

Air Quality Dashboard | June | 2021

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

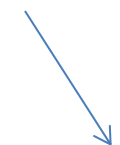
What cargo is
handled at the
Townsville
Port?

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

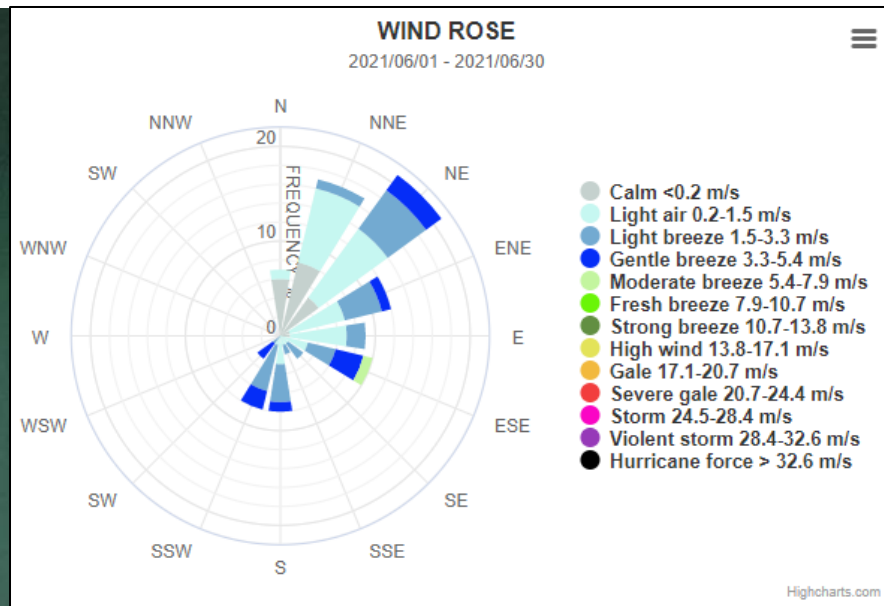
Air Quality
Bulletin

Live Shipping
Schedule

Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Shipping Movements in June 2021

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

Date In/Out	Vessel Name	Cargo	Berth
28 May - 02 Jun	ADF		10
31 May - 02 Jun	ADF		9
01 Jun - 02 Jun	OCEAN UTE	Cattle (EXPORT)	4
01 Jun - 04 Jun	ECO	Fertilizer (EXPORT)	8
01 Jun - 02 Jun	STI TOPAZ	Fuels (IMPORT)	1
01 Jun - 01 Jun	DONINGTON	Motor Vehicles (IMPORT)	3 NTH
02 Jun - 03 Jun	SUVA CHIEF	NIL	4
02 Jun - 04 Jun	VOGE EMMA	Zinc Concentrates, Copper Concentrates (EXPORT)	3 NTH
03 Jun - 04 Jun	SOFRANA TOURVILLE	NIL	4
04 Jun - 06 Jun	VOGE EMMA	TBA	11
04 Jun - 09 Jun	CLIPPER BELLE	Zinc Ferrites (EXPORT)	10
05 Jun - 06 Jun	STI MIRACLE	Fuels (IMPORT)	1
05 Jun - 06 Jun	HANSA FREYBURG	NIL	3 STH
05 Jun - 07 Jun	DL LAVENDER	Fertilizer (IMPORT)	4
06 Jun - 08 Jun	VOGE EMMA	TBA	8
07 Jun - 08 Jun	LOCH LOMOND	Lead Ingots (EXPORT)	3 STH
09 Jun - 10 Jun	ORCA ACE	Motor Vehicles (IMPORT)	4
09 Jun - 12 Jun	FLORA DELMAS	NIL	3 STH
10 Jun - 13 Jun	PAN GLORIS	Scrap (EXPORT)	8
10 Jun - 11 Jun	VUKOVAR	Fuels (IMPORT)	1
12 Jun - 12 Jun	DAEDALUS LEADER	Motor Vehicles (IMPORT)	10
12 Jun - 13 Jun	FOREVER GLORY	Fuels (IMPORT)	1
12 Jun - 12 Jun	GOLDEN SKY	Fuels (IMPORT)	1
13 Jun - 15 Jun	KONDILI	Cement (IMPORT)	4
13 Jun - 16 Jun	PACIFIC CONDOR	NIL	3 NTH
14 Jun - 15 Jun	JAWAN	Cattle (EXPORT)	3 STH

Date In/Out	Vessel Name	Cargo	Berth
14 Jun - 14 Jun	ADF		9
14 Jun - 14 Jun	GLOBAL HIGHWAY	Motor Vehicles (IMPORT)	10
15 Jun - 15 Jun	ADF		10
15 Jun - 17 Jun	CORETALENT OL	Sugar (EXPORT)	9
15 Jun - 16 Jun	TAIHAI 1	Bitumen (IMPORT)	4
15 Jun - 16 Jun	ASPHALT SPIRIT	Bitumen (IMPORT)	1
16 Jun - 16 Jun	PACIFIC CONDOR	TBA	3 NTH
16 Jun - 18 Jun	NOUMEA CHIEF	NIL	4
16 Jun - 16 Jun	GELBRAY EXPRESS	Cattle (EXPORT)	3 NTH
17 Jun - 19 Jun	AQUAGEMINI	Sugar (EXPORT)	9
17 Jun - 19 Jun	ARCADIA	Lead Concentrates, Zinc Concentrates (EXPORT)	3 NTH
19 Jun - 23 Jun	DAYANG CONFIDENCE	Fertilizer (EXPORT)	8
19 Jun - 20 Jun	ADF		10
19 Jun - 20 Jun	GLADIATOR	Sugar (EXPORT)	9
20 Jun - 24 Jun	NEW GENERAL	Lead Concentrates, Zinc Concentrates (EXPORT)	11
20 Jun - 22 Jun	MARLIN MAJESTIC	Fuels (IMPORT)	1
20 Jun - 21 Jun	THERESA MICRONESIA	Molasses (EXPORT)	9
21 Jun - 21 Jun	GREYMAN EXPRESS	Cattle (EXPORT)	4
23 Jun - 24 Jun	OCEAN DROVER	Cattle (EXPORT)	4
23 Jun - 27 Jun	SOLE	Zinc Concentrates (EXPORT)	8
24 Jun - 25 Jun	EENDRACHT	General Cargo, Containers (EXPORT)	3 NTH
25 Jun - 27 Jun	HANSA REGENSBURG	NIL	3 STH
27 Jun - 28 Jun	NORD TAIPEI	Concentrates (EXPORT)	8
27 Jun - 28 Jun	OCEAN UTE	Cattle (EXPORT)	4
27 Jun - 28 Jun	SOLE	Zinc Concentrates (EXPORT)	3 NTH
28 Jun - 28 Jun	APHRODITE LEADER	Motor Vehicles (IMPORT)	10



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

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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.

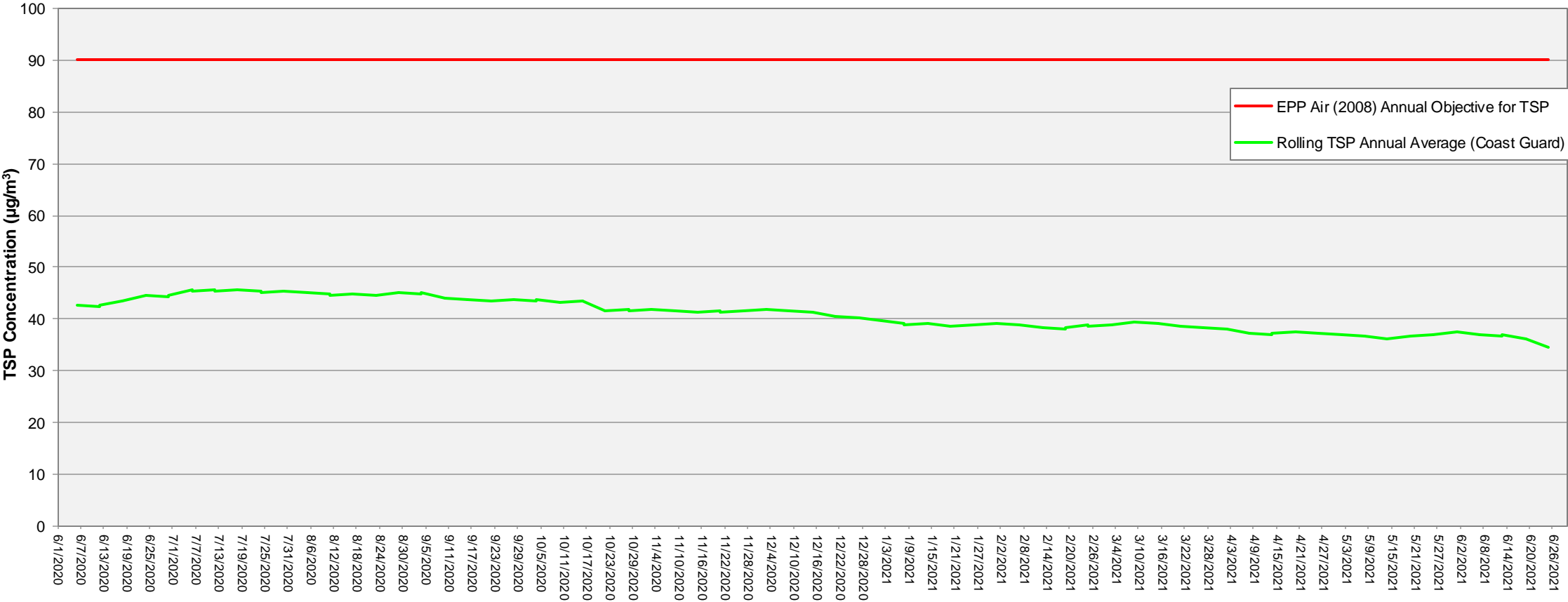
OR

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

Ask a Question / Provide Feedback

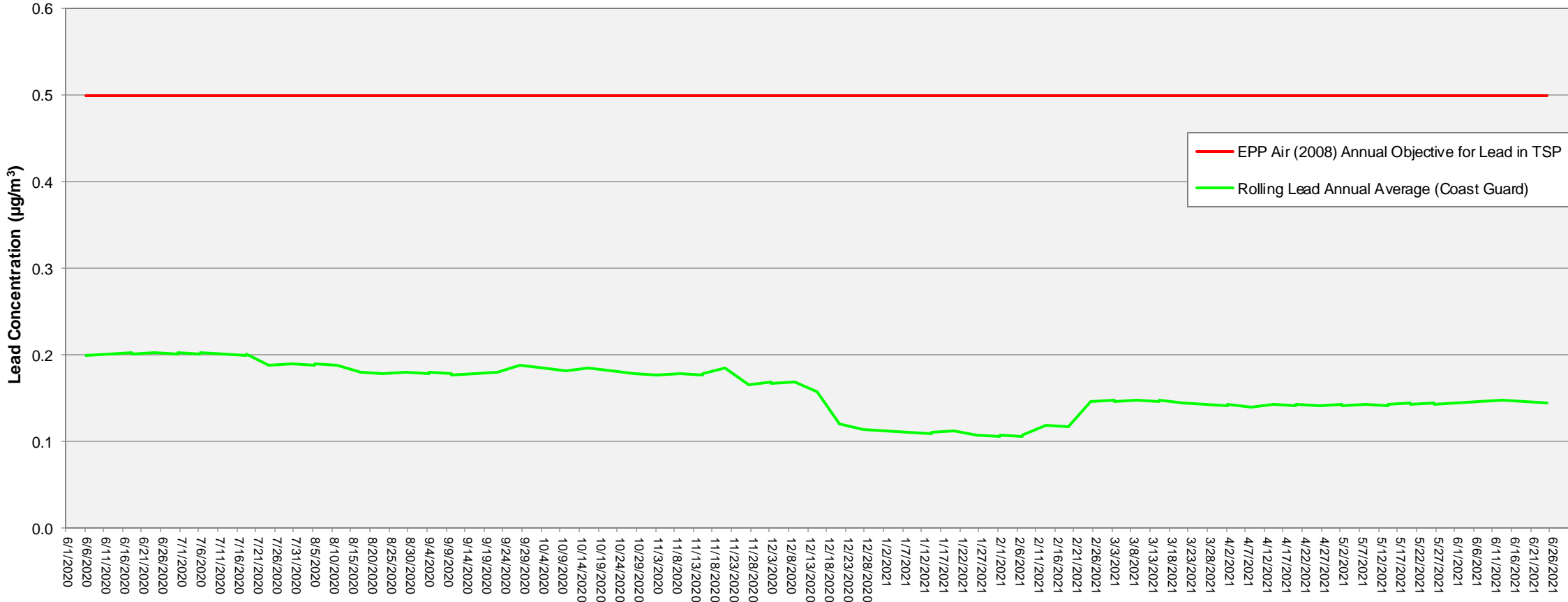
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site
JUNE 2020 – JUNE 2021



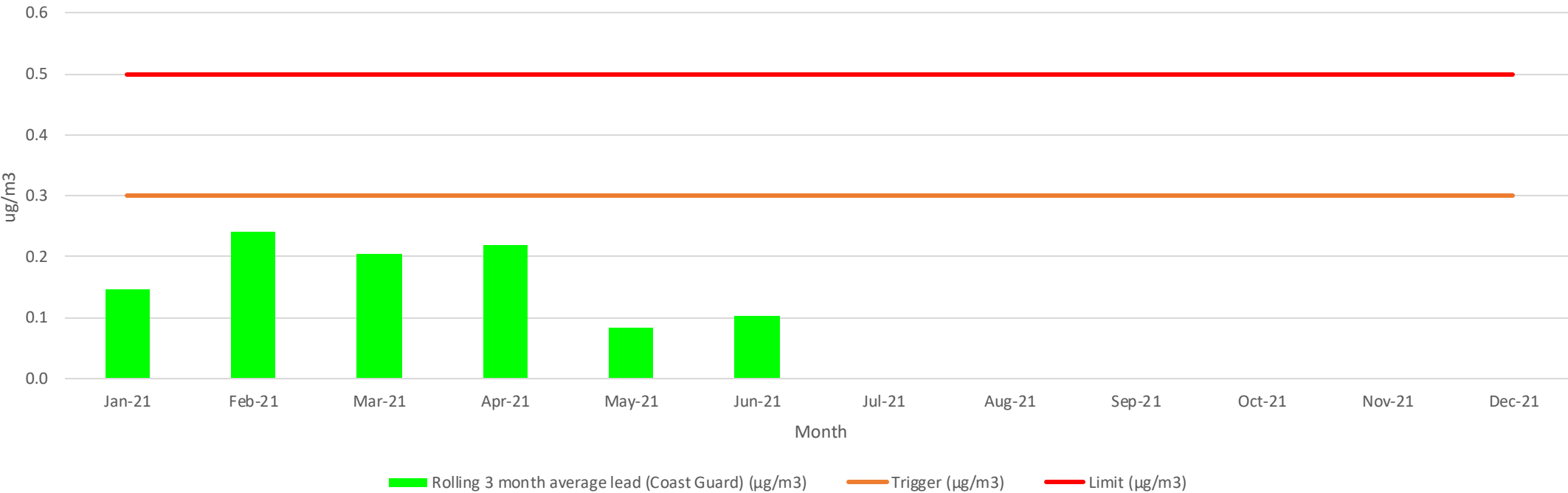
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site
JUNE 2020 – JUNE 2021



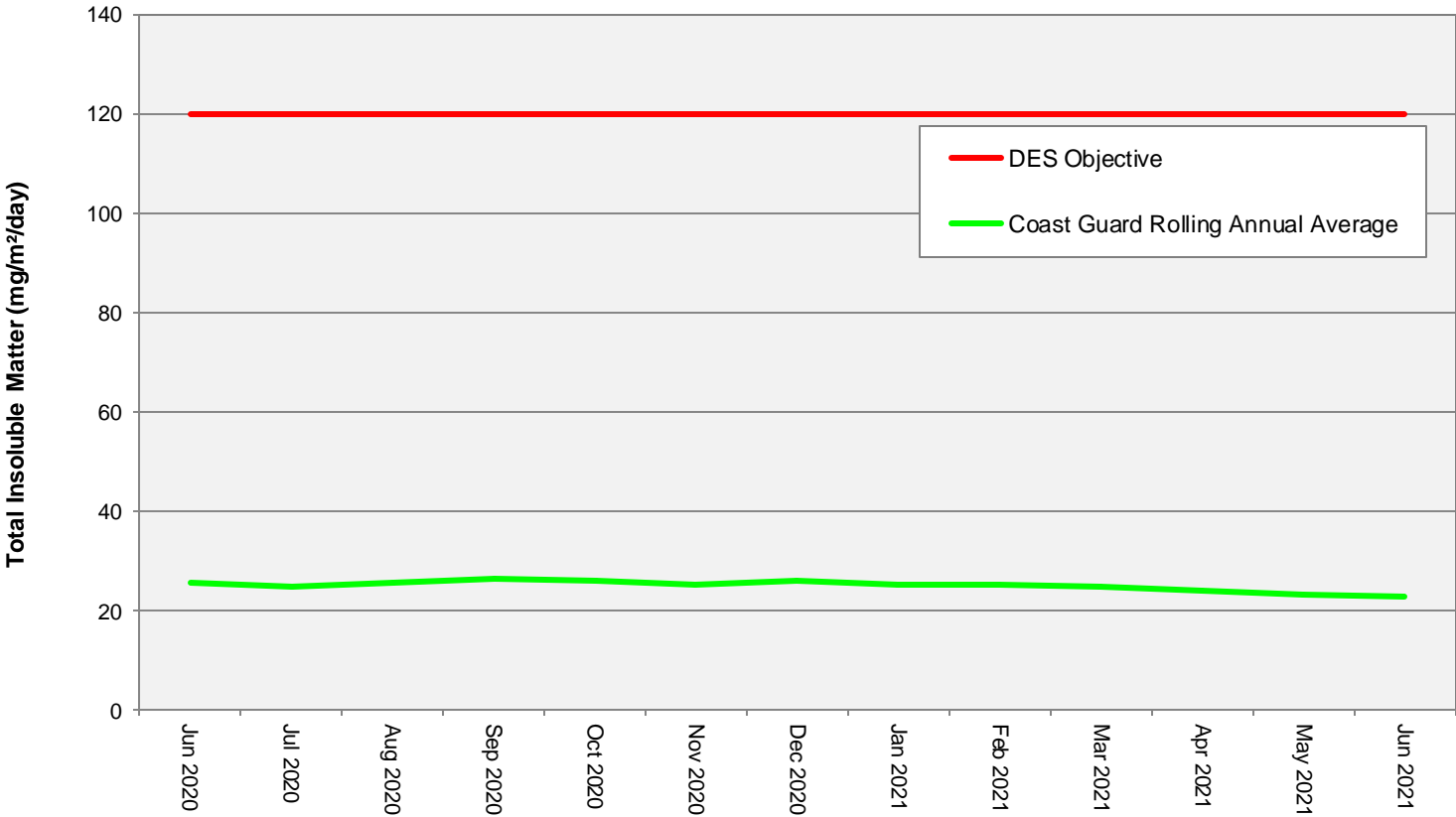
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



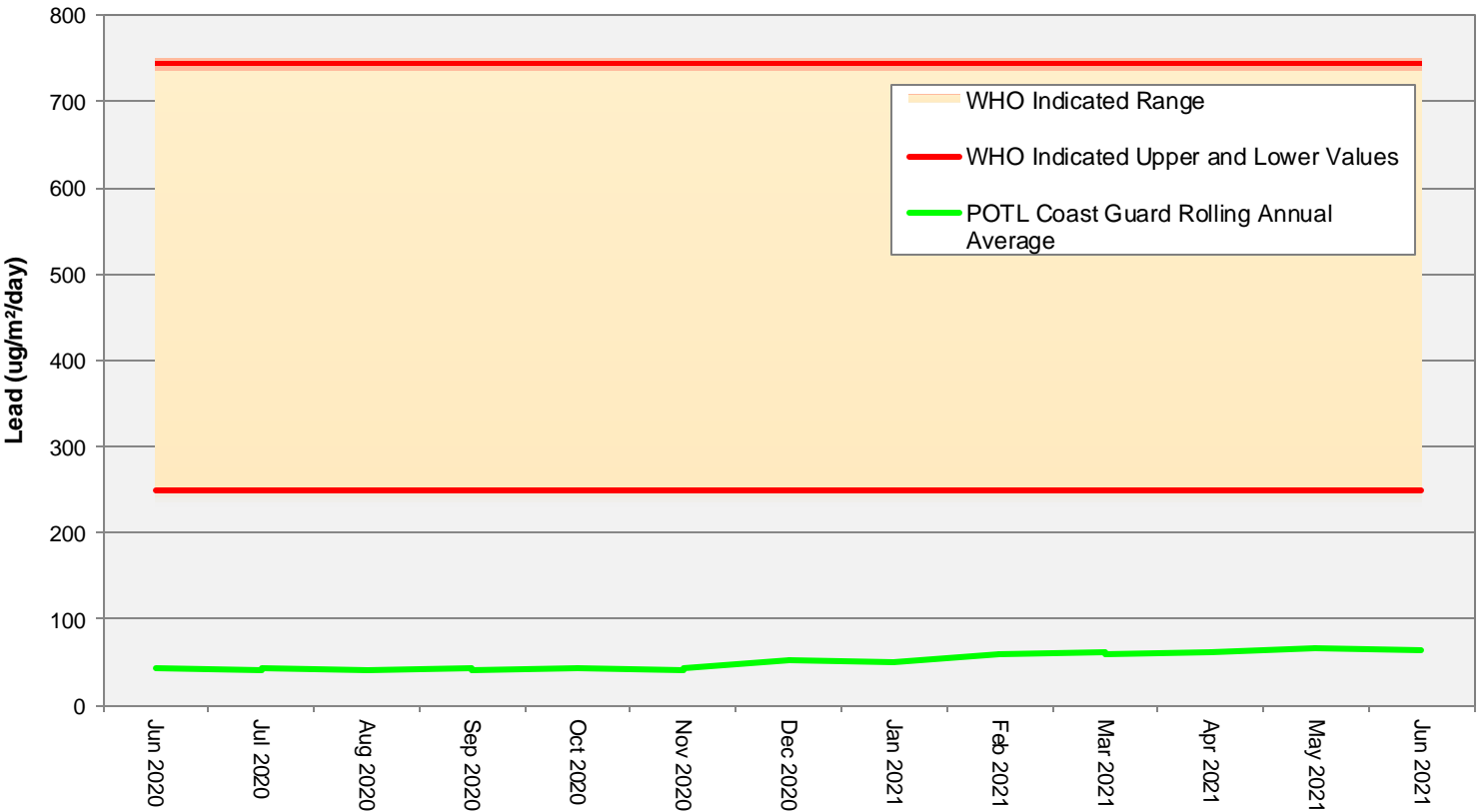
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
JUNE 2020 – JUNE 2021



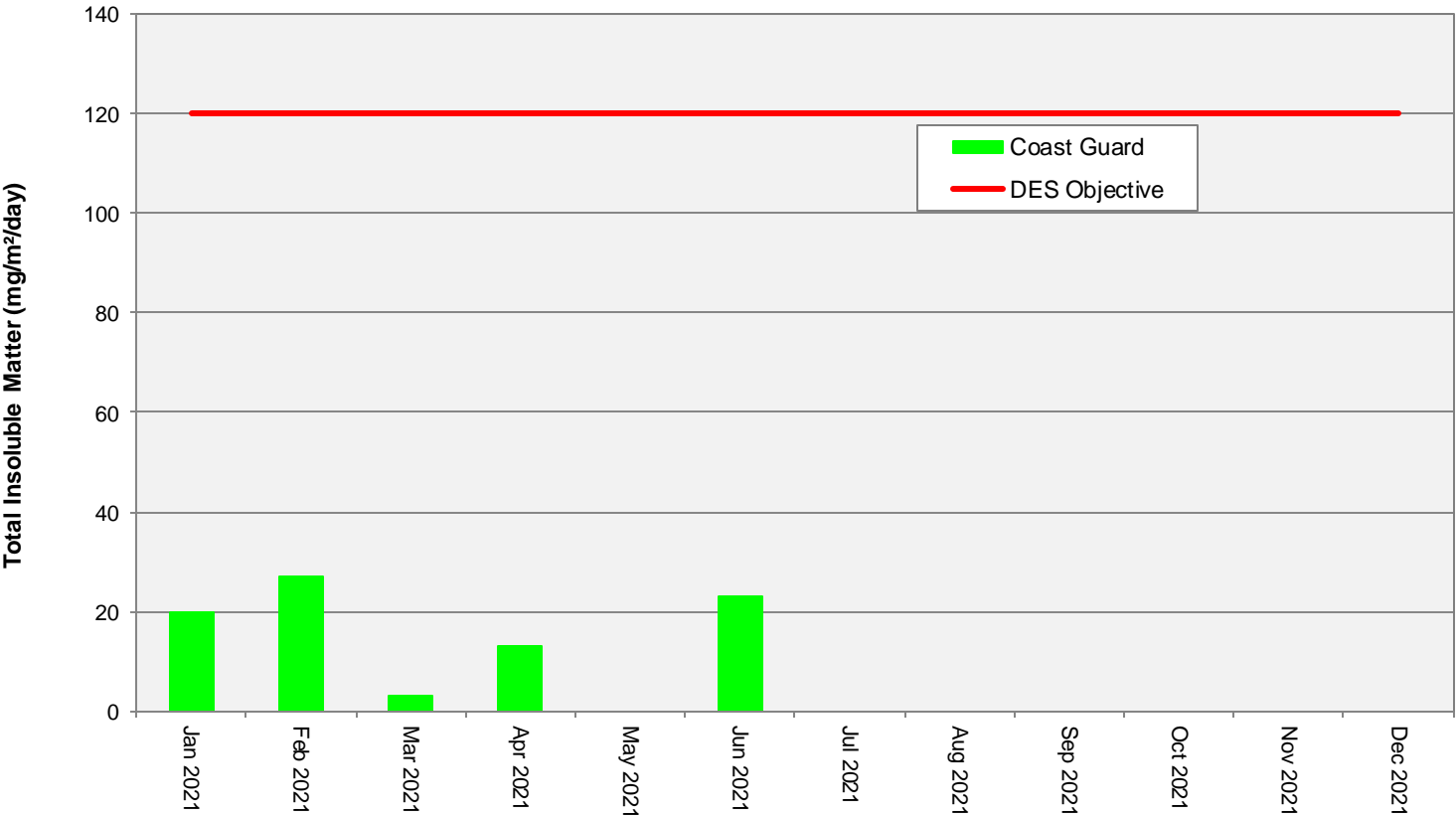
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site
JUNE 2020 – JUNE 2021



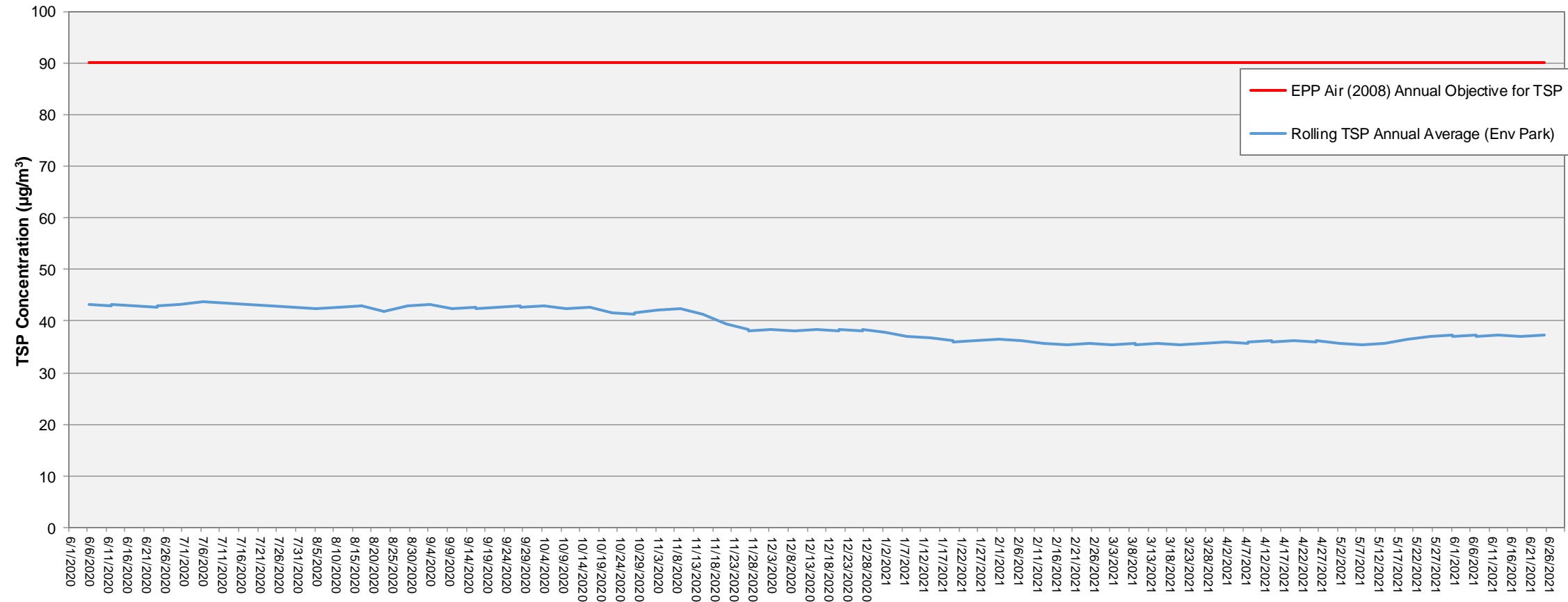
Note: Lead Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
2021



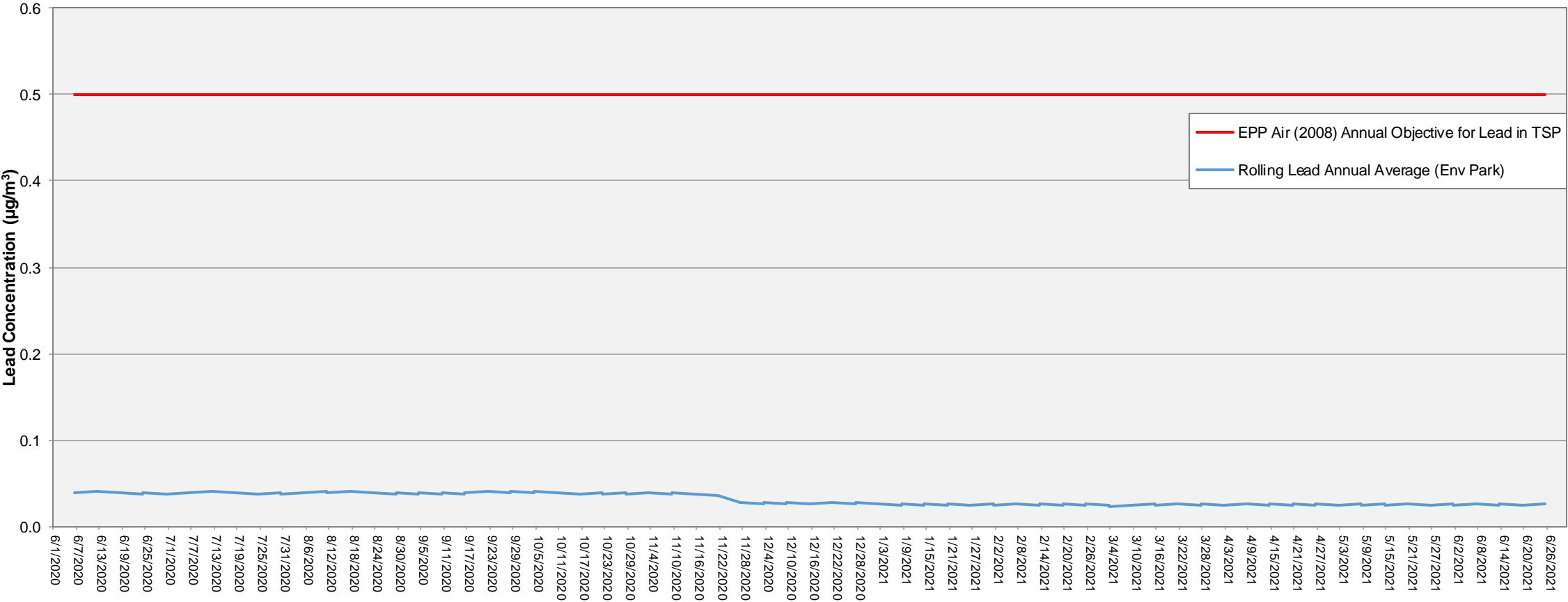
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^May 2021 invalid result. Nil data for display.

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site
JUNE 2020 – JUNE 2021



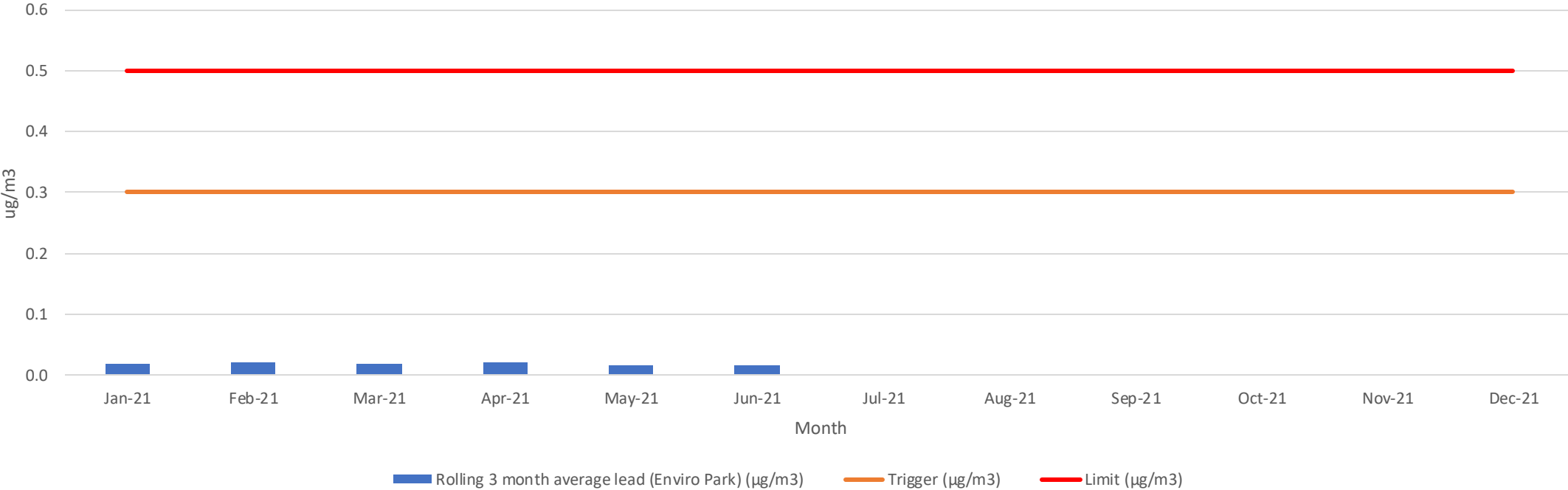
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
JUNE 2020 – JUNE 2021



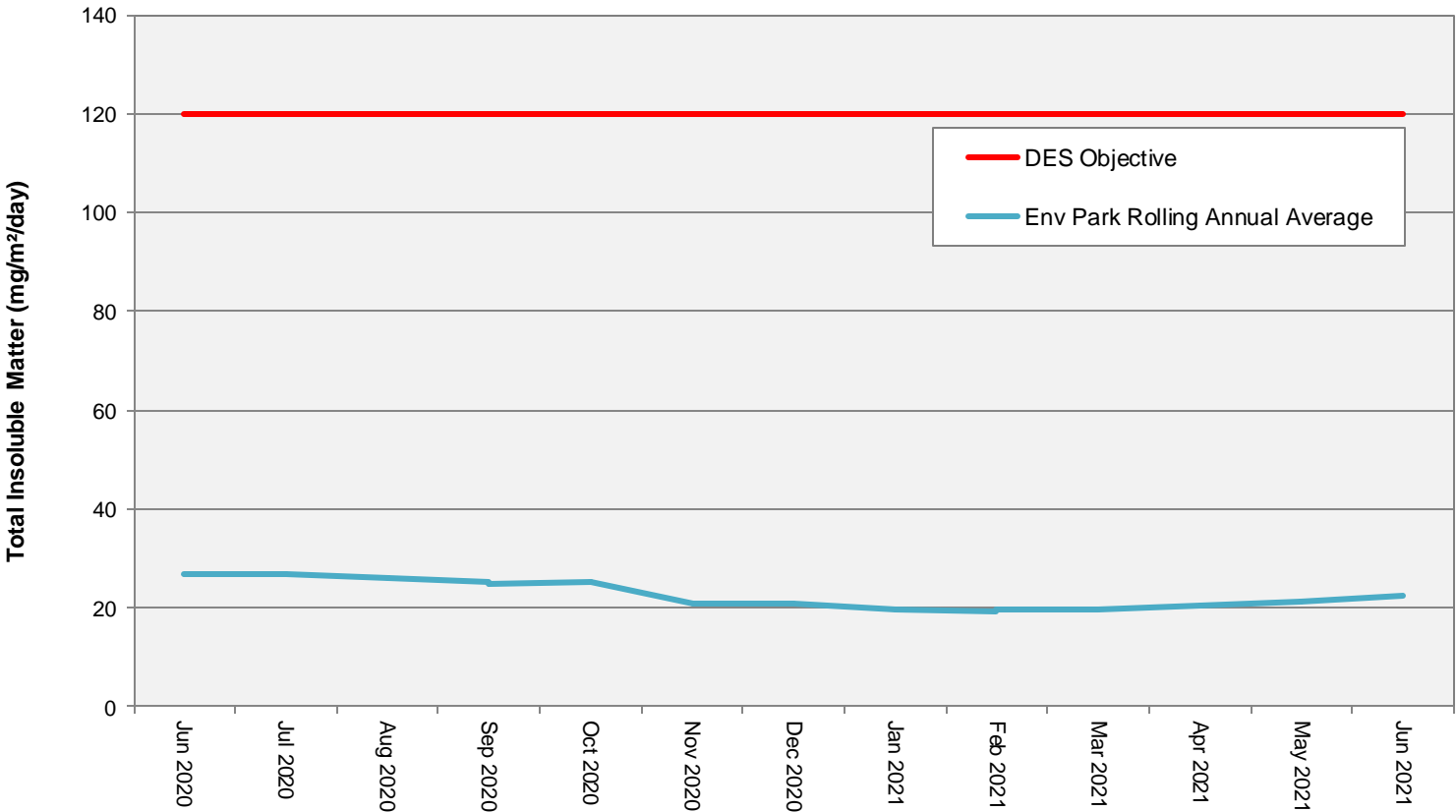
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



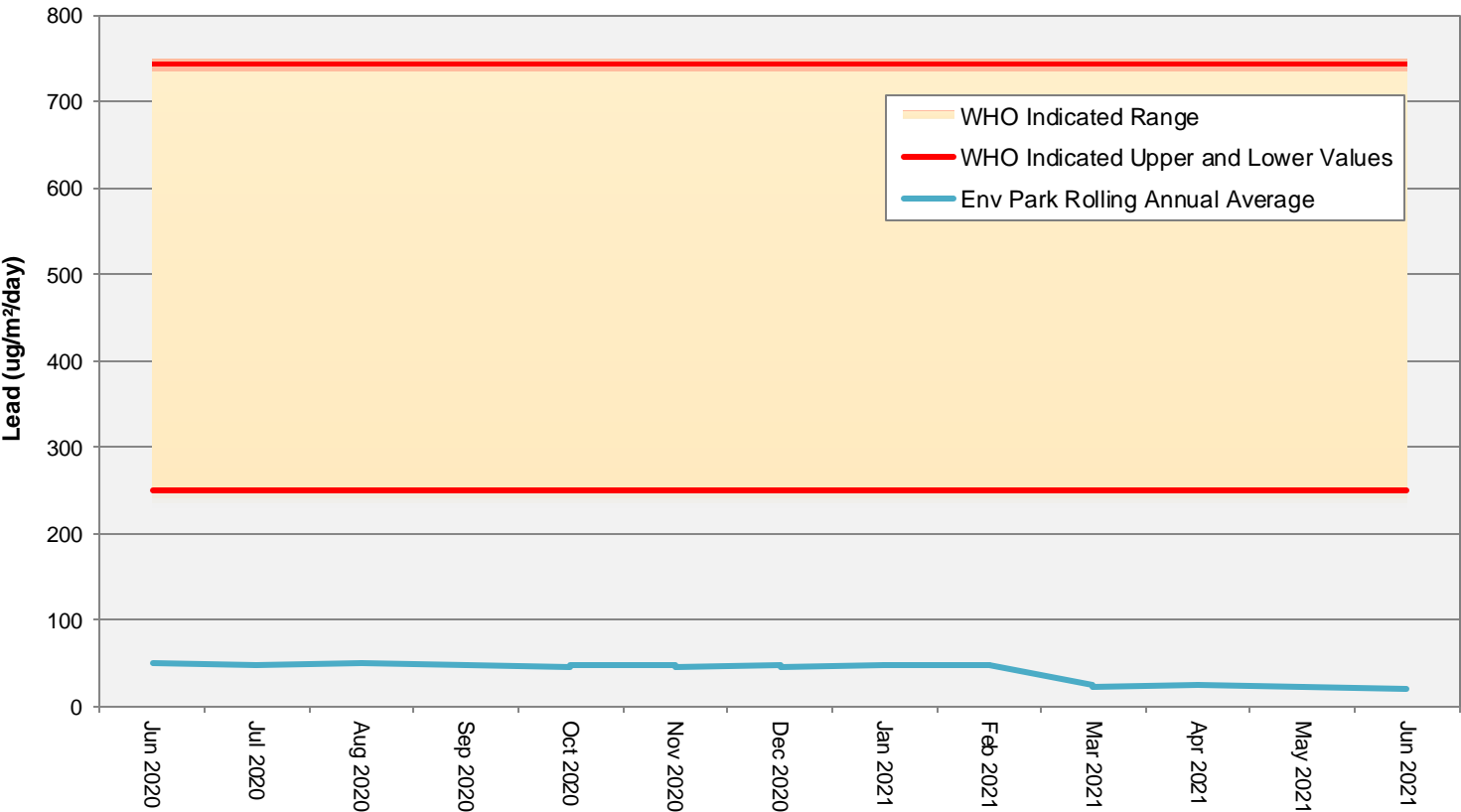
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
JUNE 2020 – JUNE 2021



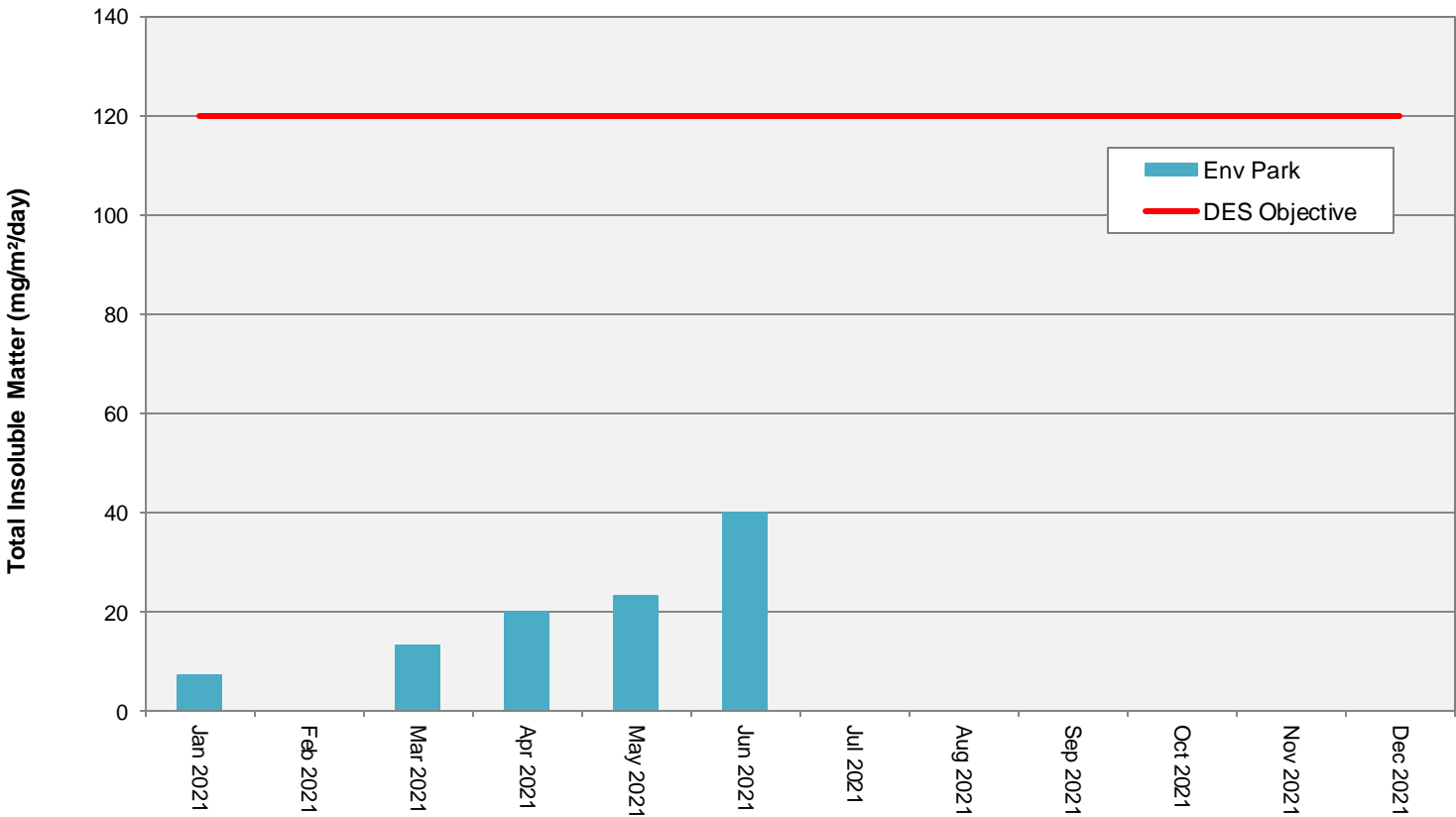
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site
JUNE 2020 – JUNE 2021



Note: Lead Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site
2021

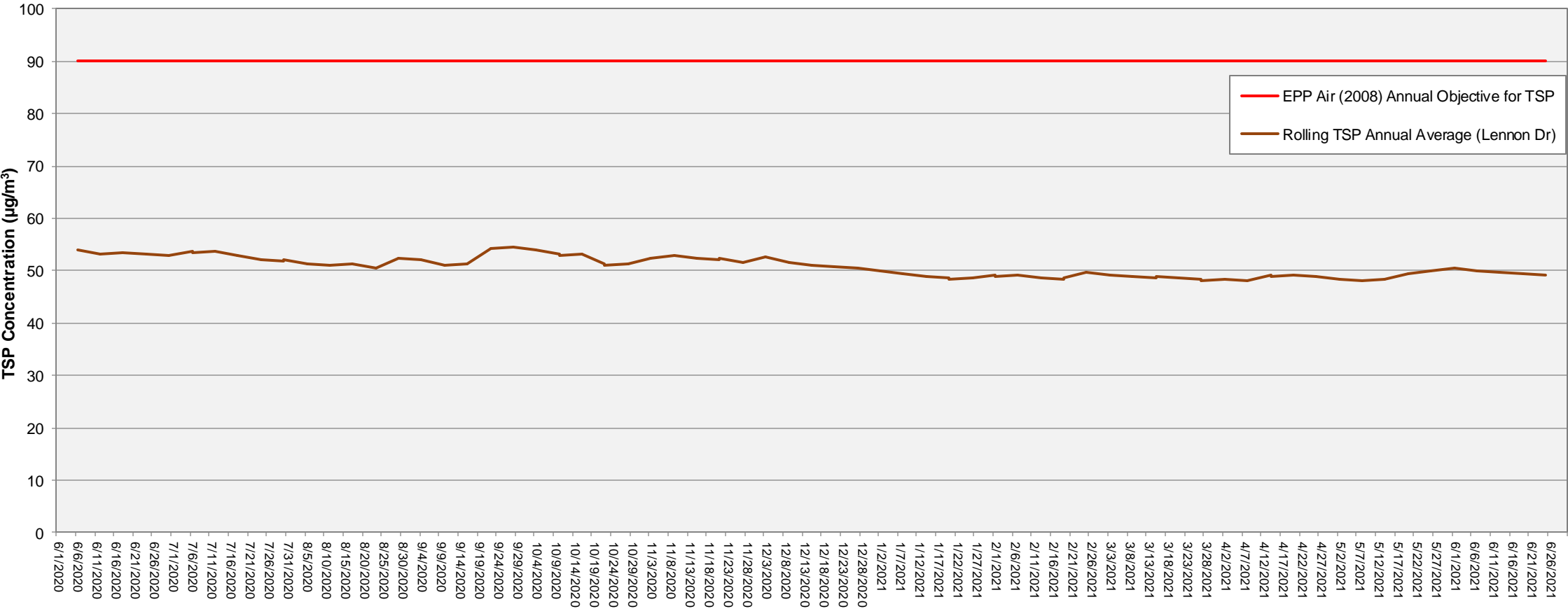


Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

^February 2021 dust bottle damaged in transit. Nil data for display.

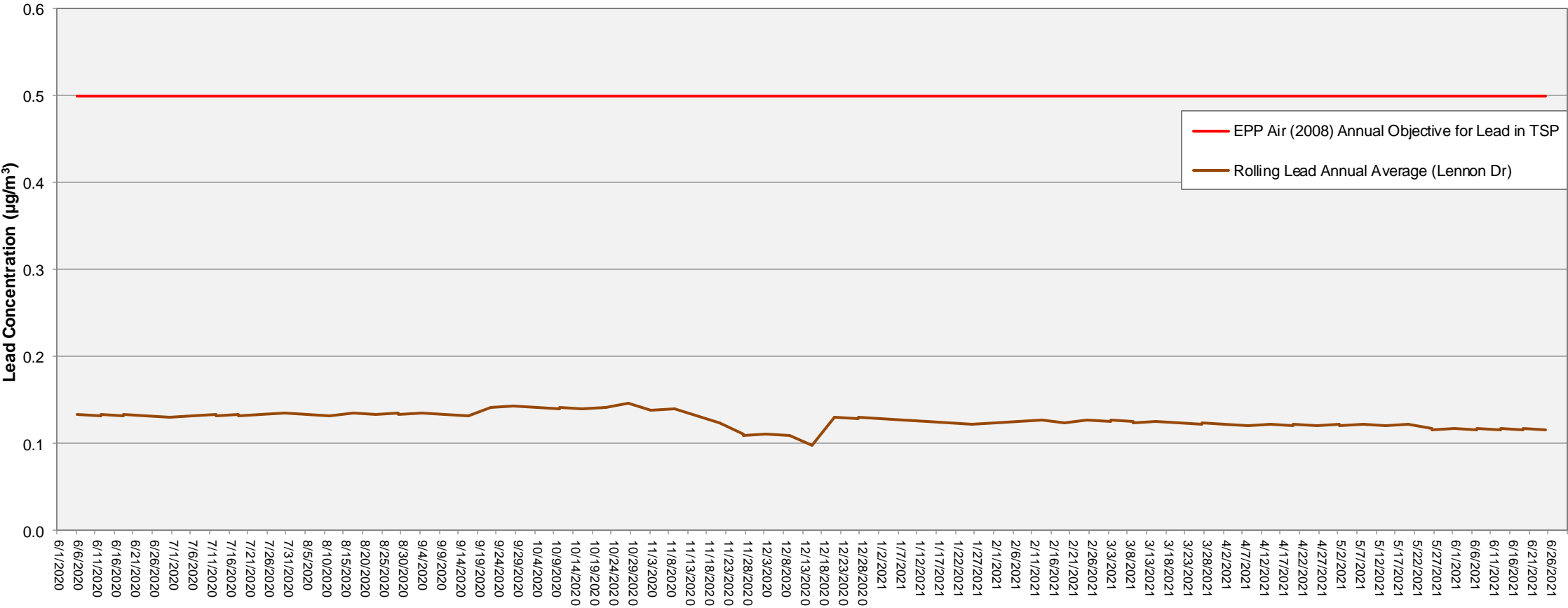
[Click here](#) for information on how to interpret this data

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site
JUNE 2020 – JUNE 2021



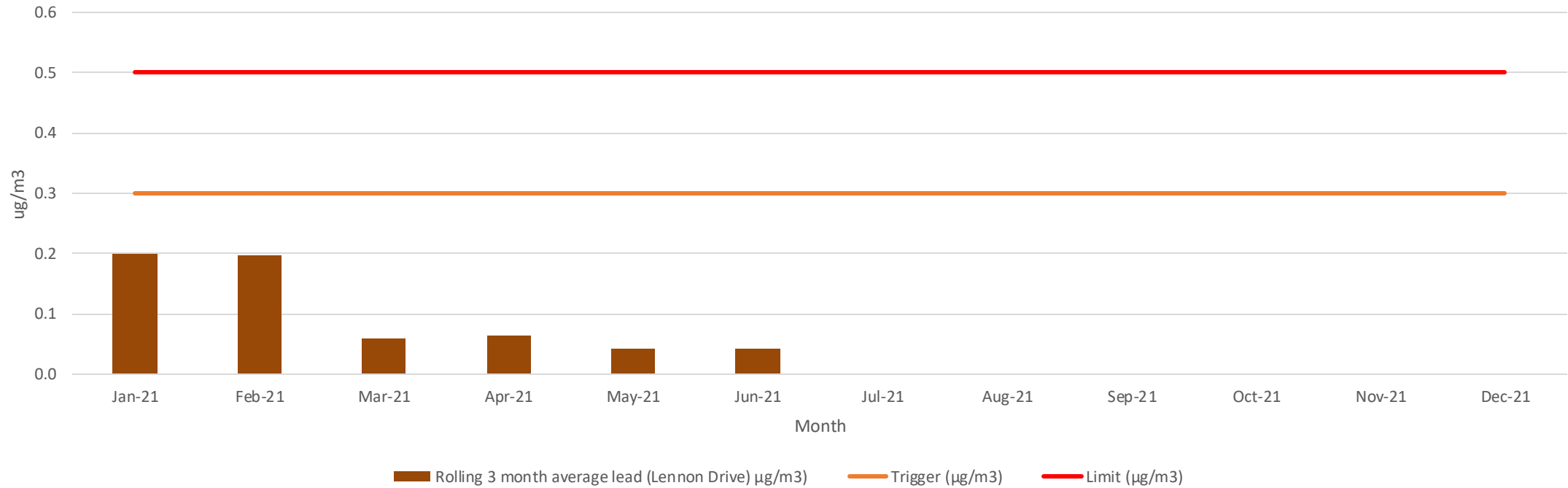
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
JUNE 2020 – JUNE 2021



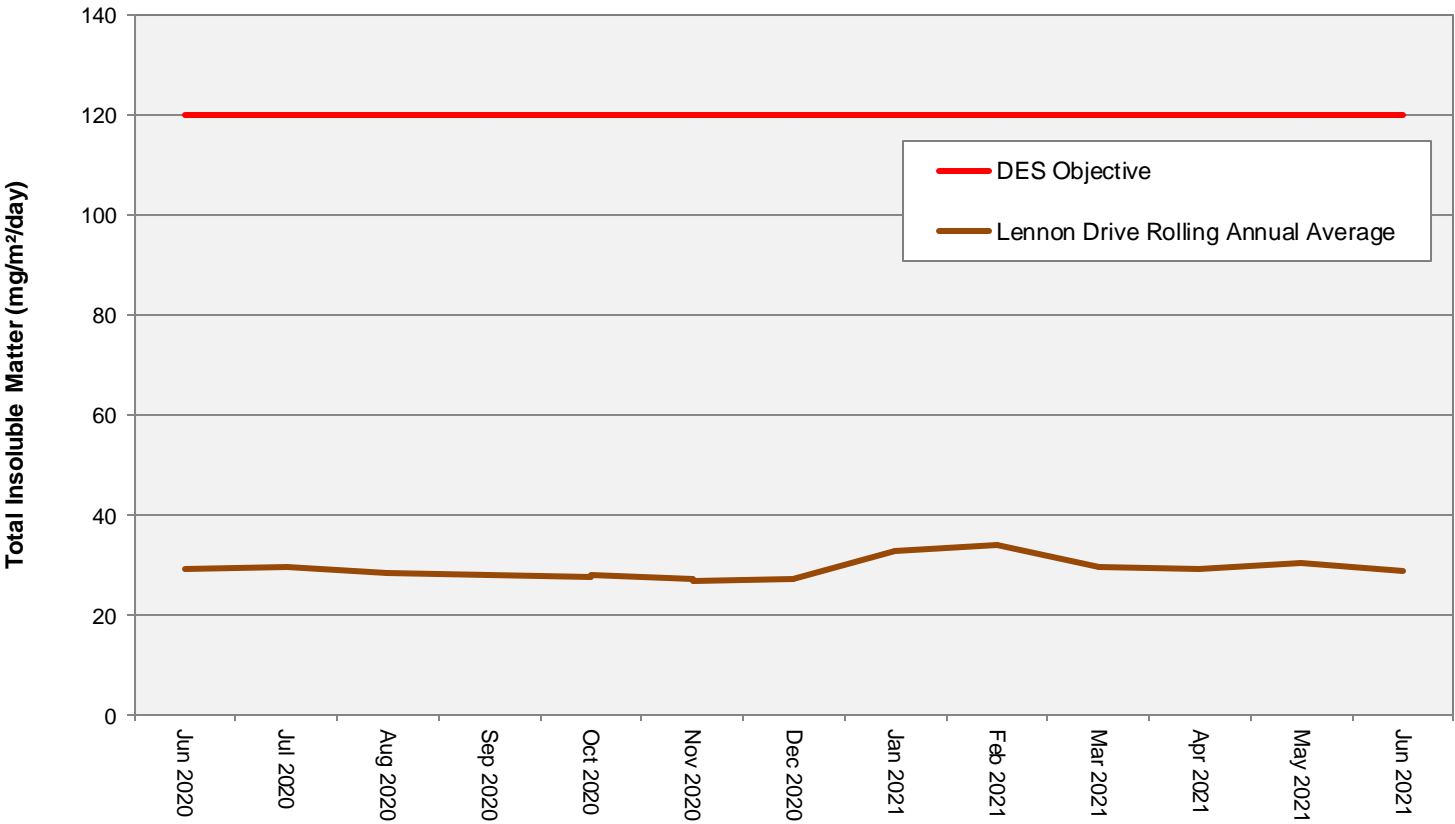
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



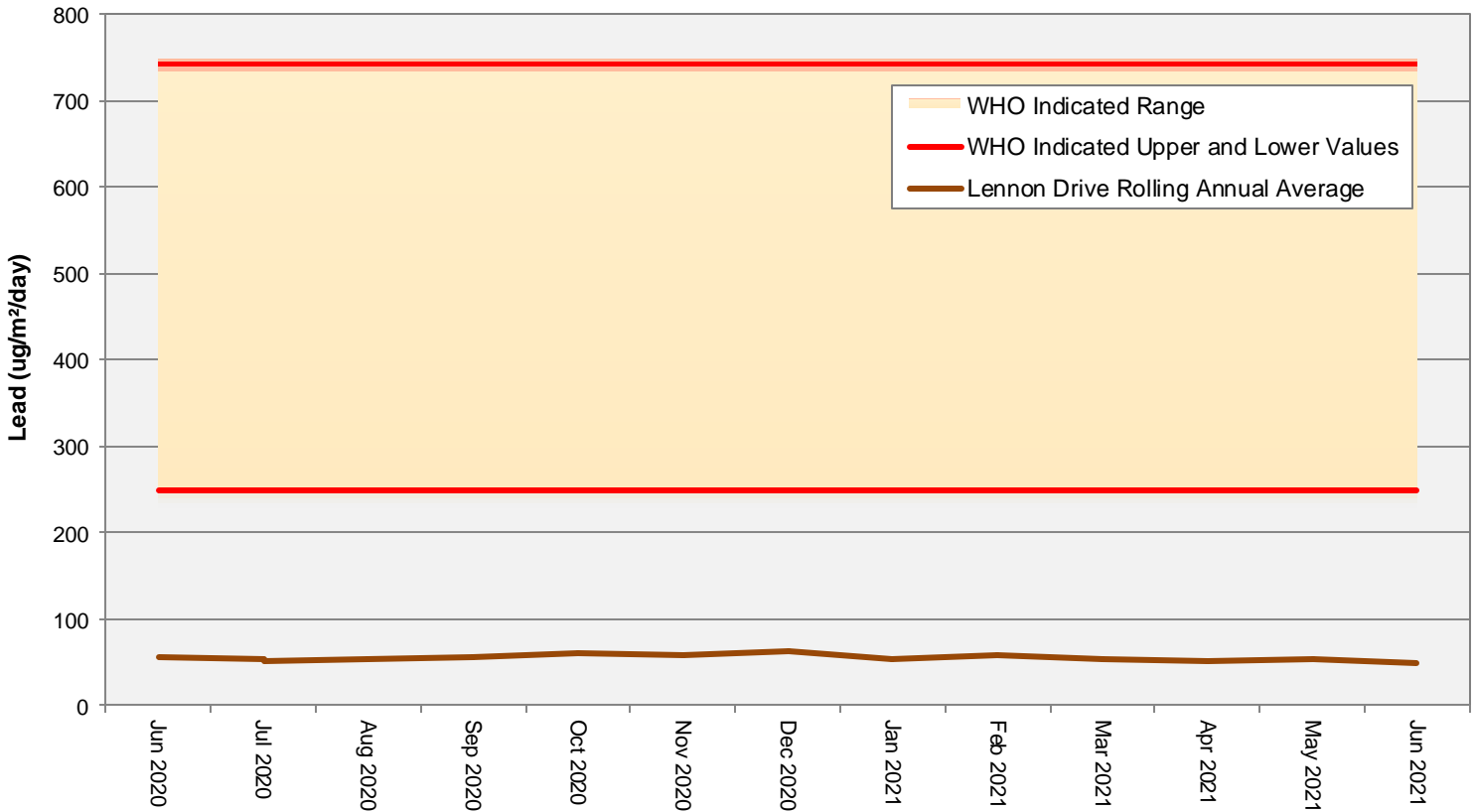
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
JUNE 2020 – JUNE 2021



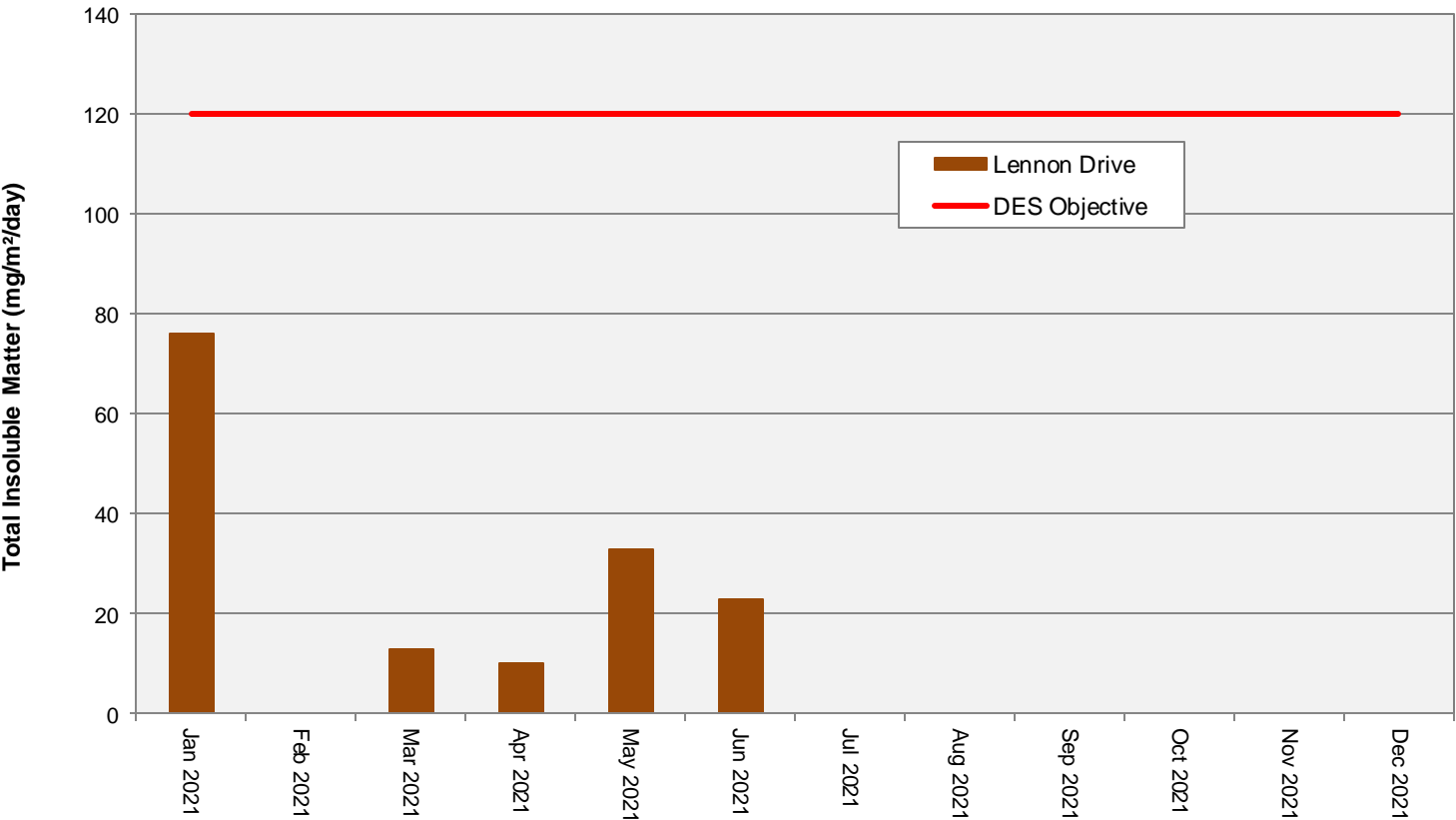
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site
JUNE 2020 – JUNE 2021



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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
2021



Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

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.