

Air Quality Dashboard | AUGUST | 2020

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

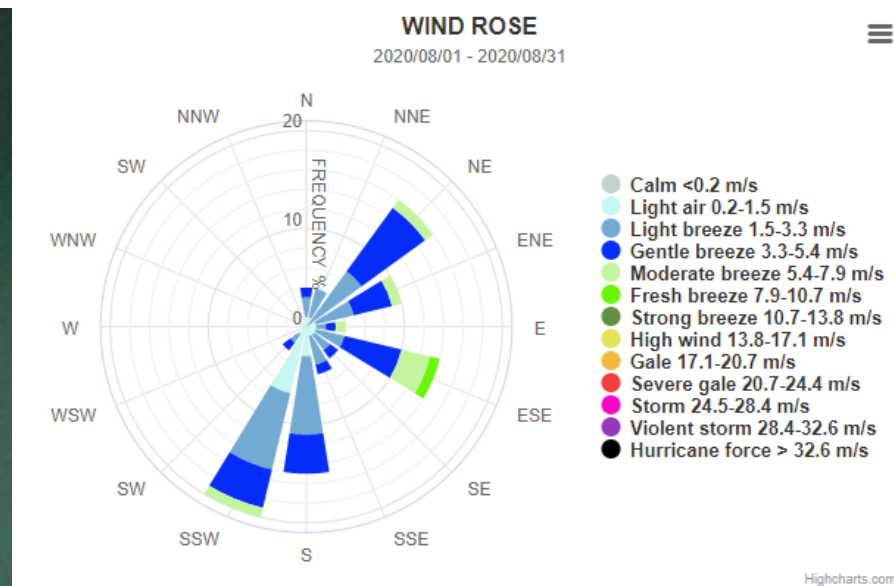
Air Quality
Bulletin

Live Shipping
Schedule

Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Shipping Movements in August 2020

Date In/Out	Vessel Name	Cargo	Berth
30 Jul - 02 Aug	KYOWA ROSE	Copper Anode, Containers	3 NORTH
30 Jul - 02 Aug	ELISABETH OLDENDORFF	Nil Cargo	10
31 Jul - 01 Aug	BUXHANSA	Containers, Containers	4
31 Jul - 01 Aug	GELBRAY EXPRESS	Fodder, cattle	3 SOUTH
01 Aug - 02 Aug	KOTA NIPAH	Containers	3 SOUTH
01 Aug - 03 Aug	THERESA MICRONESIA	Molasses	9
02 Aug - 03 Aug	BBC NAGASAKI	Zinc Concentrates	10
03 Aug - 05 Aug	IONIC HAWK	Fertilizer	8
04 Aug - 08 Aug	WUCHANG	Zinc Concentrates	10
04 Aug - 05 Aug	HAKATA PRINCESS	Fuels	1
05 Aug - 06 Aug	HANSA REGENSBURG	Containers	4
05 Aug - 06 Aug	ELEGANT SW	Zinc Concentrates	3 SOUTH
07 Aug - 07 Aug	GANADO EXPRESS	Fodder, cattle	4
09 Aug - 11 Aug	GOLDEN CHIE	Sulphuric Acid	1
10 Aug - 12 Aug	CASTLEGATE	Sugar	LUC
11 Aug - 12 Aug	SIRIUS HIGHWAY	Motor Vehicles	4
12 Aug - 12 Aug	MARGUERITE ACE	Motor Vehicles	3 NORTH
13 Aug - 14 Aug	PORTLAND BAY	Fertilizer	4
13 Aug - 17 Aug	CANBERRA	Army Equipment	10
14 Aug - 15 Aug	ATLANTIC INFINITY	Fuels	1
14 Aug - 15 Aug	AFRICAN FALCON	Sugar	9
14 Aug - 16 Aug	KOTA HARUM	Containers	4
15 Aug - 15 Aug	ROCKIES HIGHWAY	Motor Vehicles	3 NORTH
15 Aug - 16 Aug	IONIAN STAR	Fuels	1
15 Aug - 16 Aug	CRIMSON PRINCESS	Sugar	9
16 Aug - 17 Aug	BBC AFRICA	Lead Concentrates	3 NORTH

Date In/Out	Vessel Name	Cargo	Berth
16 Aug - 18 Aug	BULK HERO	Fertilizer	8
16 Aug - 17 Aug	EXCELSIOR BAY	Fuels	1
16 Aug - 18 Aug	THERESA ORION	Molasses	9
17 Aug - 21 Aug	GREAT OCEAN	Urea	10
17 Aug - 18 Aug	INTERLINK LEVITY	Lead Concentrates	3 SOUTH
18 Aug - 20 Aug	INTERLINK LEVITY	Lead Concentrates	11
18 Aug - 20 Aug	FLORA DELMAS	Containers	3 SOUTH
20 Aug - 22 Aug	SAPSAN	Fuels	1
20 Aug - 21 Aug	WUCHANG	Lead Ingots	3 SOUTH
21 Aug - 22 Aug	THERESA MICRONESIA	Molasses	9
21 Aug - 23 Aug	WUCHANG	Concentrates	8
22 Aug - 30 Aug	FEDERAL TAKASE	Concentrates	10
22 Aug - 22 Aug	AAL NEWCASTLE	General/Break Bulk	3 NORTH
23 Aug - 25 Aug	CORONADO BAY	Containers	4
23 Aug - 25 Aug	NEPTUNE	Sugar	9
24 Aug - 24 Aug	GELBRAY EXPRESS	Fodder, cattle	3 NORTH
24 Aug - 25 Aug	GLORIOUS SPLENDOUR	Sugar	LUC
26 Aug - 27 Aug	SEA ANGEL	Concentrates	3 SOUTH
27 Aug - 28 Aug	SEA ANGEL	Concentrates	8
29 Aug - 29 Aug	NAVIG8 SKY	Caustic Soda	4
19 Aug - 22 Aug	KONDILI	Cement	4
25 Aug - 26 Aug	BBC KIMBERLEY	General/Break Bulk	3 NORTH
30 Aug - 30 Aug	GANADO EXPRESS	Fodder, cattle	3 NORTH
26 Aug - 27 Aug	GOLDEN ACE	Fuels	1
30 Aug - 31 Aug	STI SAN ANTONIO	Fuels	1



First established in 1864, the Port of Townsville is 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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OR

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

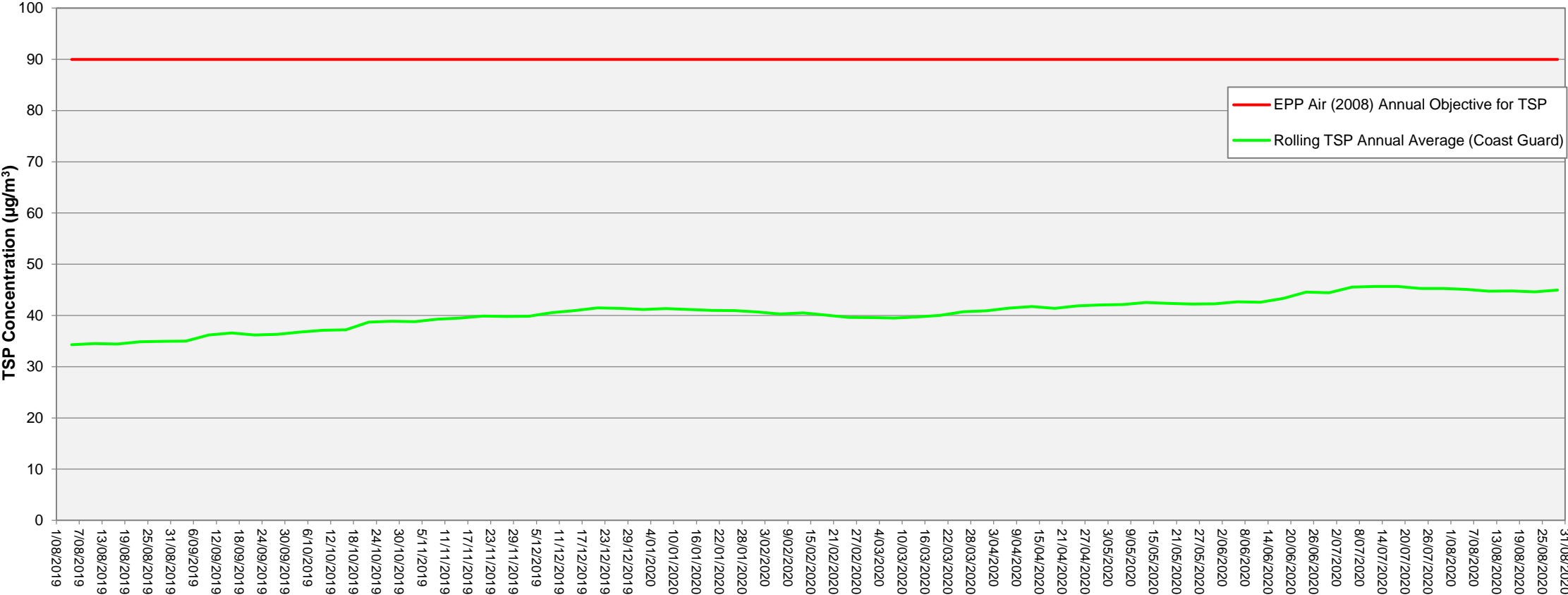
OR

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

Ask a Question / Provide Feedback

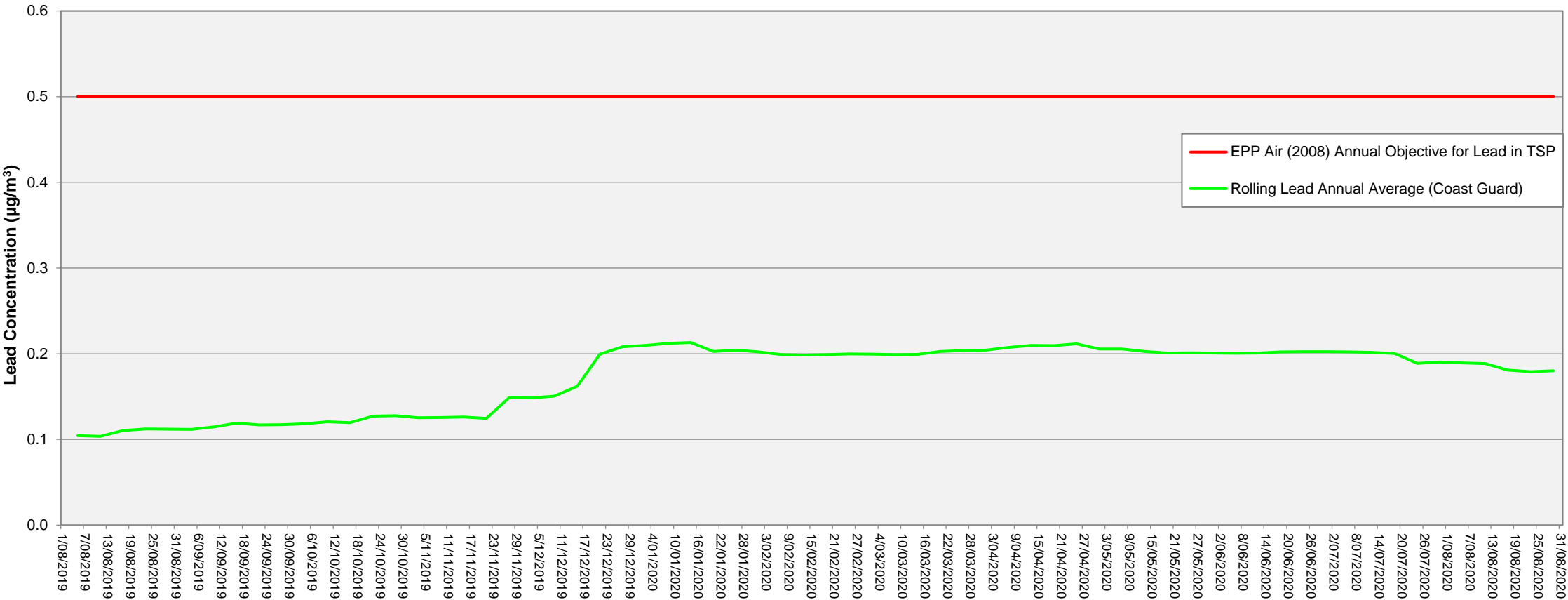
Send your enquiry or feedback to community@townsvilleport.com.au

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



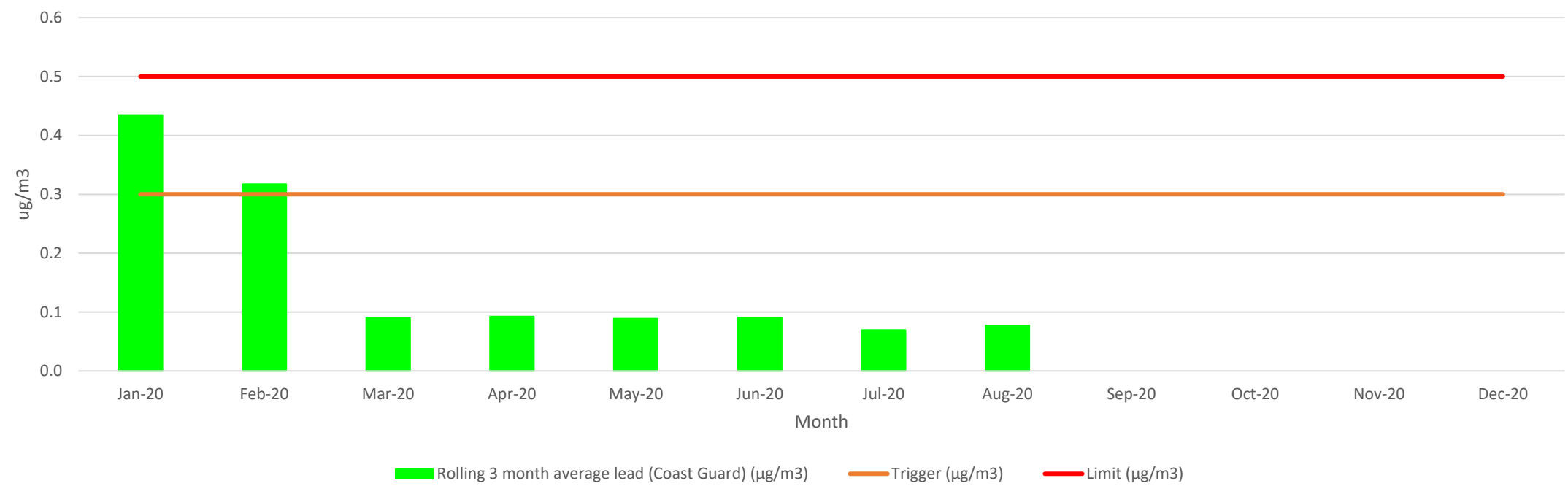
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



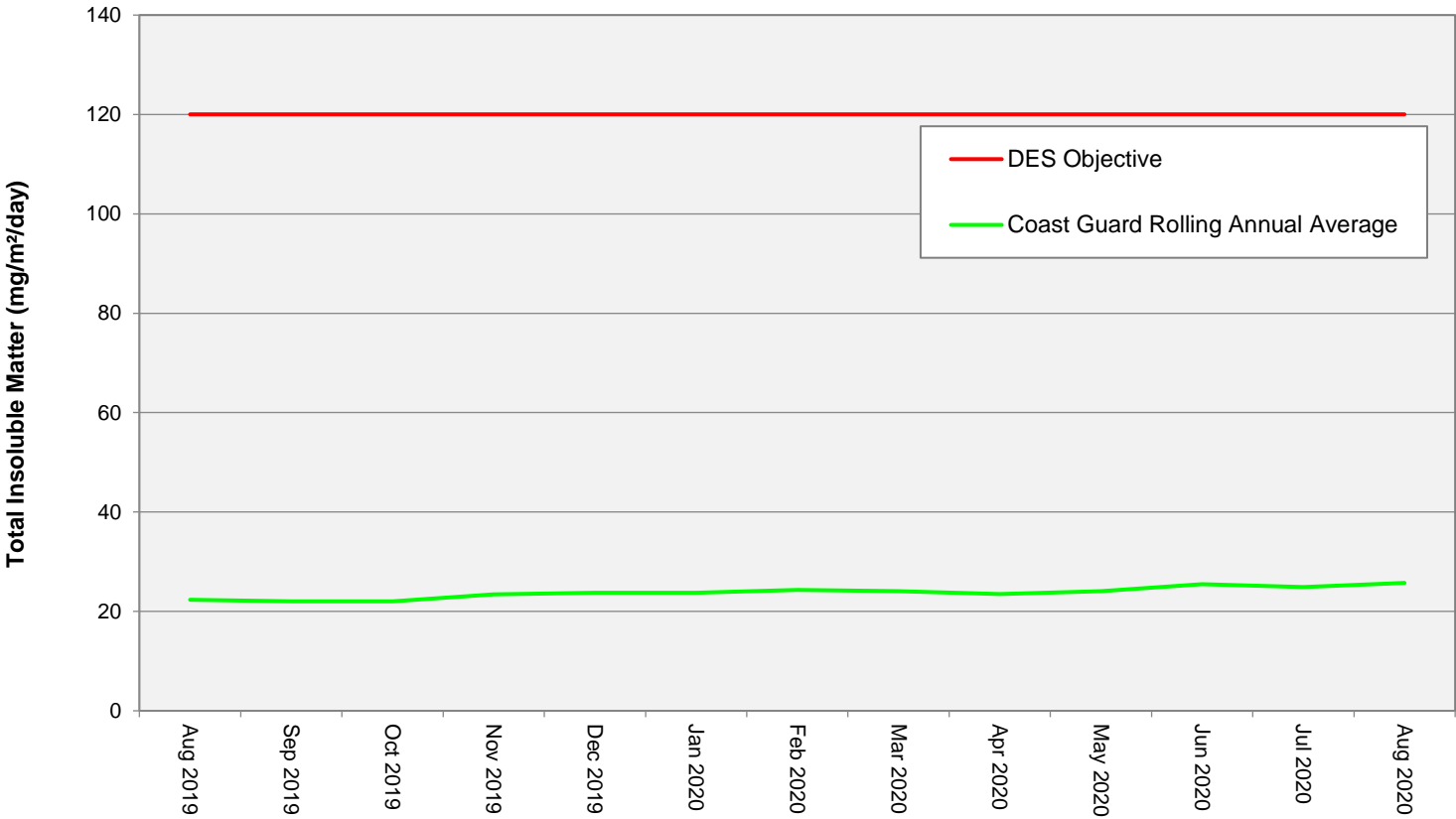
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site
2020



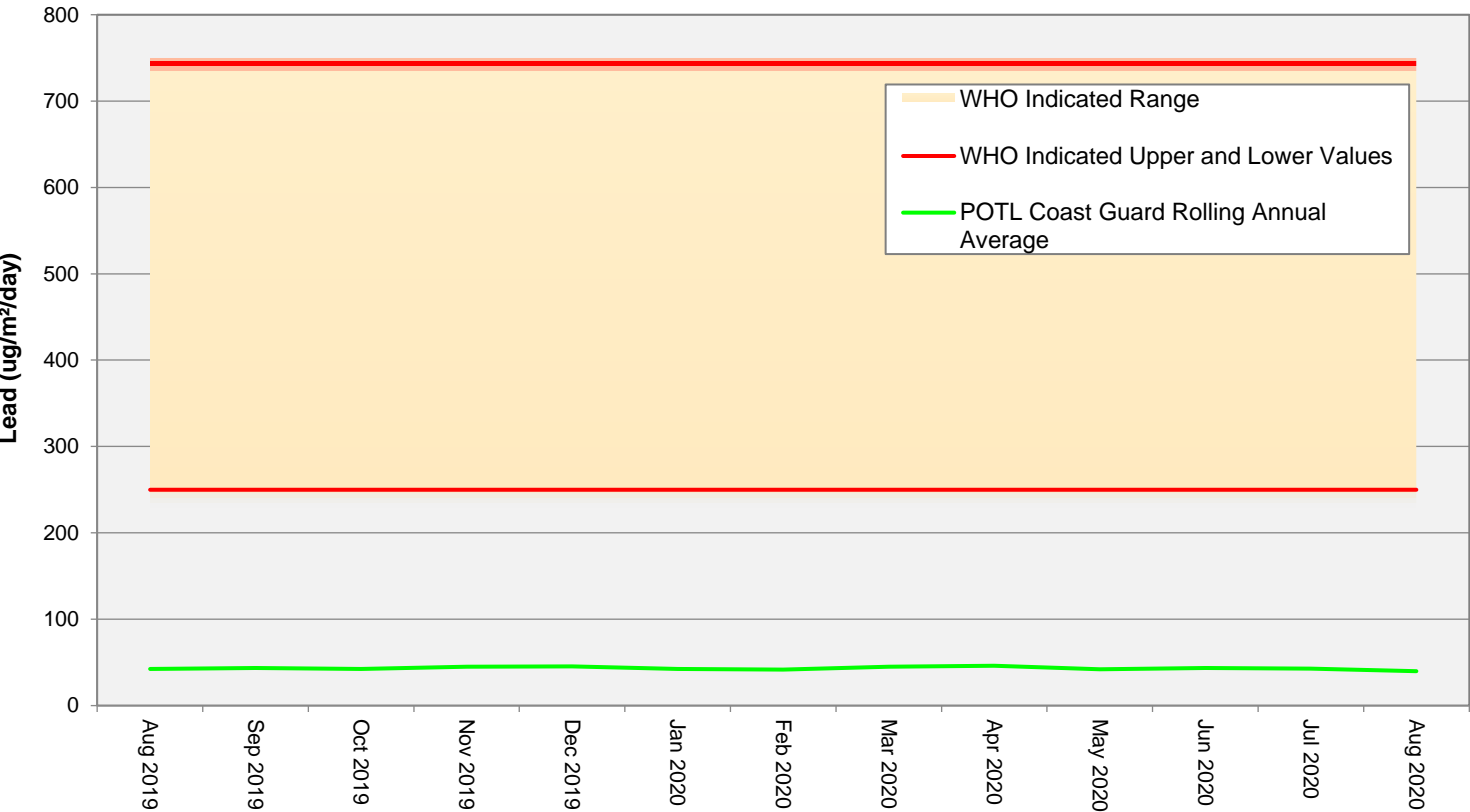
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



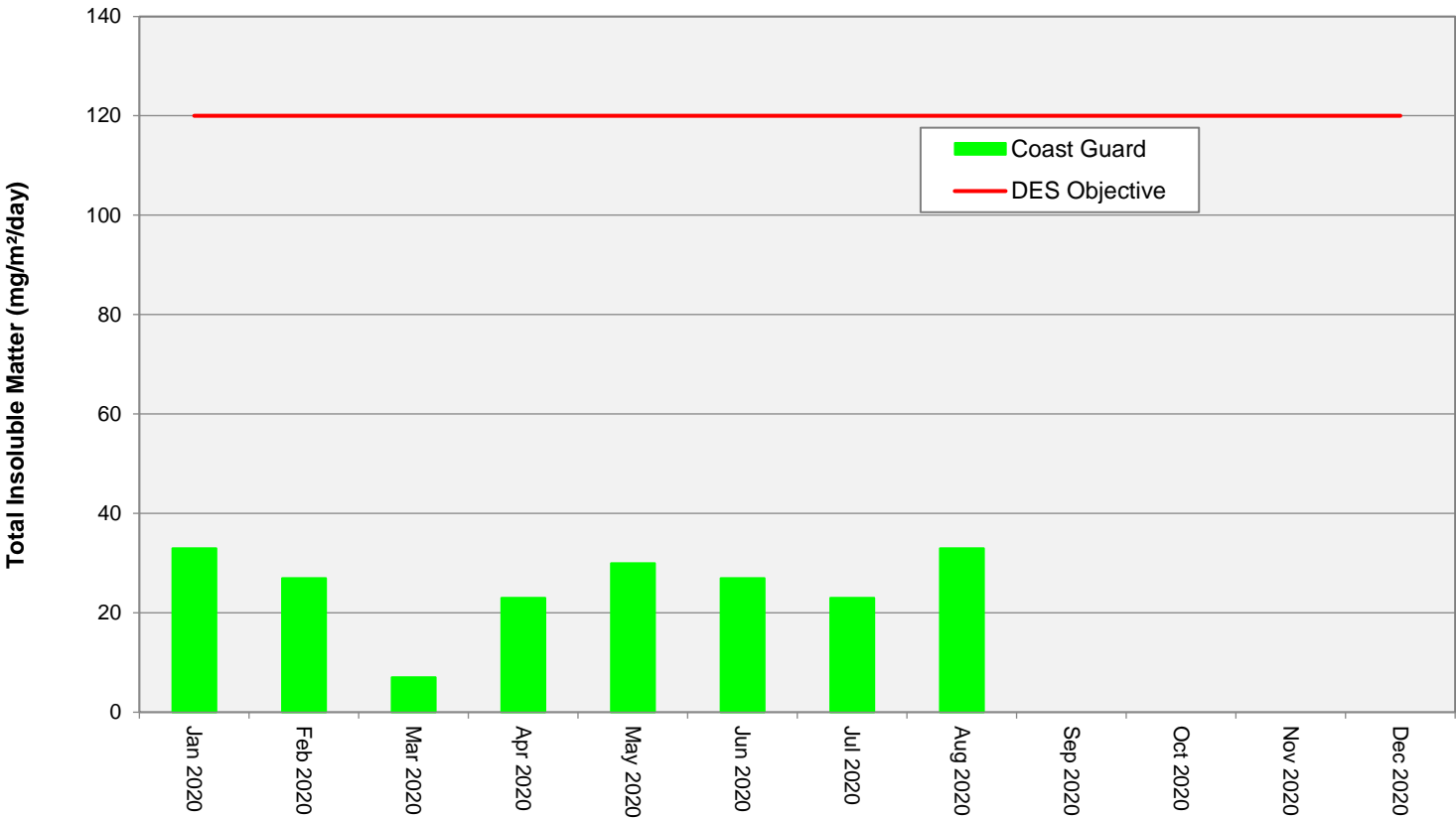
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



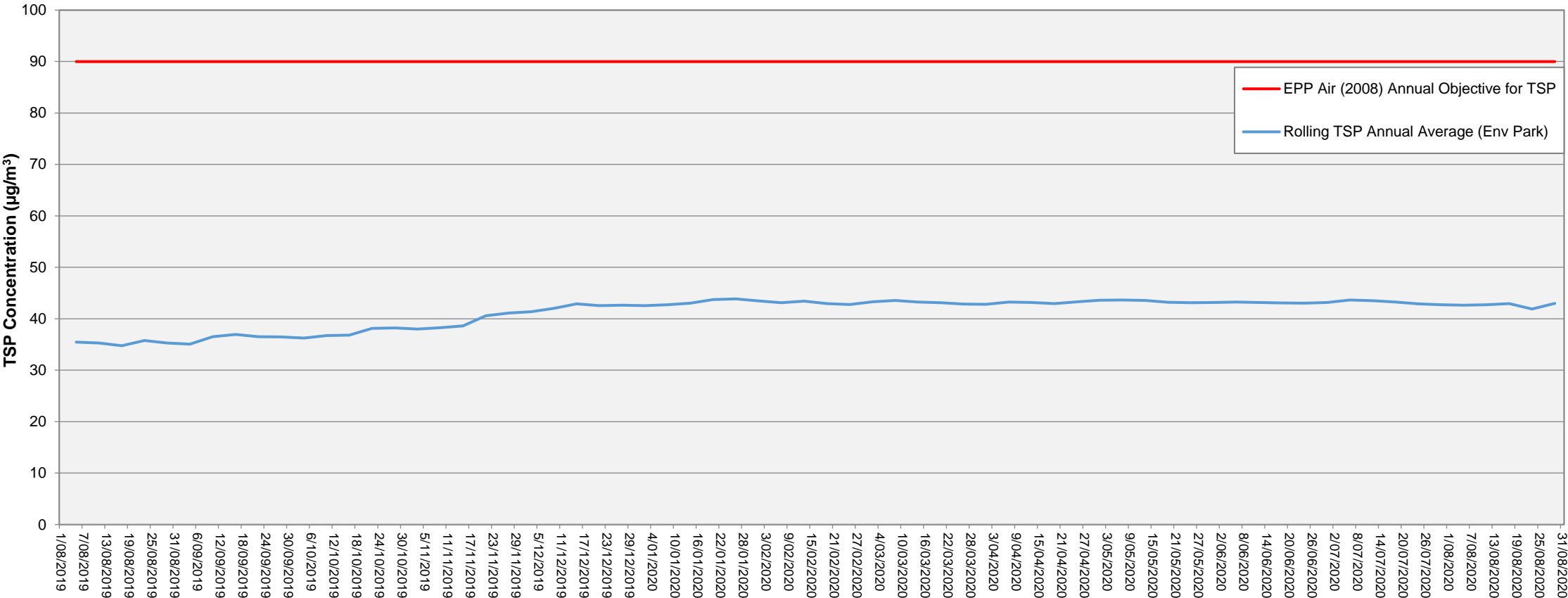
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2020



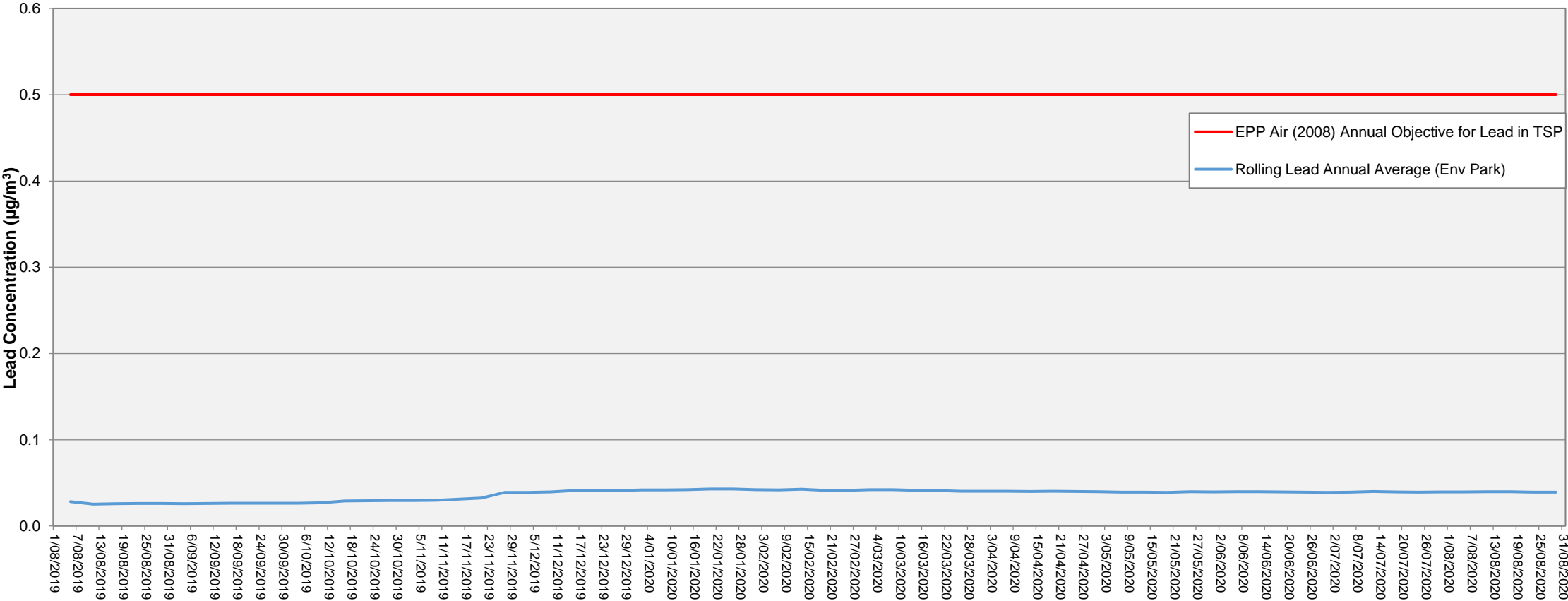
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



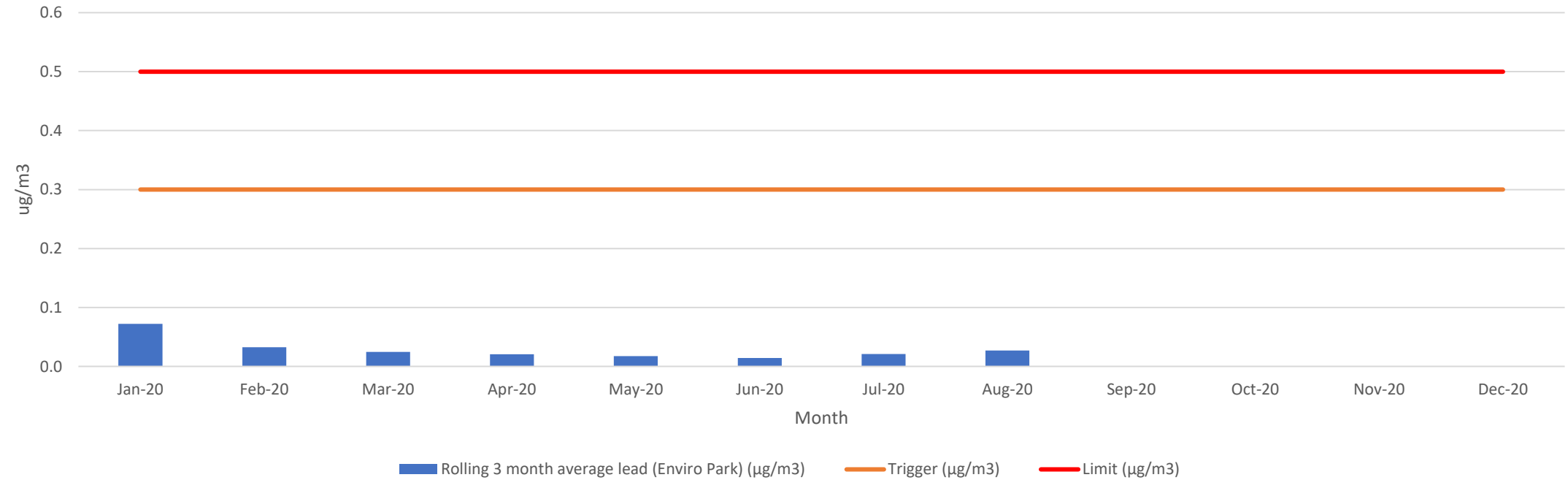
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AUGUST 2019 – AUGUST 2020



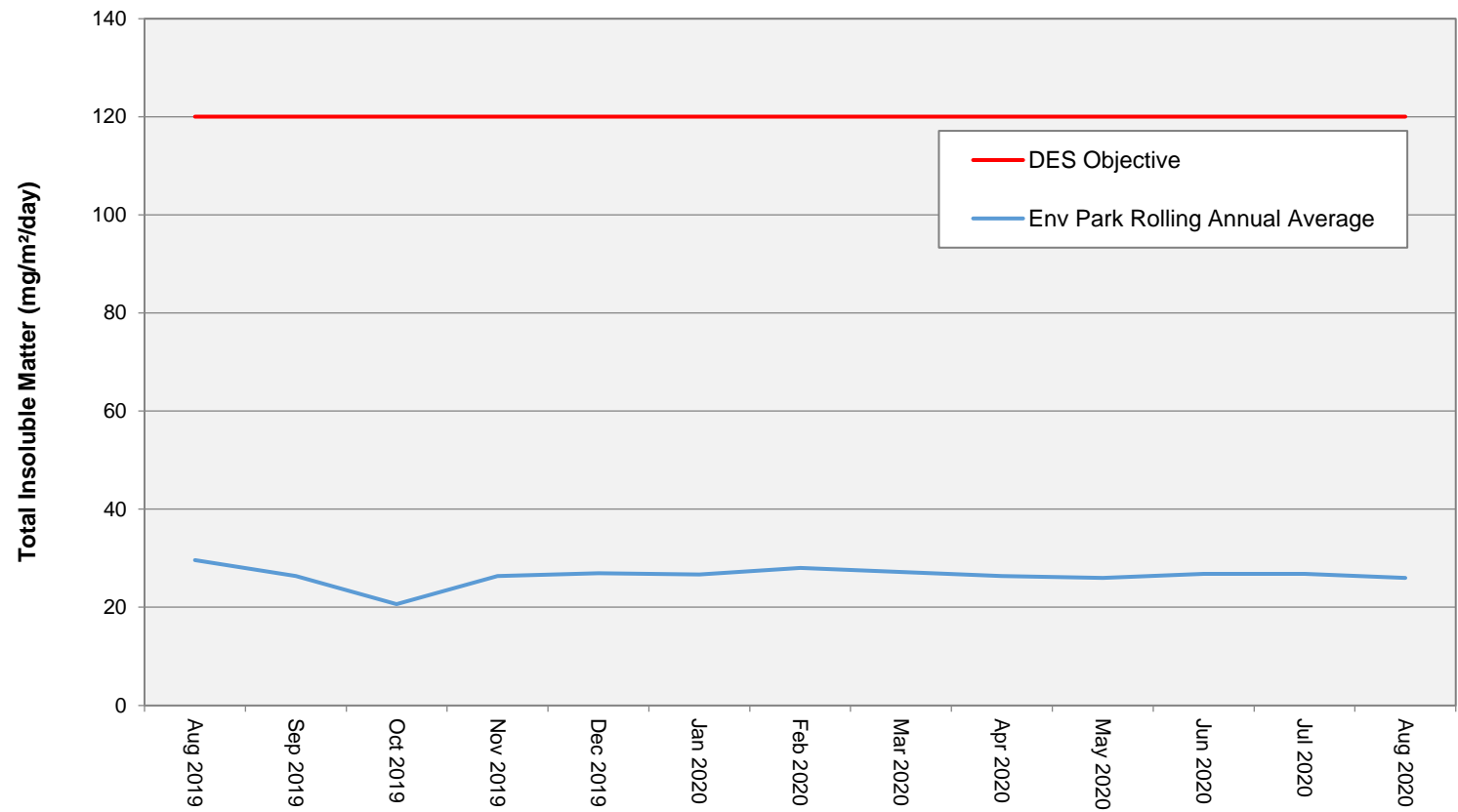
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2020



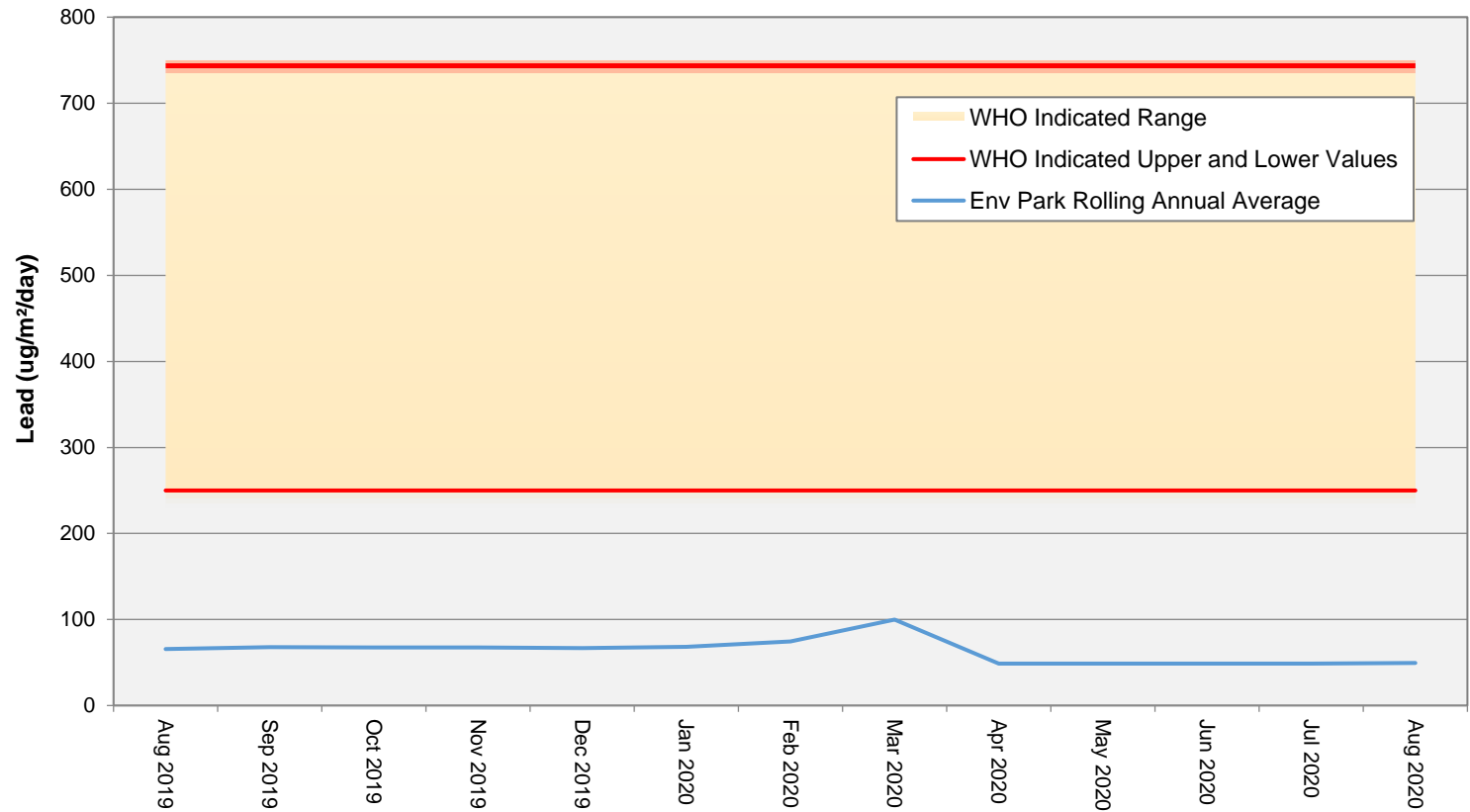
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Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
AUGUST 2019 – AUGUST 2020



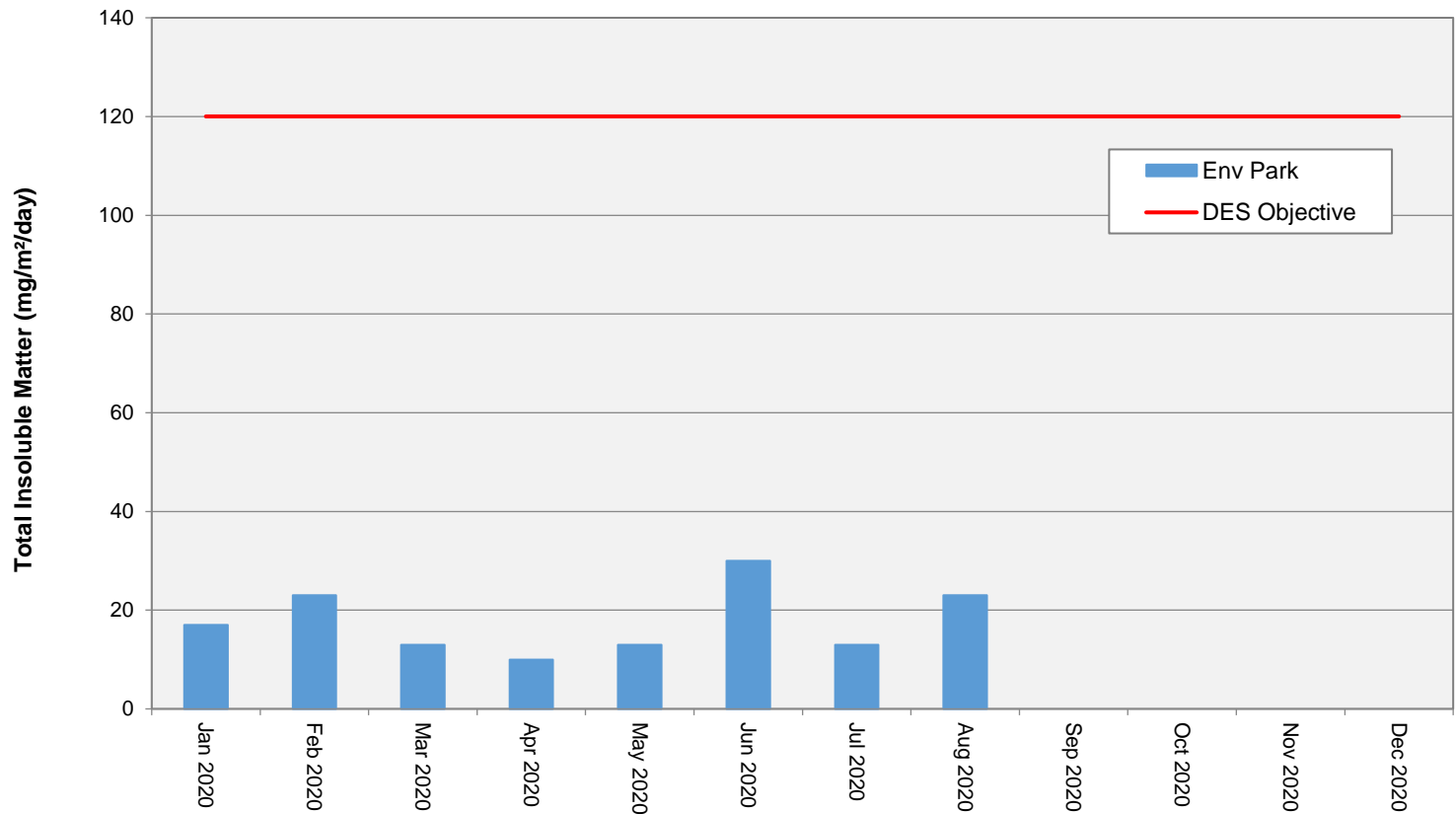
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site
AUGUST 2019 – AUGUST 2020



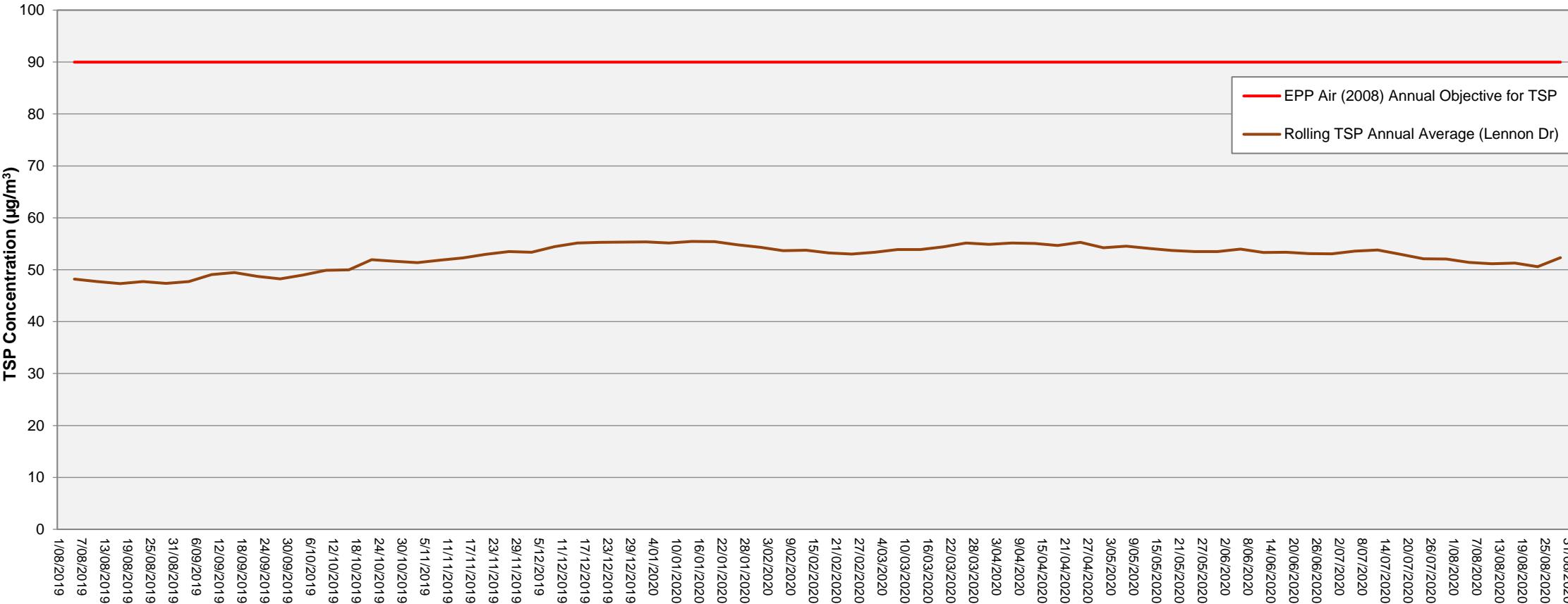
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

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



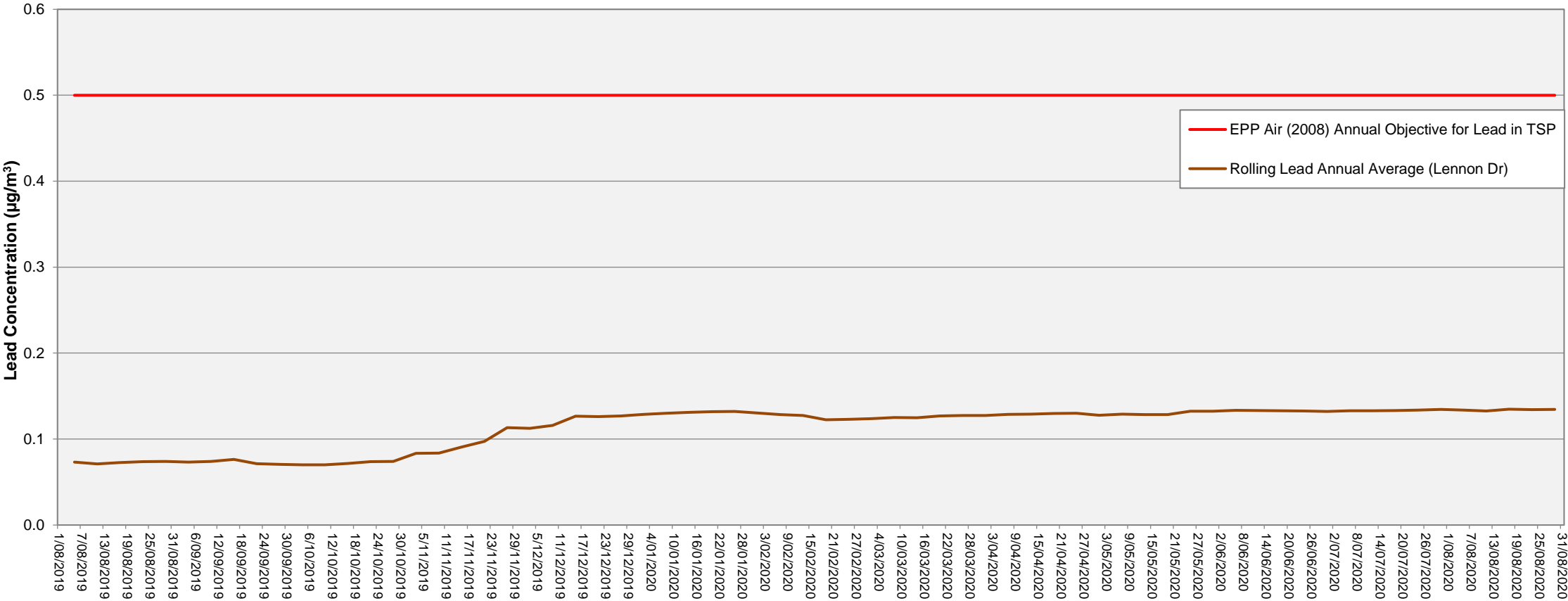
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



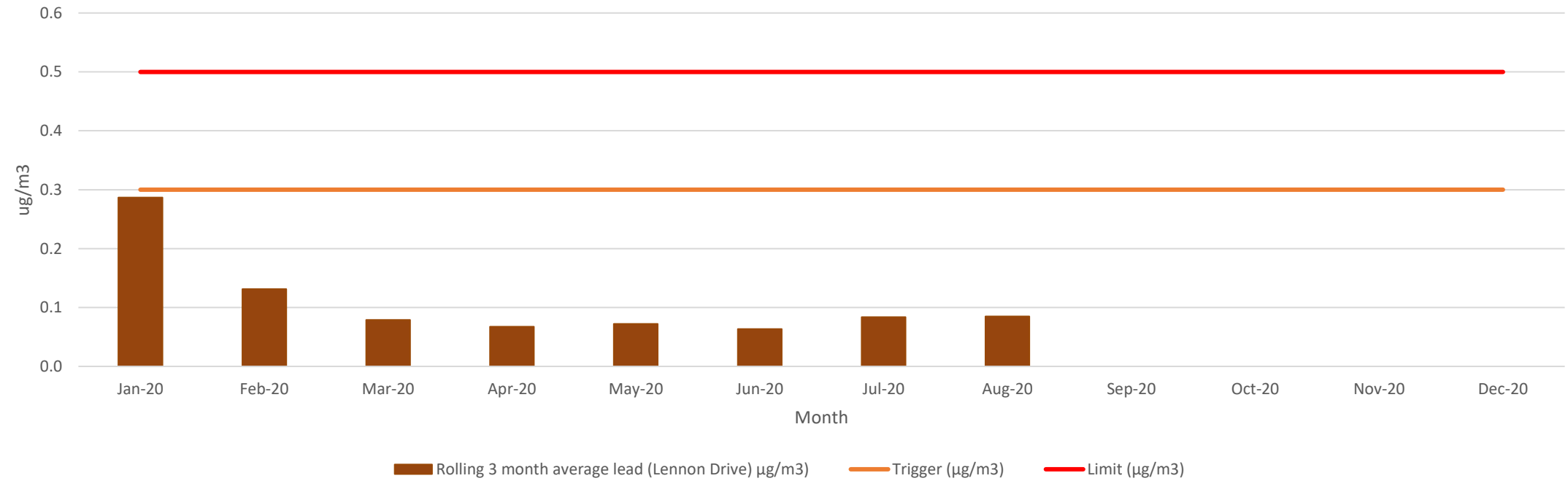
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



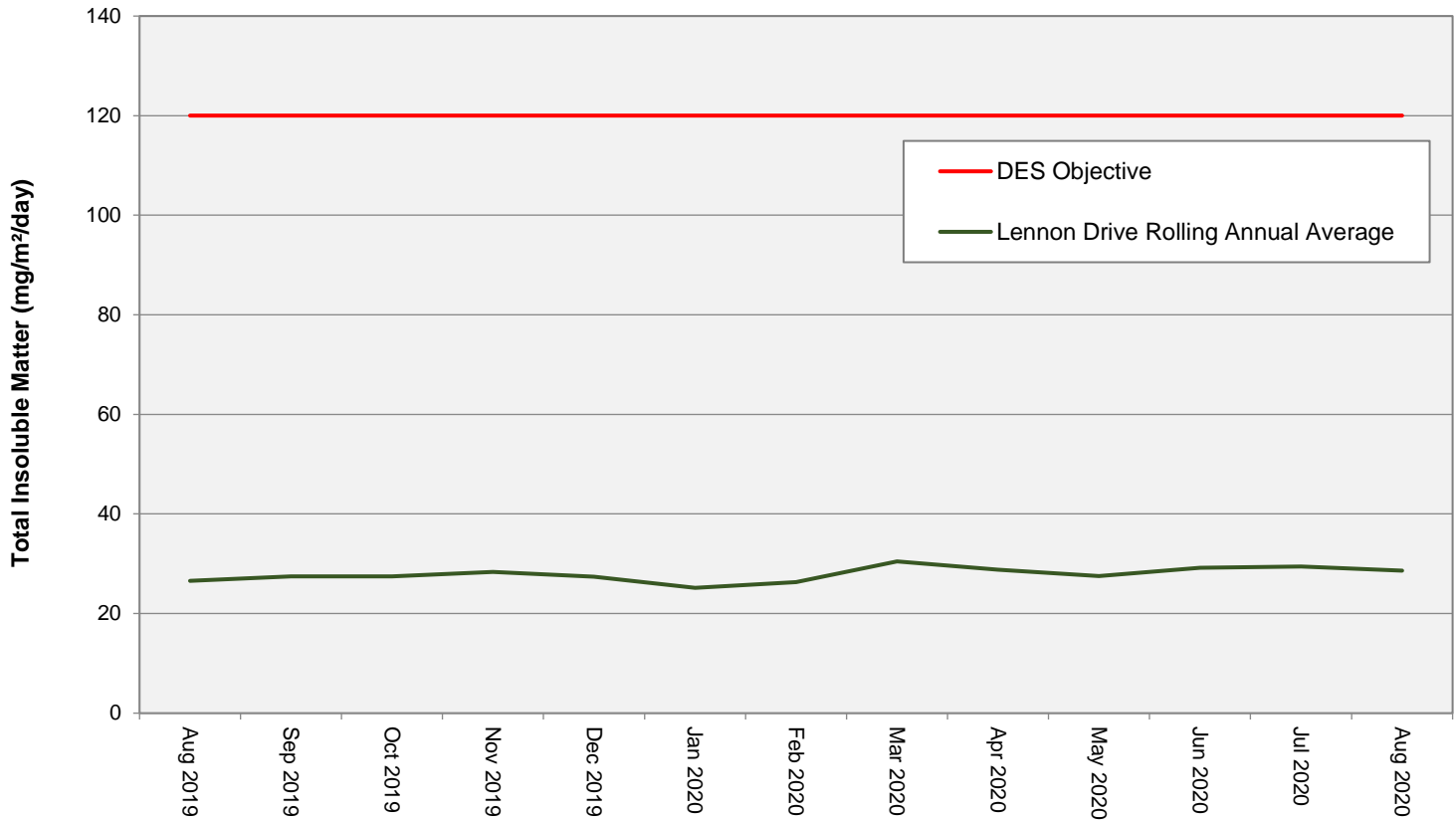
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



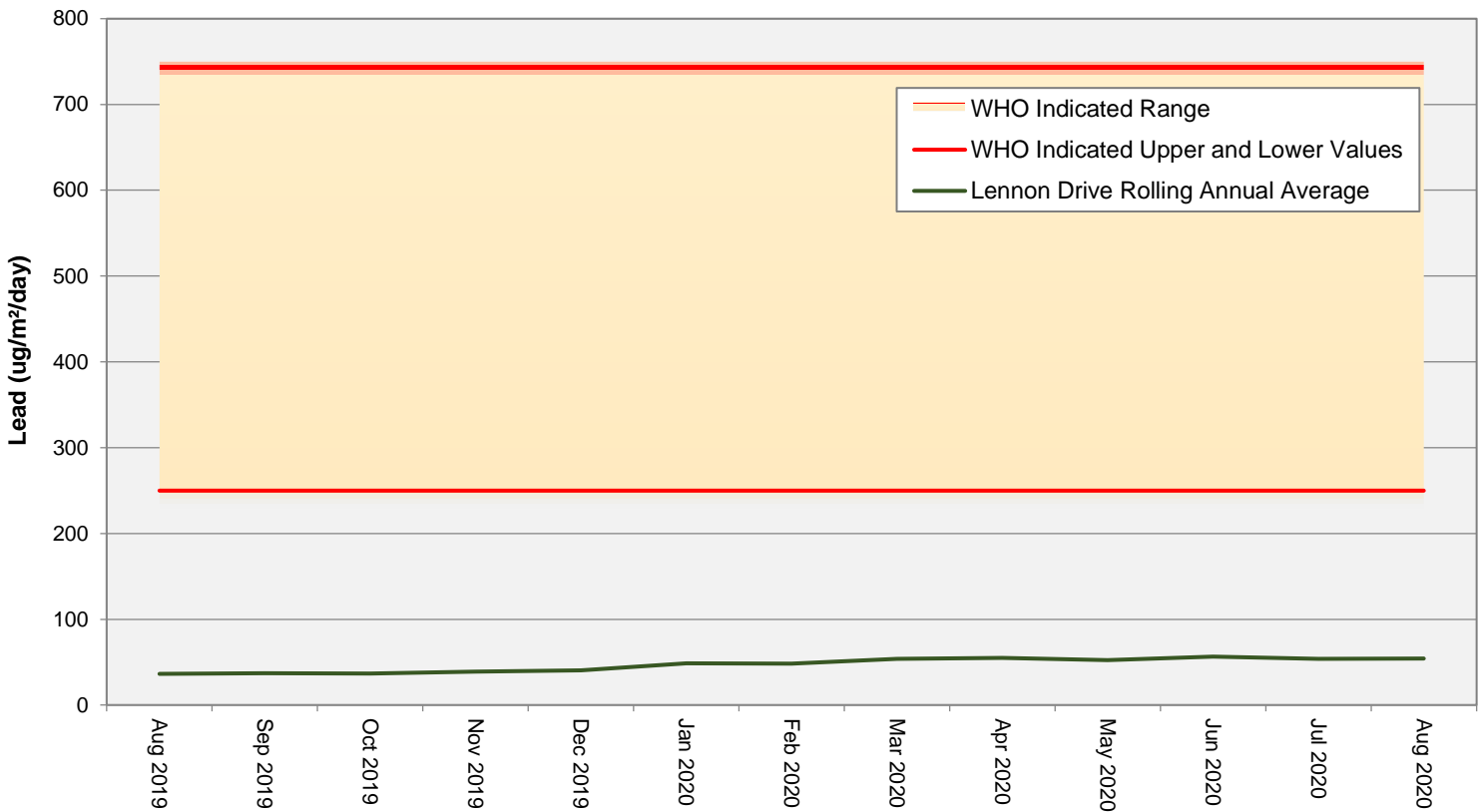
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



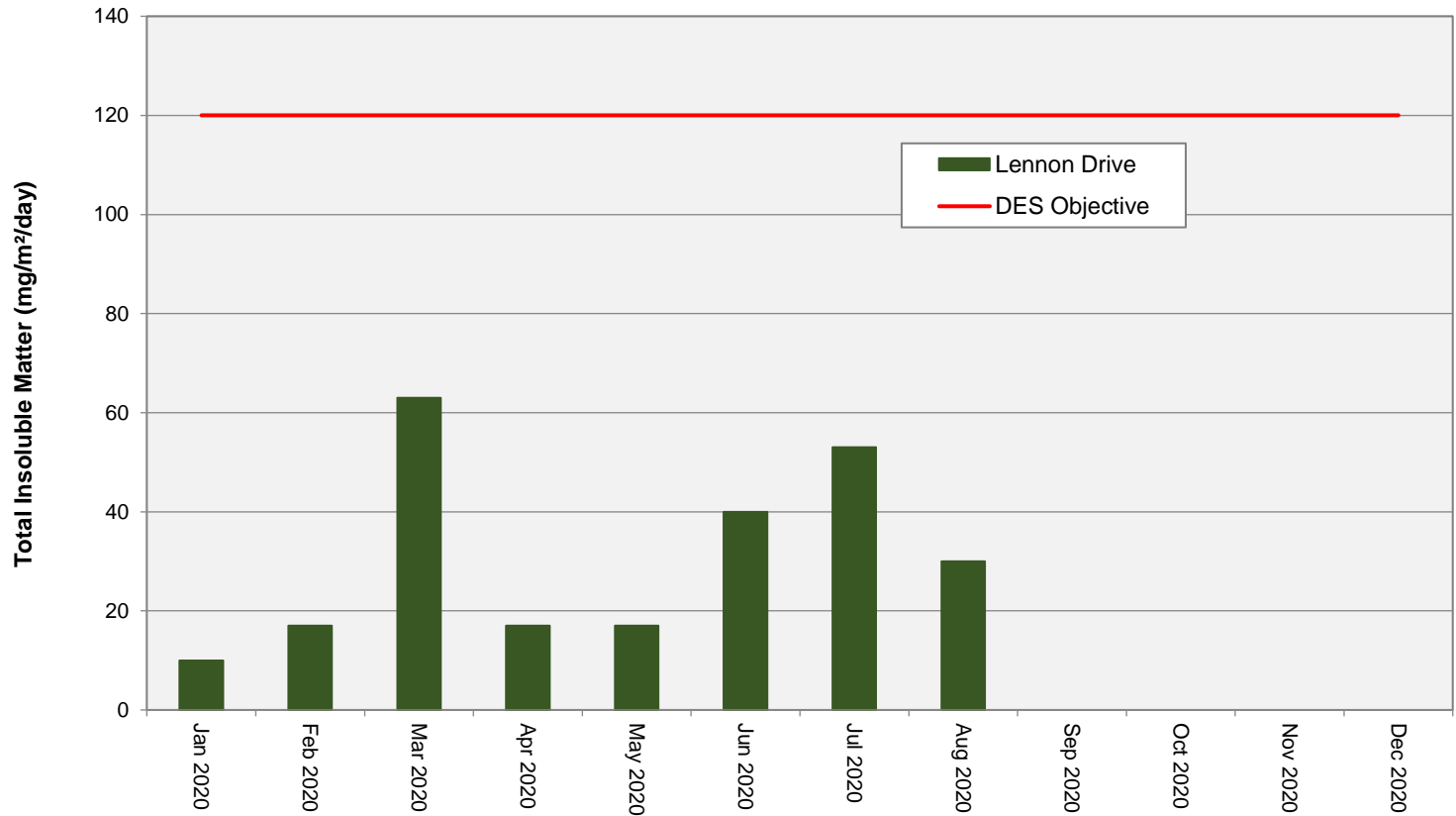
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This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

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 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.