

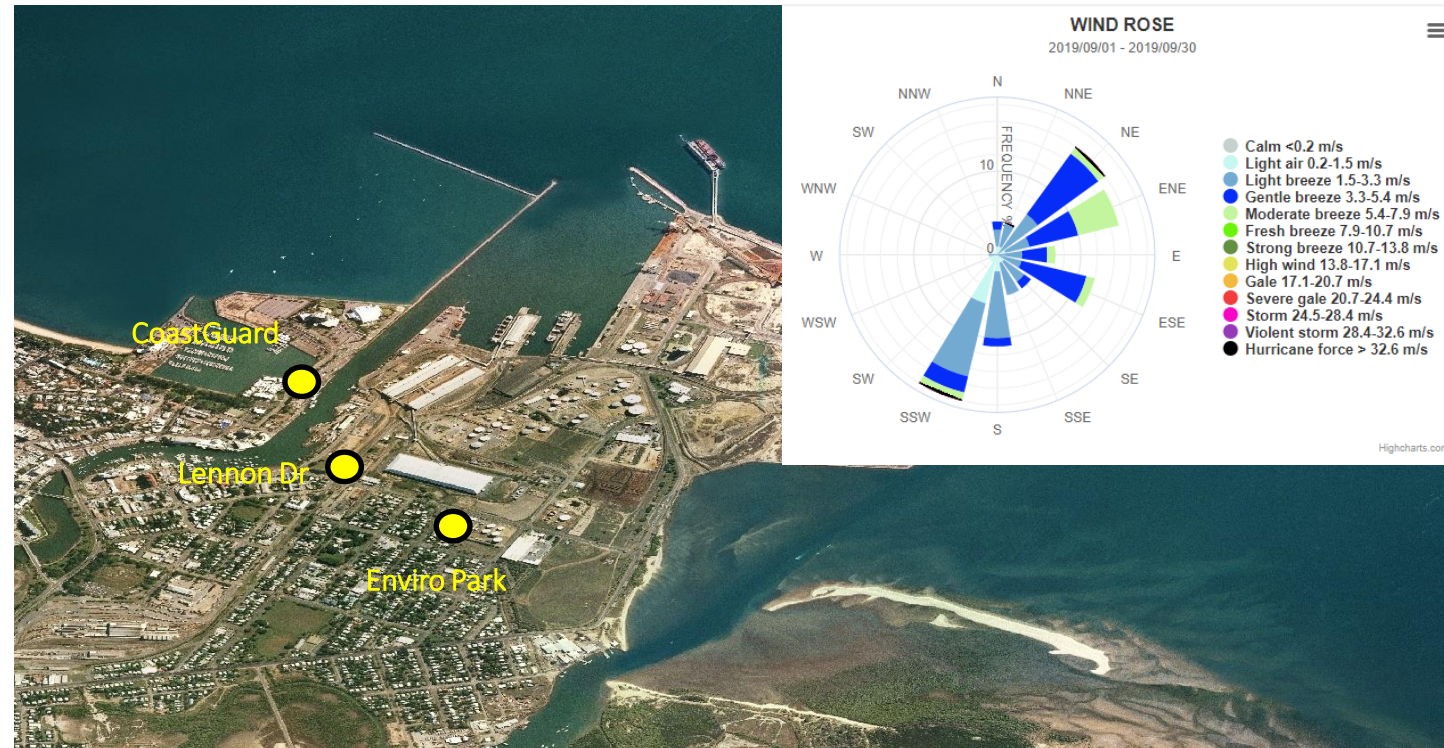
## AIR QUALITY MONITORING IN TOWNSVILLE

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 September 2019

Date In/Out	Vessel Name	Berths	Cargo	Date In/Out	Vessel Name	Berths	Cargo
01-02	THERESA ORION	9	Molasses	14-14	ADRIATIC HIGHWAY	4	Motor Vehicles
01-02	DAREEN	4	Fodder, cattle	14-17	J-HARMONY	8	Lead Concentrates
01-02	ZAMBESI	8	Zinc Concentrates	16-18	ALAM SERI	9	Sugar
02-11	PACIFIC BULKER_1	3 STH	Zinc Concentrates	17-18	HAFNIA MIKALA	1	Fuels
02-02	GANADO EXPRESS	4	Fodder, cattle	17-19	AKUNA	4	Cement
02-04	ST.PAULI	1	Fuels	18-20	PRASLIN	8	Fertilizer
03-03	CHERRY POINT	9	Sugar	18-19	PACIFICA_	3 NTH	Zinc Concentrates
03-08	ALAM SETIA	8	Fertilizer	18-20	BARDU	3 STH	Containers
04-05	BOMAR SPRING	4	Containers	19-20	STOLT RENGE	1	Sulphuric Acid
04-05	KEN MEI	9	Sugar	19-19	BRISBANE	10	(bunkering)
05-06	GLOUCESTER EXPRESS	4	Fodder, cattle	20-21	STOLT RENGE	4	Tallow
05-05	SOFRANA TOURVILLE	3 STH	Containers	21-22	GRAND ACE12	1	Fuels
05-07	HMAS CHOULES	A	Army Equipment	21-23	MS EAGLE	3 NTH	Containers
06-07	YANGTZE HARMONY	4	Fodder, cattle	22-22	LACERTA	1	Fuels
07-07	GLOBAL LEADER	4	Motor Vehicles	22-23	GREYMAN EXPRESS	10	Fodder, cattle
07-11	DAIWAN ACE	9	Fertilizer	23-23	GOLDEN LEADER	1	Fuels
07-08	BRAHMAN EXPRESS	4	Fodder, cattle	23-24	BISON EXPRESS	10	Fodder, cattle
07-09	KOTA NAGA	3 STH	Containers	23-25	KOTA NIPAH	3 STH	Containers
07-16	AZTECA	10	Zinc Ferrites	24-28	CHAMPION CONCEPT	4	Molasses
08-10	DUBAI KNIGHT	L1	Sugar	24-26	EQUINOX AGANDOUSSA	L1	Sugar
09-10	MAYSORA	4	Fodder, cattle	25-27	IRIS VICTORIA	1	Fuels
09-10	SCF PIONEER	1	Fuels	25-28	MISS SIMONA	3 NTH	Zinc Concentrates
09-10	THERESA MICRONESIA	8	Molasses	26-26	FLORIDA HIGHWAY	10	Motor Vehicles
10-13	SOUTHERN KOALA	1	Sulphuric Acid	26-27	POS OCEANIA	9	Sugar
10-11	GALLOWAY EXPRESS	4	Fodder, cattle	26-27	NINE EAGLE	3 STH	Fodder, cattle
11-11	TRITON LEADER	4	Motor Vehicles	26-27	DAREEN	10	Fodder, cattle
11-12	KYOWA ORCHID	3 NTH	Tyres, copper refined	27-28	GLOUCESTER EXPRESS	10	Fodder, cattle
12-15	ANHUI_1	3 NTH	Lead Ingots	27-28	ANIKITOS	9	Sugar
12-12	ONYX ACE	4	Motor Vehicles	28-29	ORIENT INNOVATION	1	Fuels
13-15	SANIA	L1	Sugar	29-01	OCEAN DROVER	4	Fodder, cattle
13-14	THE DIPLOMAT	1	Bitumen	29-01	KYOWA ROSE	3 NTH	Tyres, copper refined
13-17	REA	3 NTH	Zinc Concentrates				



## 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.



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OR

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

OR

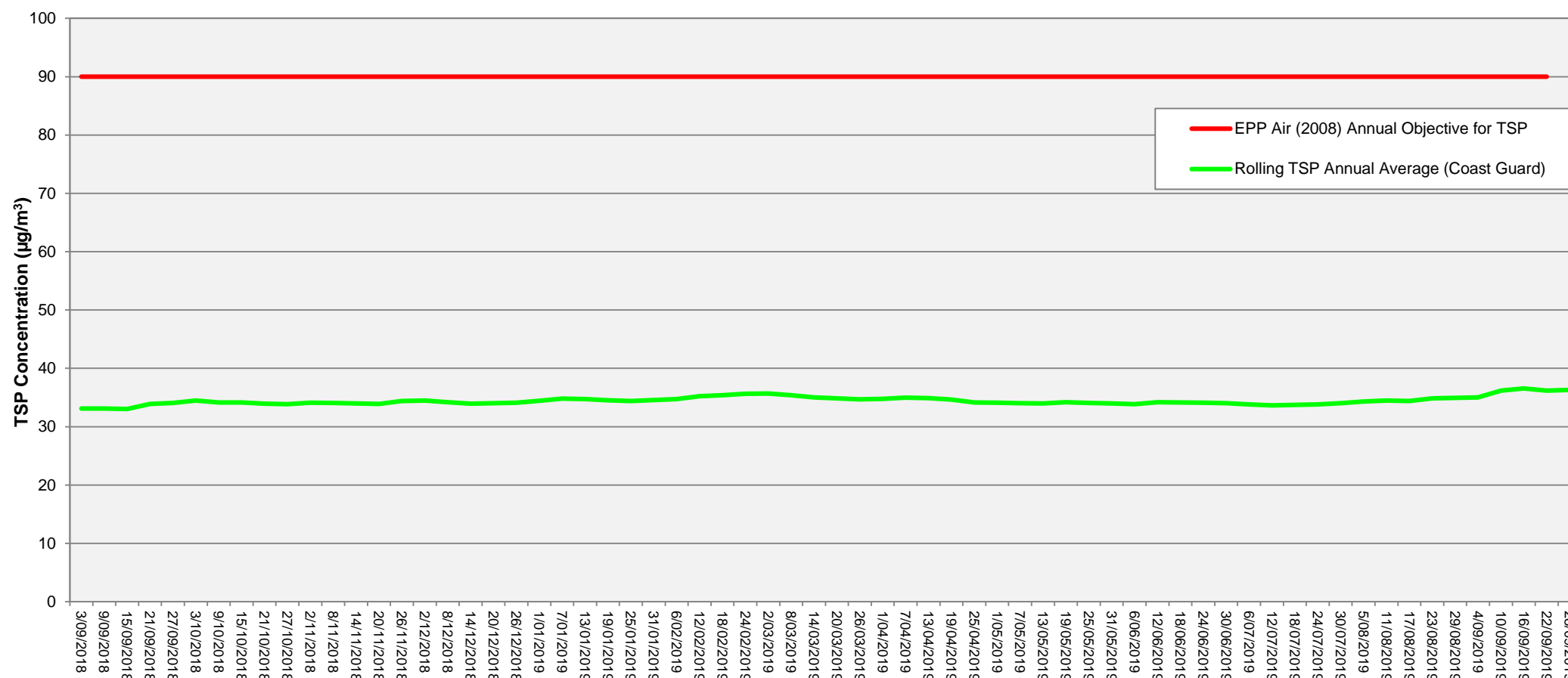
Phone 07 47 811 500 and asked to be added to the list.

## Ask a Question / Provide Feedback

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

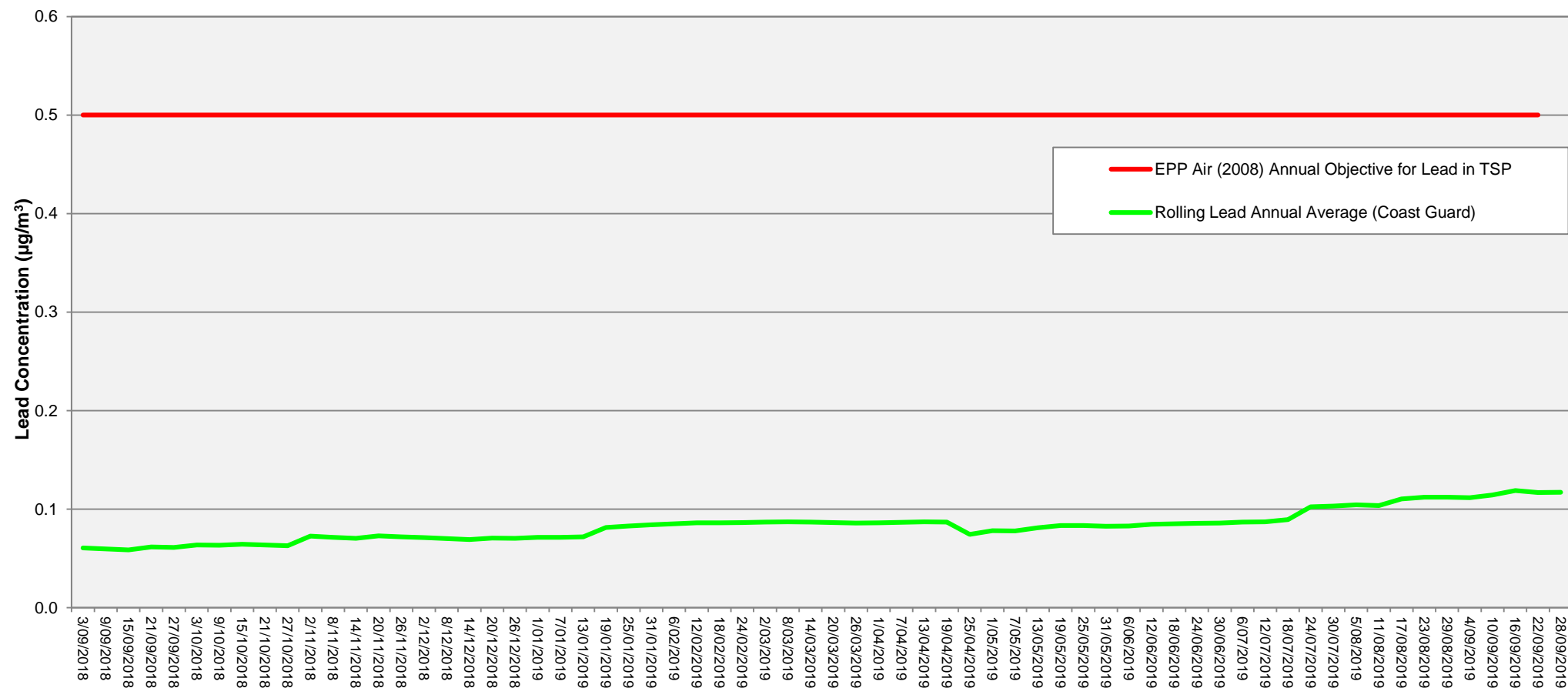


## Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site SEPTEMBER 2018 – SEPTEMBER 2019



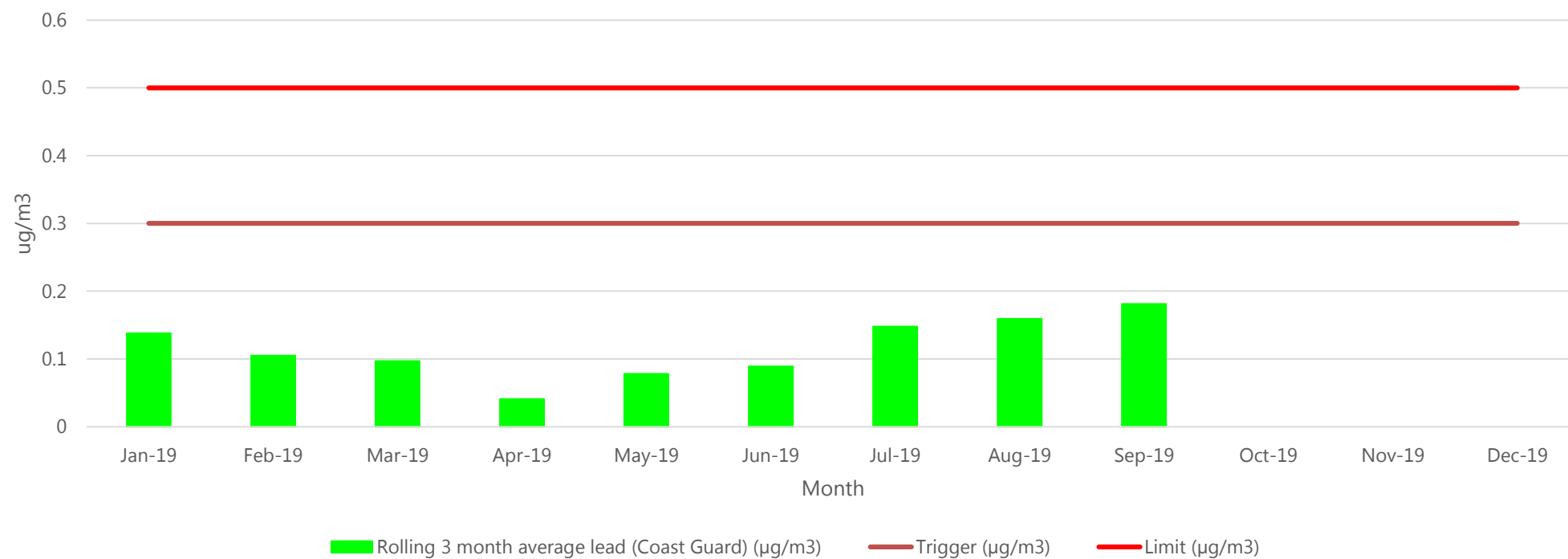
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

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



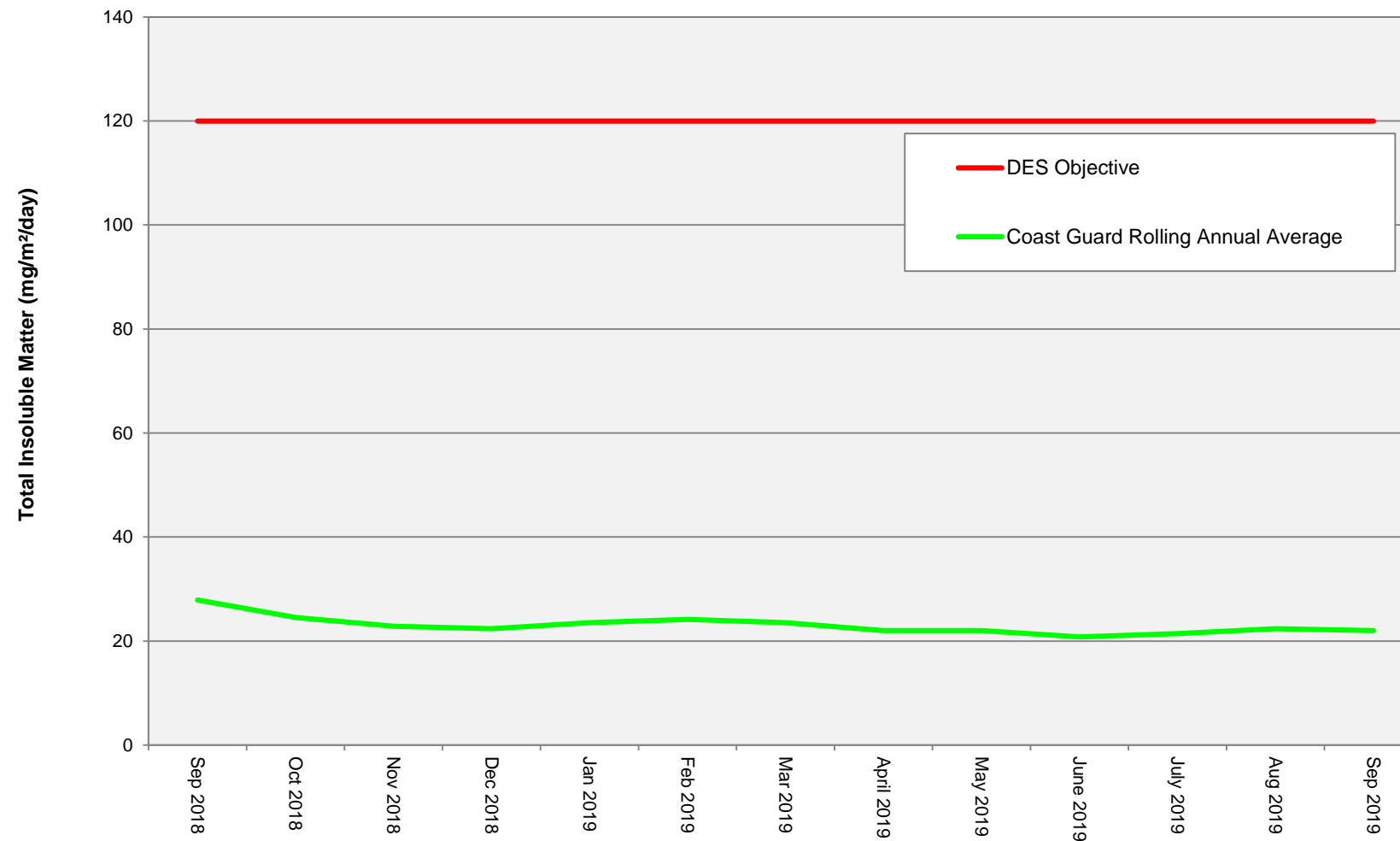
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2019



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

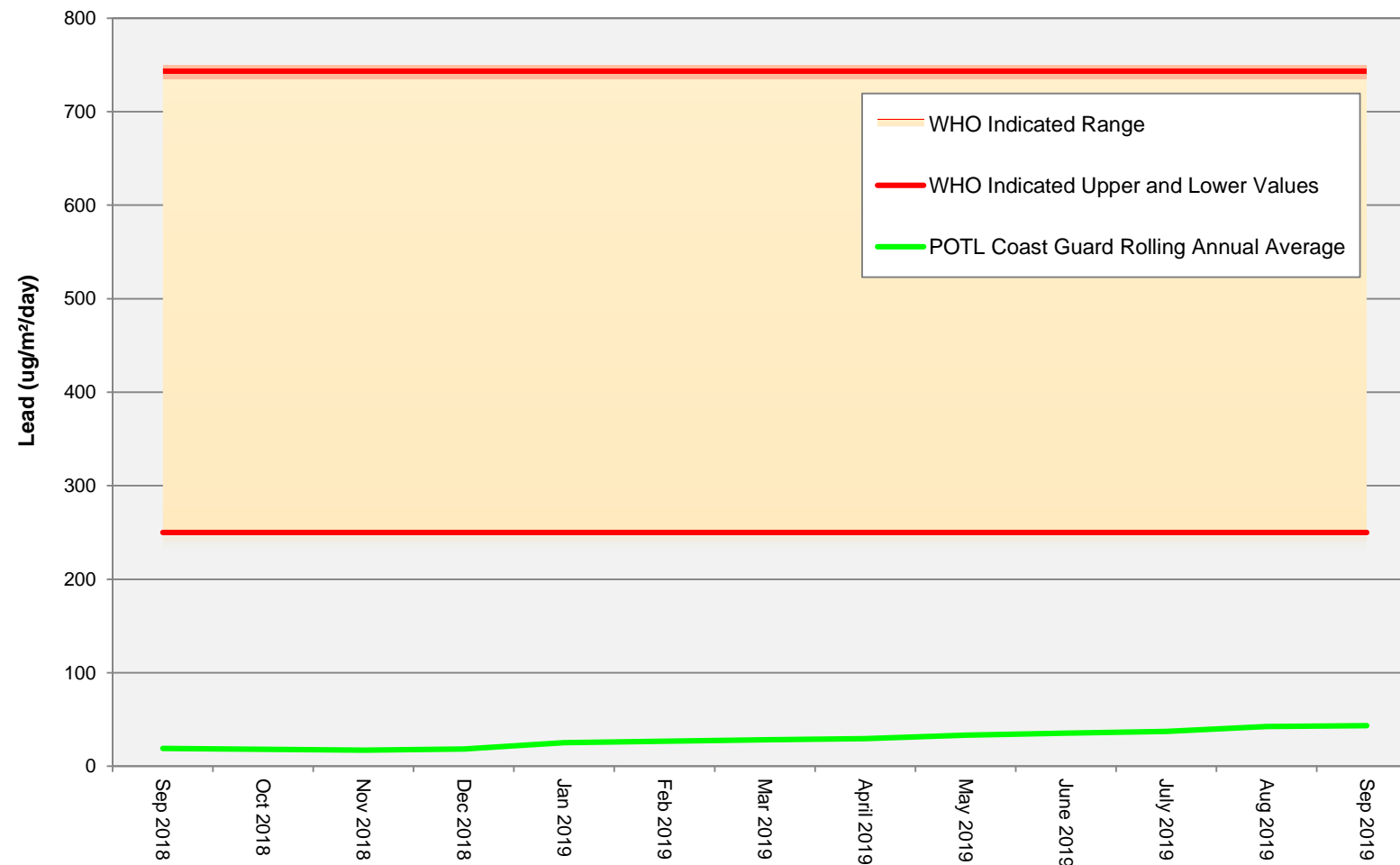
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site SEPTEMBER 2018 – SEPTEMBER 2019



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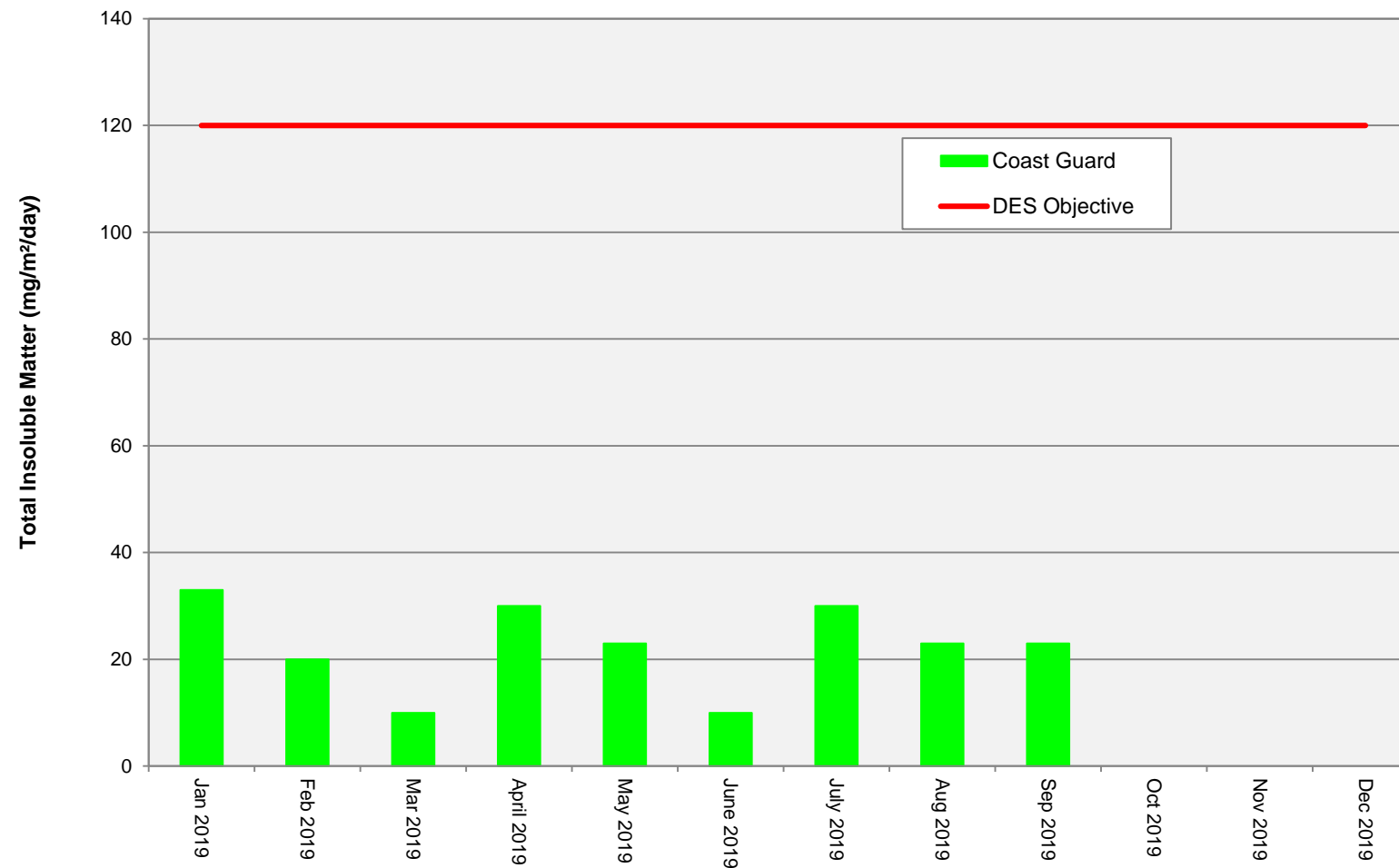


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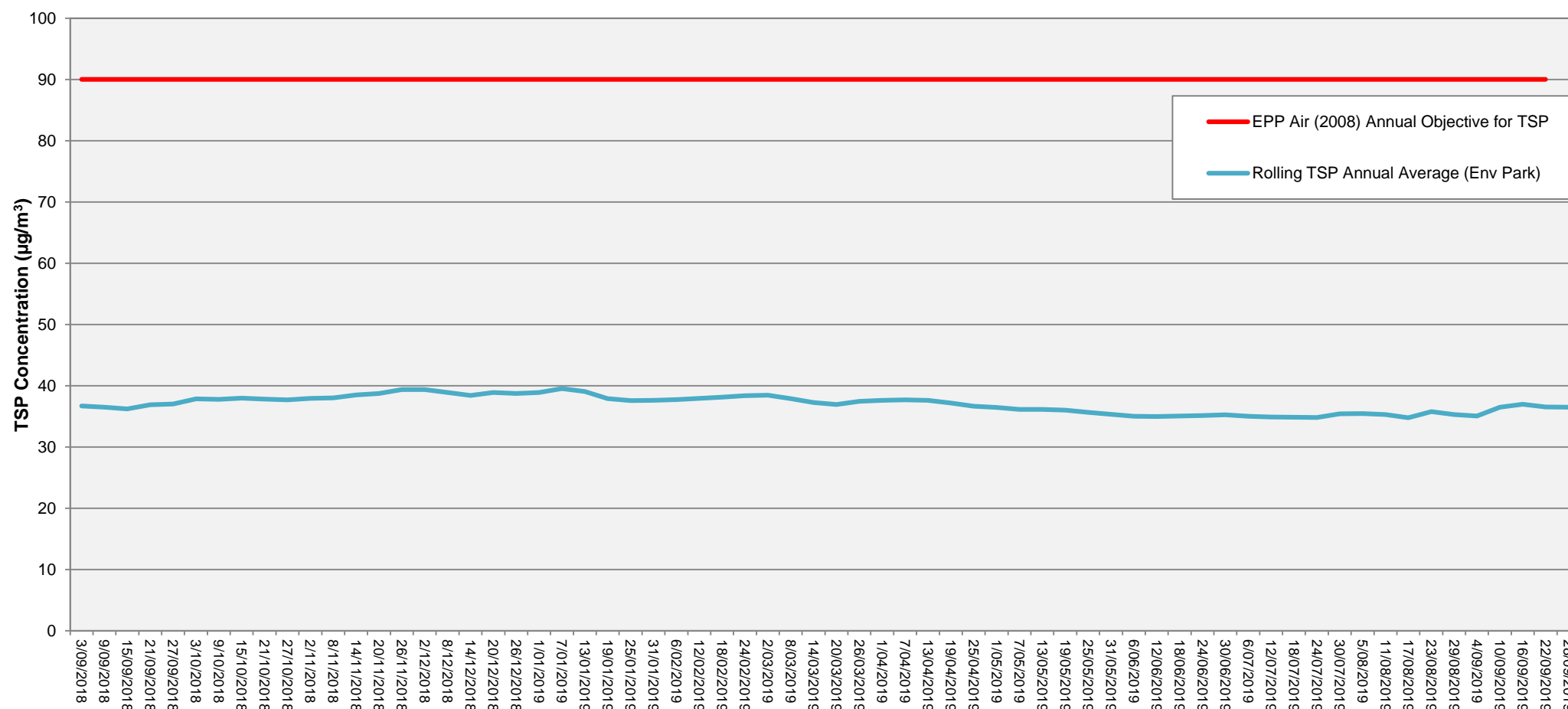
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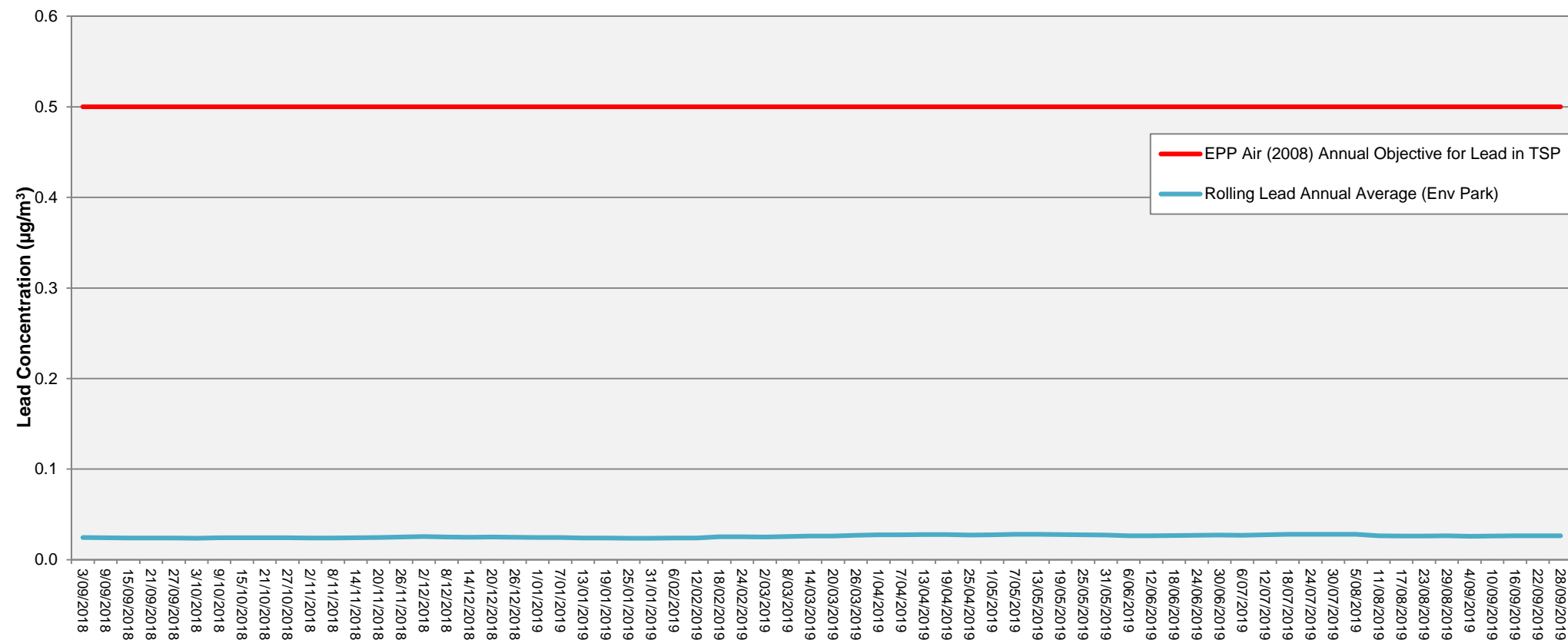
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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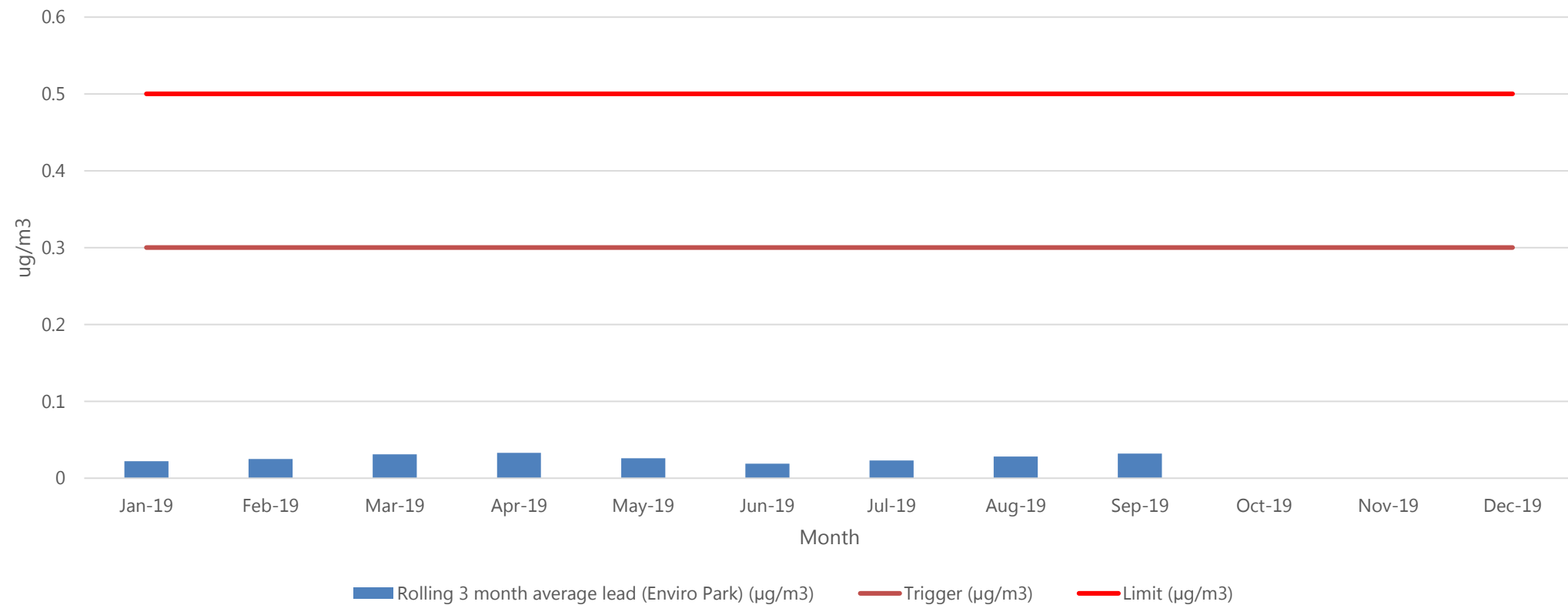
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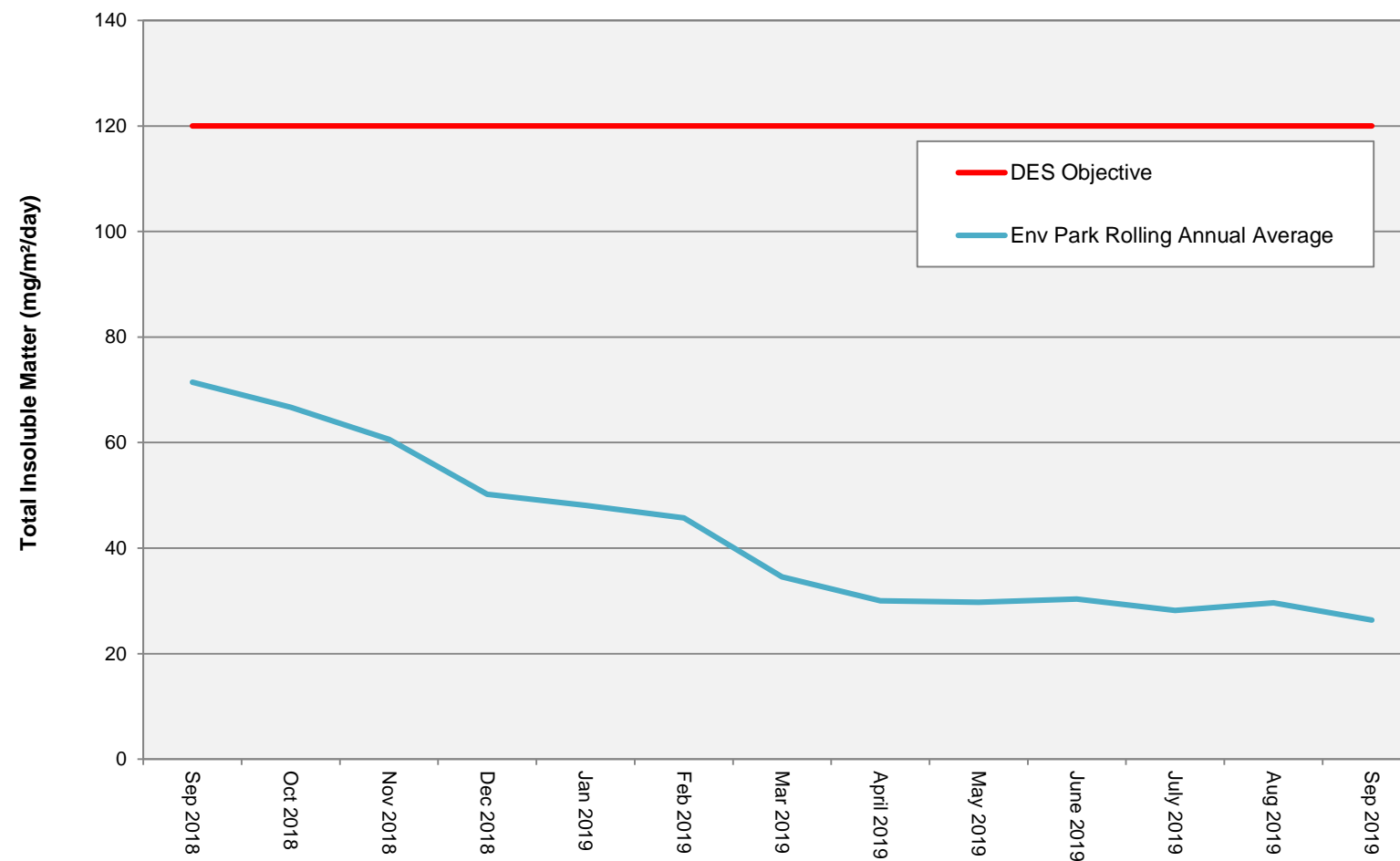


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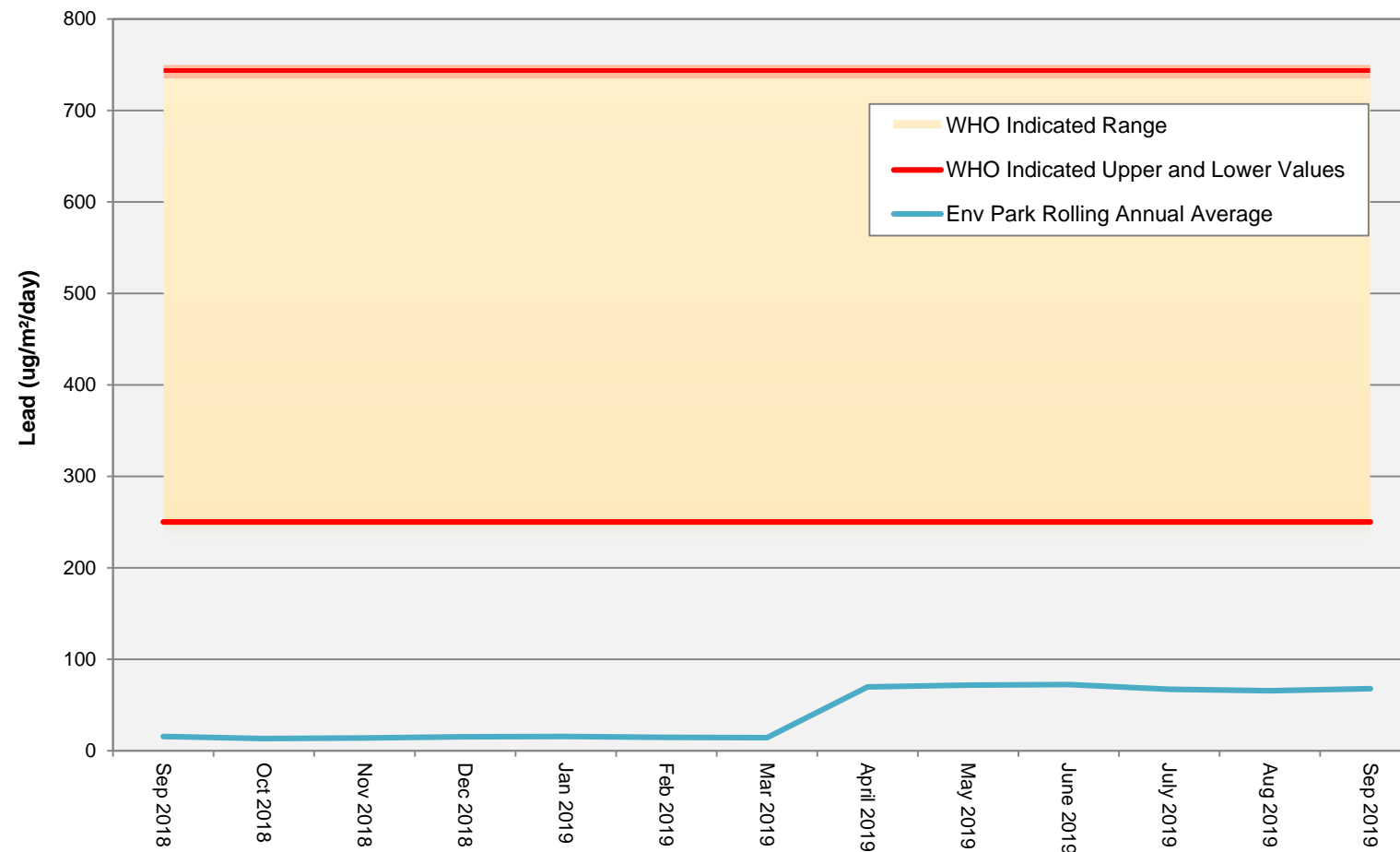
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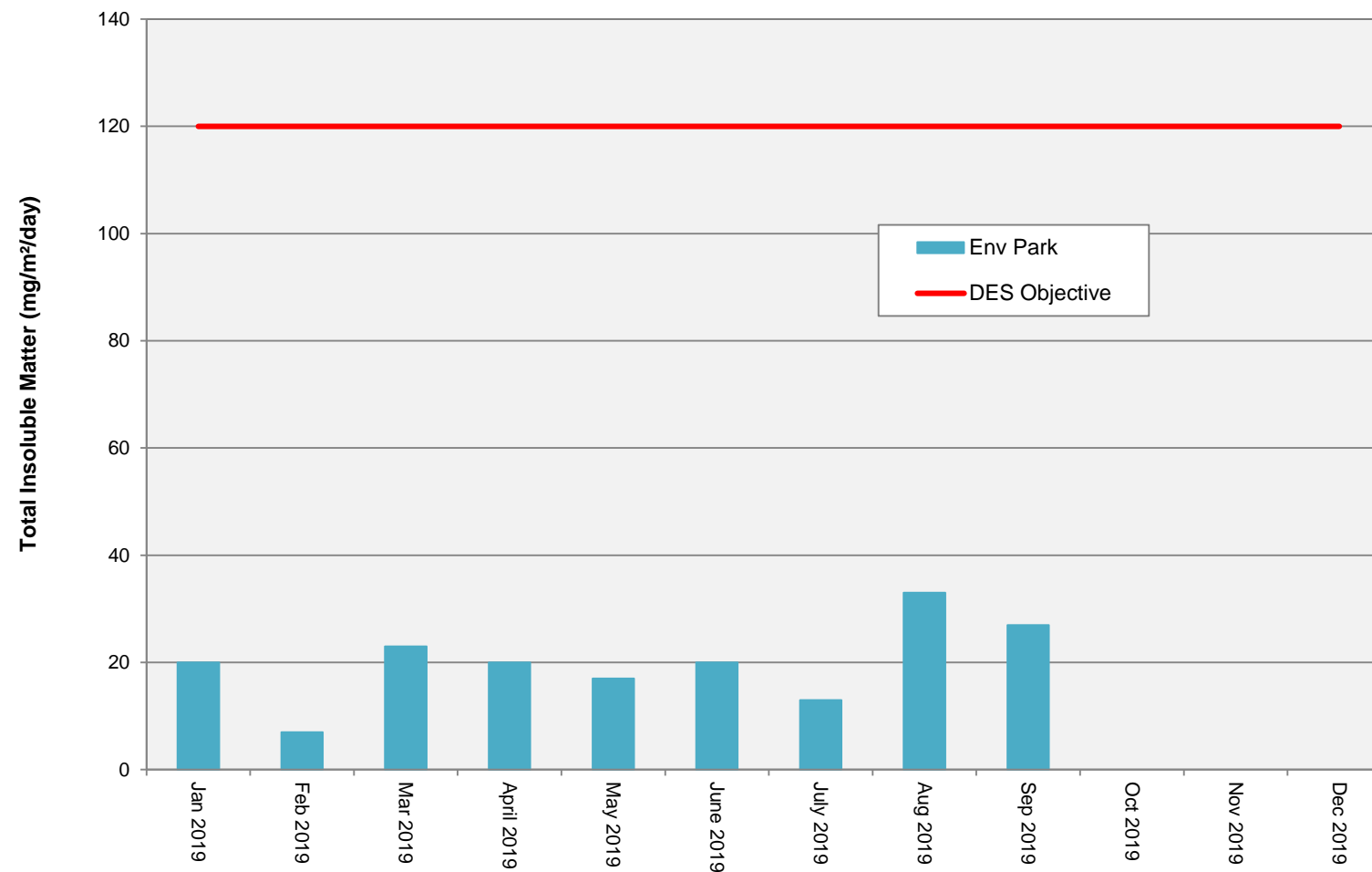
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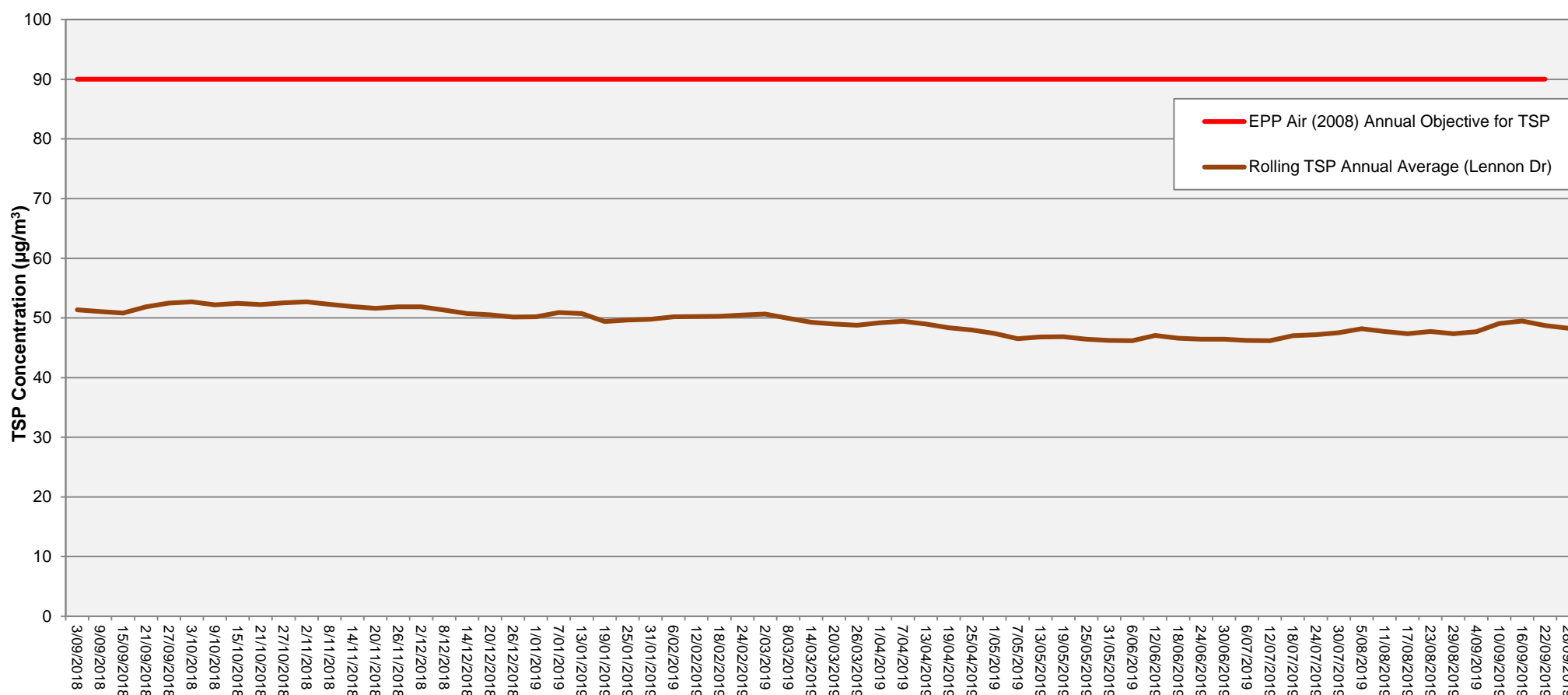
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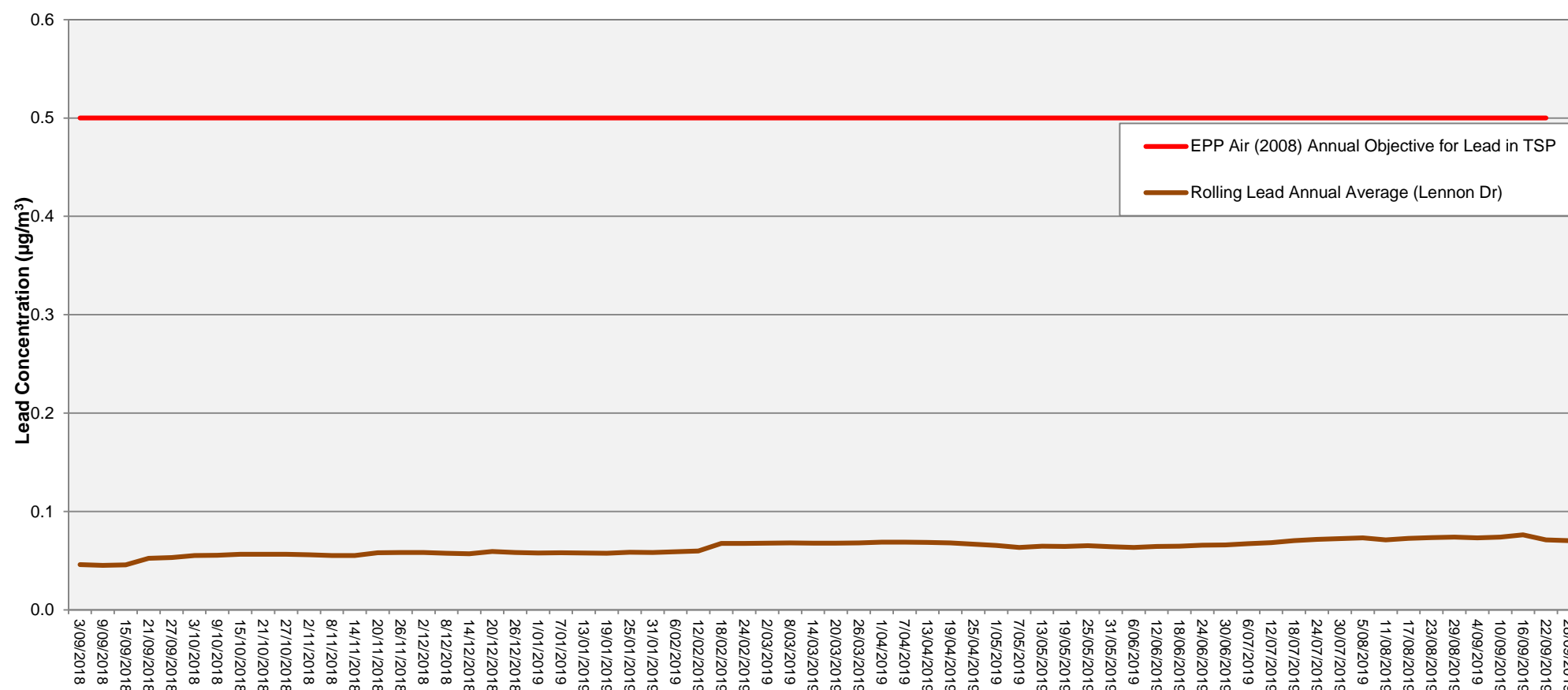


## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site SEPTEMBER 2018– SEPTEMBER 2019



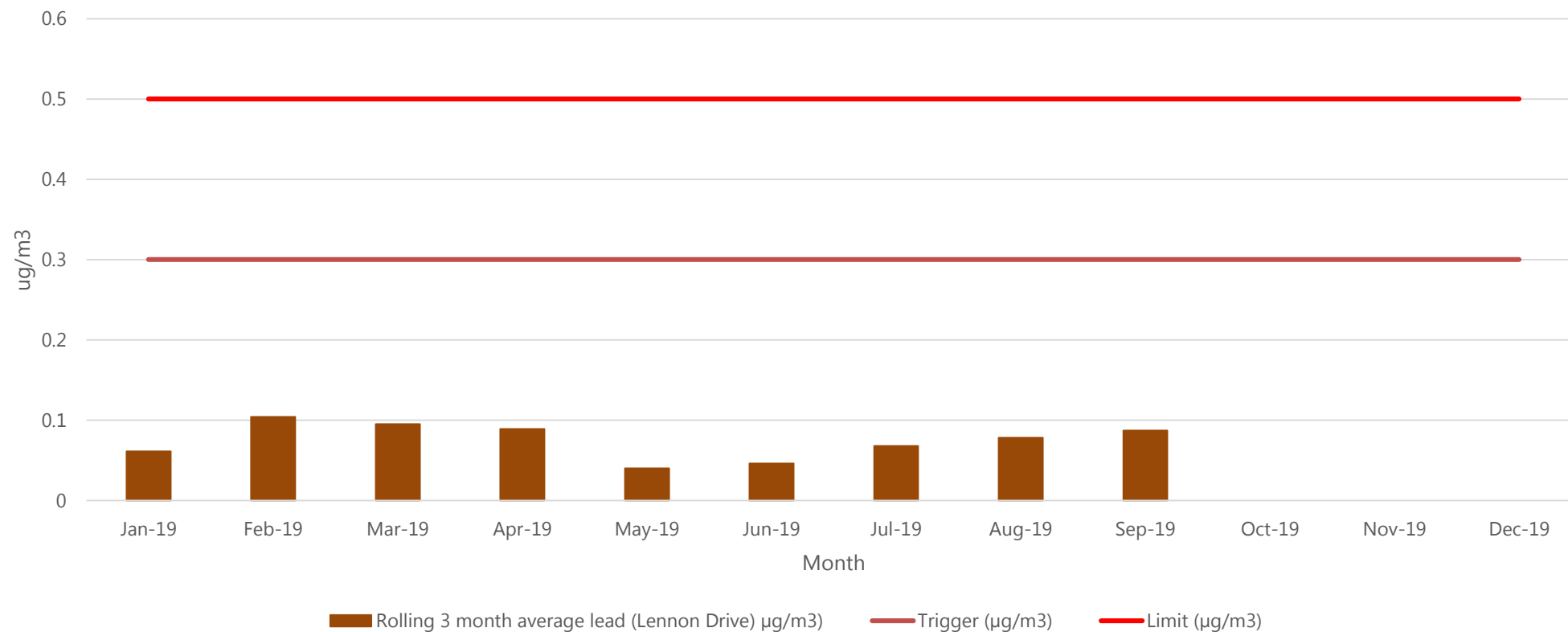
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site SEPTEMBER 2018– SEPTEMBER 2019



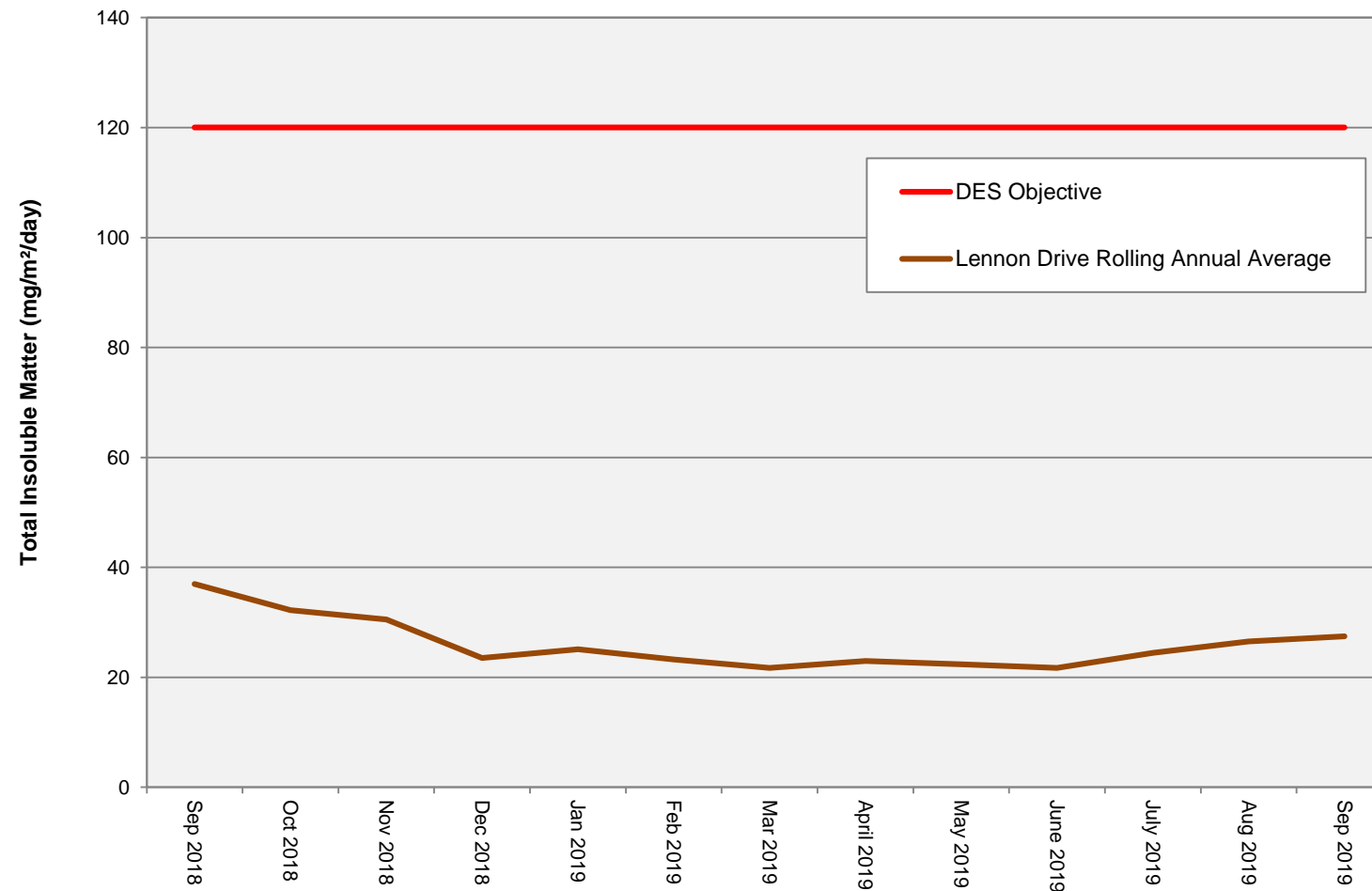
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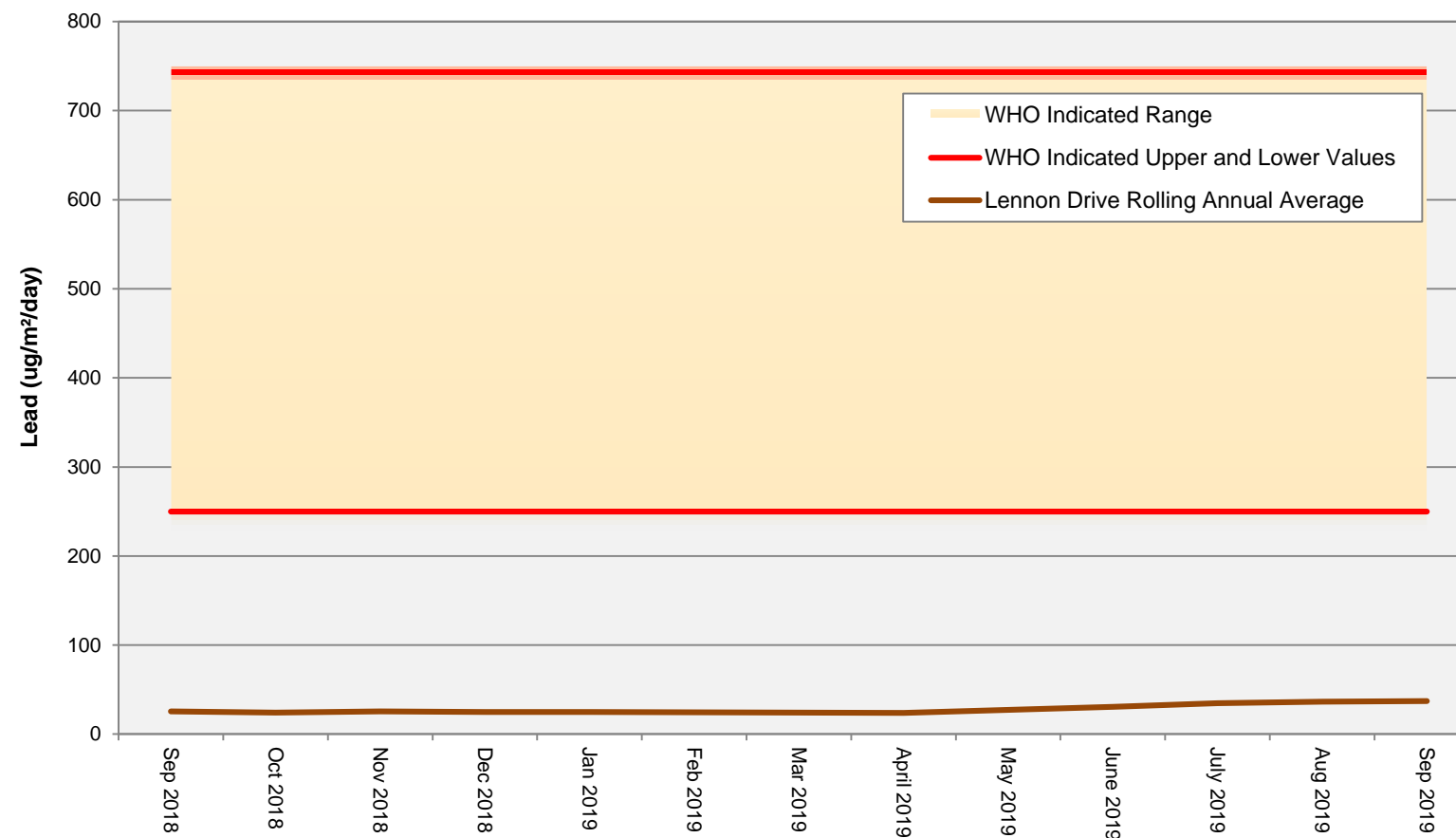
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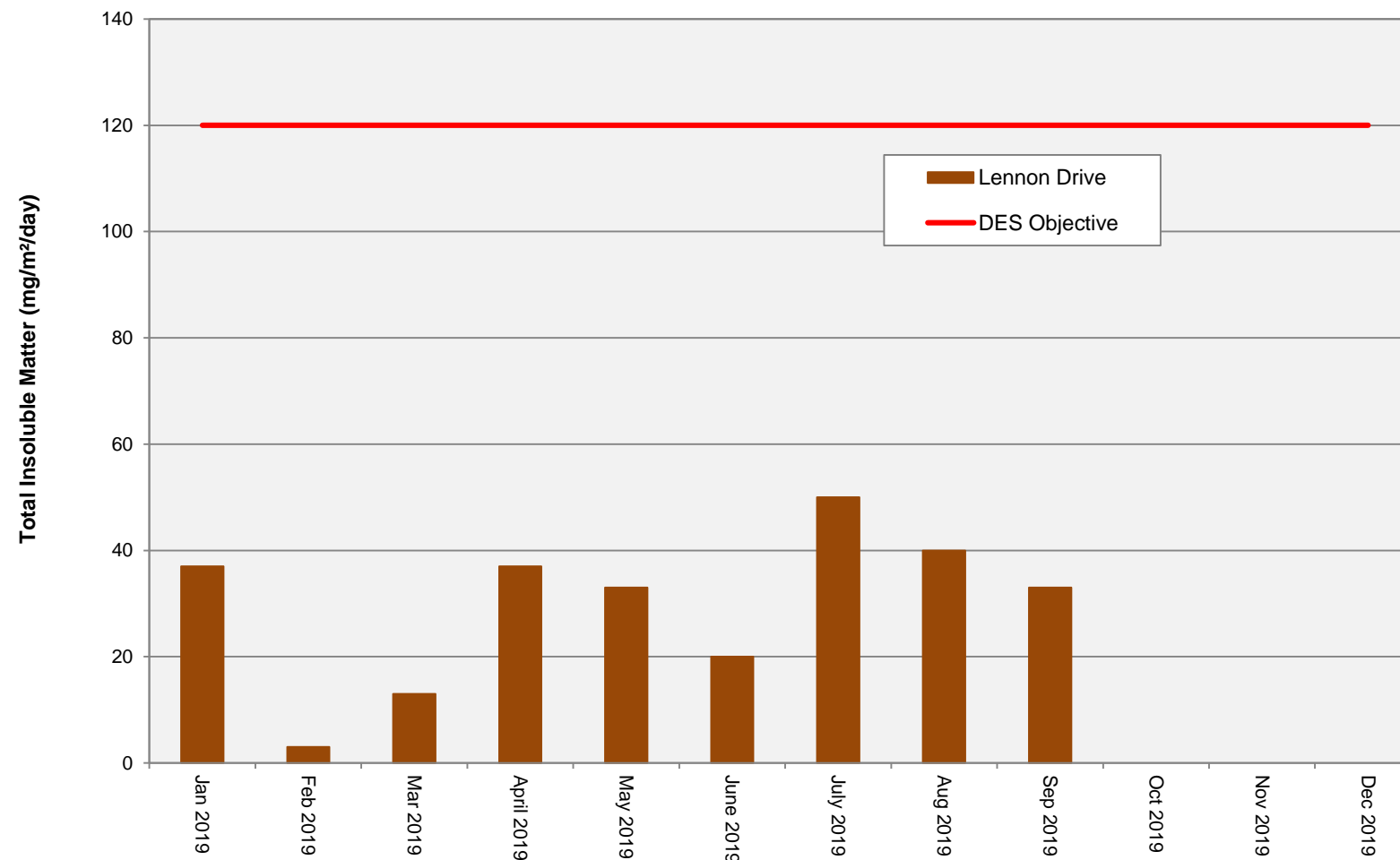


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This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

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.