

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 May 2019

| Date In/Out | Vessel Name | Berths | Cargo | Date In/Out | Vessel Name | Berths | Cargo |
|-------------|-------------------|--------|-------------------|-------------|-------------------|--------|--------------------|
| 01-02 | INTERLINK ABILITY | 3 NTH | Lead Ingots | 16-19 | TS FLOWER | 8 | Zinc Concentrates |
| 01-01 | CORONADO BAY | 4 | Containers | 16-17 | GALLOWAY EXPRESS | 4 | Fodder, Cattle |
| 01-03 | MAYUREE NAREE | 8 | Lead Concentrates | 17-18 | FLORIDA HIGHWAY | 4 | Motor Vehicles |
| 02-04 | AKUNA | 4 | Cement | 18-19 | GOLDEN CHIE | 1 | Fuels |
| 02-07 | AFRICAN RAVEN | 3 NTH | Zinc Concentrates | 18-19 | GREYMAN EXPRESS | 4 | Fodder, Cattle |
| 03-04 | LAKE DANY | 9 | Sugar | 18-19 | KOTA NIPAH | 3 STH | Containers |
| 03-05 | ZAMBESI | 8 | Zinc Concentrates | 20-20 | BOMAR SPRING | 3 STH | Containers |
| 04-05 | LINDANGER | 1 | Fuels | 21-21 | SOFRANA TOURVILLE | 3 STH | Containers |
| 04-05 | GIROLANDO EXPRESS | 4 | Fodder, Cattle | 21-23 | KYOWA ROSE | 3 STH | General/Break Bulk |
| 04-05 | OCEAN UTE | 10 | Fodder, Cattle | 21-22 | BARDU | 4 | Containers |
| 05-06 | ROYAL INNOVATION | 9 | Sugar | 22-24 | ANNA MARRA | 10 | Fodder, Cattle |
| 05-06 | BOW SINGAPORE | 1 | Sulphuric Acid | 22-23 | WYUNA | 4 | Cement |
| 06-07 | GWEN | 8 | Tallow | 23-25 | DL OLIVE | 9 | Scrap metal |
| 06-08 | GSL KETA | 4 | Containers | 23-23 | HAWAIIAN HIGHWAY | 3 STH | Nil Cargo |
| 07-07 | FREMANTLE HIGHWAY | 10 | Motor Vehicles | 24-25 | TS FLOWER | 3 NTH | Zinc Concentrates |
| 07-07 | CENTAURUS LEADER | 9 | Motor Vehicles | 25-27 | KAITI HILL | 8 | Fertilizer |
| 07-09 | KYOWA ORCHID | 3 NTH | Containers | 26-27 | THERESA ORION | 9 | Nil Cargo |
| 07-08 | GOLDEN ACE | 1 | Fuels | 27-28 | FOOLS GOLD | 11 | Lead Concentrates |
| 08-10 | KOTA NAGA | 4 | Containers | 27-28 | PACIFIC NOBLE | 9 | Sugar |
| 11-13 | ORIENTAL DIAMOND | 1 | Fuels | 28-28 | STI DAMA | 1 | Fuels |
| 12-13 | MS EAGLE | 3 STH | Containers | 28-29 | GRAND ACE8 | 1 | Fuels |
| 14-16 | EMERALD SHINER | 1 | Fuels | 29-30 | WYUNA | 4 | Cement |
| 15-22 | PATAGONIA | 10 | Zinc Ferrites | 30-30 | BRISBANE | 10 | Fuels |
| 16-18 | GOLDEN ACE | A/1 | Sulphuric Acid | 30-31 | OCEAN UTE | 3 STH | Fodder, Cattle |

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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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

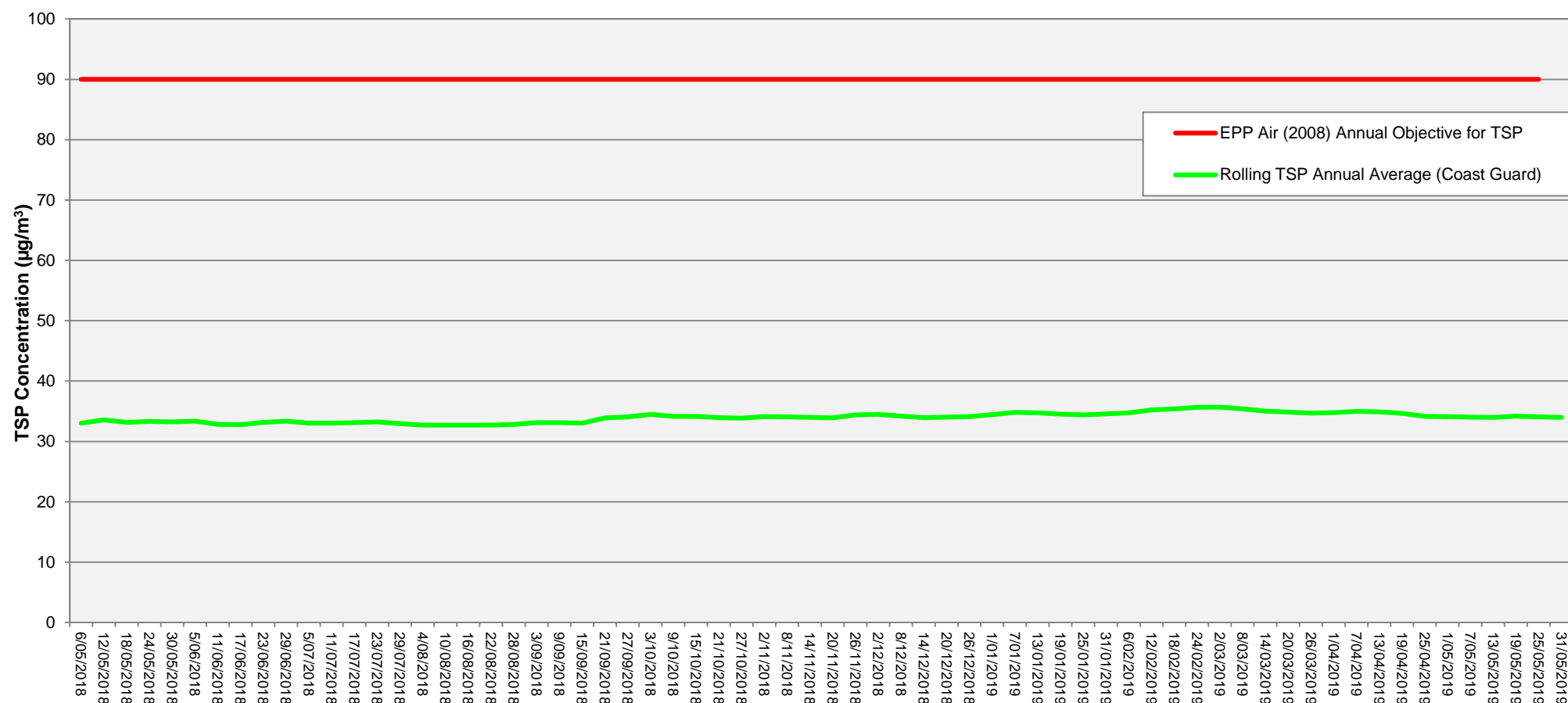
Phone 07 47 811 500 and asked to be added to the list.

Ask a Question / Provide Feedback

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

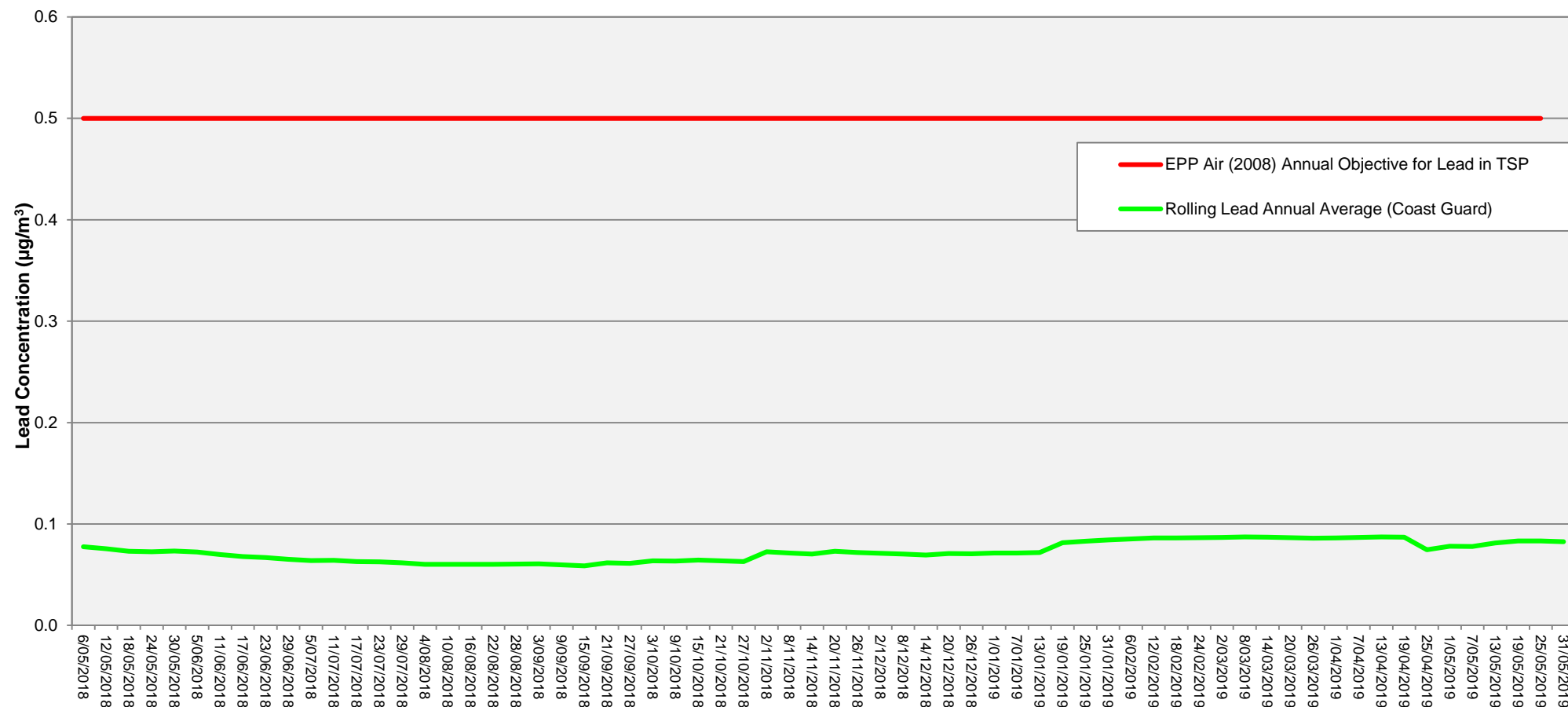


Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site MAY 2018 – MAY 2019



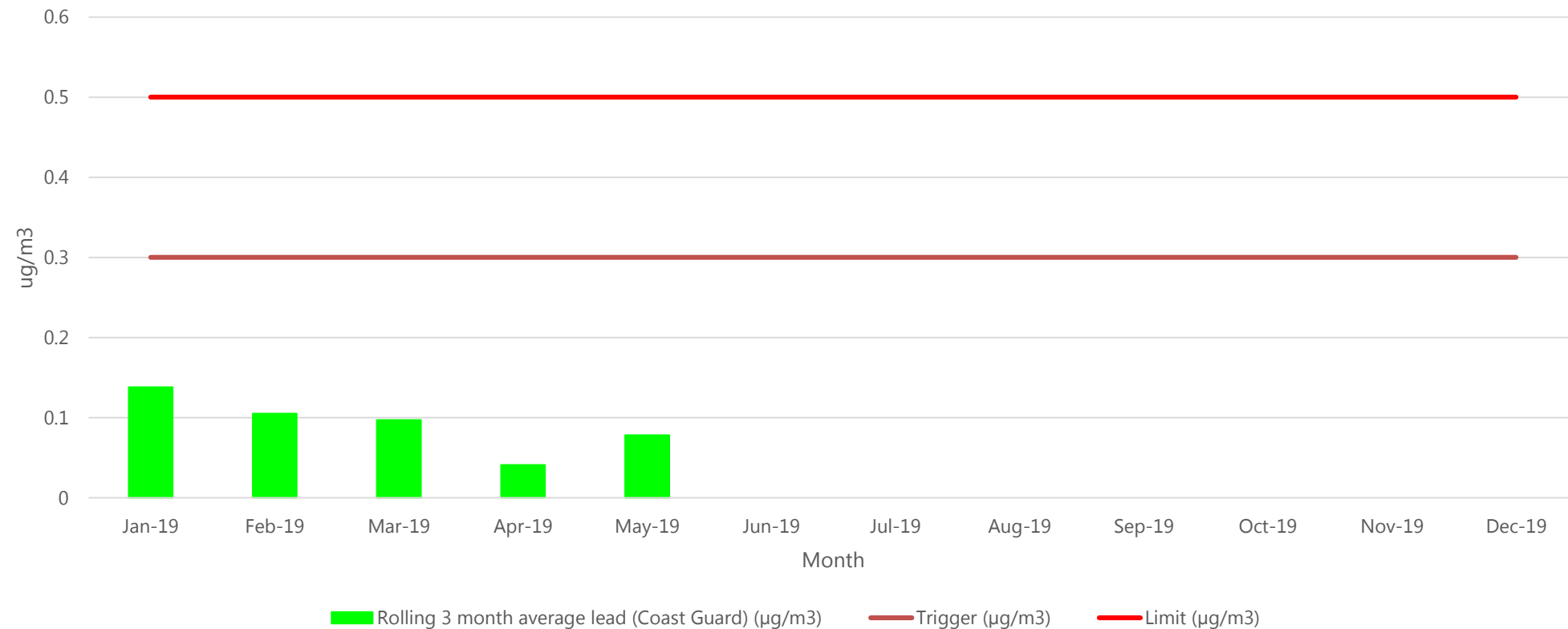
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
 Rolling annual average = the moving average of the previous 11 results and the current result

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



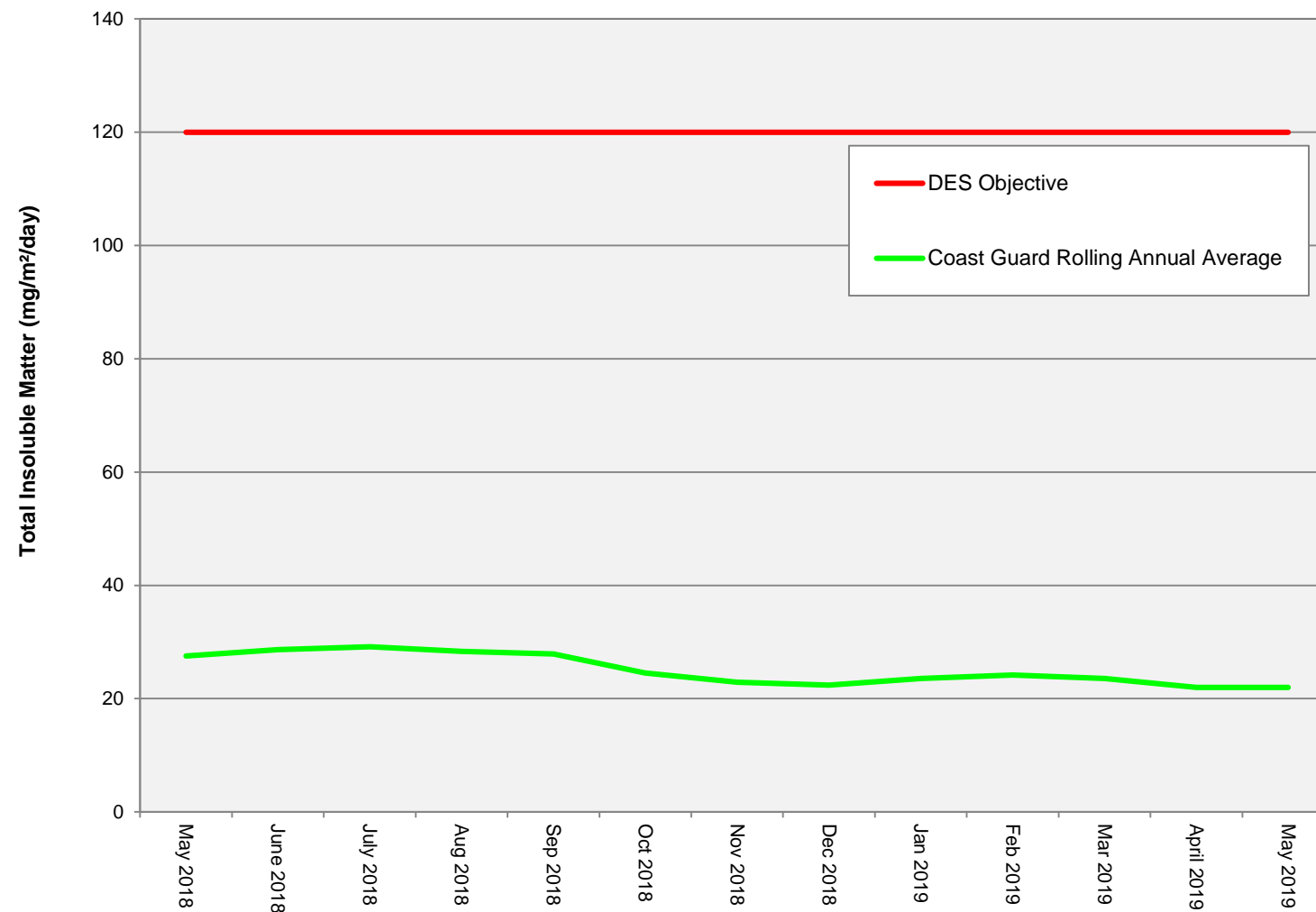
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2019



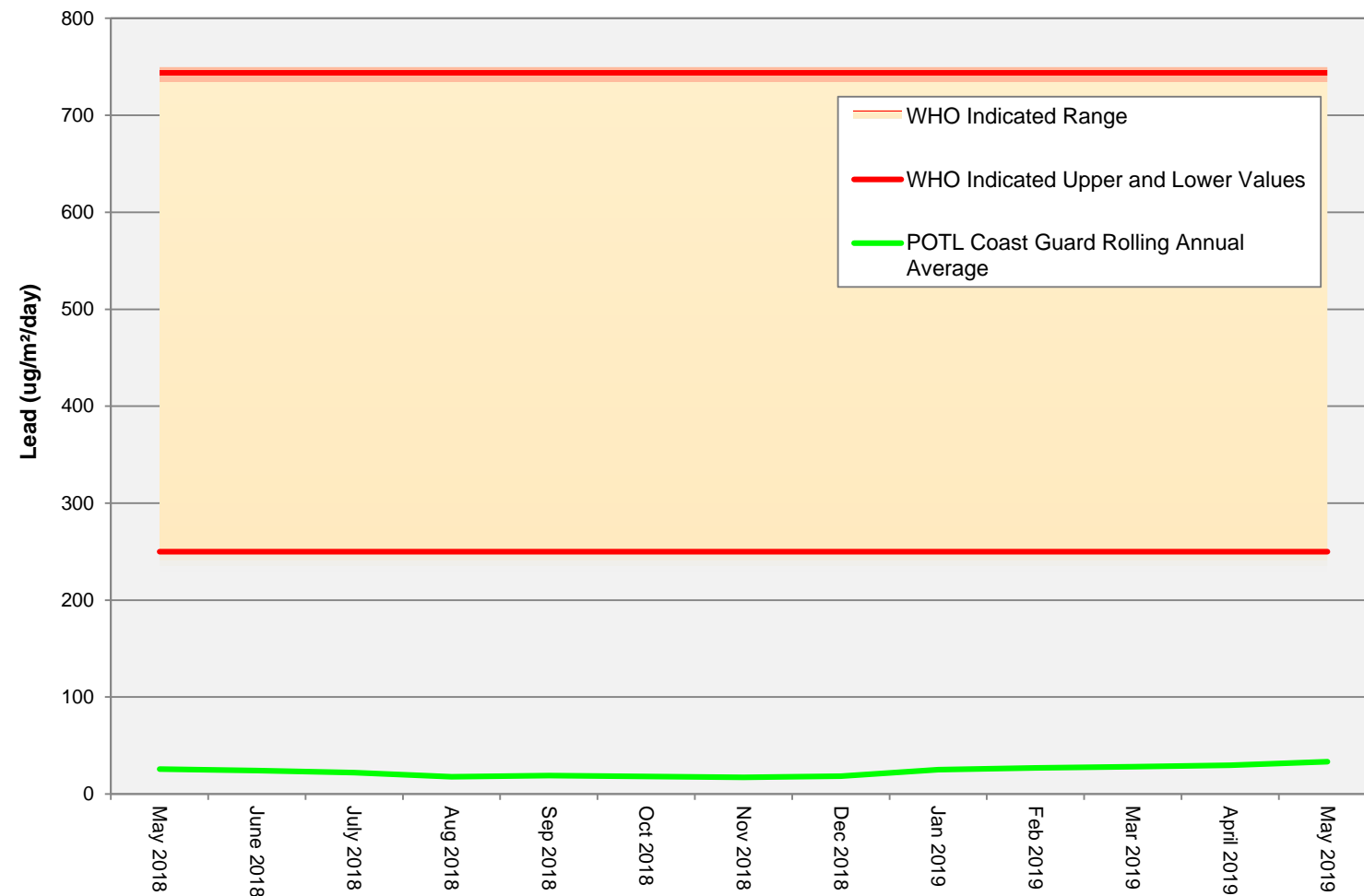
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

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



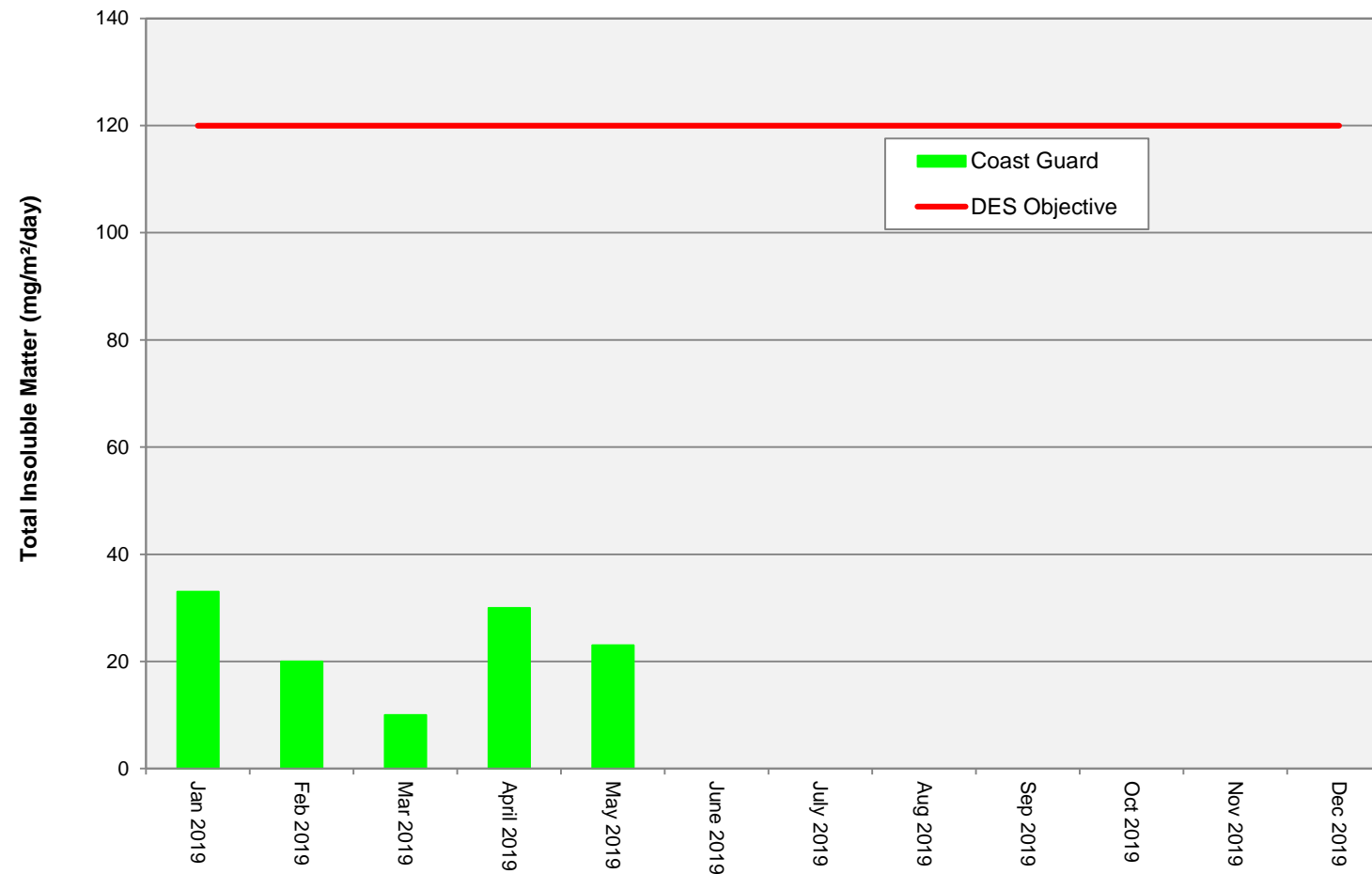
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
 Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site MAY 2018 – MAY 2019



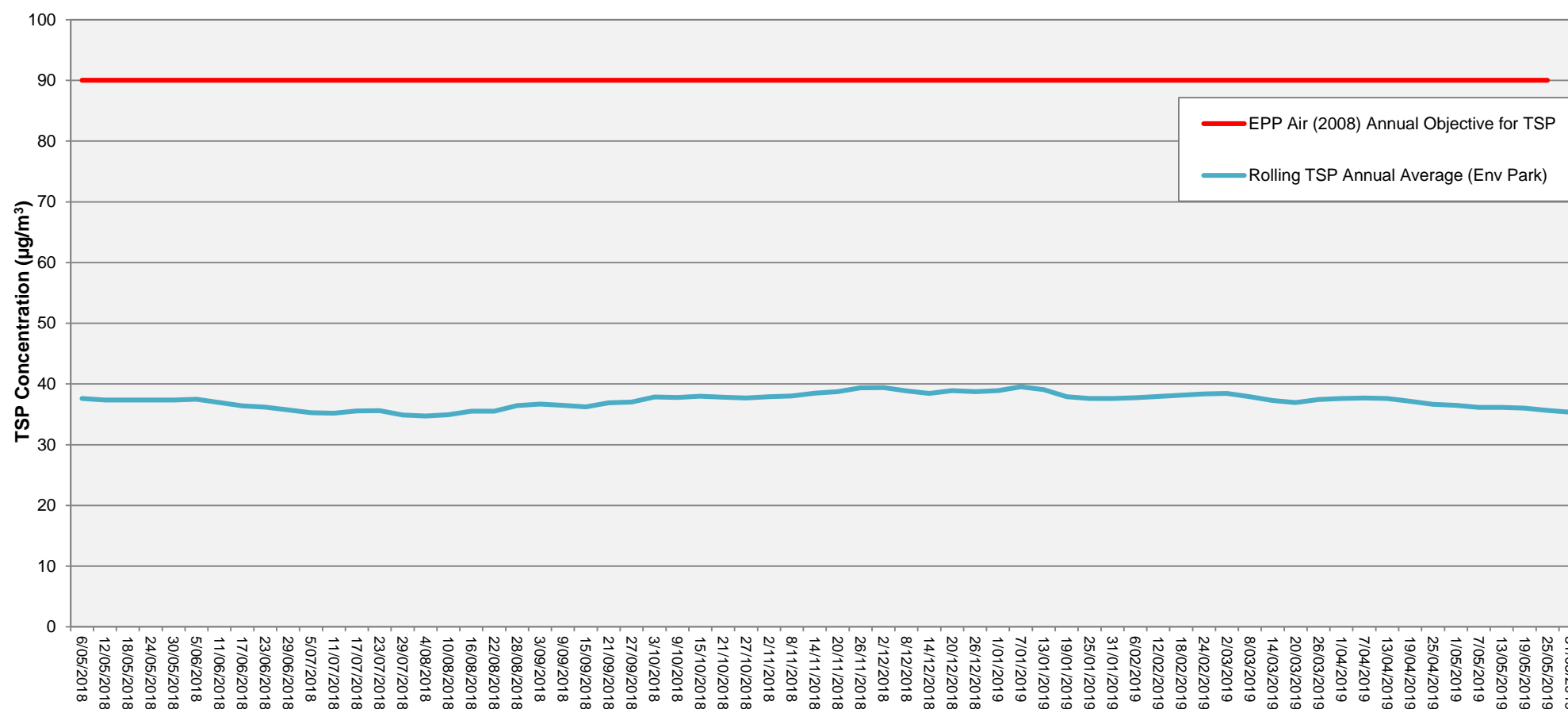
Note: Lead Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2019



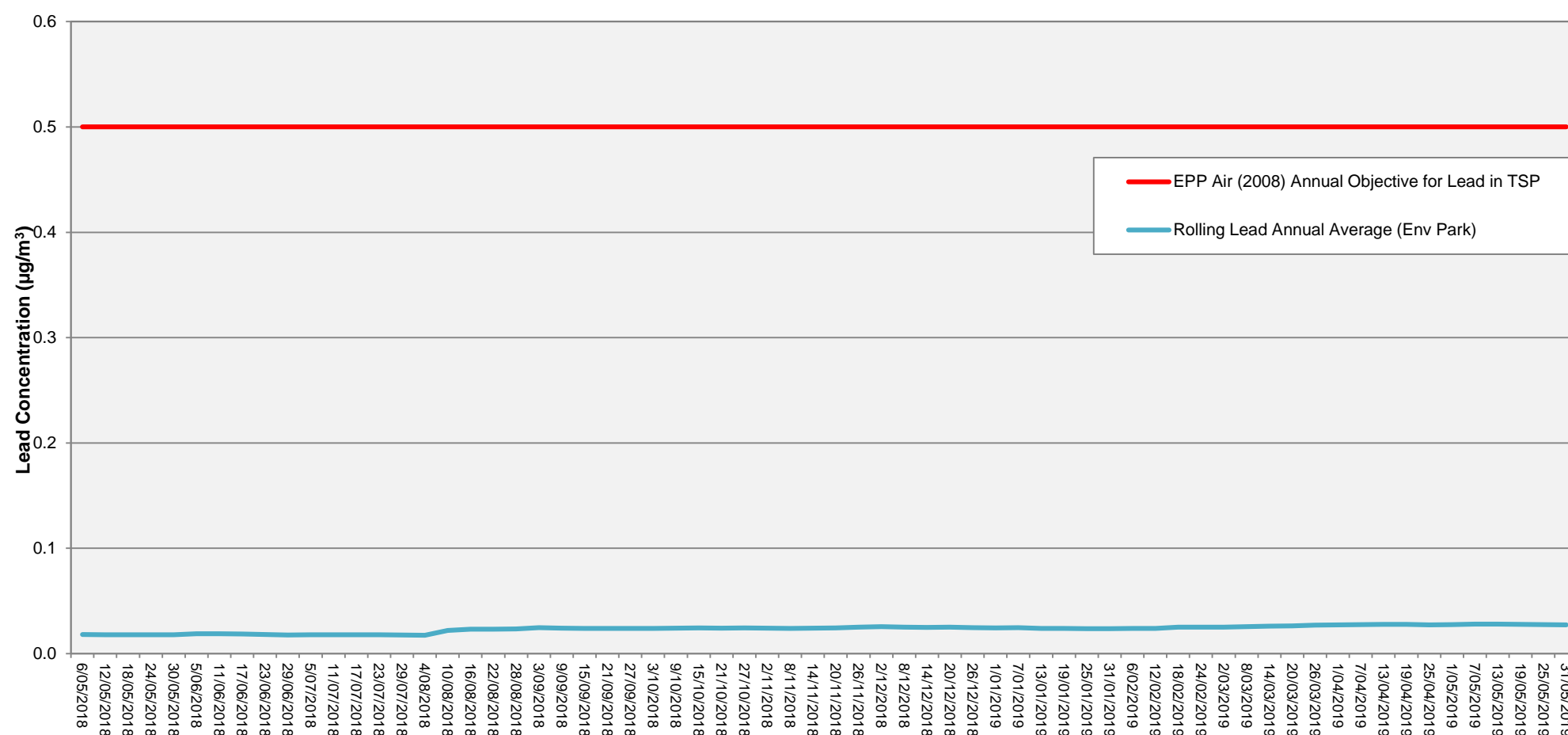
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site MAY 2018 – MAY 2019



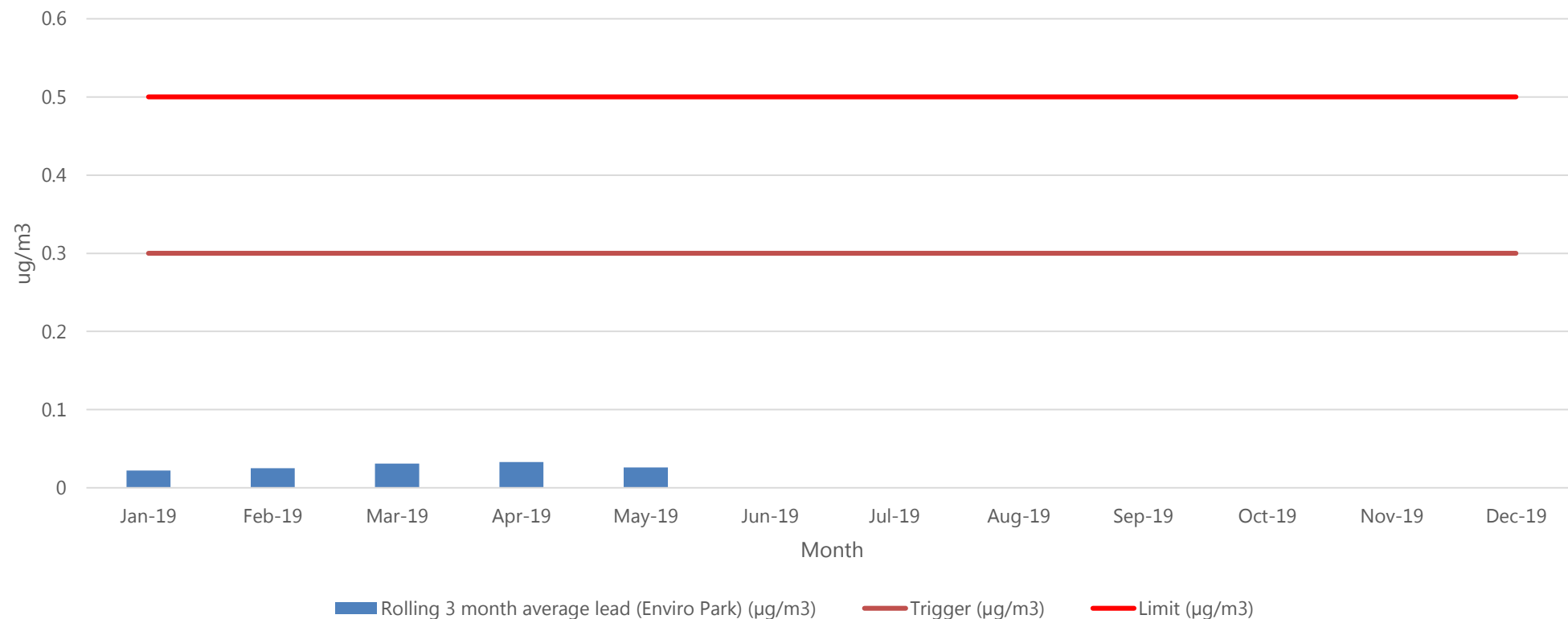
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
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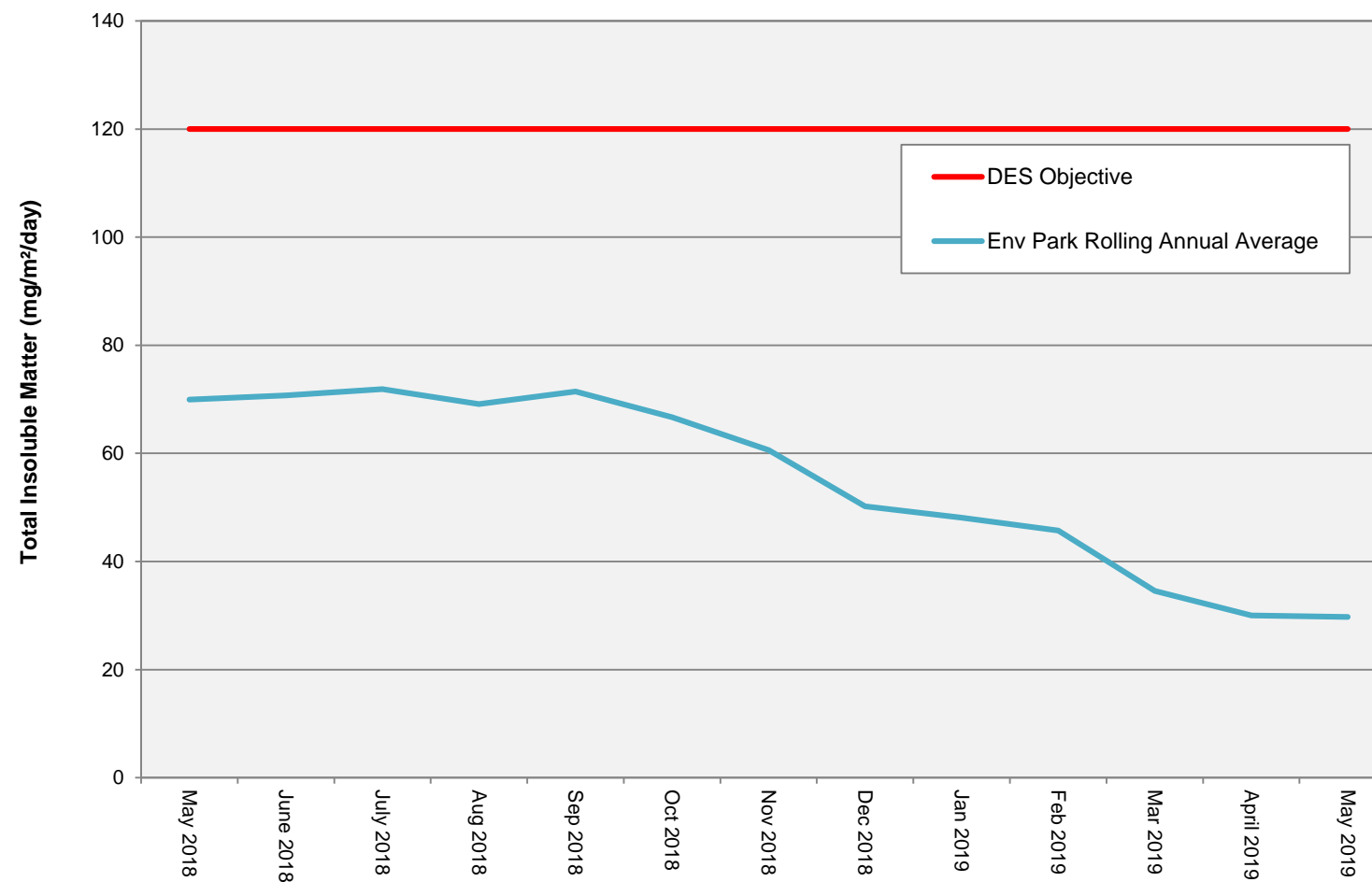
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Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2019



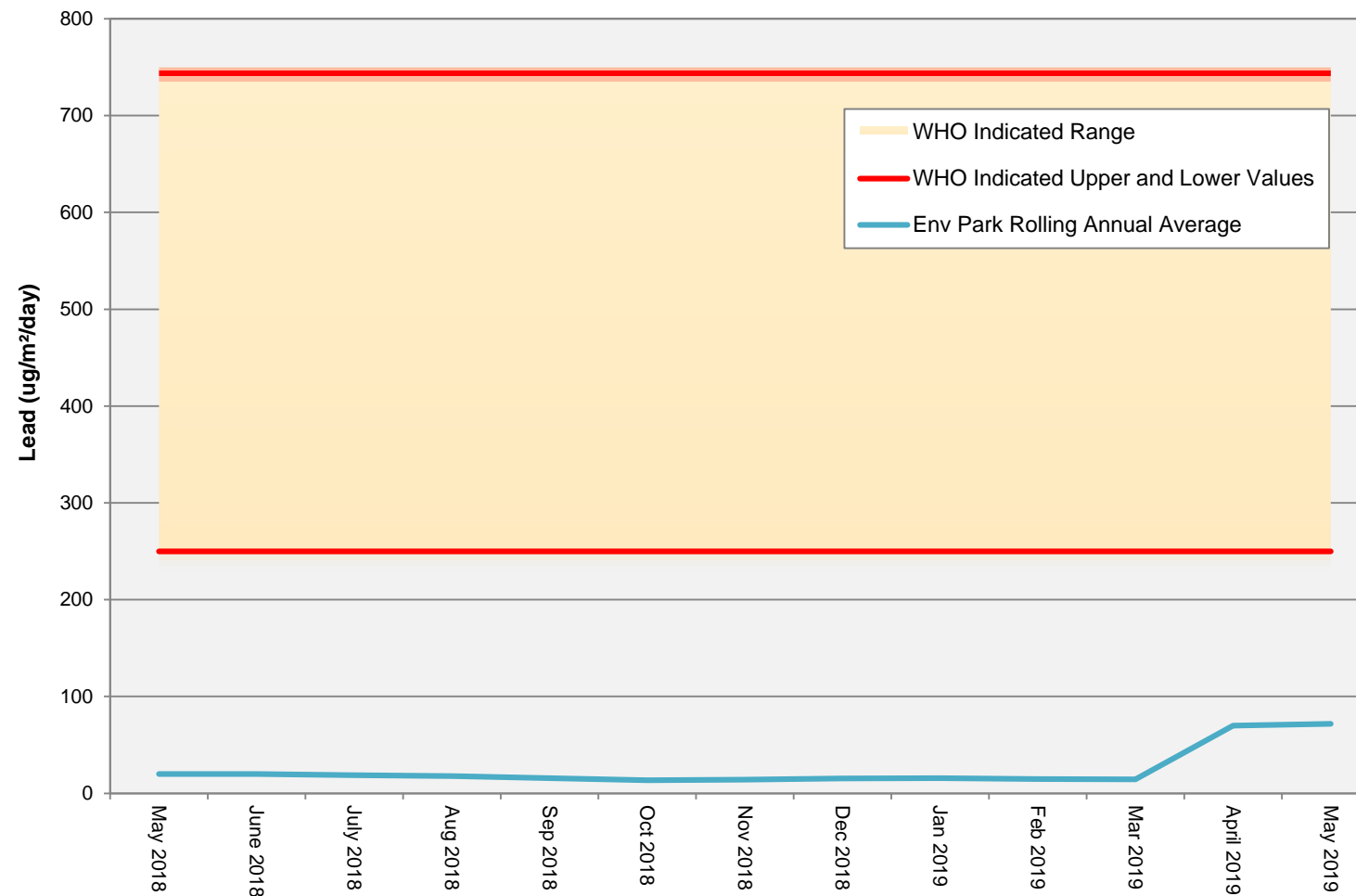
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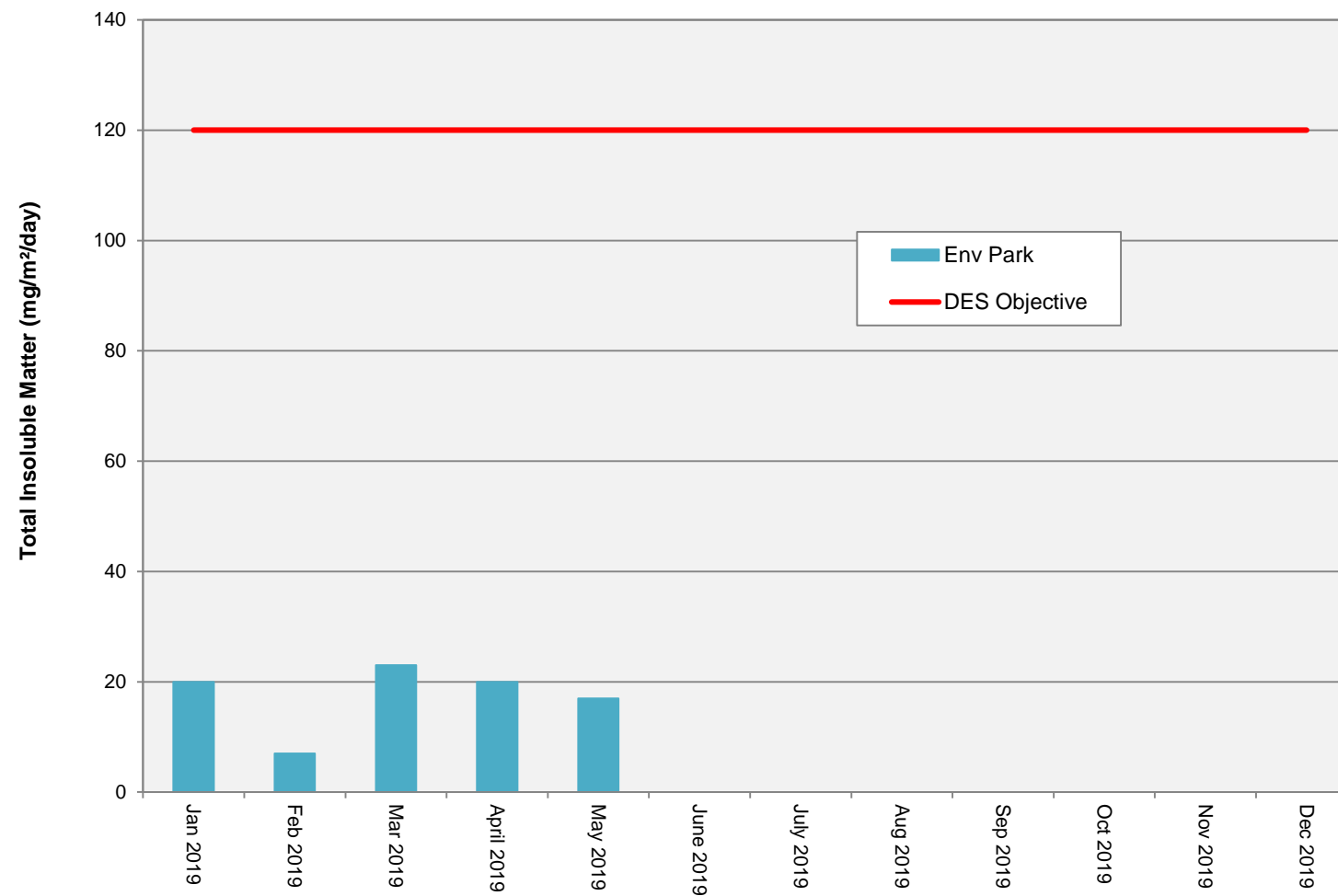
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site MAY 2018– MAY 2019



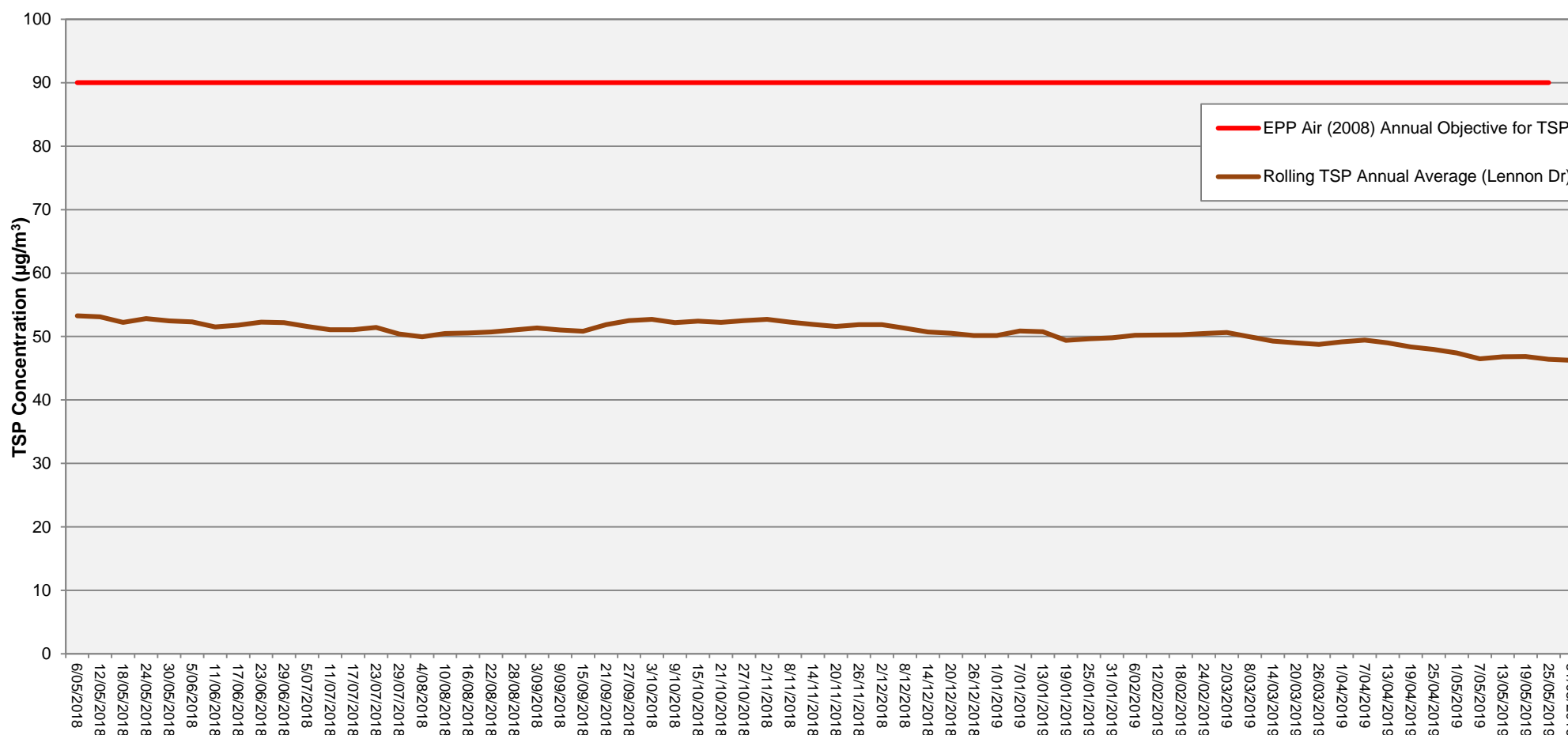
Note: Lead Concentration units = micrograms per square metre per day
 Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2019



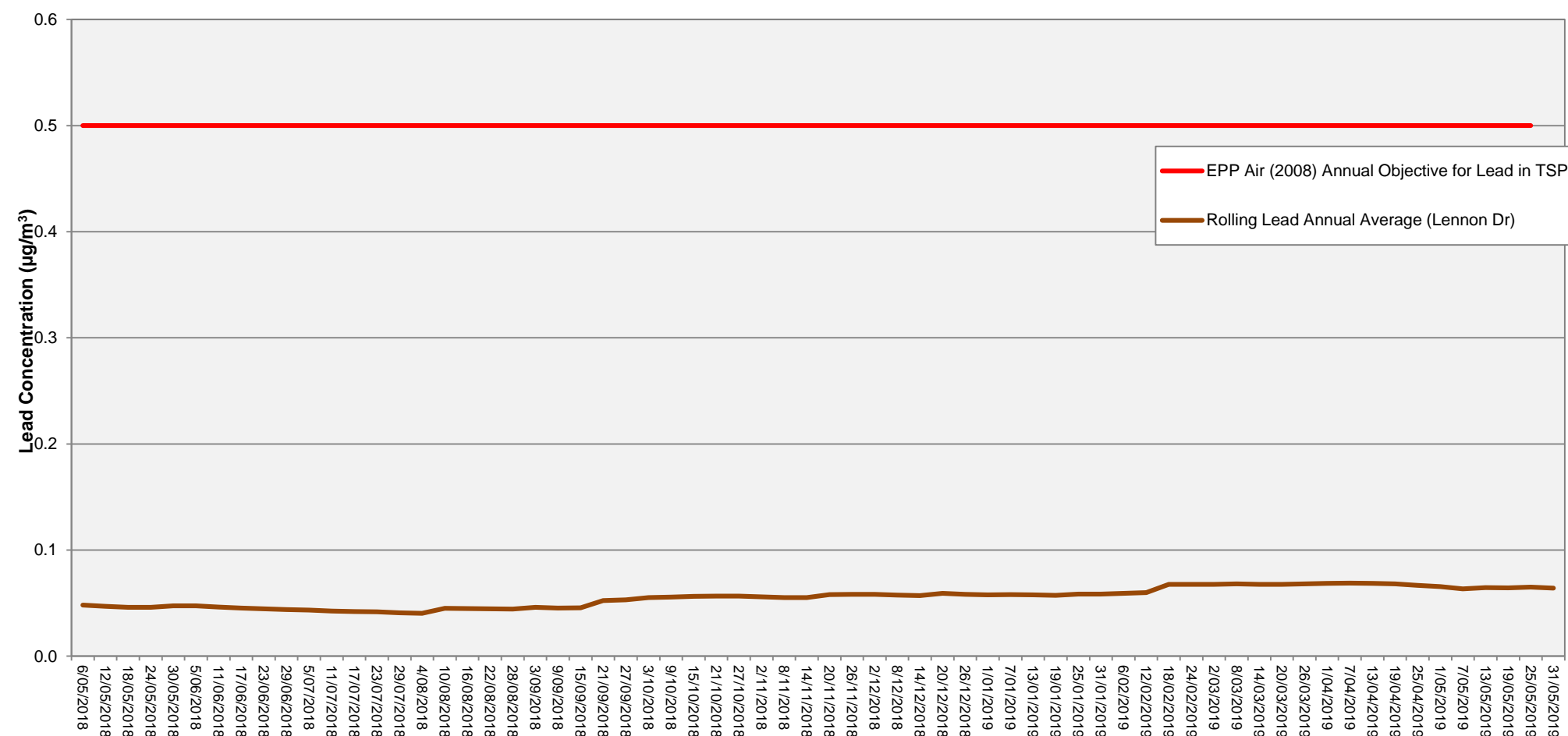
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

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



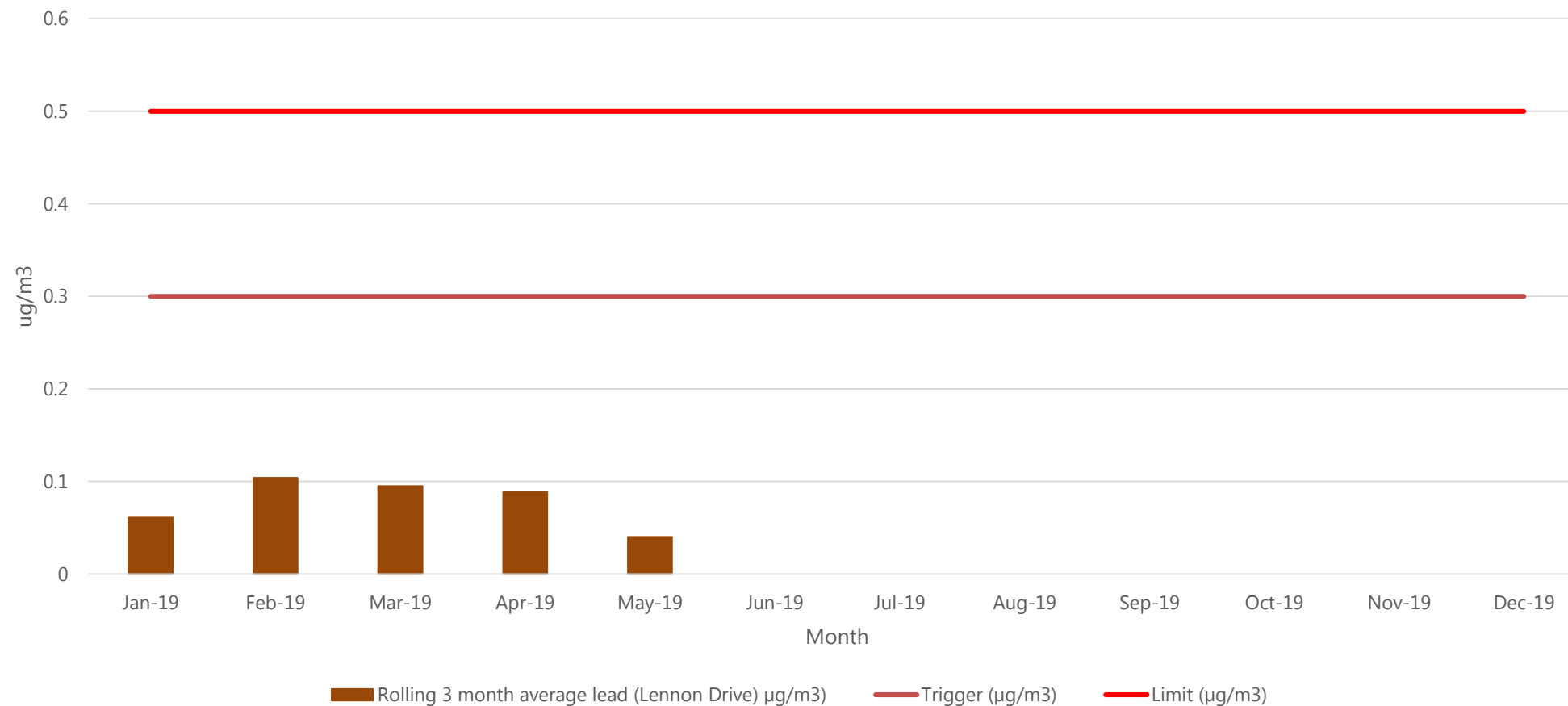
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



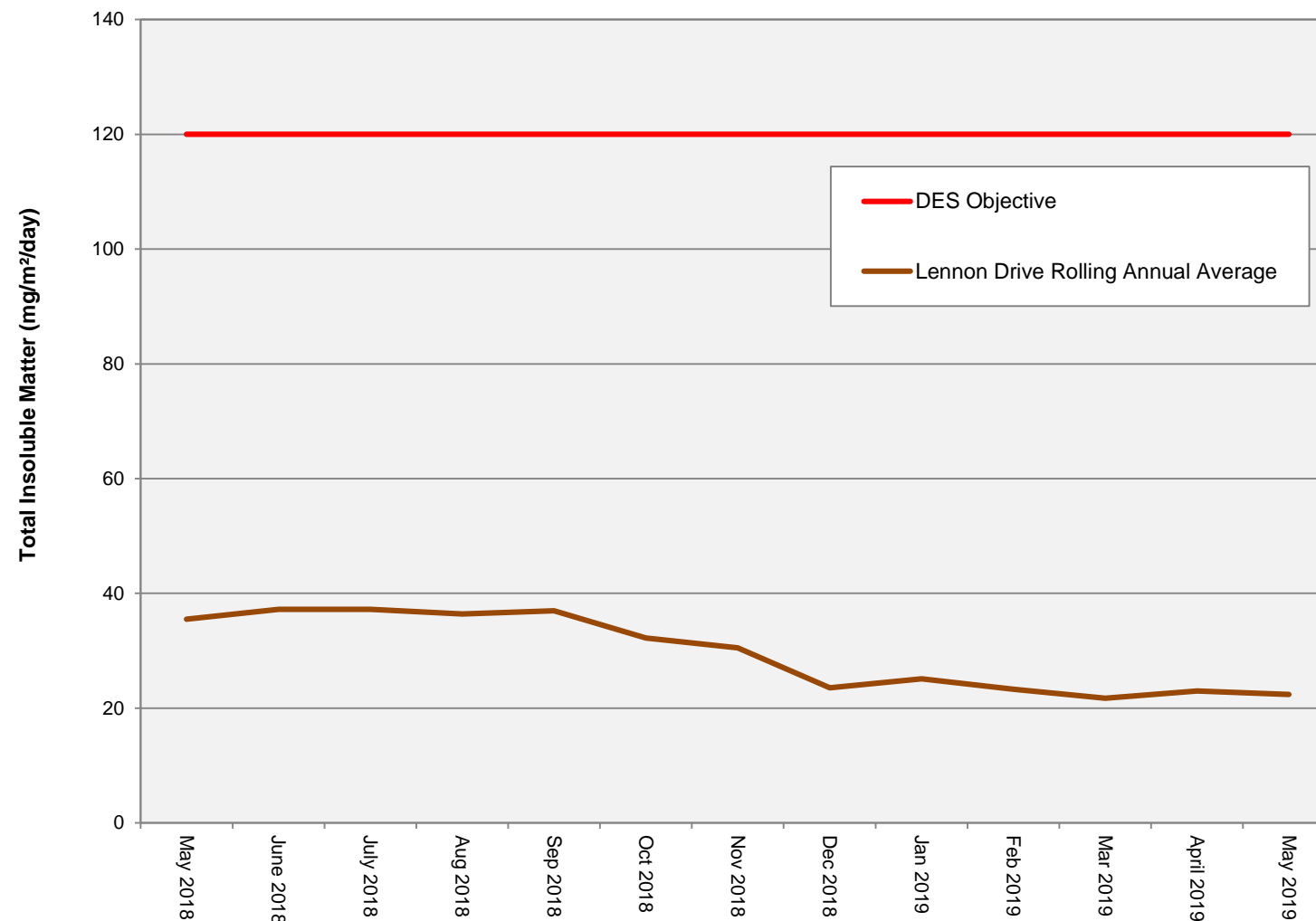
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

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



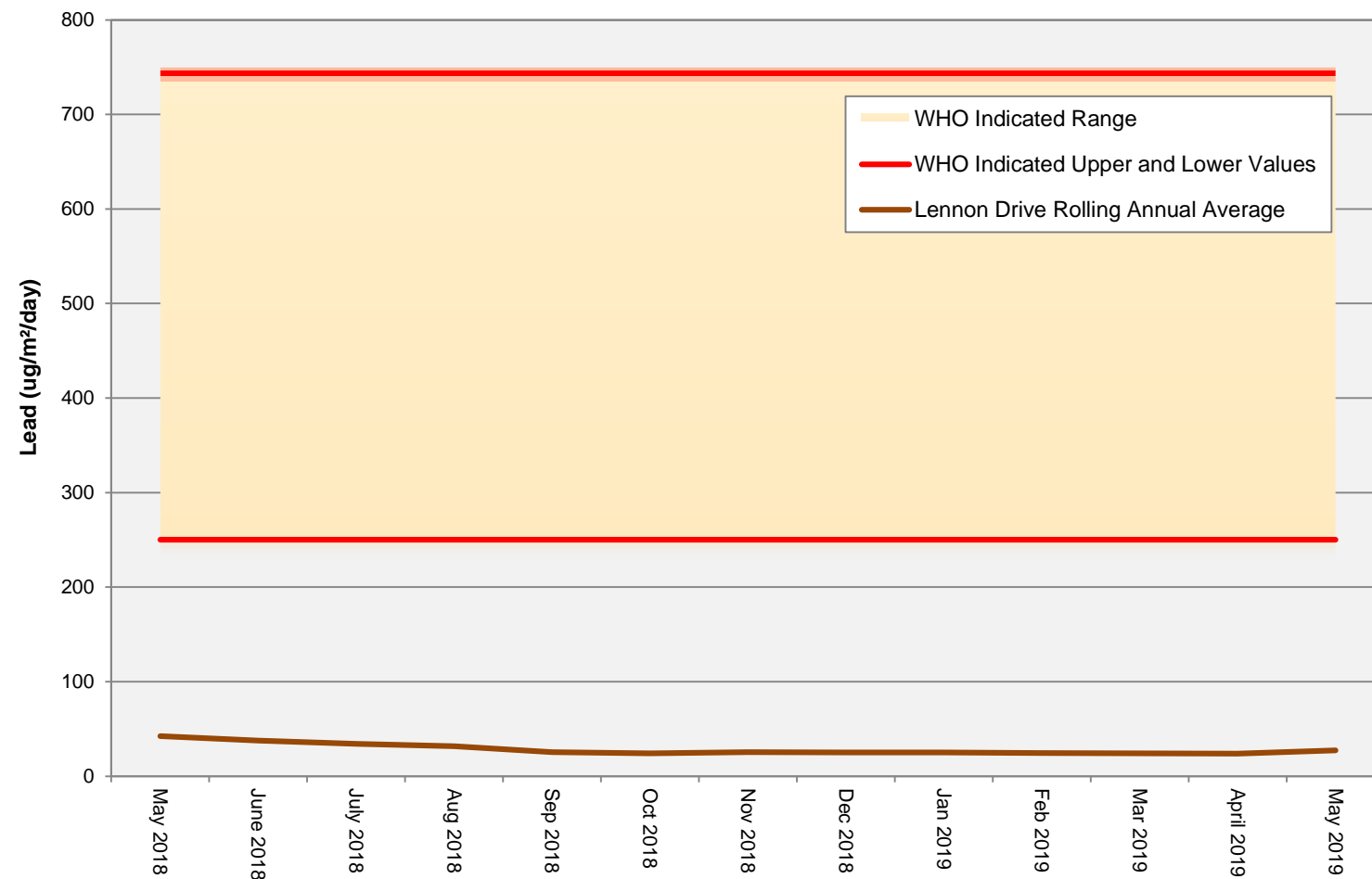
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site MAY 2018– MAY 2019



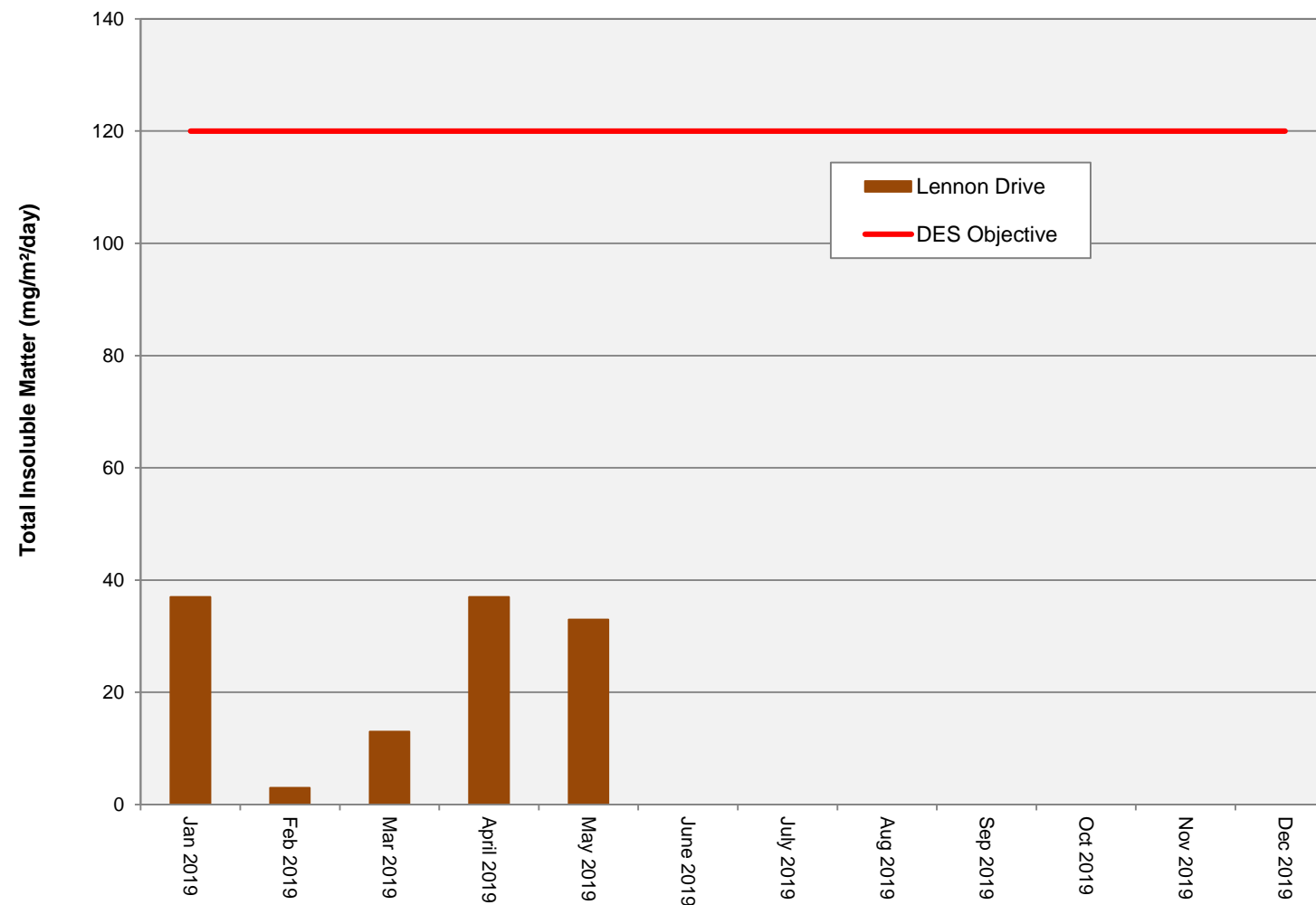
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site MAY 2018– MAY 2019



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



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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.