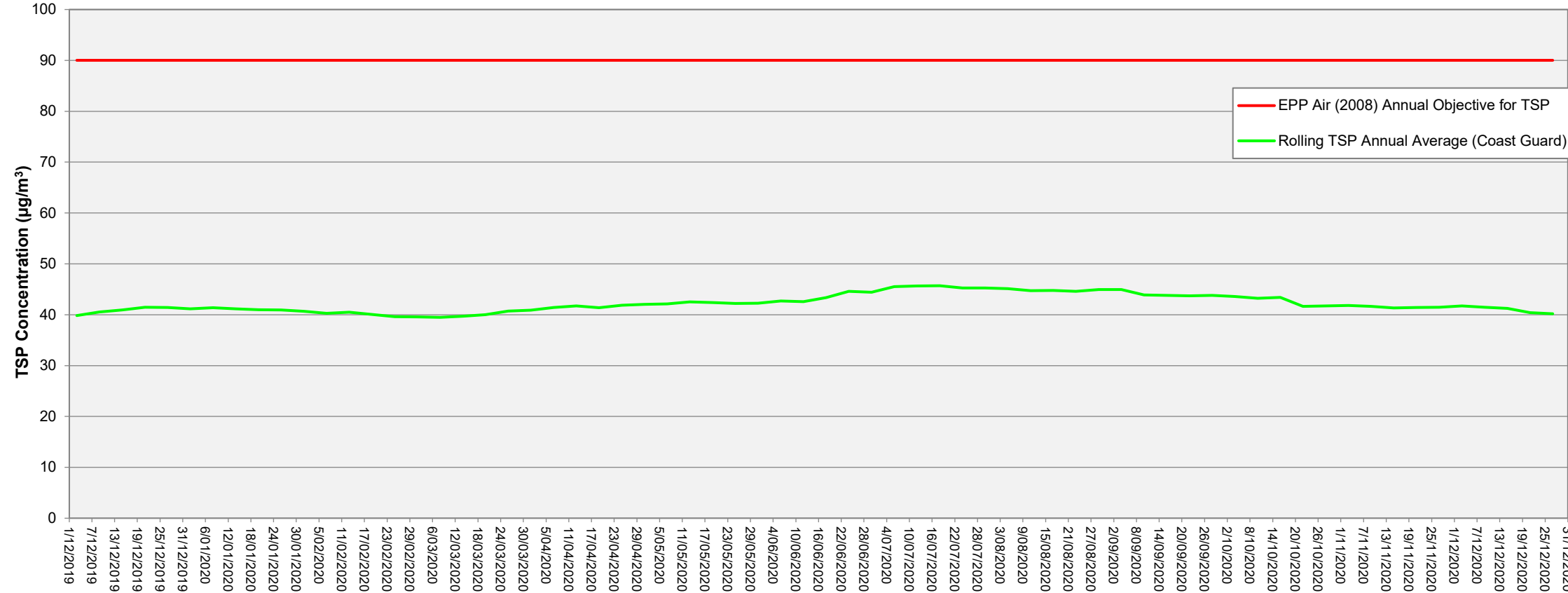
OR

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

Ask a Question / Provide Feedback

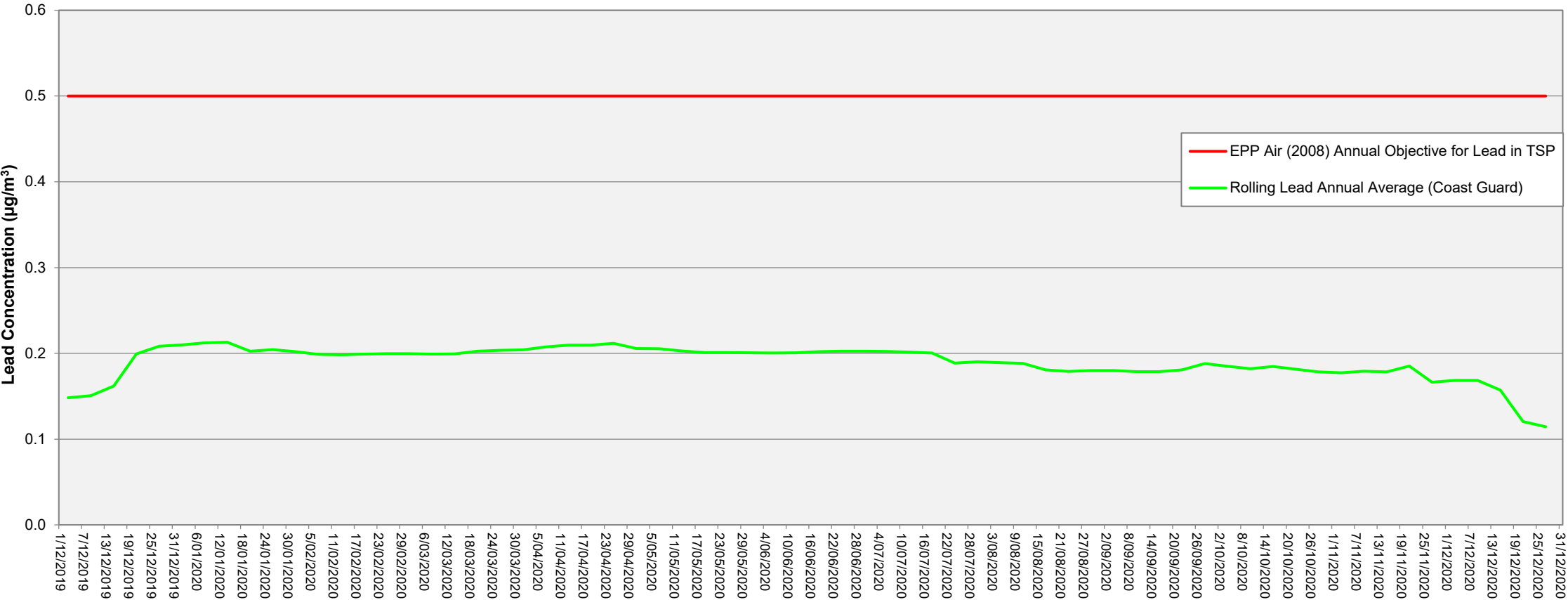
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site
DECEMBER 2019 – DECEMBER 2020

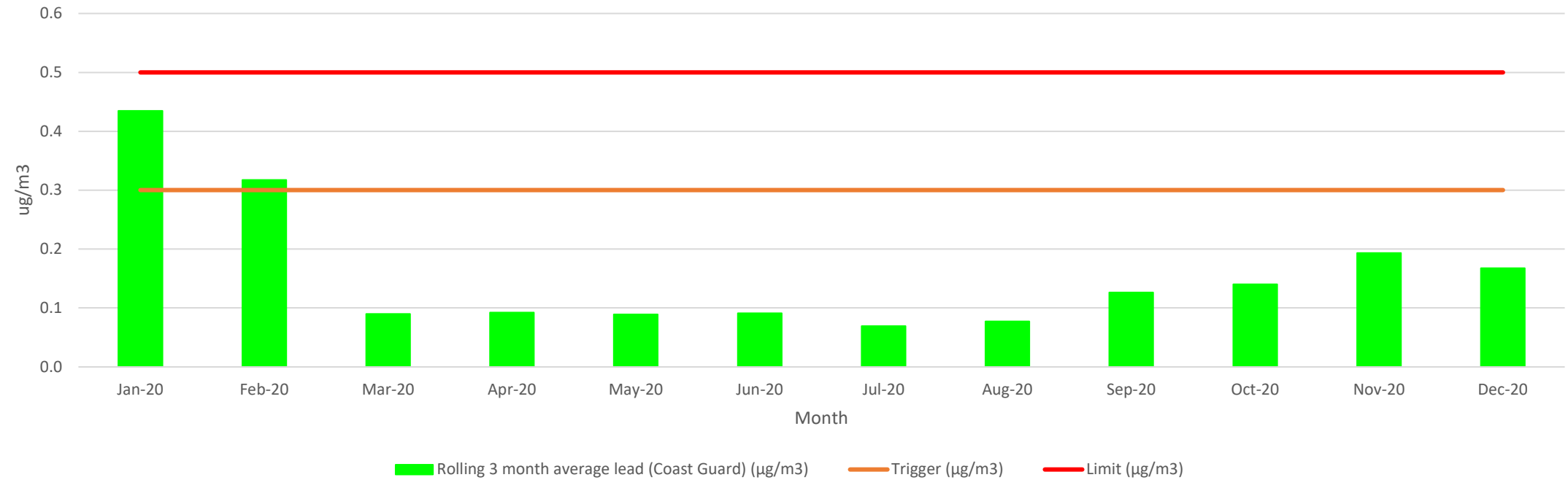


Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site
DECEMBER 2019 – DECEMBER 2020

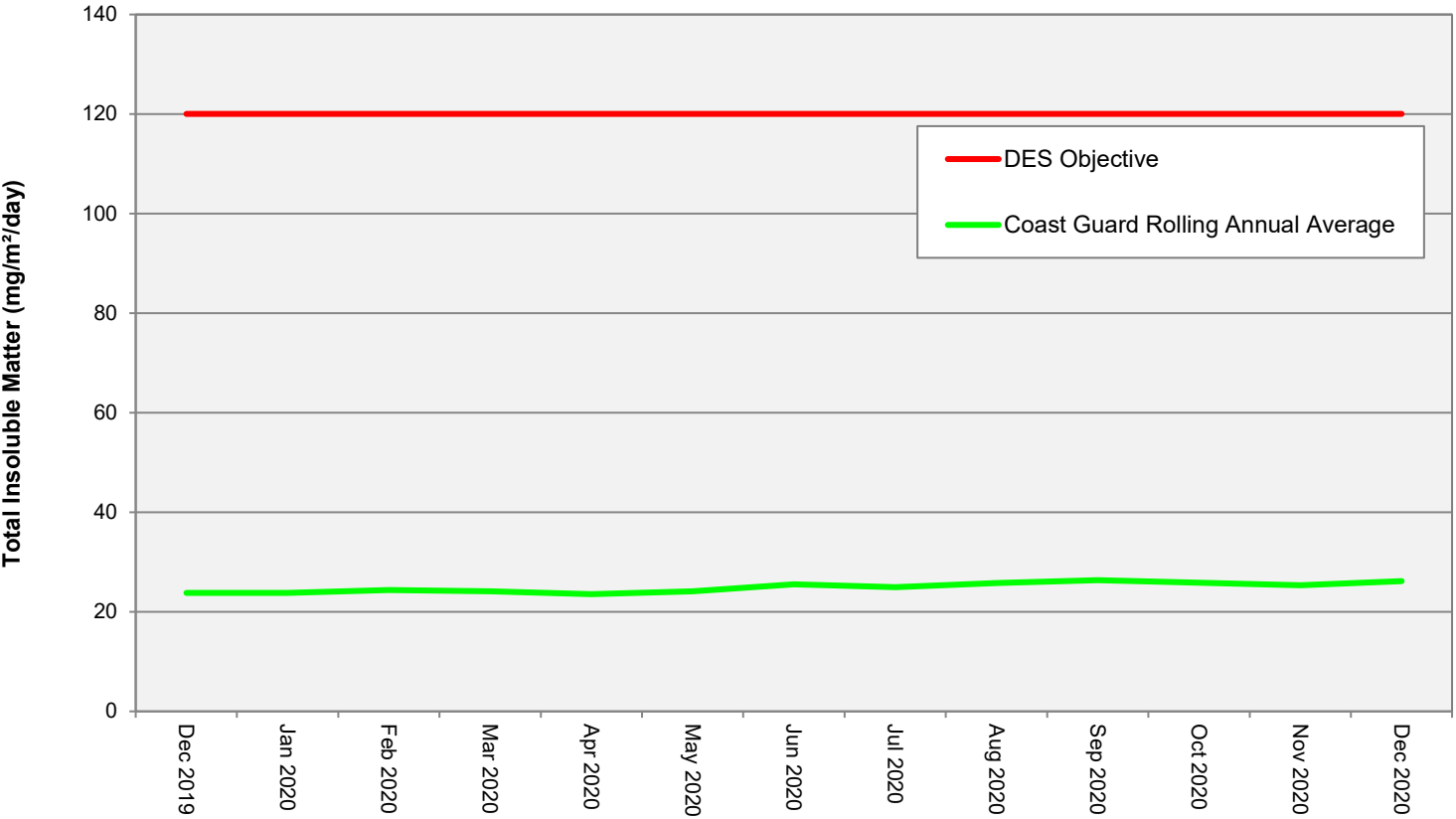


Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site
2020



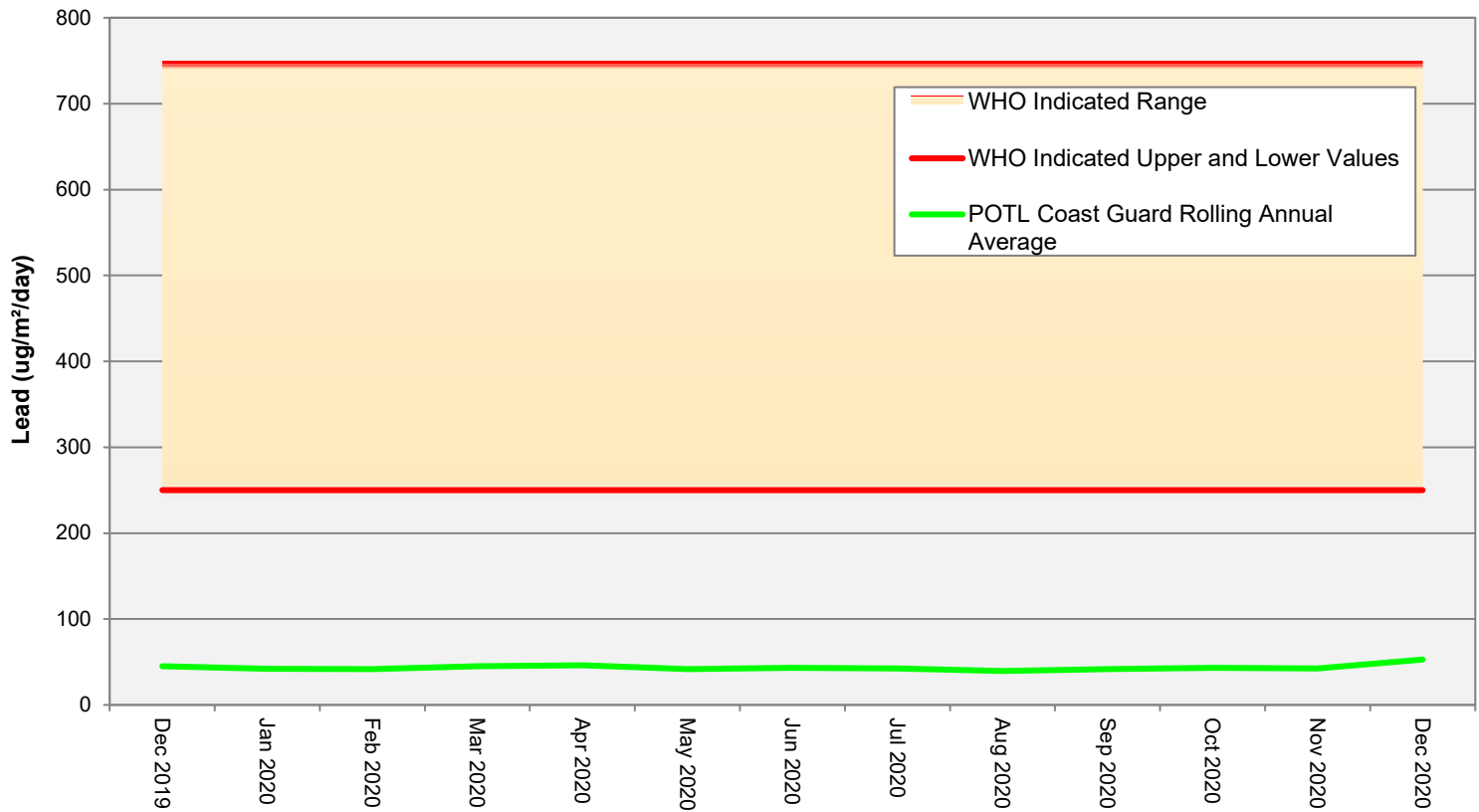
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
DECEMBER 2019 – DECEMBER 2020



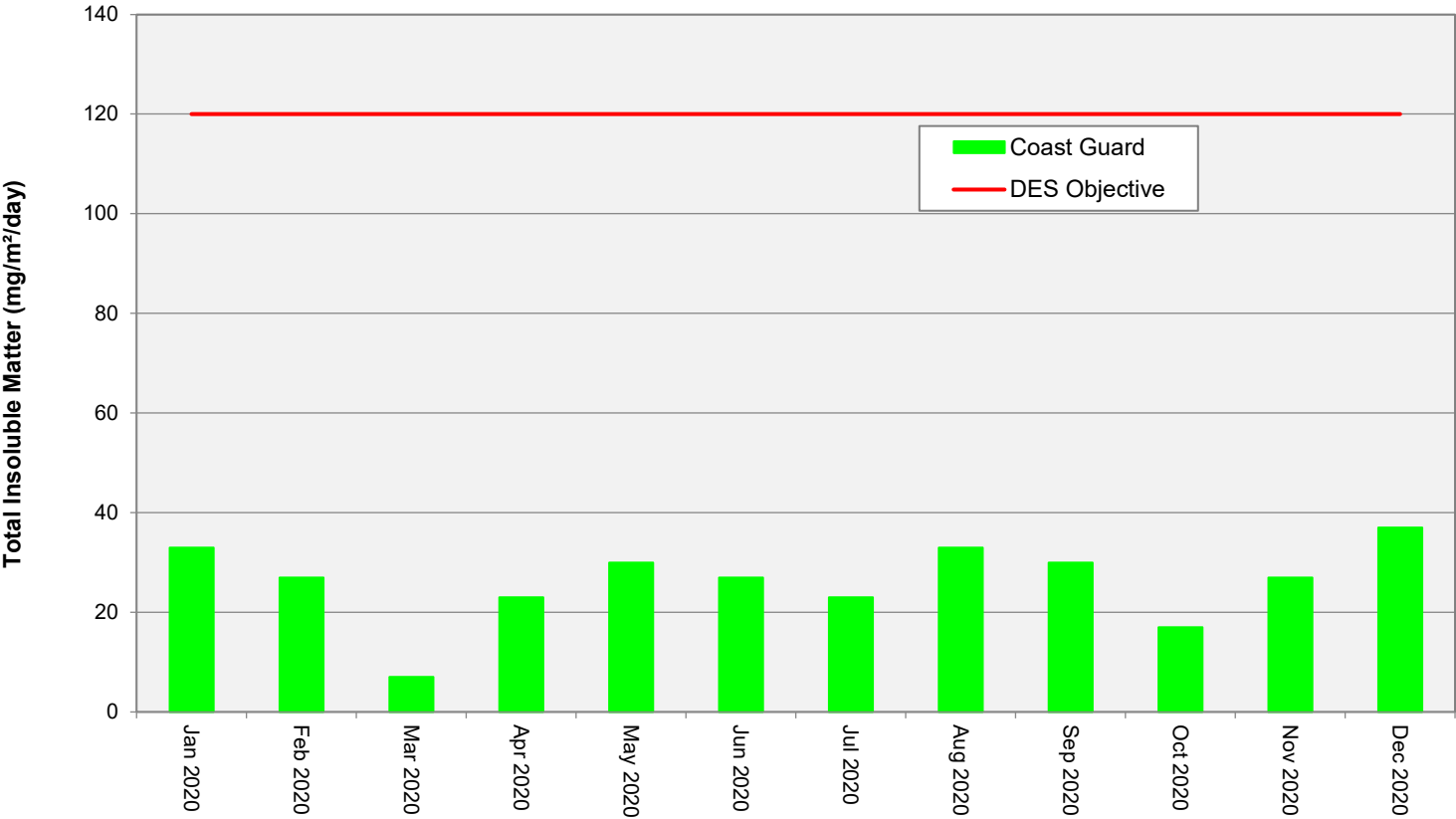
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site
DECEMBER 2019 – DECEMBER 2020



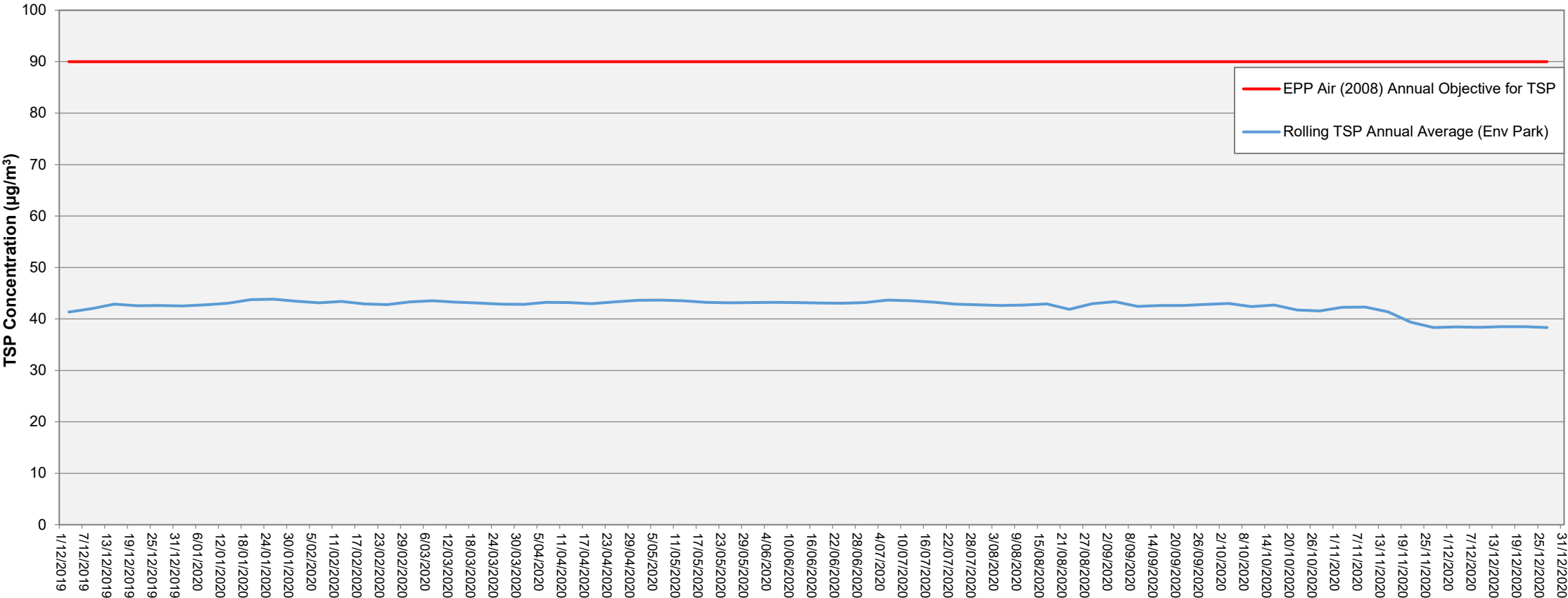
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Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
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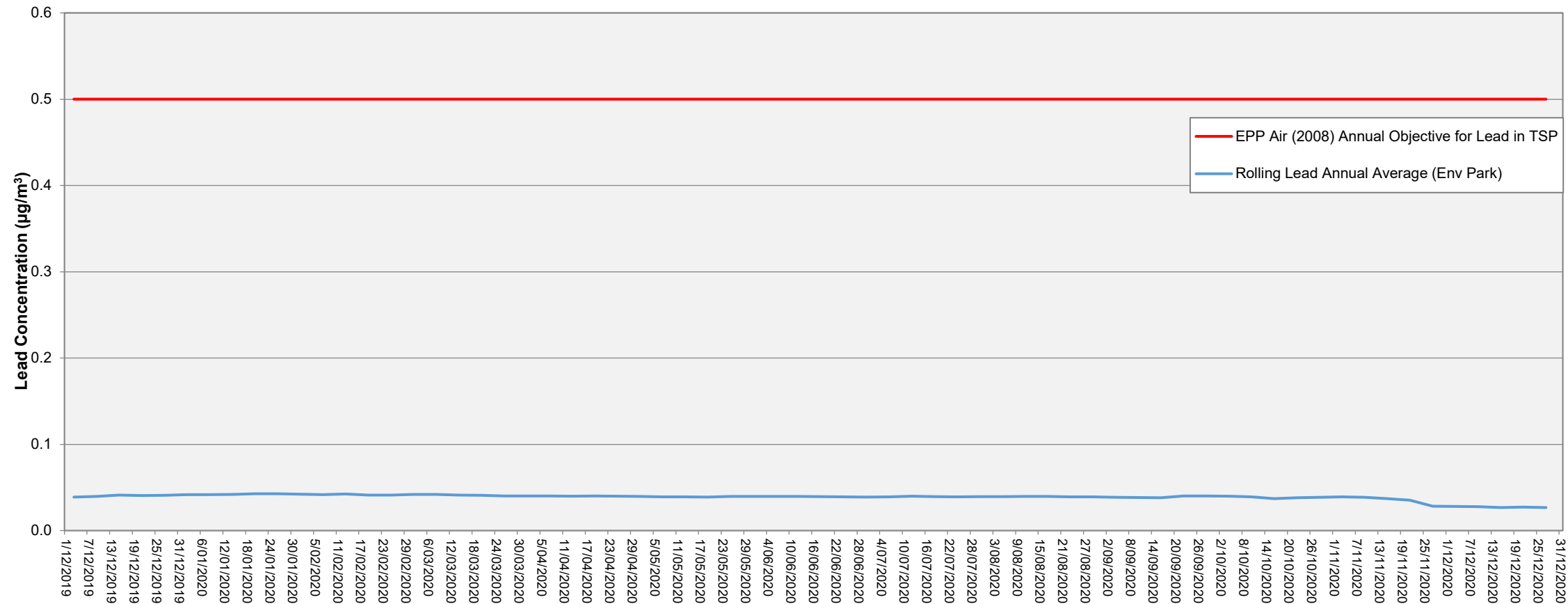
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site
DECEMBER 2019 – DECEMBER 2020



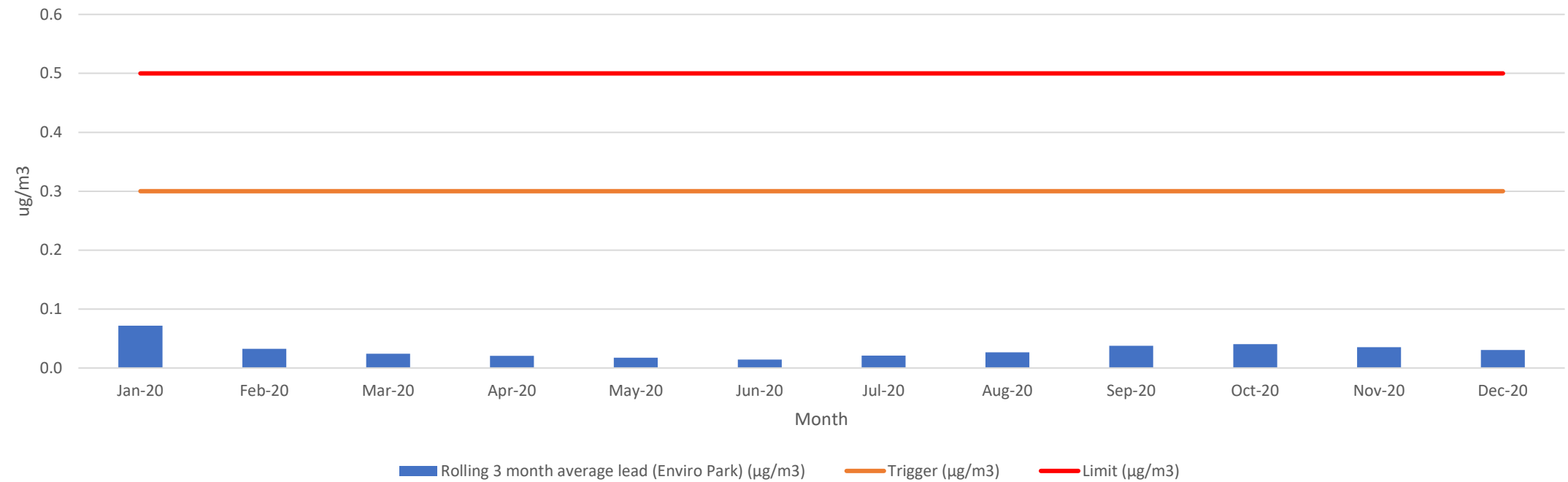
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
DECEMBER 2019 – DECEMBER 2020



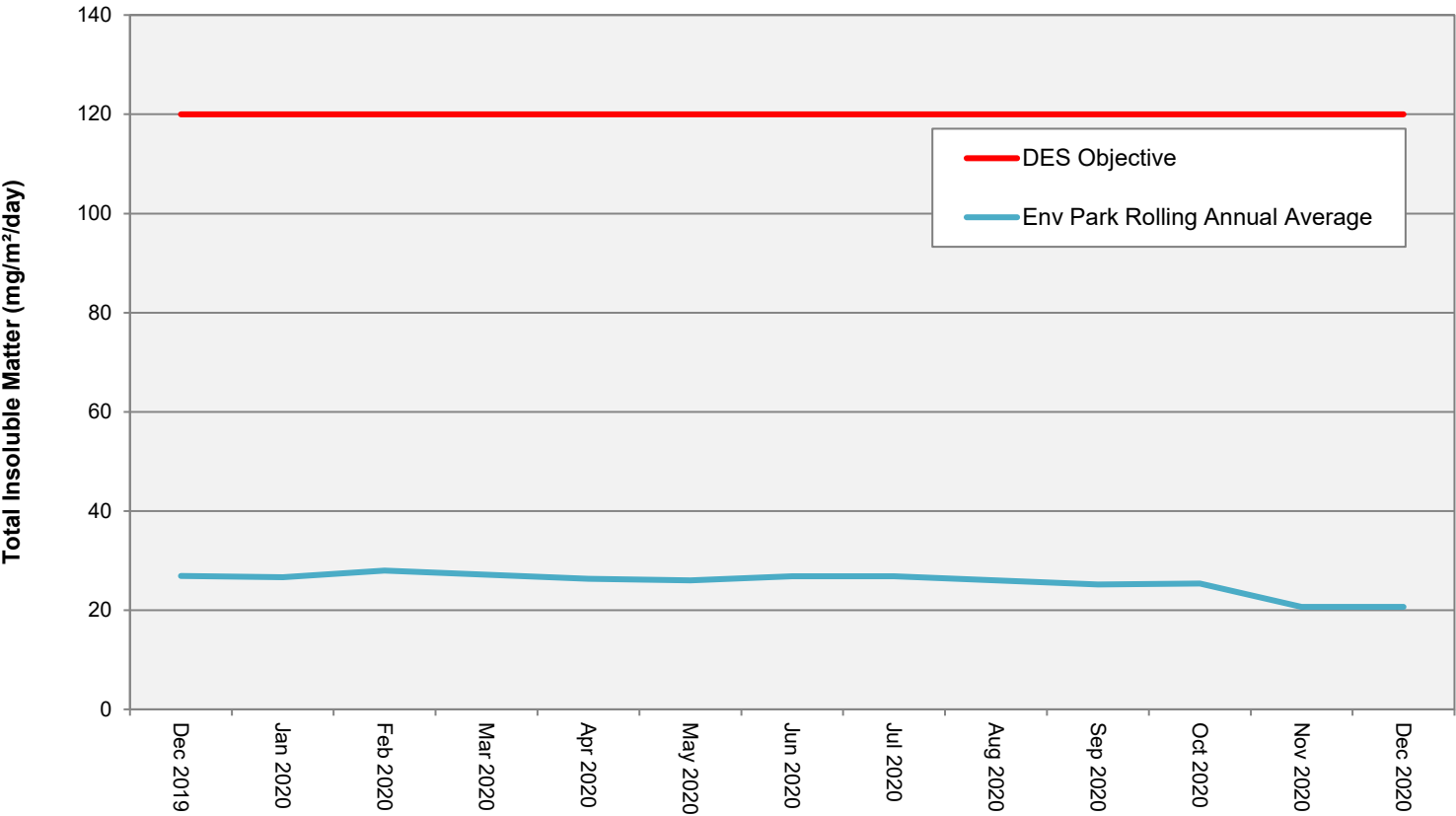
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2020



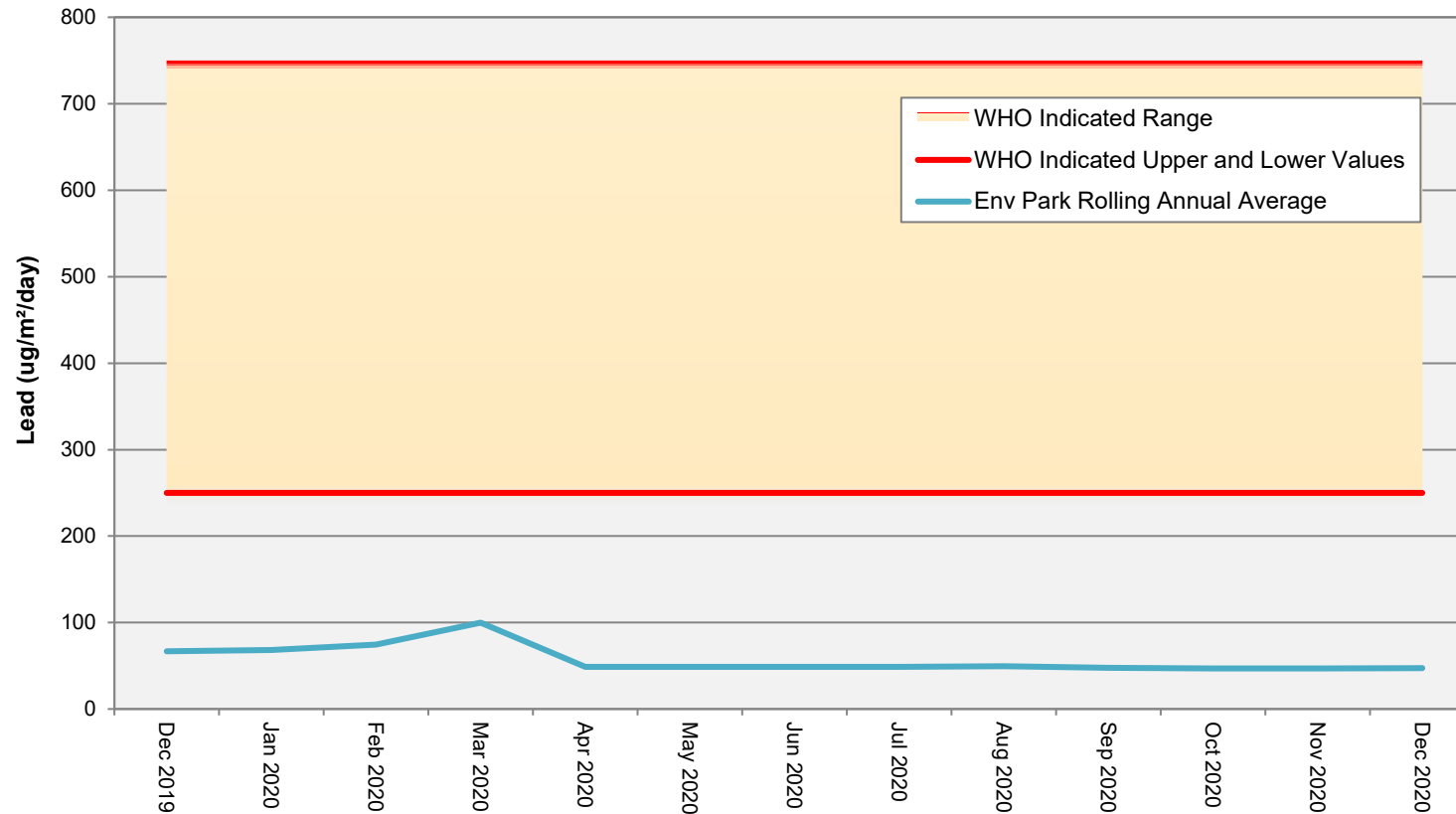
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
DECEMBER 2019 – DECEMBER 2020



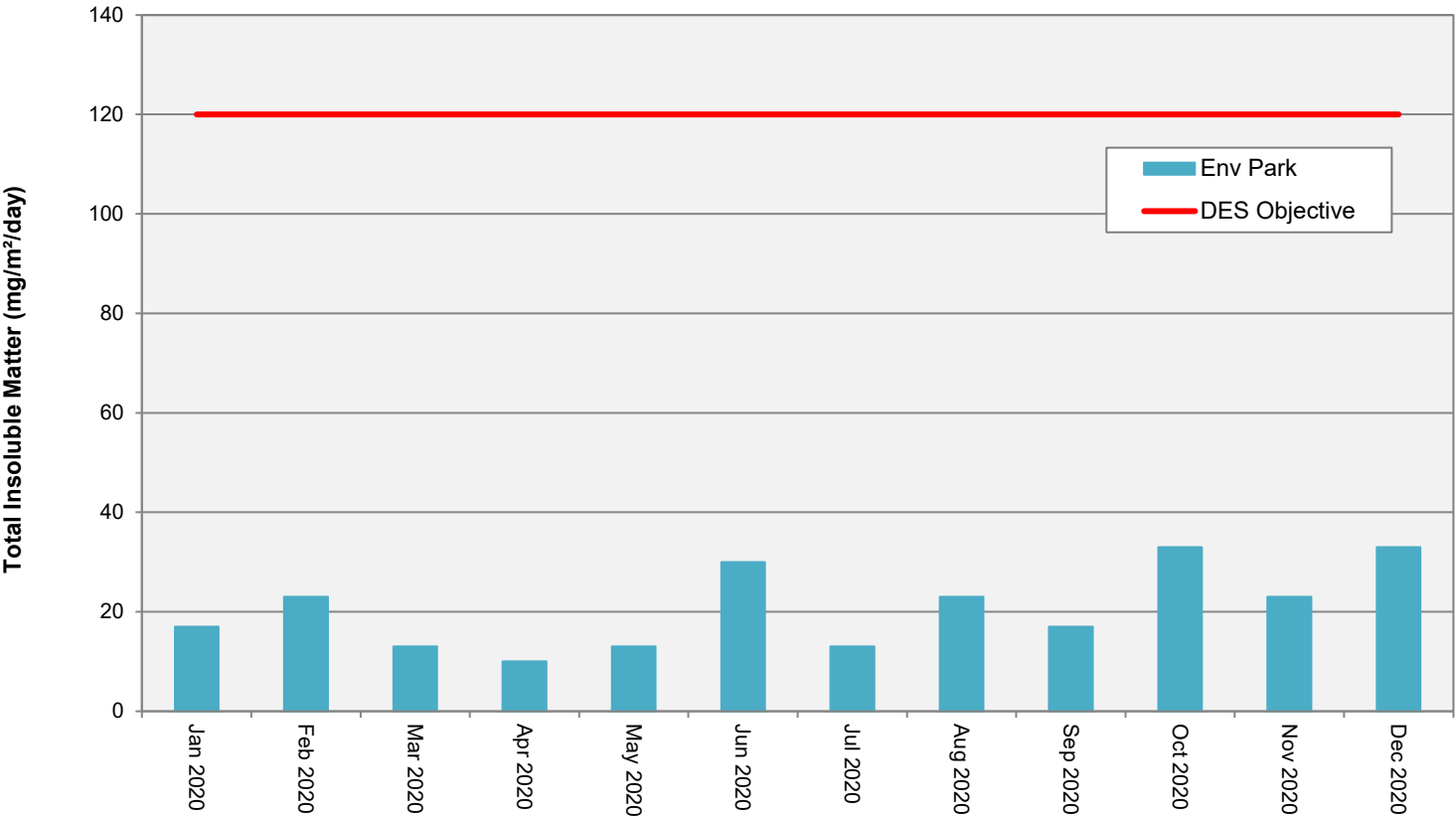
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site DECEMBER 2019 – DECEMBER 2020



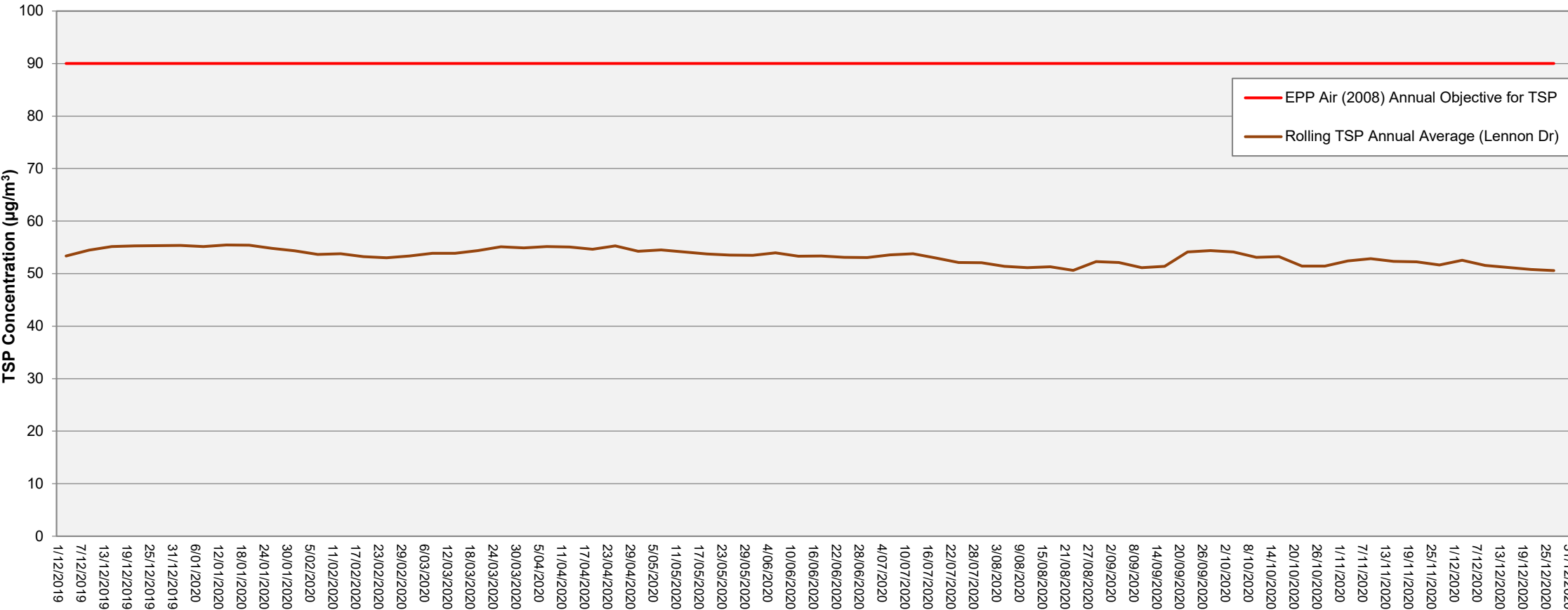
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site
2020



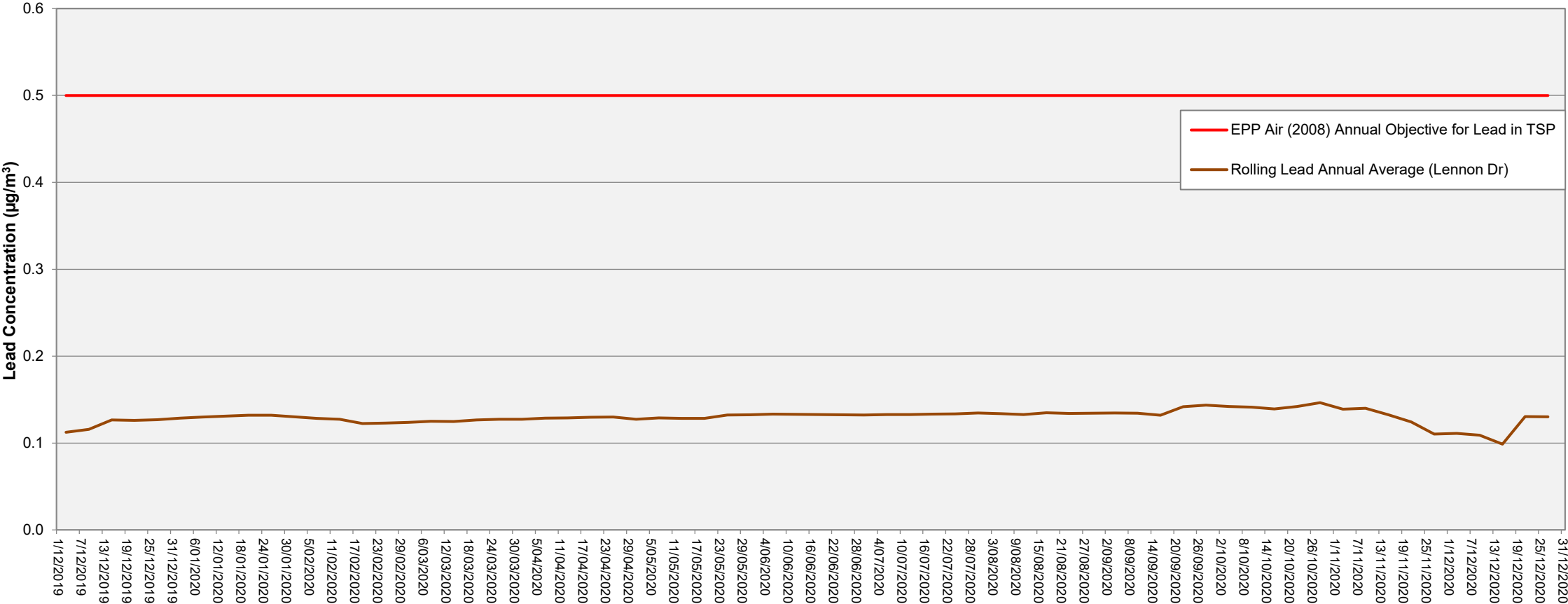
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site
DECEMBER 2019 – DECEMBER 2020



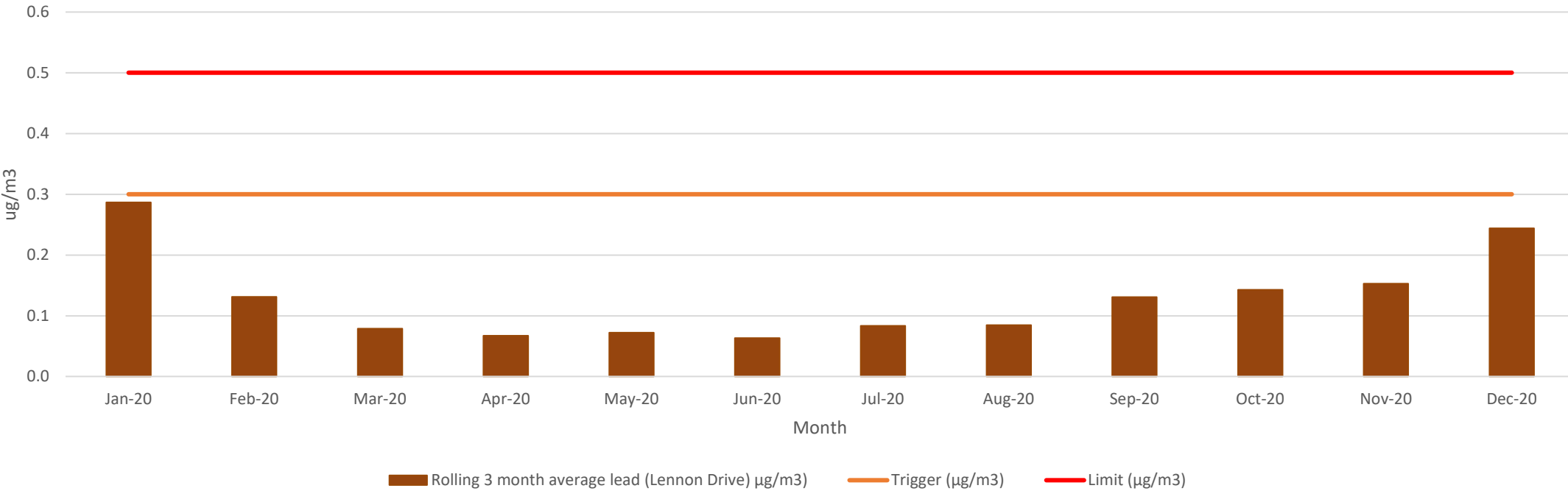
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
DECEMBER 2019 – DECEMBER 2020



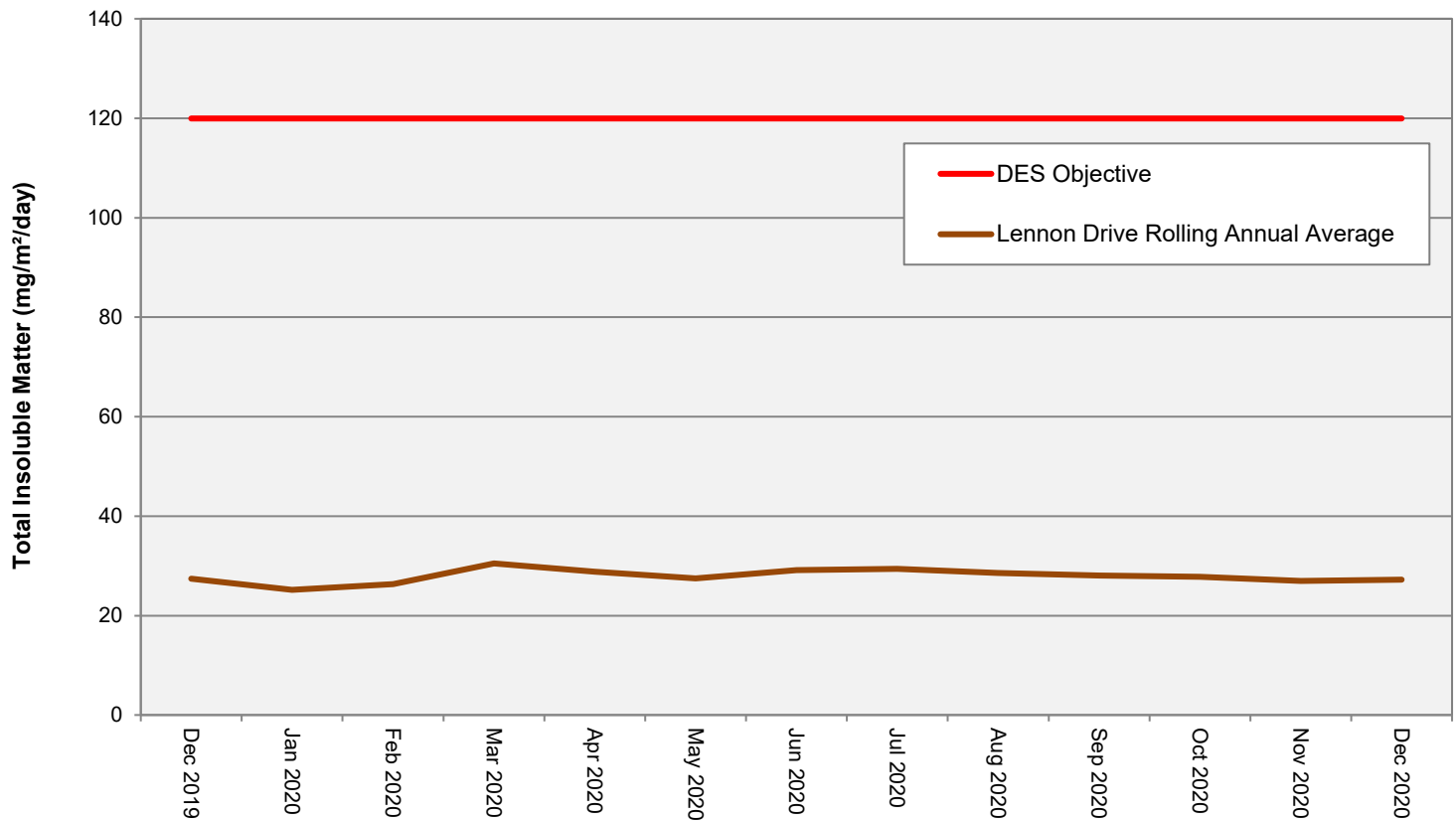
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
2020



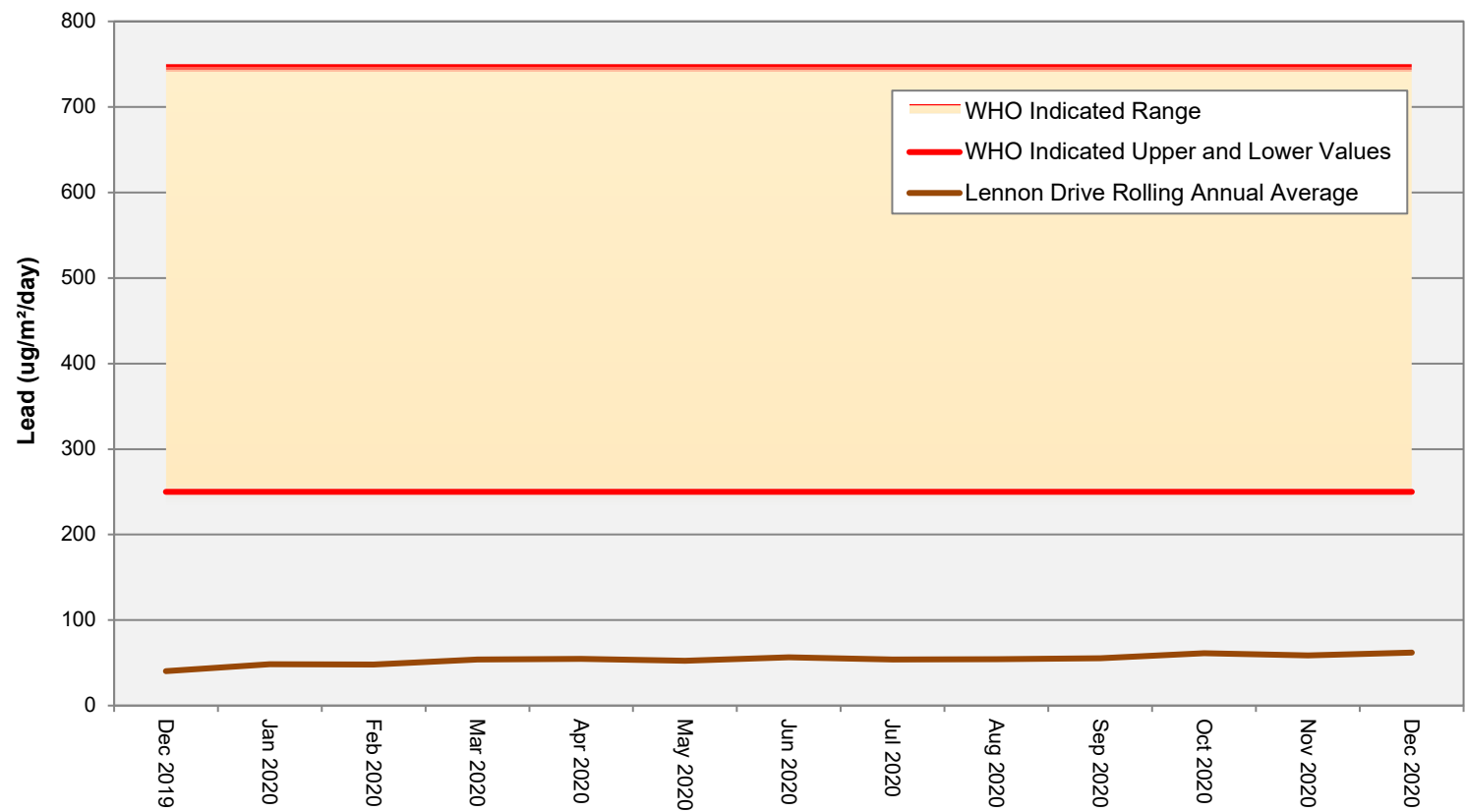
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Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
DECEMBER 2019 – DECEMBER 2020



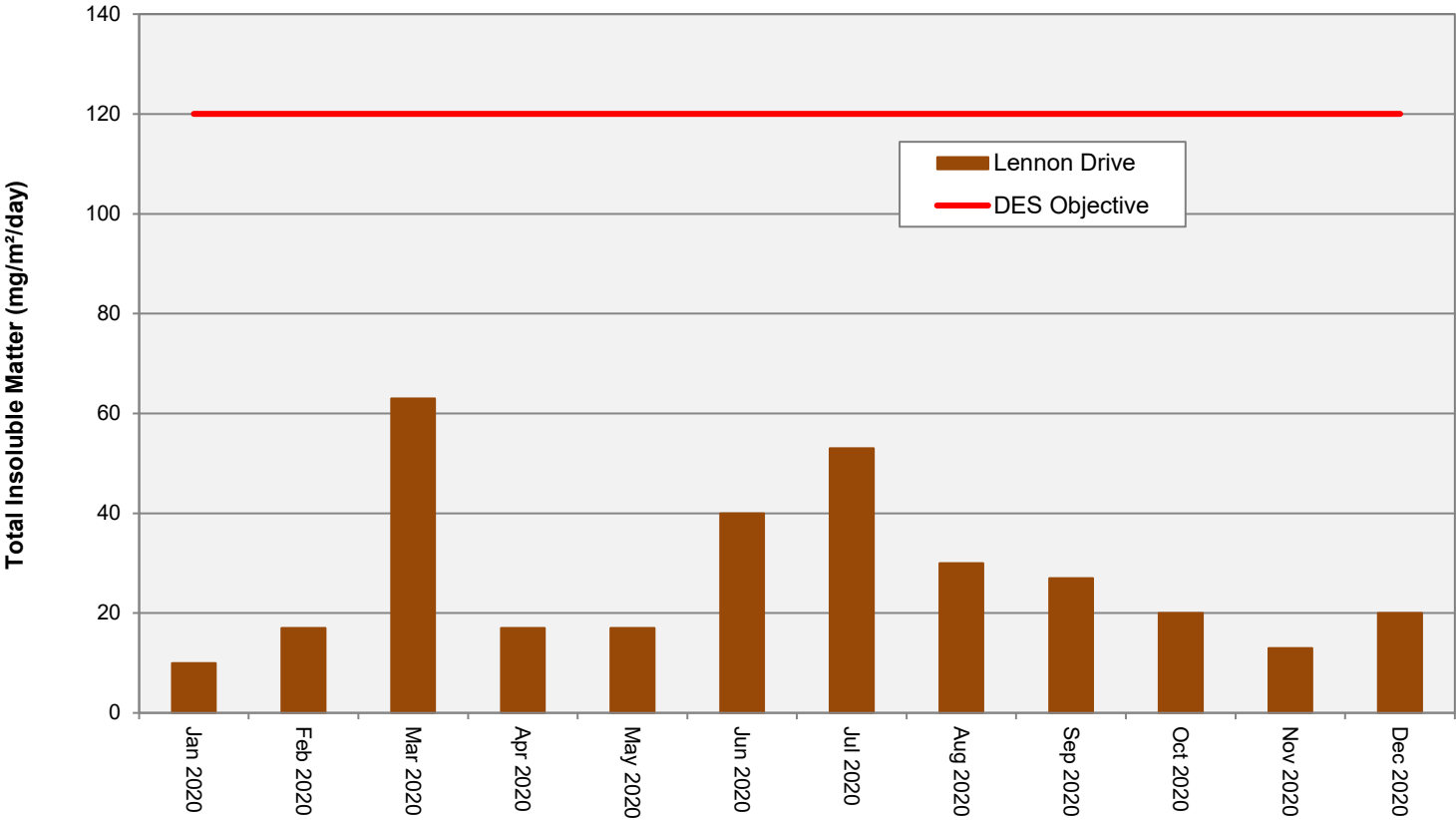
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site
DECEMBER 2019 – DECEMBER 2020



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



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 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.