

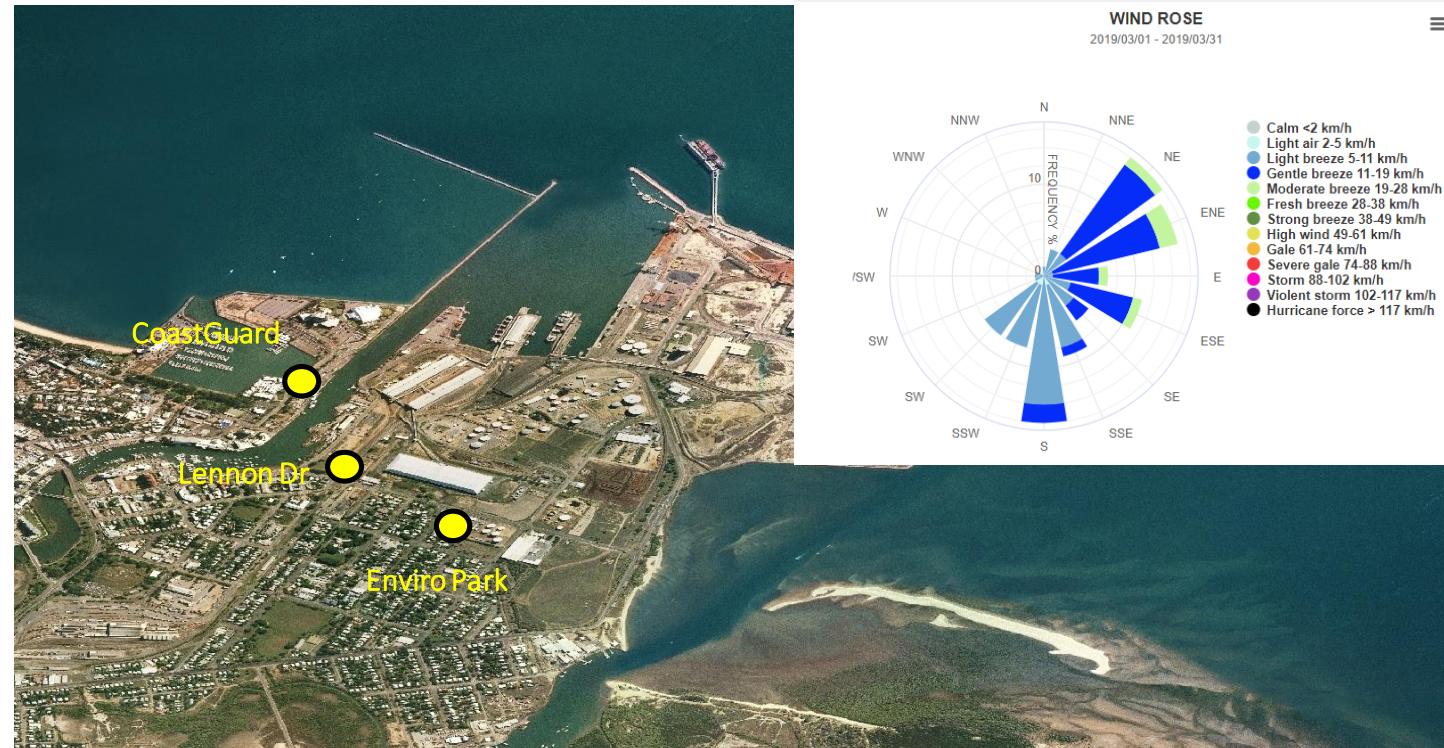
## AIR QUALITY MONITORING IN TOWNSVILLE

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

### Air Quality Monitoring Locations



### 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

# Shipping Movements in March 2019

Date In/Out	Vessel Name	Berths	Cargo	Date In/Out	Vessel Name	Berths	Cargo
1-3	KOTA NEBULA	4	Containers	16-16	TALIA	4	Motor Vehicles
3-5	CSC BRAVE	1	Fuels	16-17	JANESIA ASPHALT VI	4	Bitumen
3-5	GSL KETA	3 NTH	Containers	17-20	IVS TRIVIEW	3 NTH	Zinc Concentrates
5-7	NEPTUN D	1	Fuels	17-19	BOW ASIA	1	Sulphuric Acid
6-6	AZAMARA QUEST	10	Cruise	17-19	GLOBE EXPLORER	9	Sugar
6-7	YANGTZE HARMONY	4	Fodder, Cattle	18-18	SOFRANA TOURVILLE	3 STH	Containers
8-8	GLOUCESTER EXPRESS	4	Fodder, Cattle	18-19	GREYMAN EXPRESS	4	Fodder, Cattle
8-8	GALAXY LEADER	9	Motor Vehicles	18-19	RHL AQUA	3 STH	Containers
8-10	GOLDEN YOSA	4	Sulphuric Acid	19-20	HMAS CHOULES	10	ADF
8-9	BBC MONT BLANC	8	Fertilizer	20-21	THERESA MICRONESIA	9	Molasses
9-9	AMSTERDAM	10	Cruise	20-25	HMAS CHOULES	10	ADF
9-15	INTERLINK MOBILITY	10	Zinc Concentrates	20-22	KYOWA ORCHID	3 NTH	Tyres
10-11	STAR RIVER	1	Bitumen	21-21	GALLOWAY EXPRESS	4	NIL
10-12	POLA ANISIA	9	Sugar	22-23	ROSEANNE	1	Sulphuric Acid
11-11	GUDALI EXPRESS	4	Fodder, Cattle	22-23	KOTA NAGA	4	Containers
11-12	BISON EXPRESS	3 NTH	Fodder, Cattle	22-23	TUG HARMONY	9	Nil Cargo
12-12	GRAND DOLPHIN	9	Motor Vehicles	24-25	ALPINE MADELEINE	1	Fuels
12-12	HYPERION LEADER	4	Motor Vehicles	26-28	DAREEN	10	Nil Cargo
13-15	GLORY ATLANTIC	4	Cement	26-27	CORONADO BAY	3 STH	Containers
14-15	INTERLINK MOBILITY	10	Scrap	27-28	AMBER ARROW	4	Motor Vehicles
14-14	THORCO DELTA	8	Nil Cargo	30-31	YANGTZE HARMONY	3 NTH	Fodder, Cattle
14-14	ST.PAULI	1	Fuels	30-01	GLORY ATLANTIC	4	Cement
14-15	OCEAN UTE	3	Fodder, Cattle				
14-15	WALRUS ACE	9	General Cargo				
16-16	VIKING ORION	10	Cruise				



## Port of Townsville - Overview

First established in 1864, the Port of Townsville is operates eight berths handled more than \$8 billion in trade during the 2016/2017 financial year; servicing more than 136 ports around the globe. 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

Motor vehicles, shipping containers (general cargo), cement, sulphuric acid, fertiliser, copper, nickel, zinc, copper anode, petroleum products, sulphur, containers, tyres.

### Exports

Sugar, timber, fertiliser, shipping containers (general cargo) cattle, refrigerated meat, magnetite, copper, lead, zinc, zinc ferrites, zinc oxide, silver, molasses, sand, gravel, coke, project cargo.



## 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

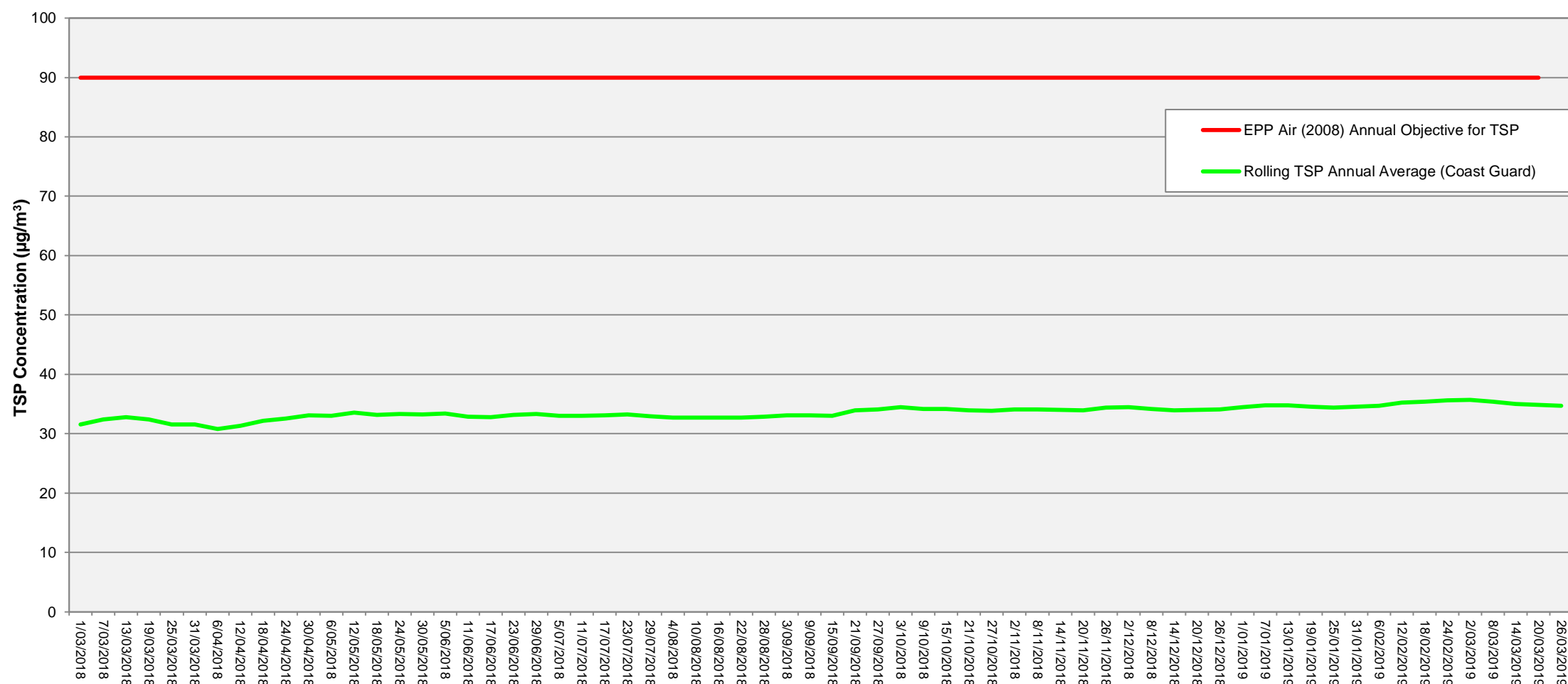
Phone 07 47 811 500 and asked to be added to the list.

## Ask a Question / Provide Feedback

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

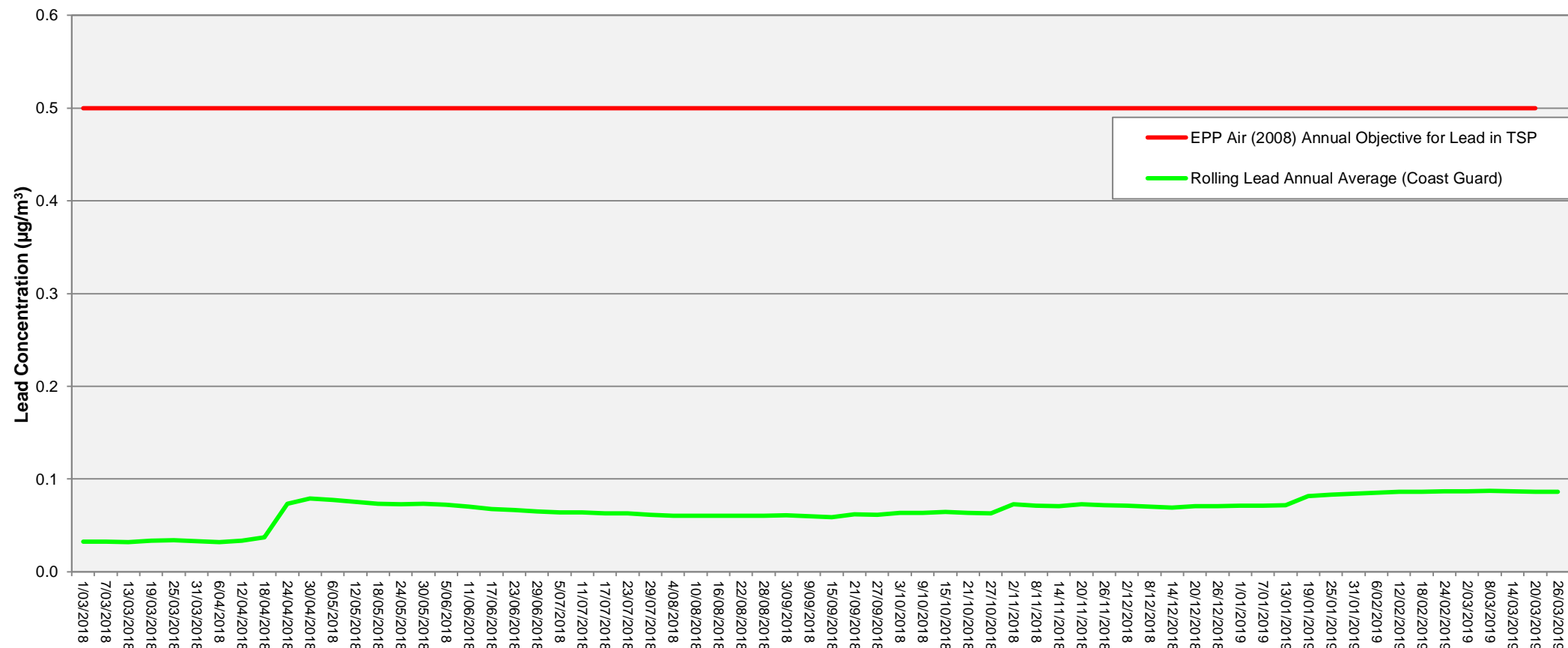


## Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site MARCH 2018 – MARCH 2019



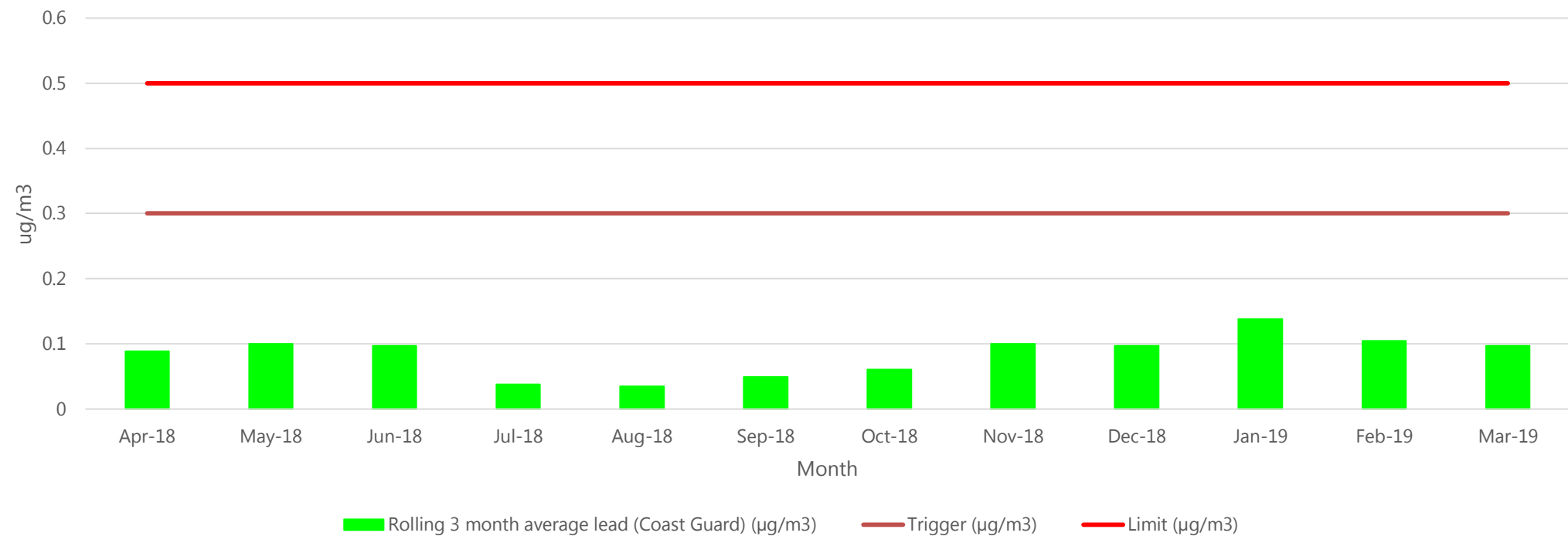
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site MARCH 2018 – MARCH 2019



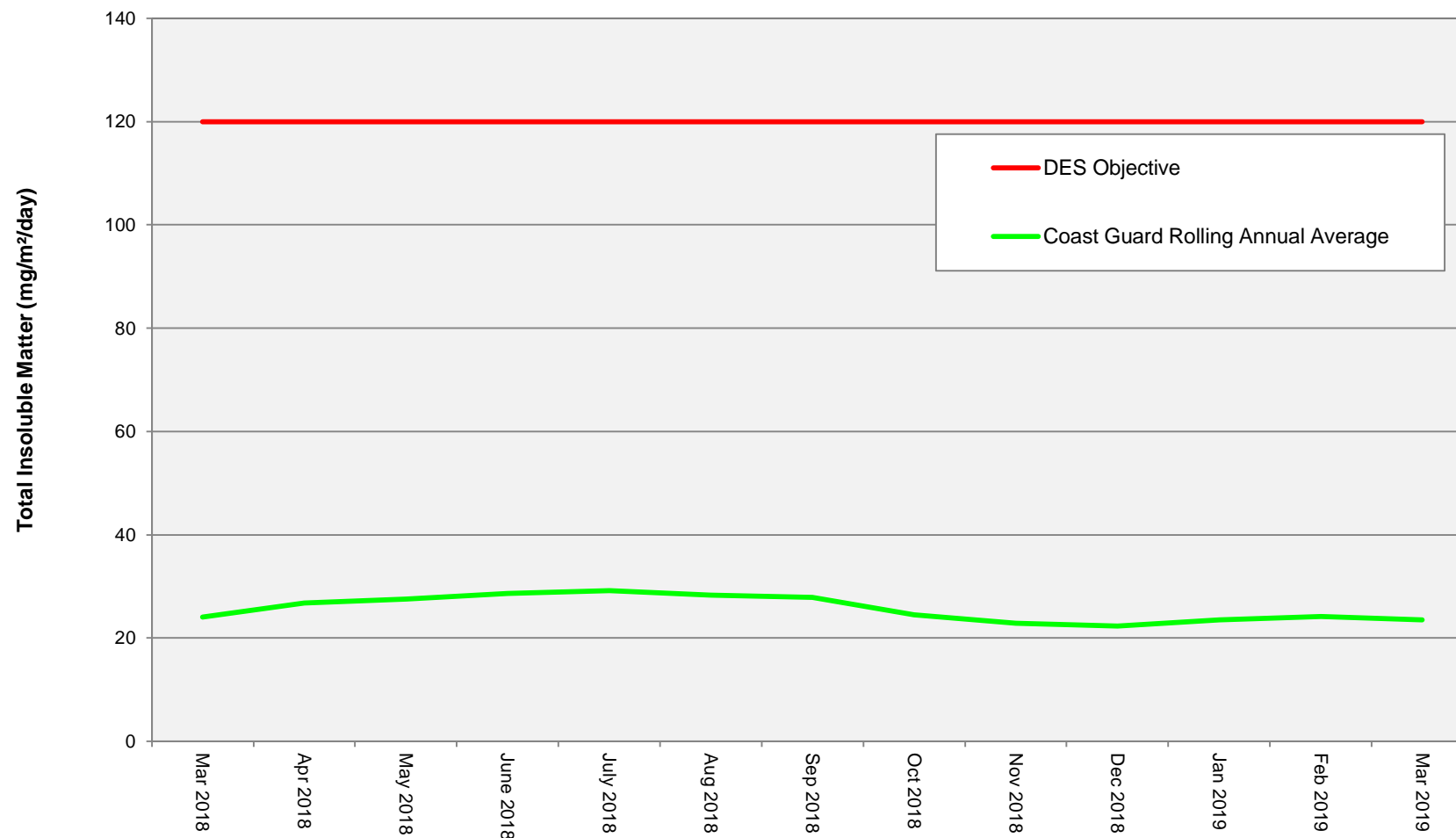
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site APRIL 2018 – MARCH 2019



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

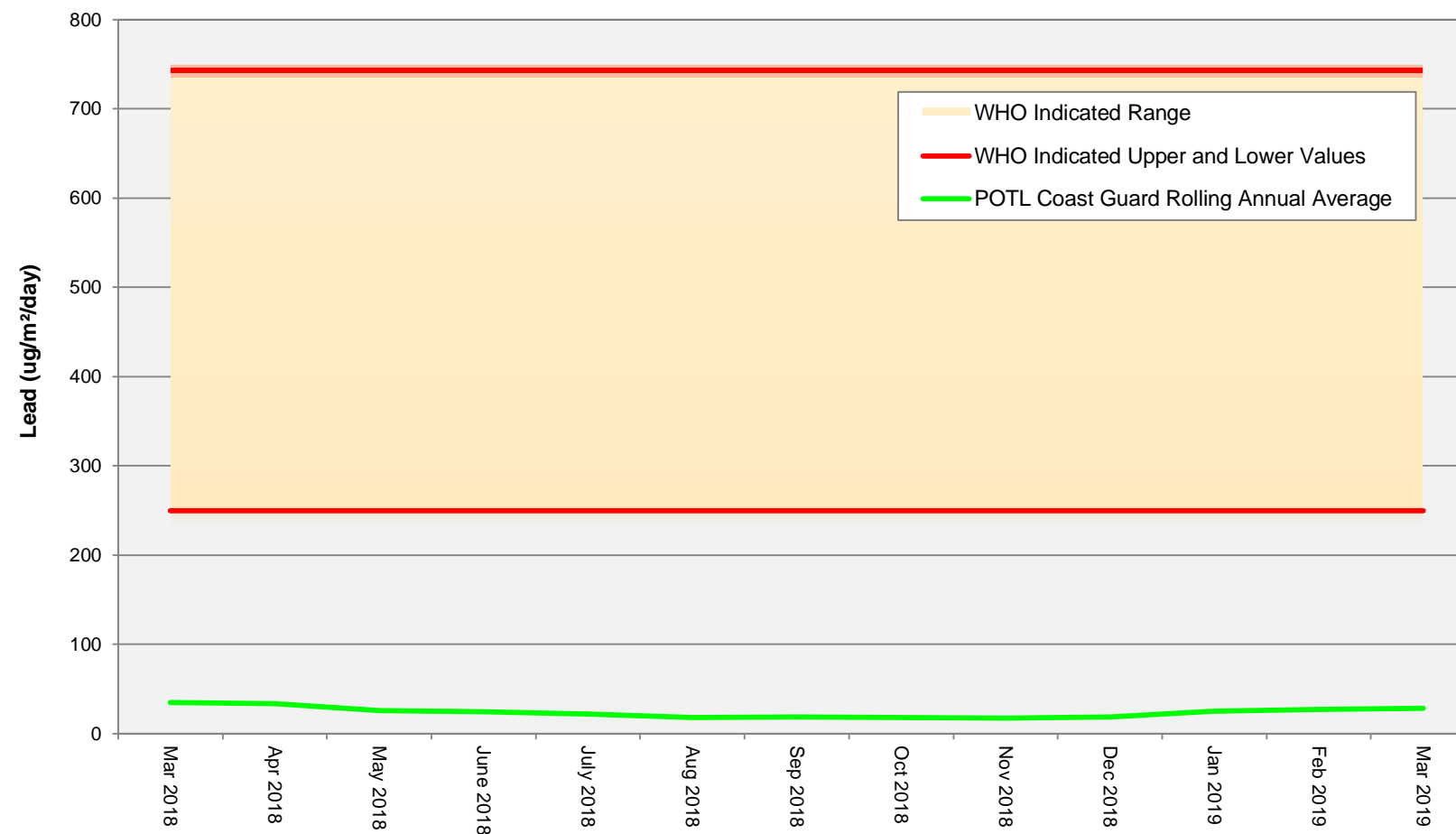
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site MARCH 2018 – MARCH 2019



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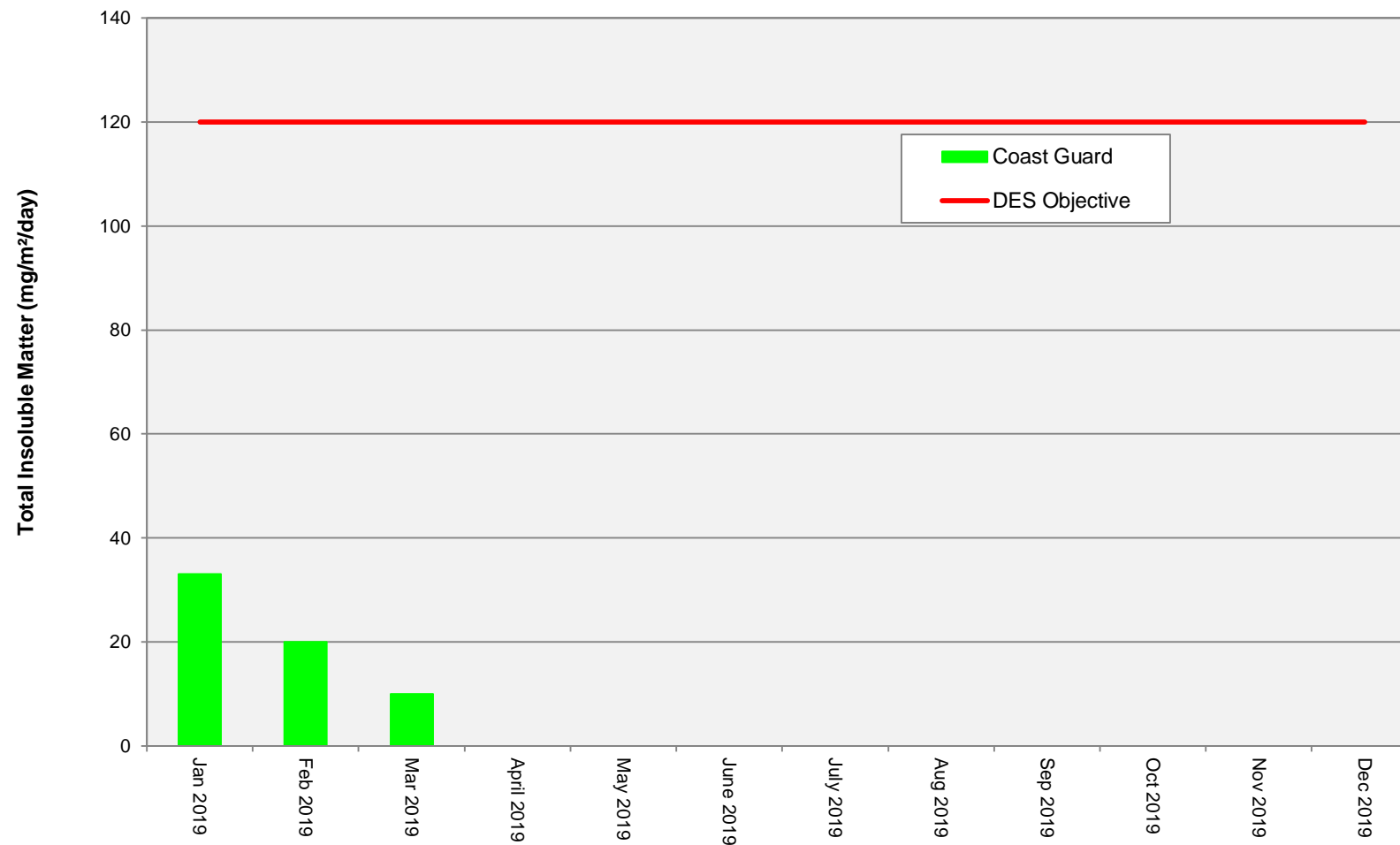


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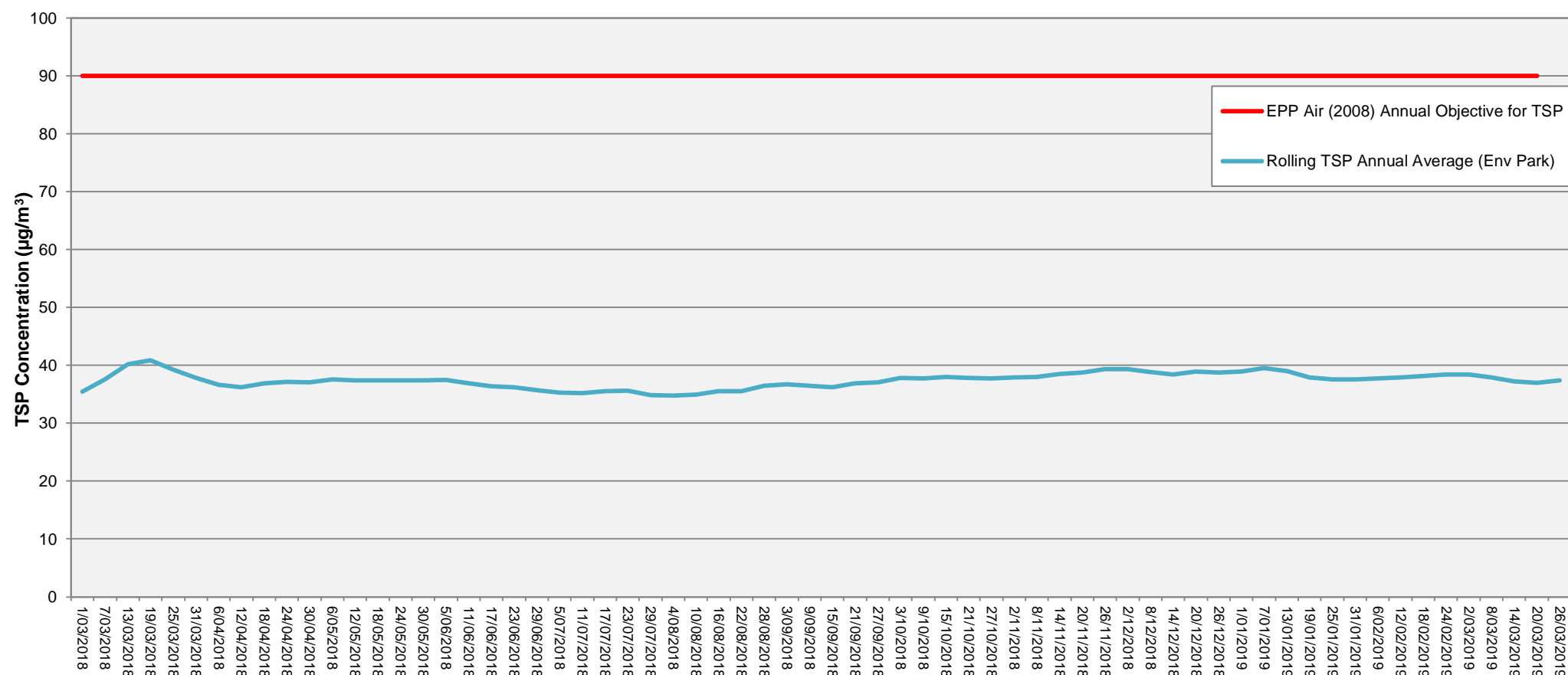
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## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2019



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 MARCH 2018 – MARCH 2019

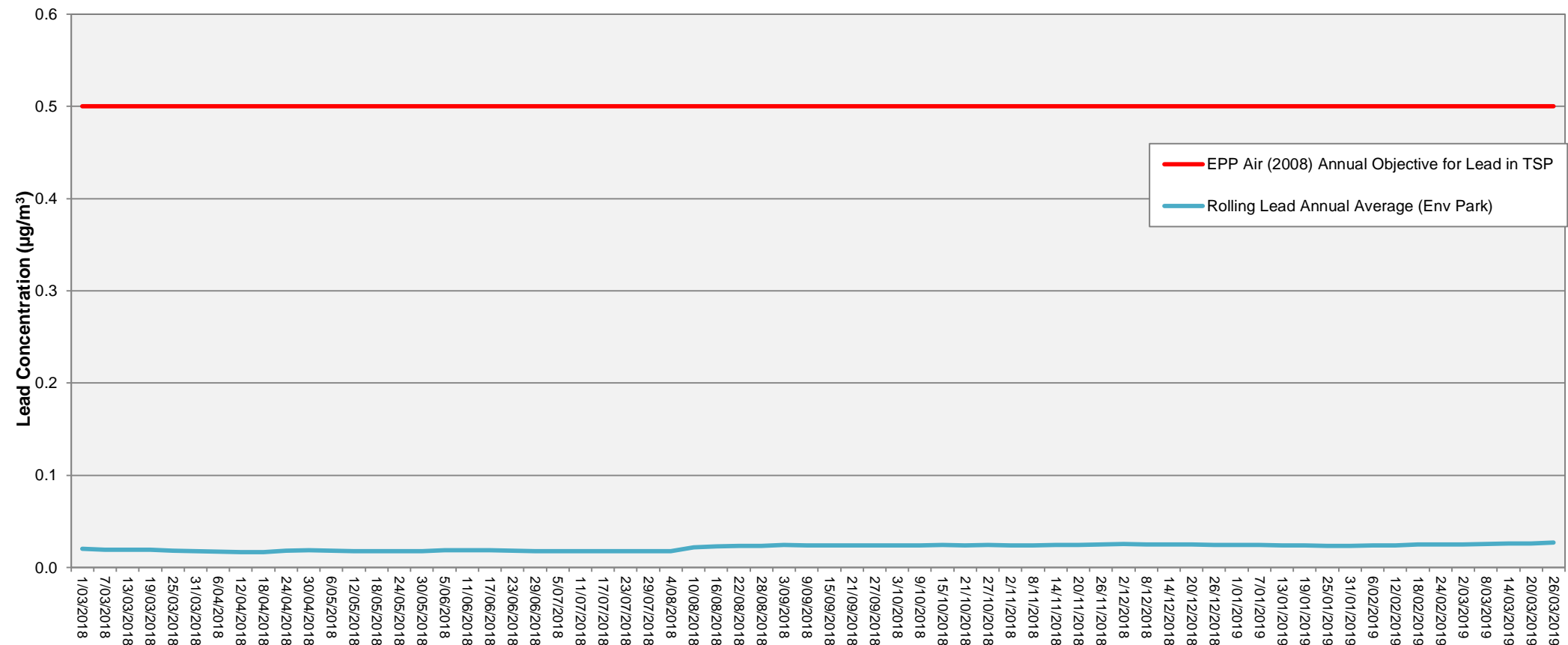


Note:

TSP Concentration units = micrograms per cubic metre per 24 hour period

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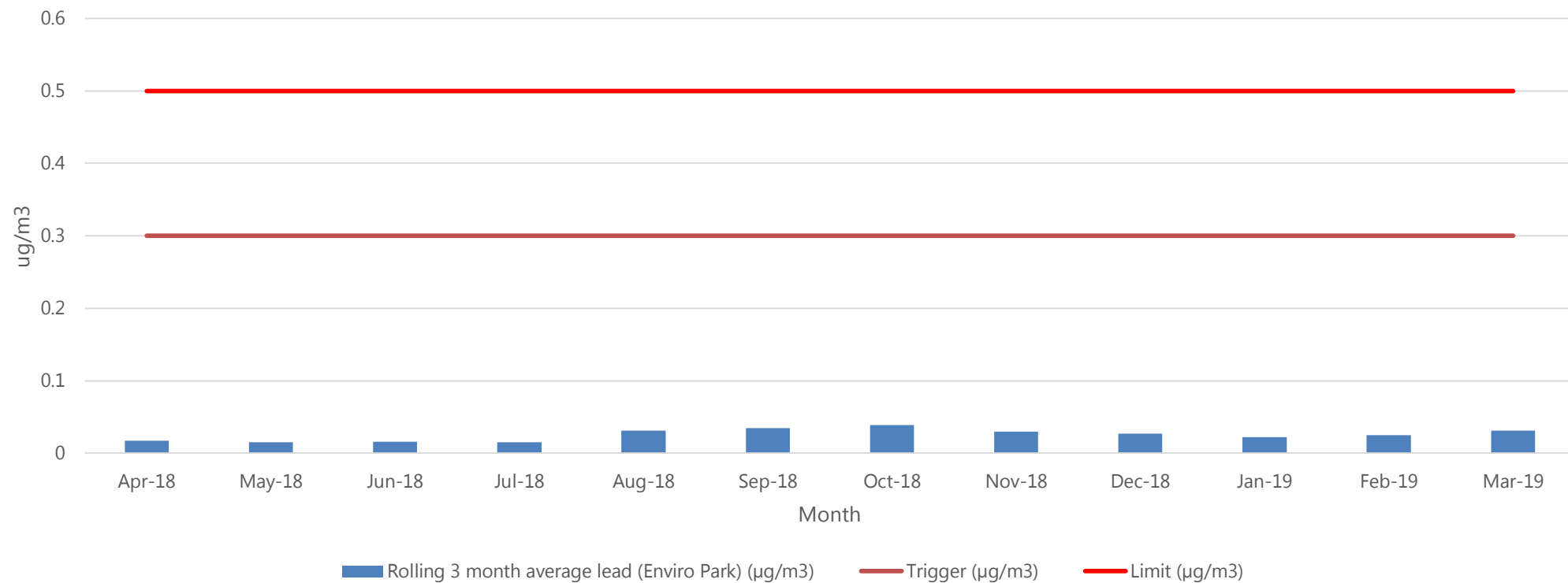
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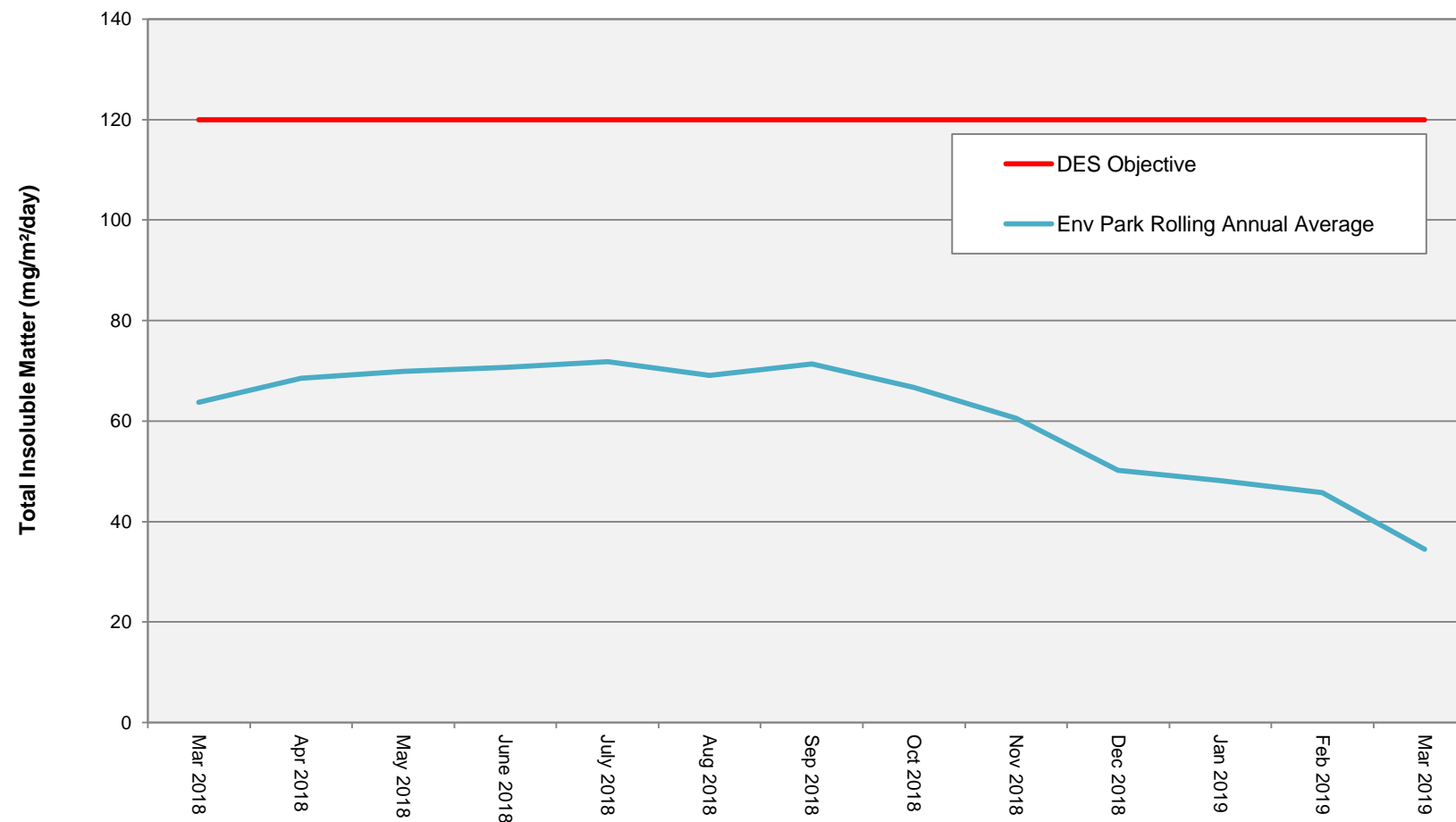


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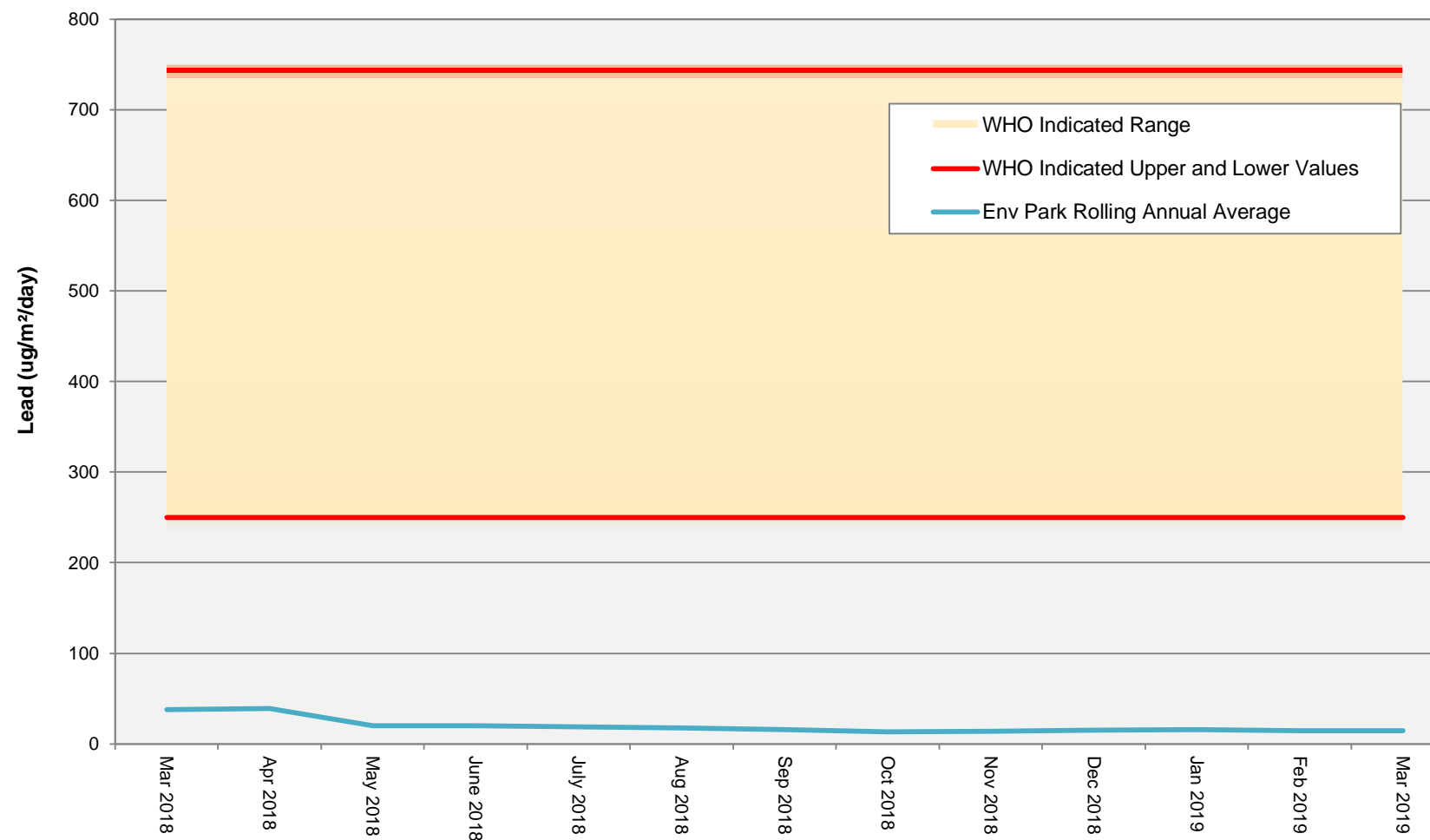
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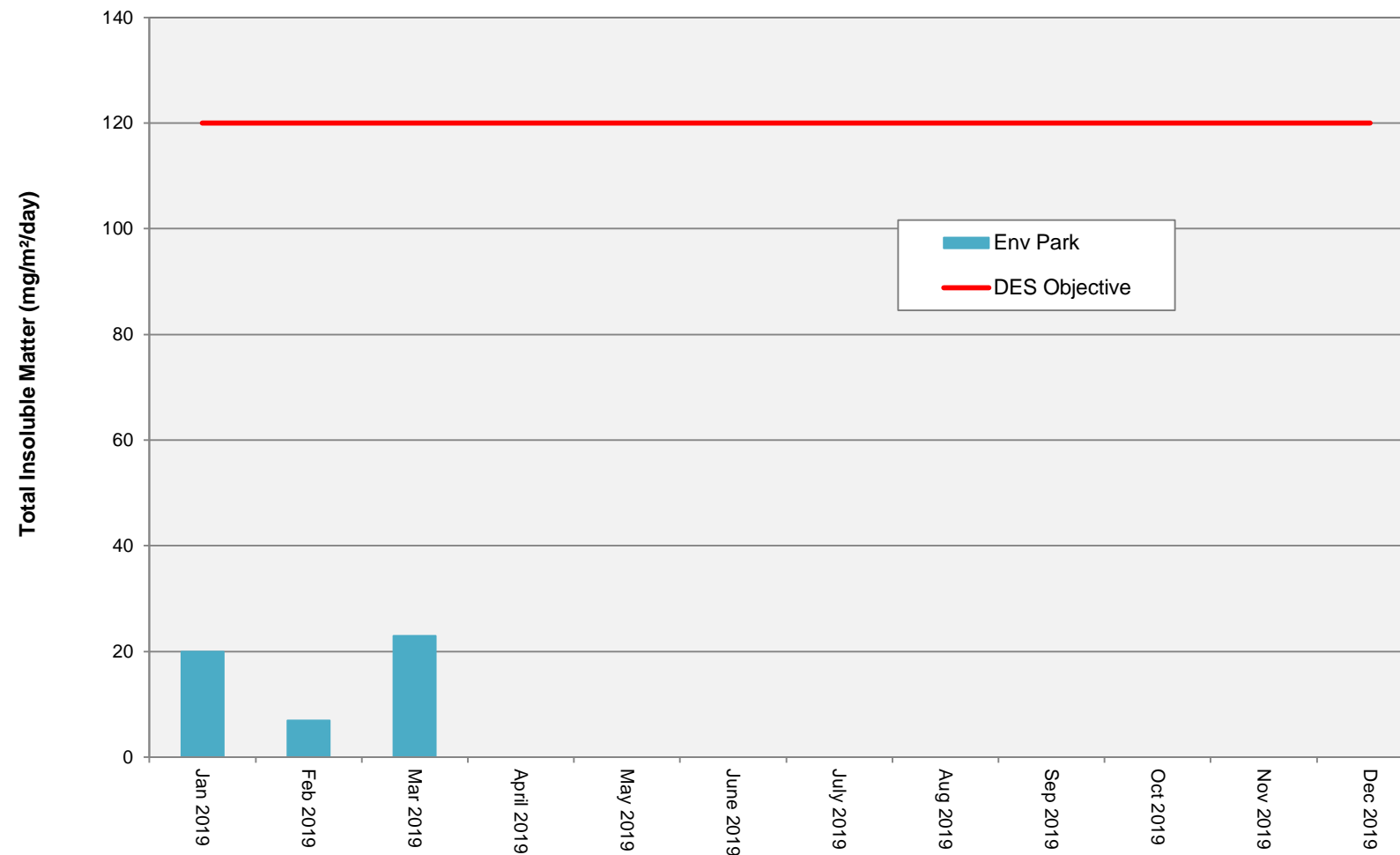
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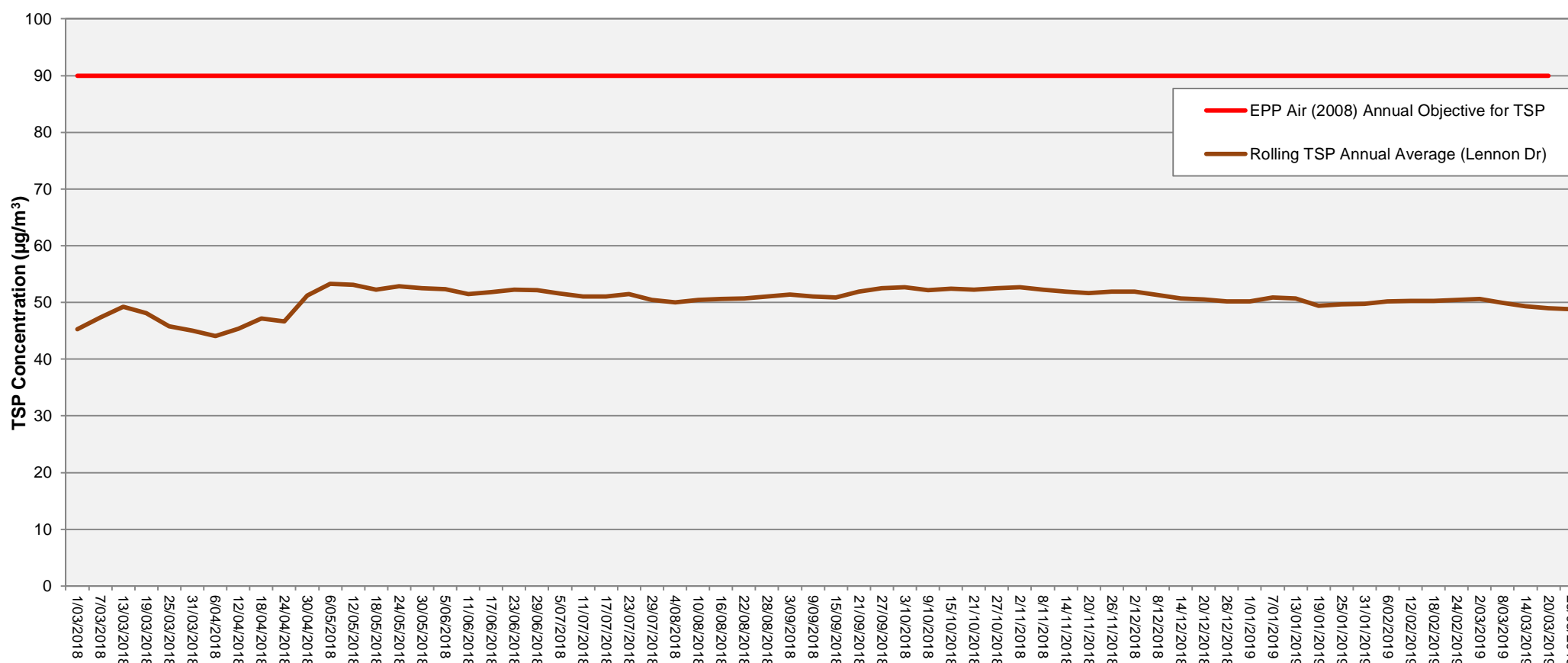
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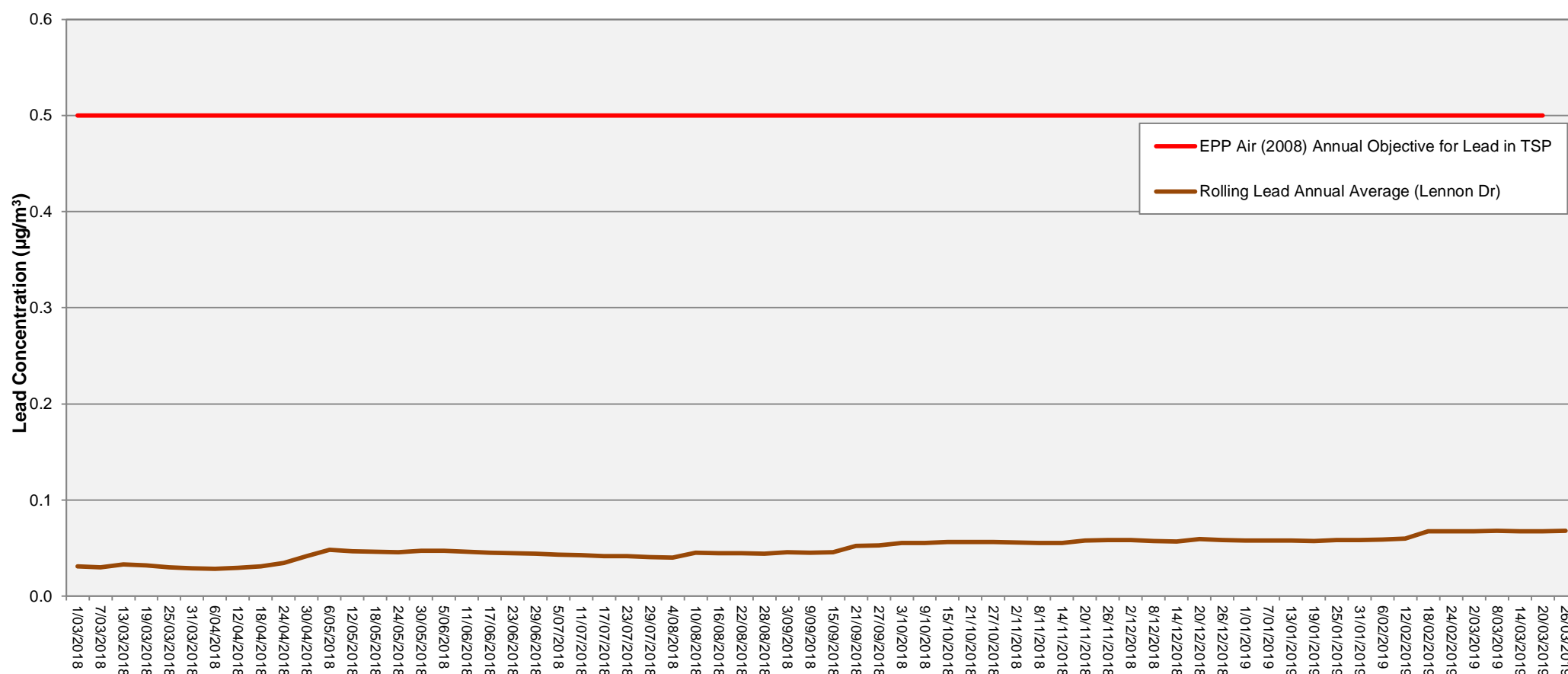


## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site MARCH 2018– MARCH 2019



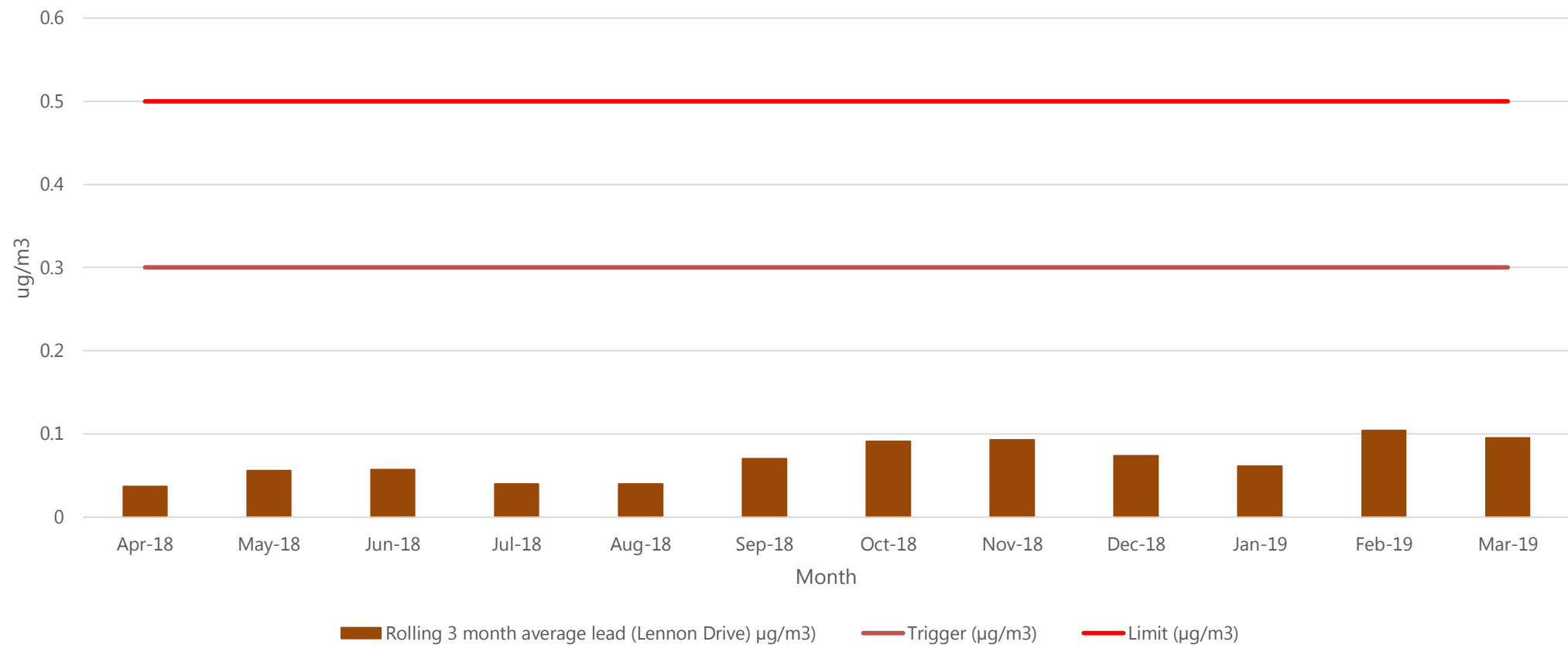
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site MARCH 2018– MARCH 2019



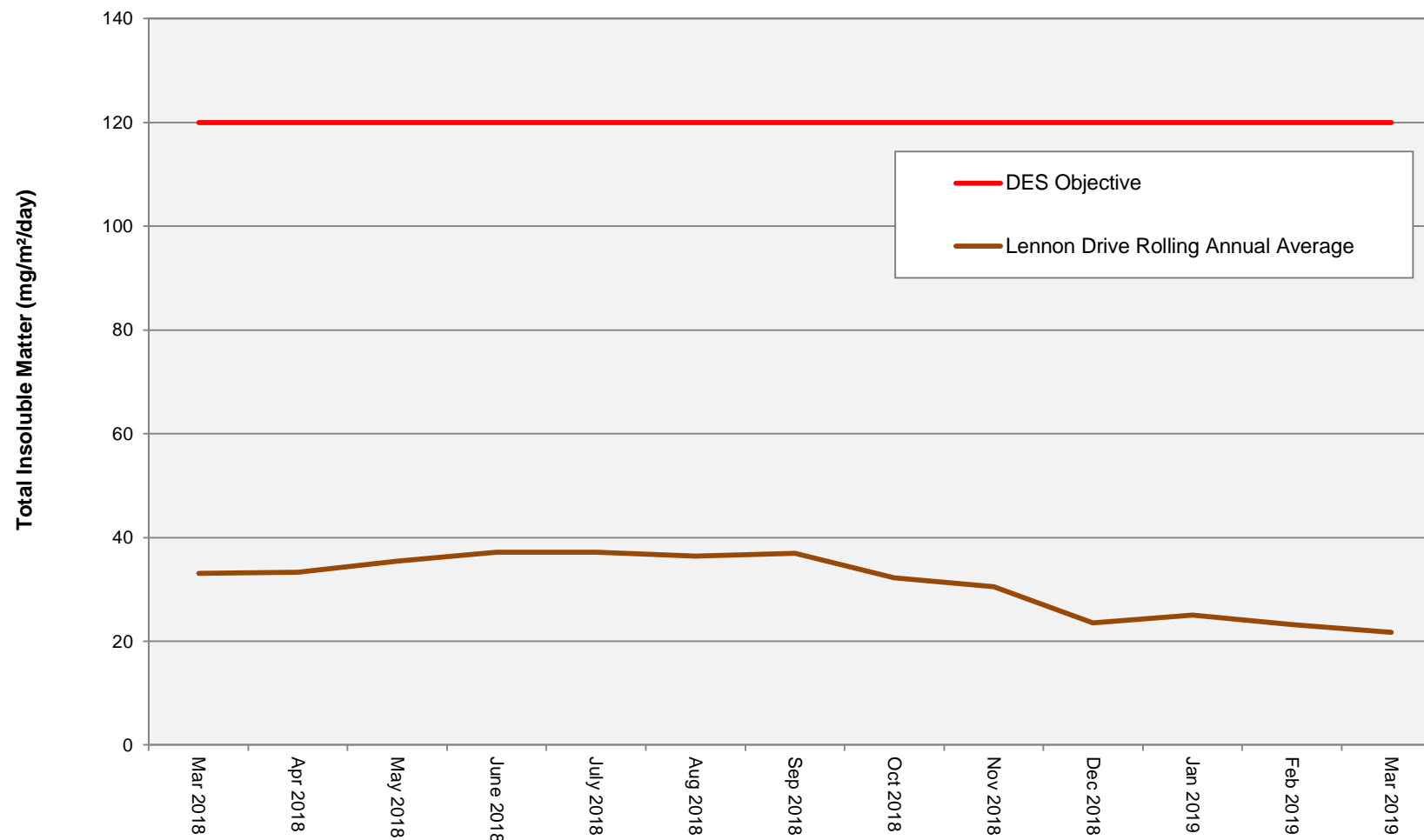
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site APRIL 2018 –MARCH 2019



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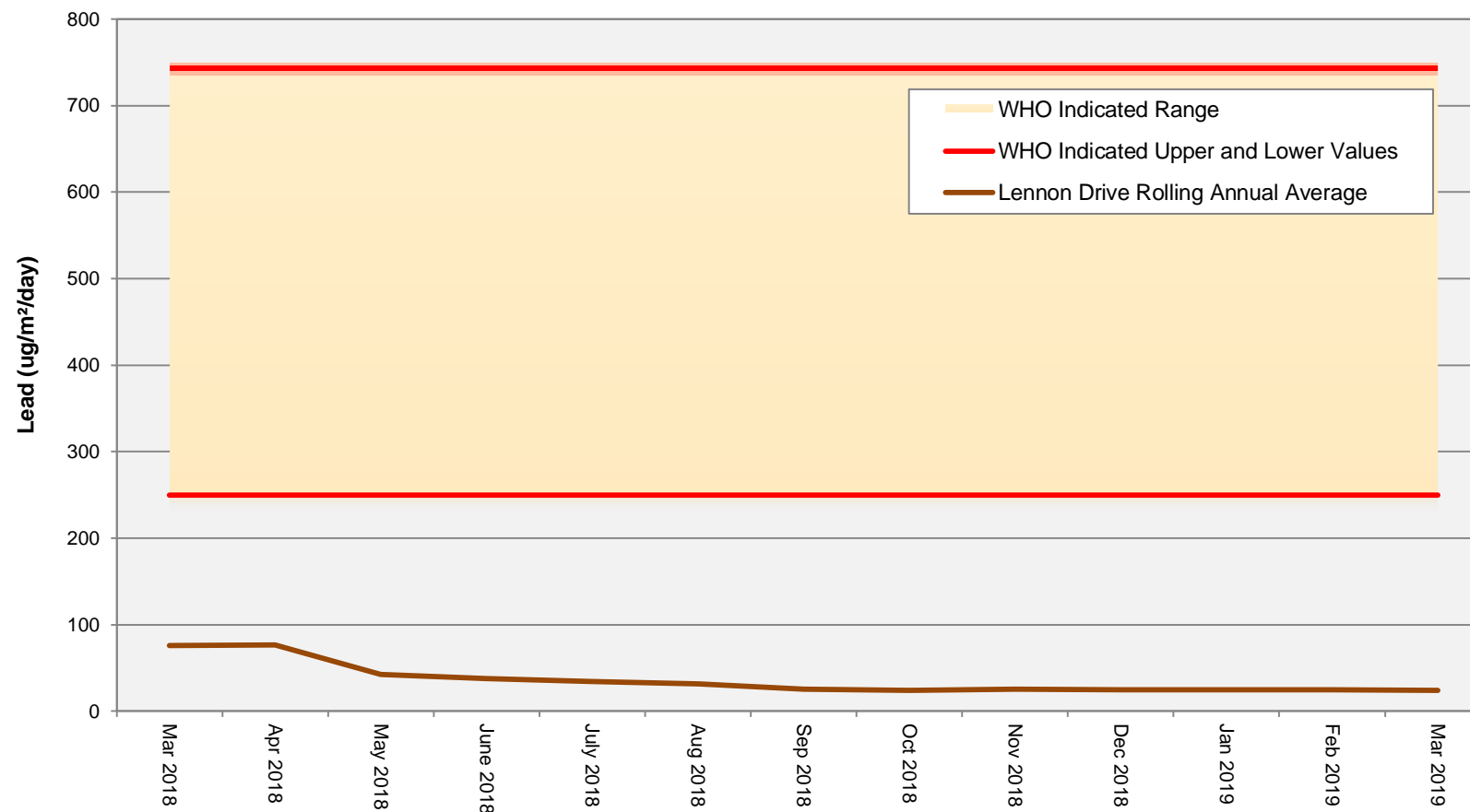
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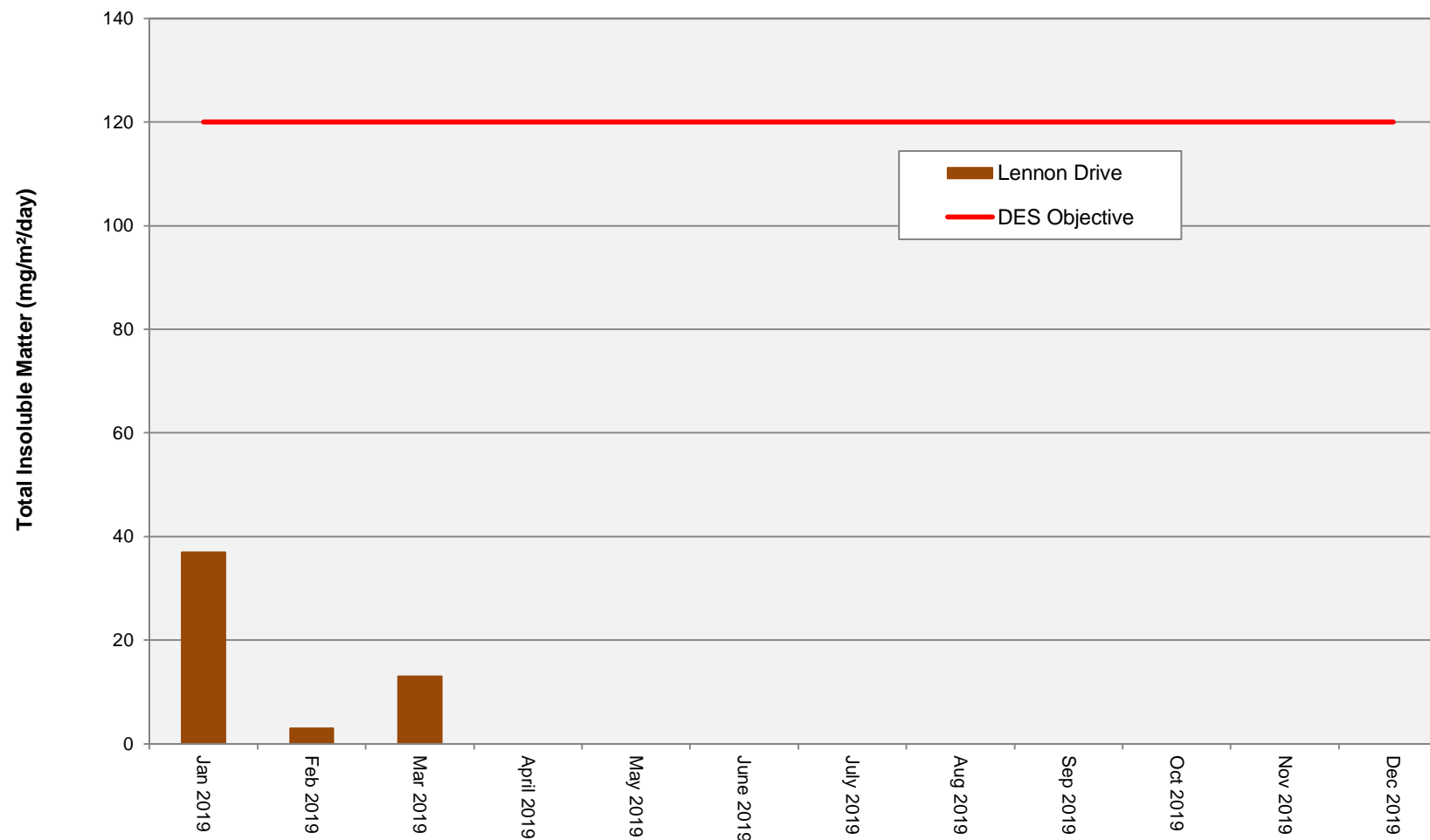


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This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

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.