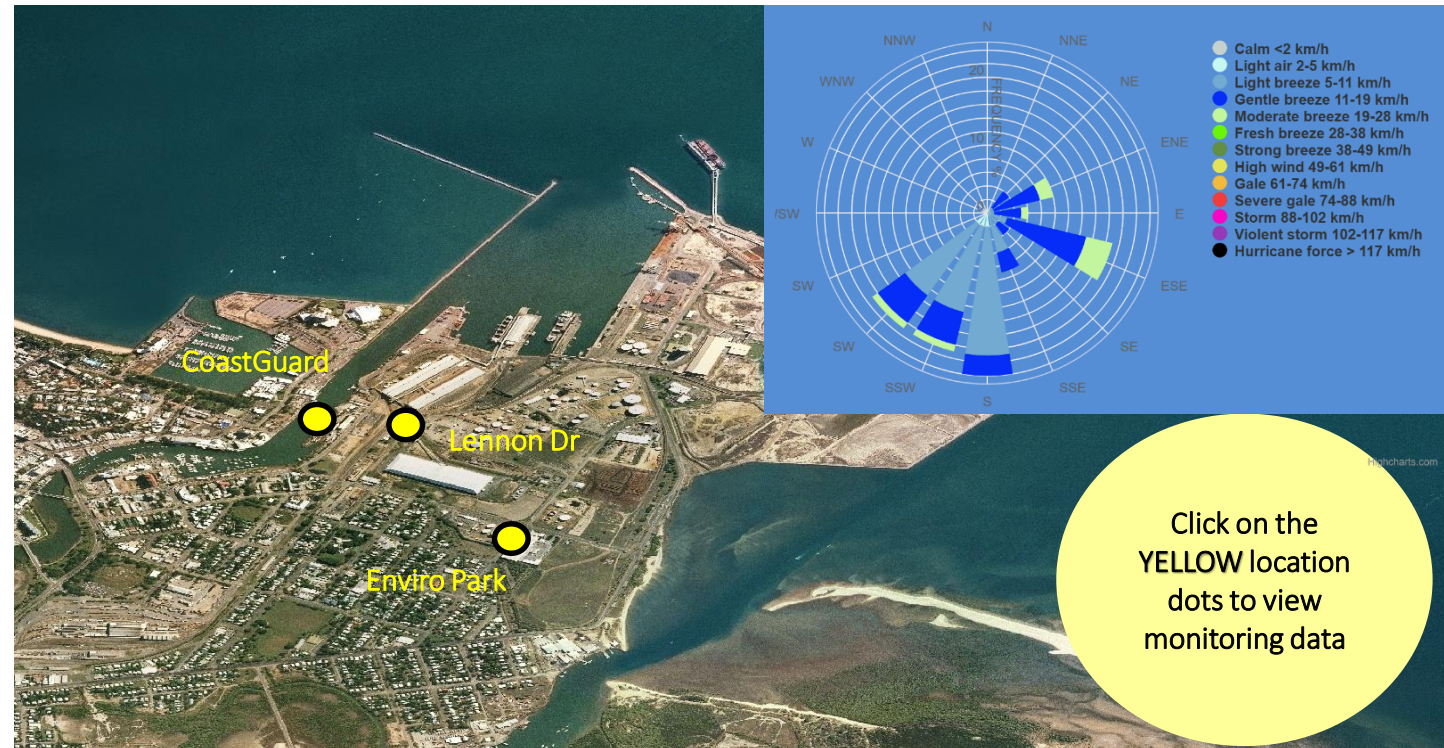


# SHIPPING MOVEMENT

Date In/Out	Vessel Name	Berths	Cargo
1-2	HEEMSKERKGRACHT	3	Lead Concentrates
1-4	ANITA N	8,3	Lead Ingots
1-2	TEATRALNY BRIDGE	1	Fuels
1-3	KING CORN	9	Sugar
2-3	STI RUBY	1	Fuels
2-4	KOTA NAGA	4	Containers
3-4	DAREEN	10	Cattle, Fodder
3-4	PALANCA MUSCAT	1	Bitumen
5-5	INSIGNIA	10	NIL
5-6	PERSEVERANCE	3	Scrap
5-7	GOLDEN UNITY	1	Sulphuric Acid
7-7	GANADO EXPRESS	4	Cattle, Fodder
8-8	PACIFIC ARIA	10	Passenger Vessel
9-9	CASSIOPEIA LEADER	10	Motor Vehicles
9-9	AMBER ARROW	3	Motor Vehicles
10-10	PLUTO LEADER	10	Motor Vehicles
11-11	OSLO BULK 1	8	Fertilizer
13-13	GRAND CHAMPION	3	Motor Vehicles
13-15	HTK PHOENIX	9	Sugar
14-15	LEO OCEAN	LA/L1	Sugar
14-15	BRITISH ENGINEER	1	Fuels
14-16	THERESA MICRONESIA	8	Molasses
15-16	QUEEN ESTHER	3	Containers
15-17	GOLDEN NEXUS	1	Sulphuric Acid
16-17	GREYMAN EXPRESS	3	Cattle, Fodder
16-19	PACIFIC NOBLE	3	Concentrates
16-17	STOLT TSUBAKI	8	Tallow
16-19	CAPRI CEMENT	4	Cement
17-19	NORSTAR INTEGRITY	1	Fuels
18-20	KYOWA HIBISCUS	3	Tyres, break bulk
19-19	FILIA ARIEA	3	Containers
20-22	KOTA NIPAH	4	Containers
20-22	BRIGHT DAWN	1	Fuels
21-22	AEGEAN HIGHWAY	3	Motor Vehicles
22-25	KAPETAN NONDAS	A/A/A	Zinc Ferrites
22-23	VITA N	3	Containers
22-27	TEAM HOPE	11,8,3	Concentrates
24-26	HELVETIA	4	Copper Concentrates
24-28	DIANA	10	Zinc Ferrites
25-25	GILUWE	3	Machinery
25-27	KING CORN	8	Copper Concentrates
26-26	CENTAURUS LEADER	9	Motor Vehicles
26-28	KOTA NASRAT	4	Containers
27-31	ITHACA STOCKHOLM	8,11	Copper Concentrates

## Townsville Port | Air Quality Dashboard | MAY 2018

### 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

Create a monthly data Dashboard

Air Quality Bulletin

Live Shipping Schedule

Rainfall Data - BOM

Air Quality Monitoring Plan

## AIR QUALITY MONITORING IN TOWNSVILLE

Air Quality Monitoring in Townsville is conducted separately by both the Department of Environment and Heritage Protection (DEHP), and Port of Townsville Limited.

Click here to visit DEHP's  
monitoring network

Click here to visit the Port of  
Townsville's monitoring  
network

## 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 – expecting 19 vessel visits in 2018.

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.

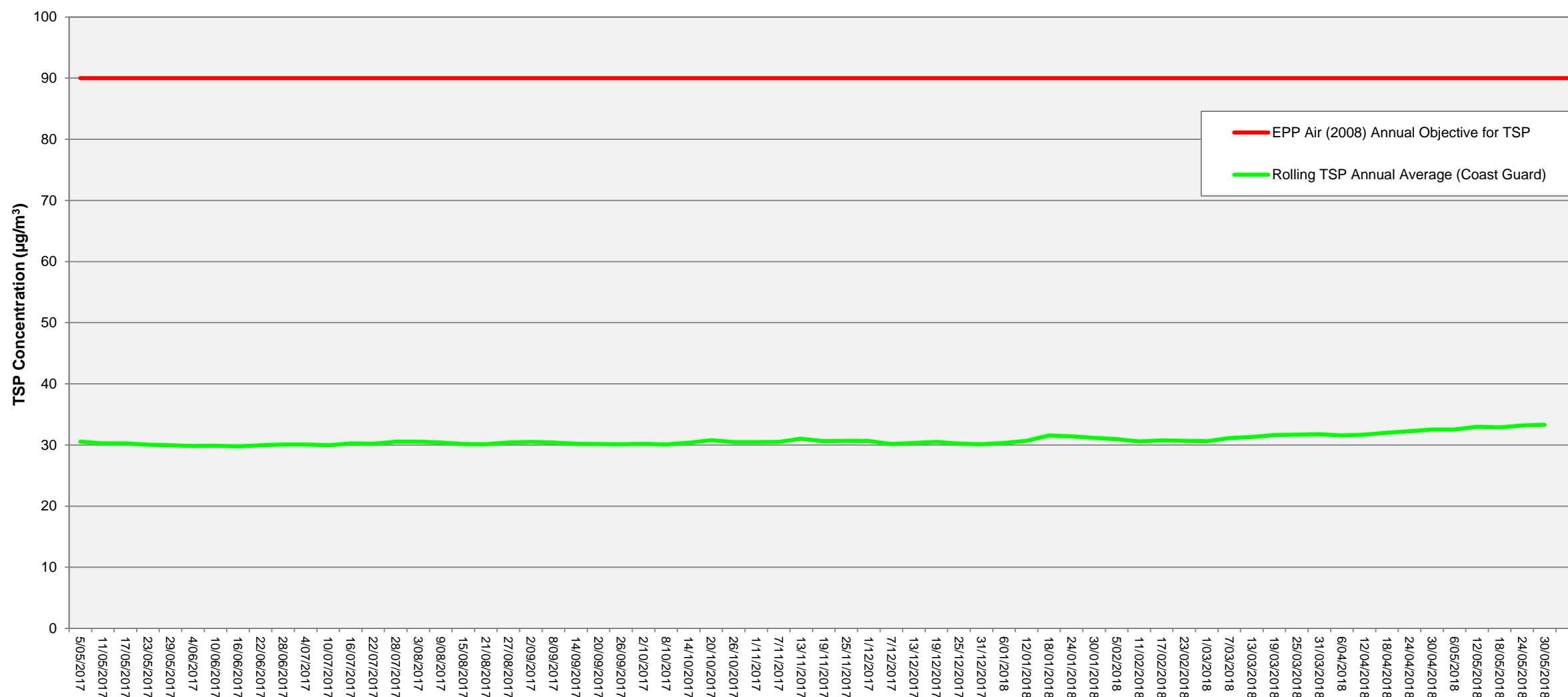
OR

Phone 07 4781 1551 and asked to be added to the list.

## Ask a Question / Provide Feedback

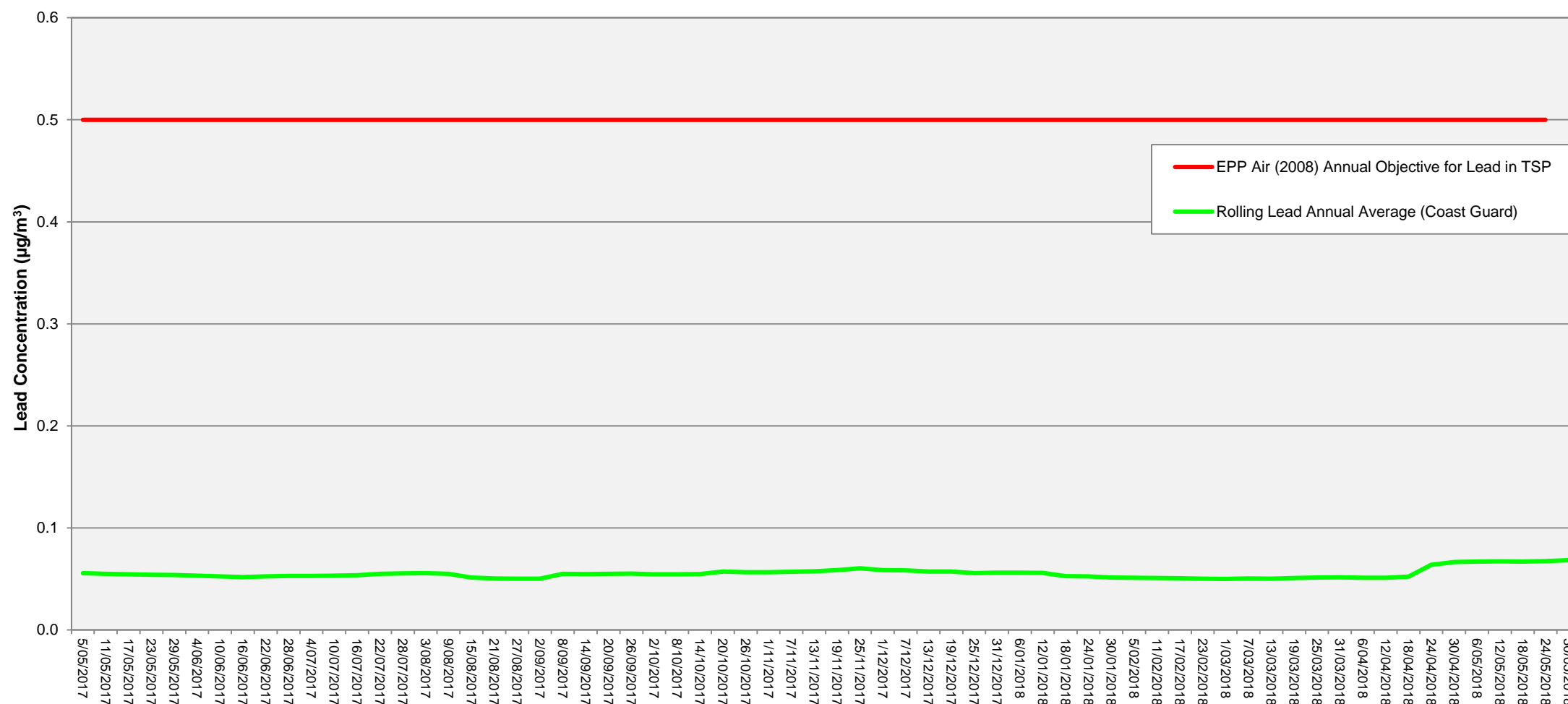
Send your enquiry or feedback to [community@townsvilleport.com.au](mailto:community@townsvilleport.com.au)

## Hi-Volume Sampler - General total dust levels (one in six days) at Coast Guard Site MAY 2017 – MAY 2018



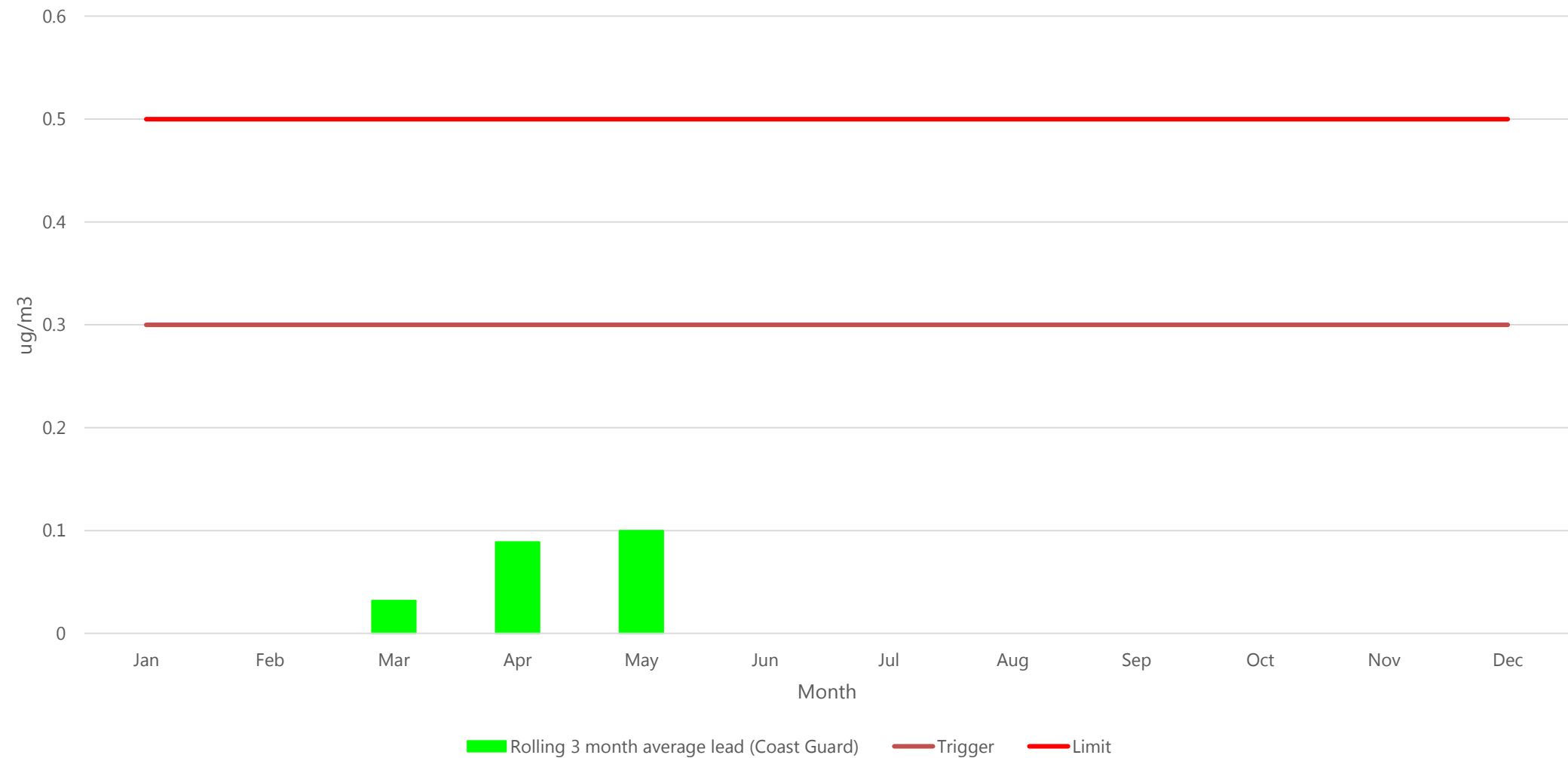
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site MAY 2017 – MAY 2018



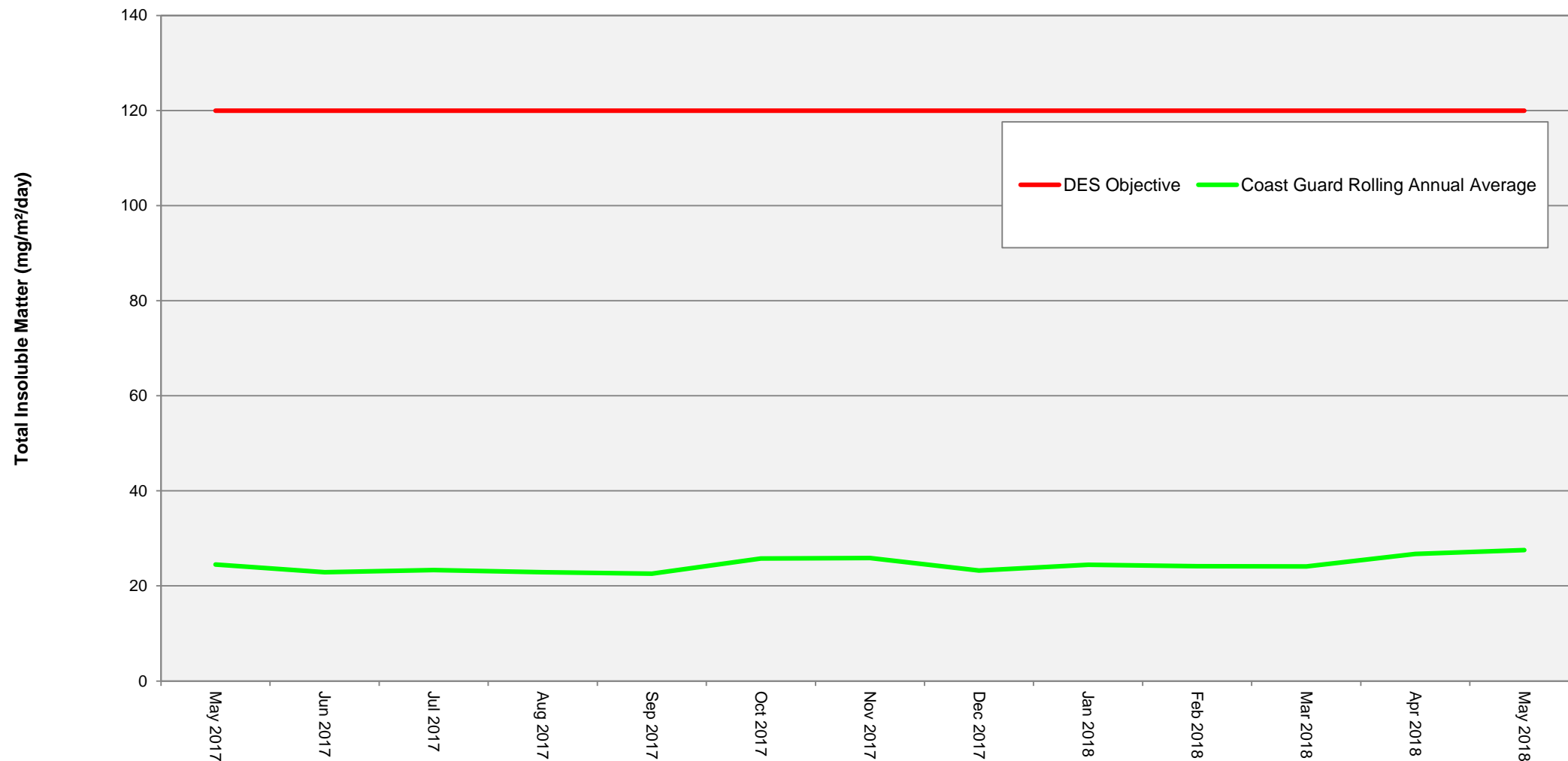
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

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



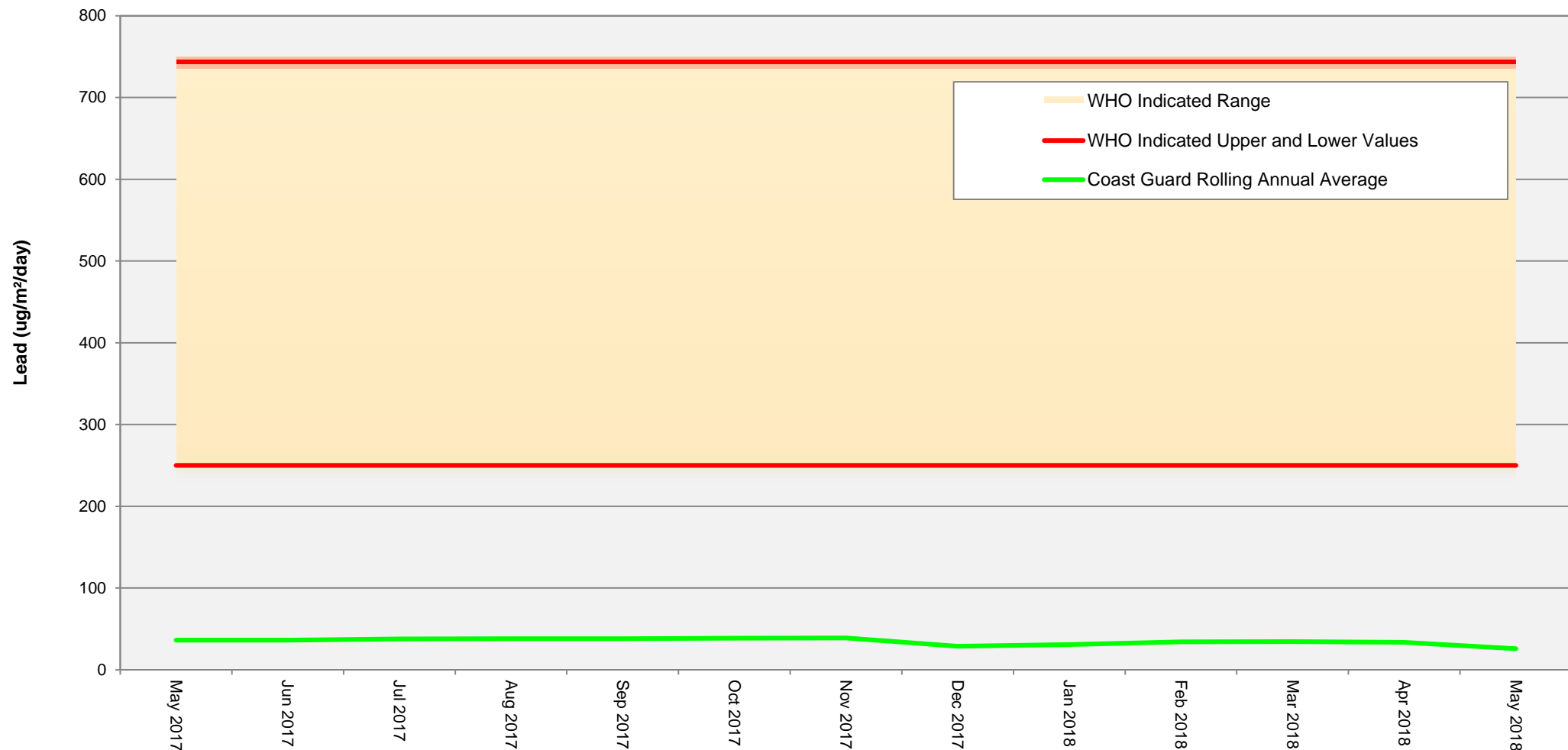
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

## Dust Deposition Gauge - General dust deposition levels (monthly) at Coast Guard Site MAY 2017 – MAY 2018



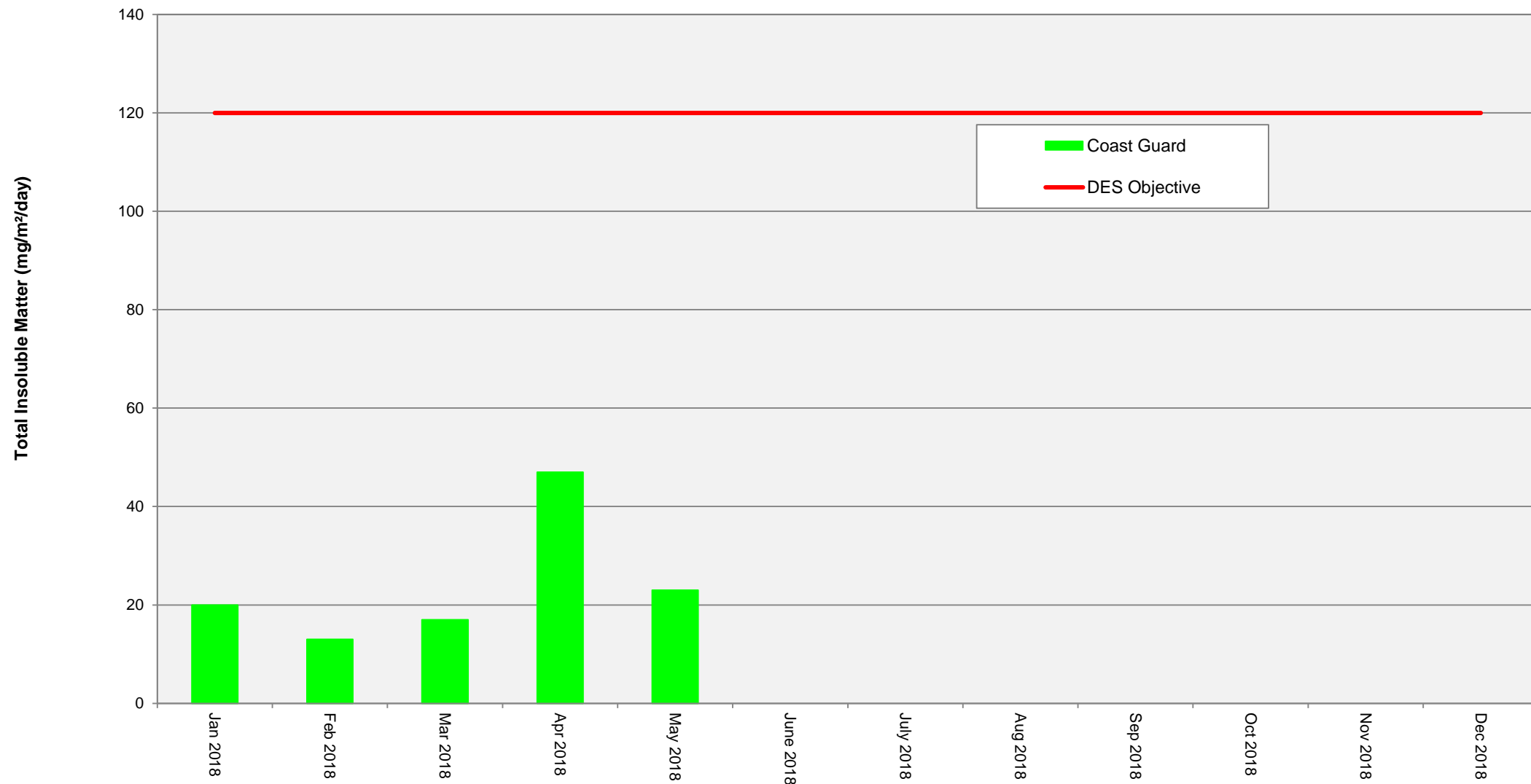
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
 Rolling annual average = the moving average of the previous 11 results and the current result

## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site MAY 2017 – MAY 2018



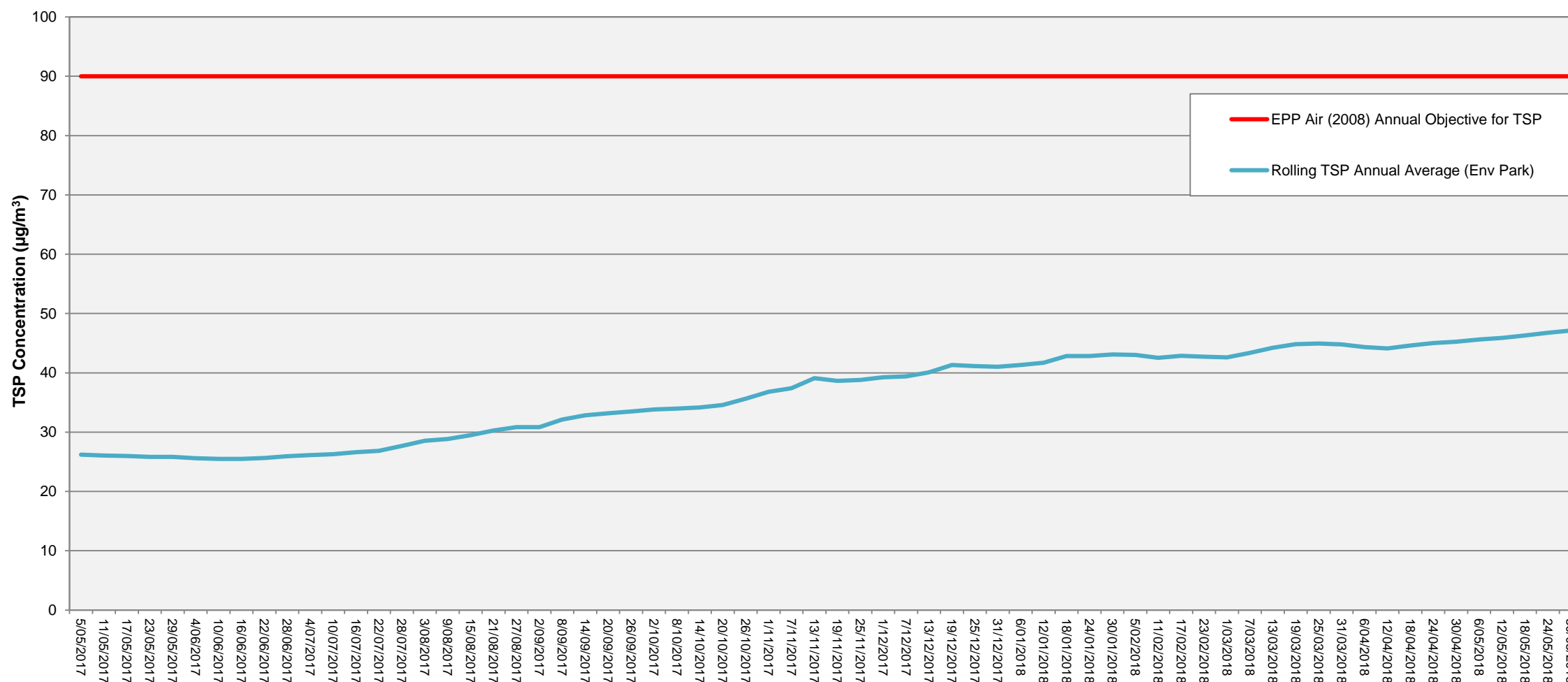
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 Rolling annual average = the moving average of the previous 11 results and the current result.

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

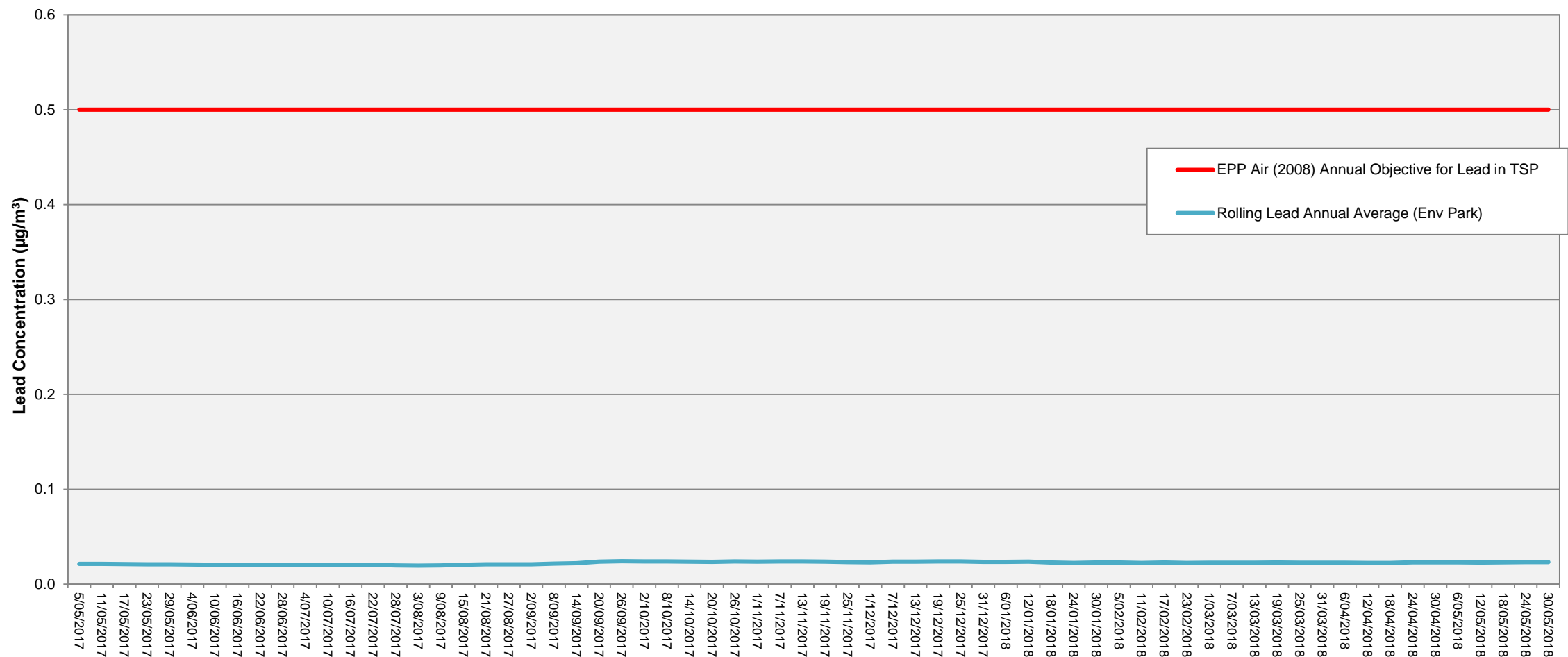


Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

## Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site MAY 2017 – MAY 2018

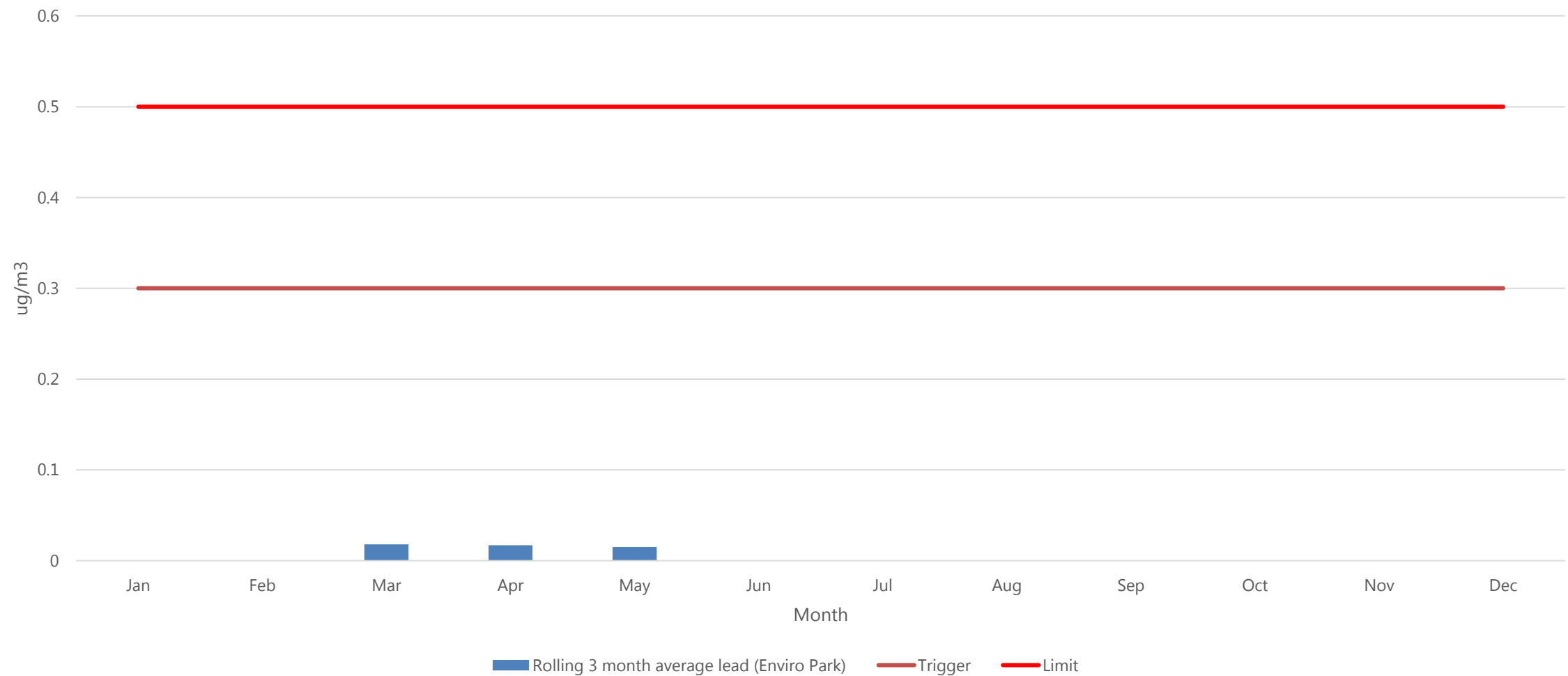


## Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site MAY 2017 – MAY 2018



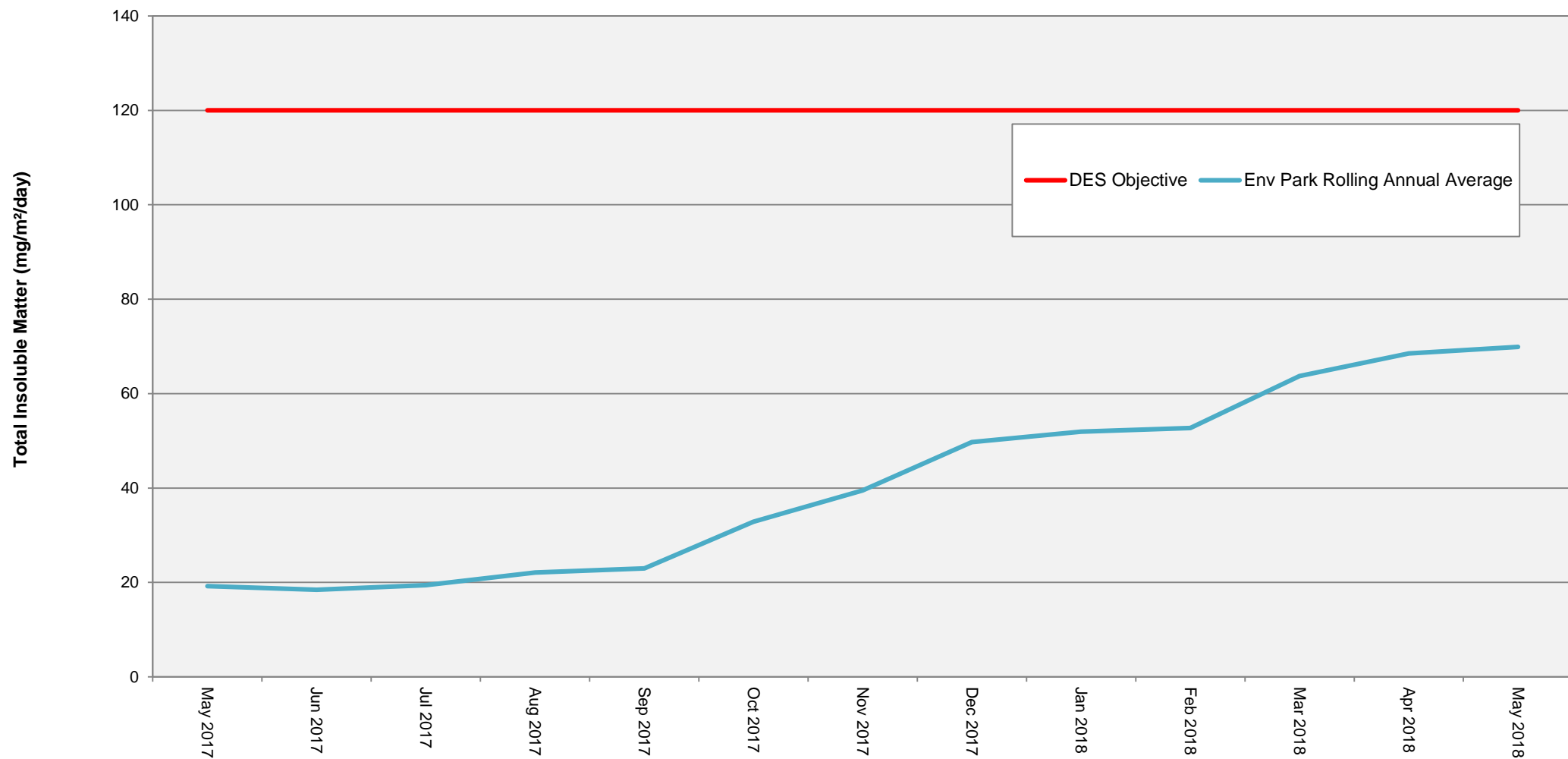
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site JANUARY 2018 – MAY 2018



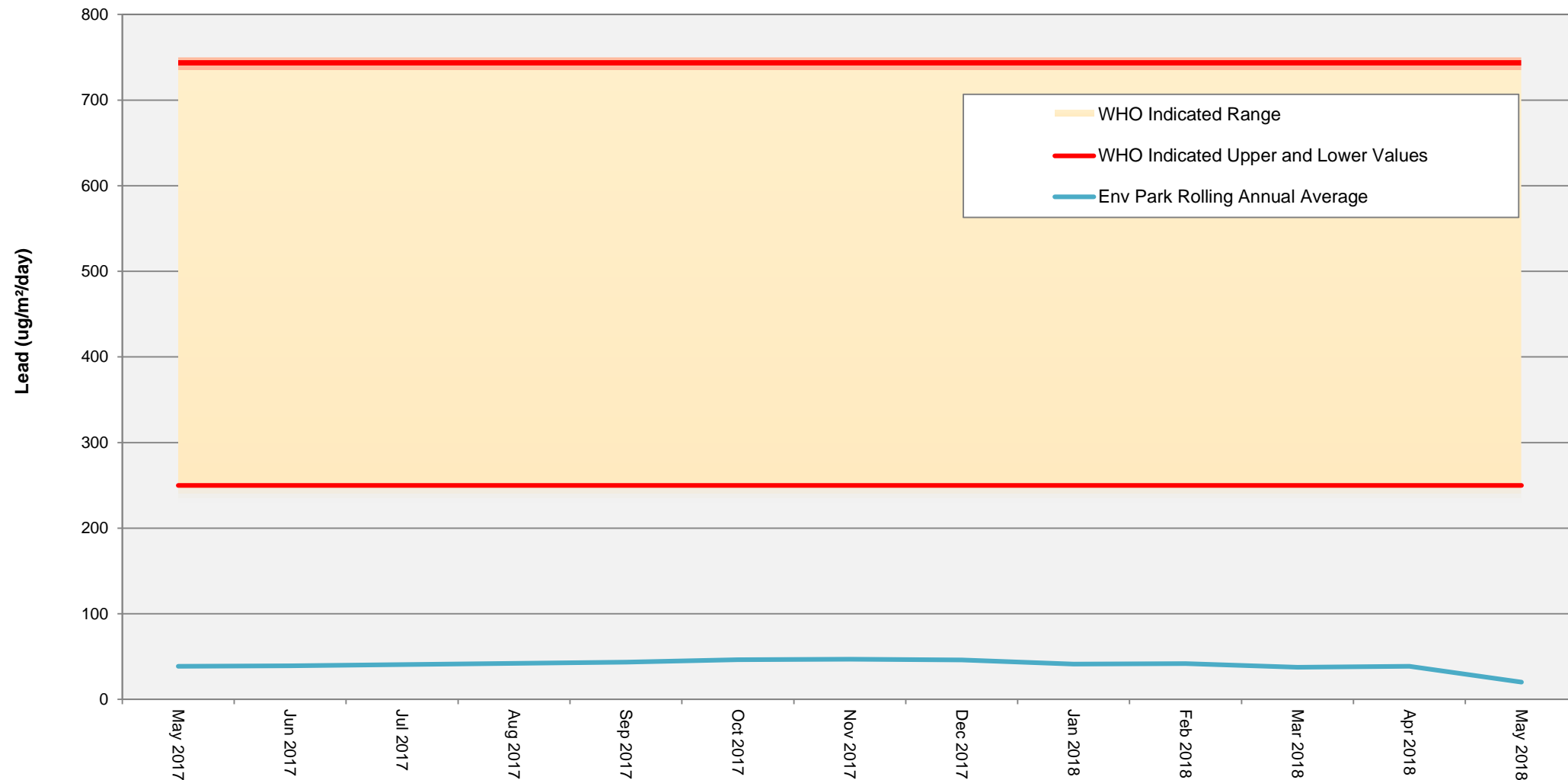
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

## Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site MAY 2017 – MAY 2018



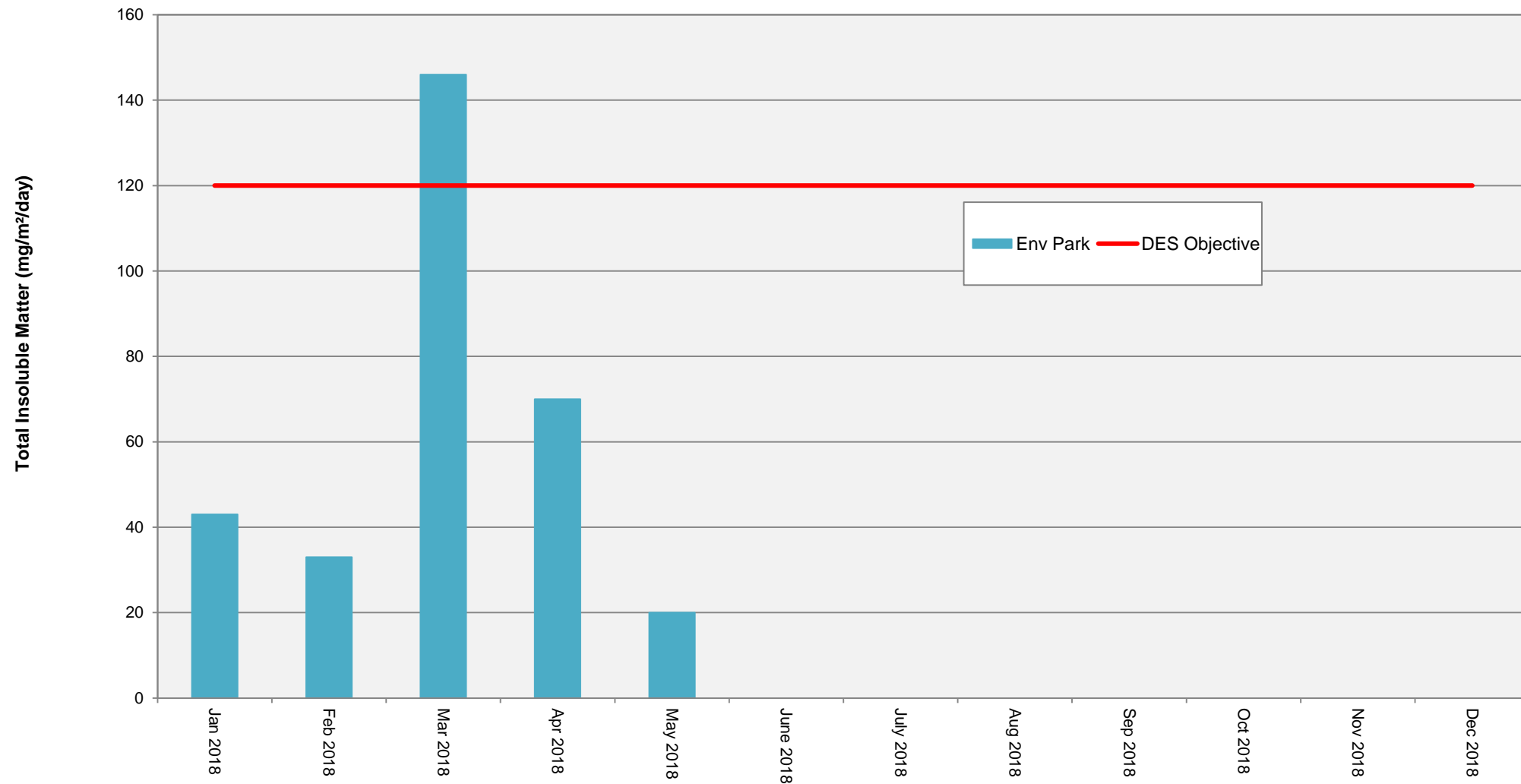
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
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## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site MAY 2017 – MAY 2018



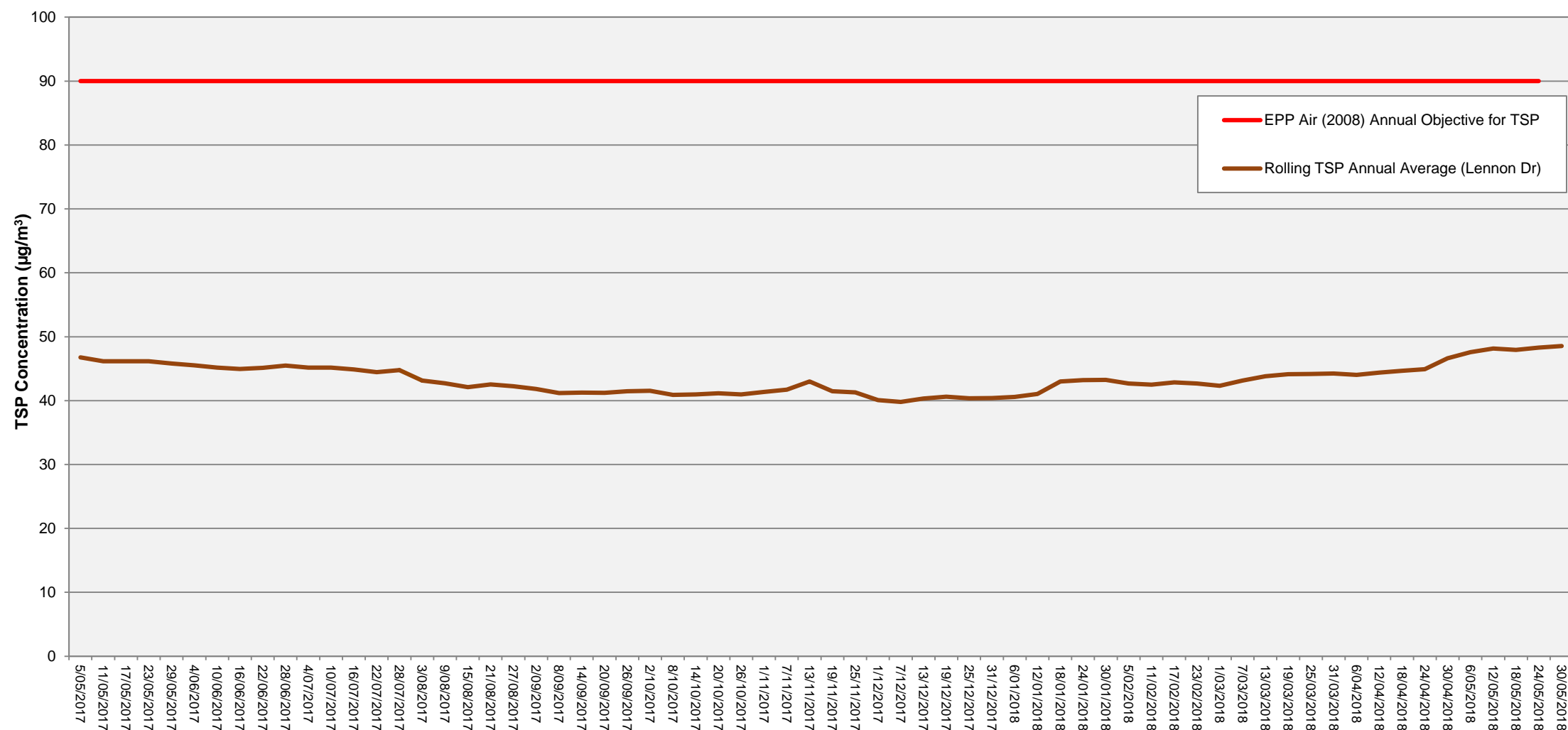
Note: Lead Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result

## Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2018



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 2017 – MAY 2018

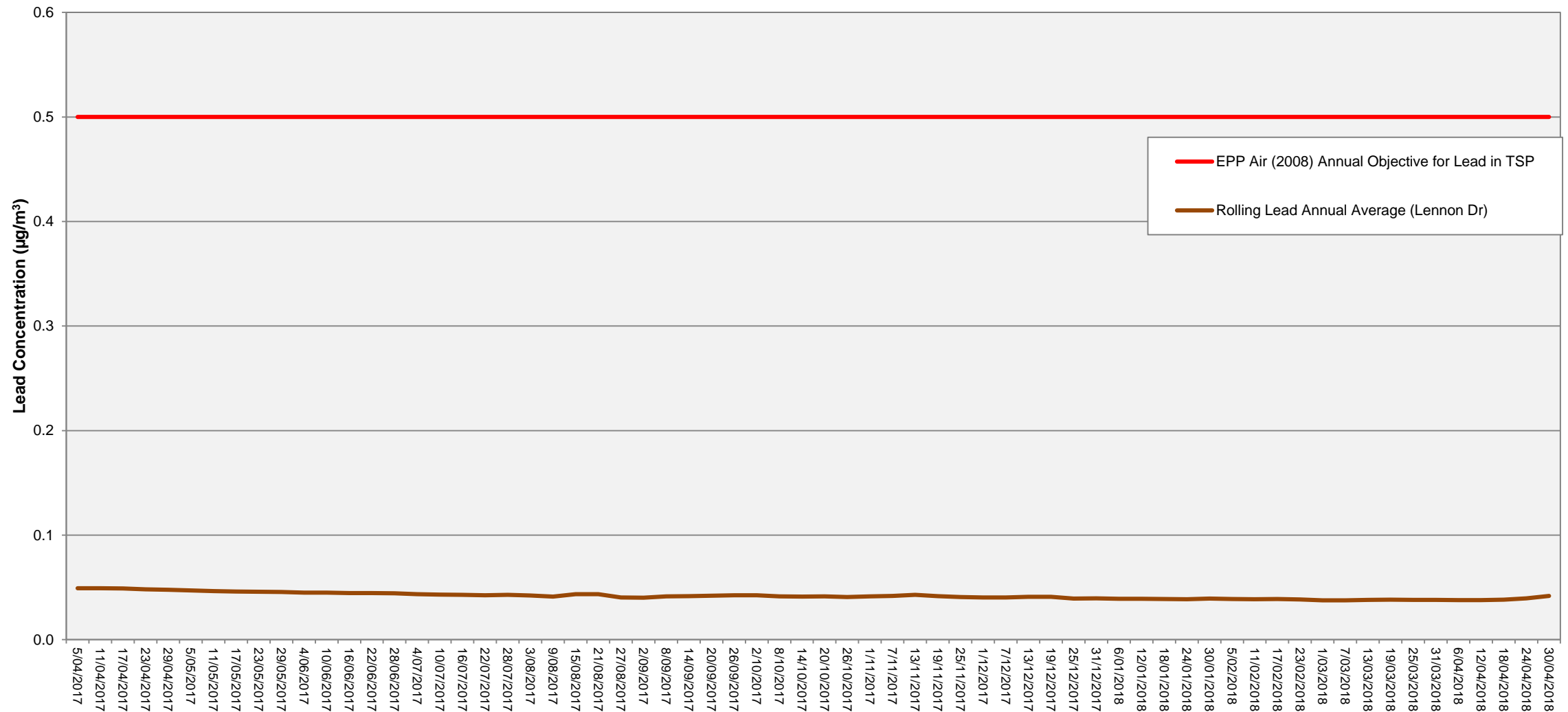


Note:

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

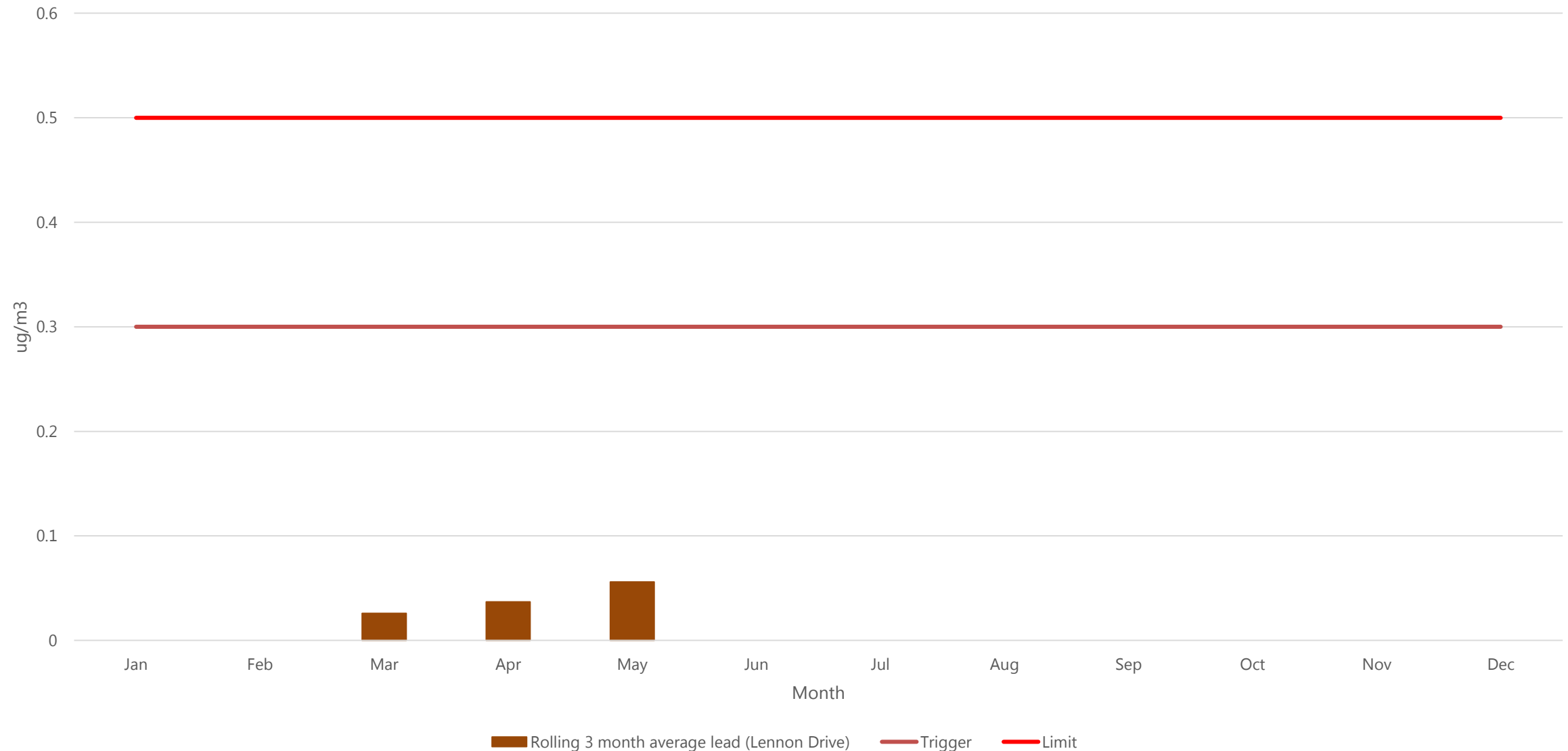
Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site MAY 2017 – MAY 2018



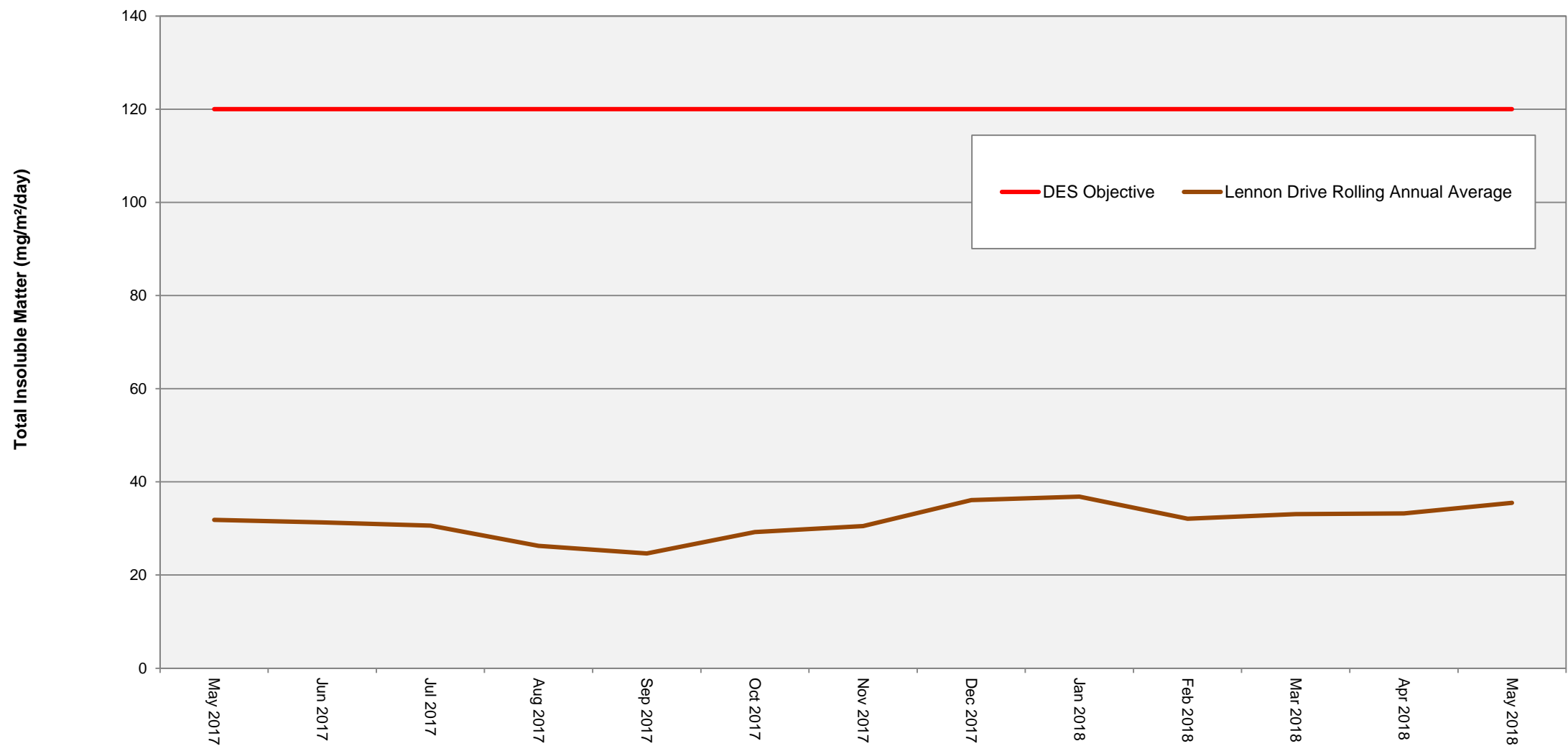
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

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



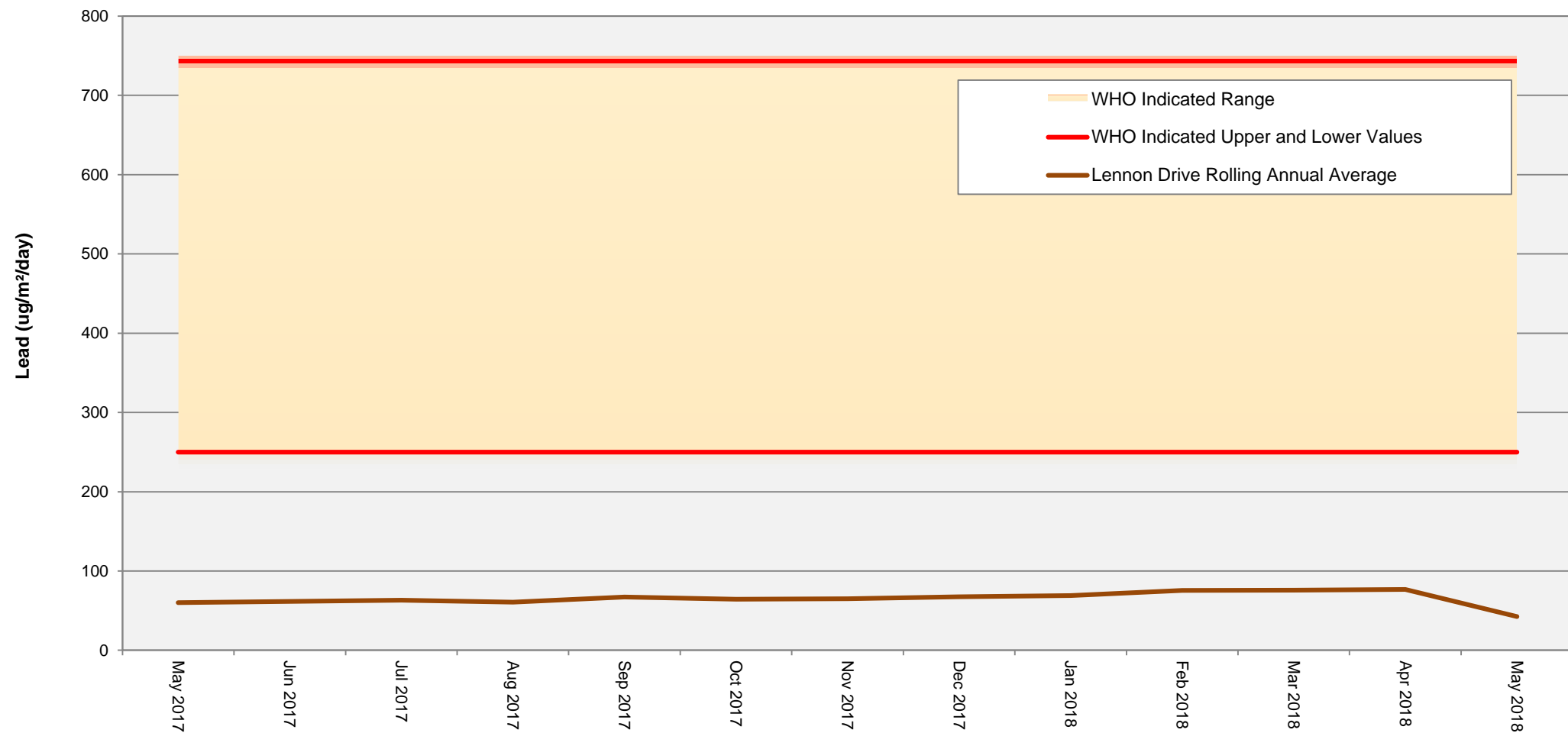
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

## Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site MAY 2017 – MAY 2018



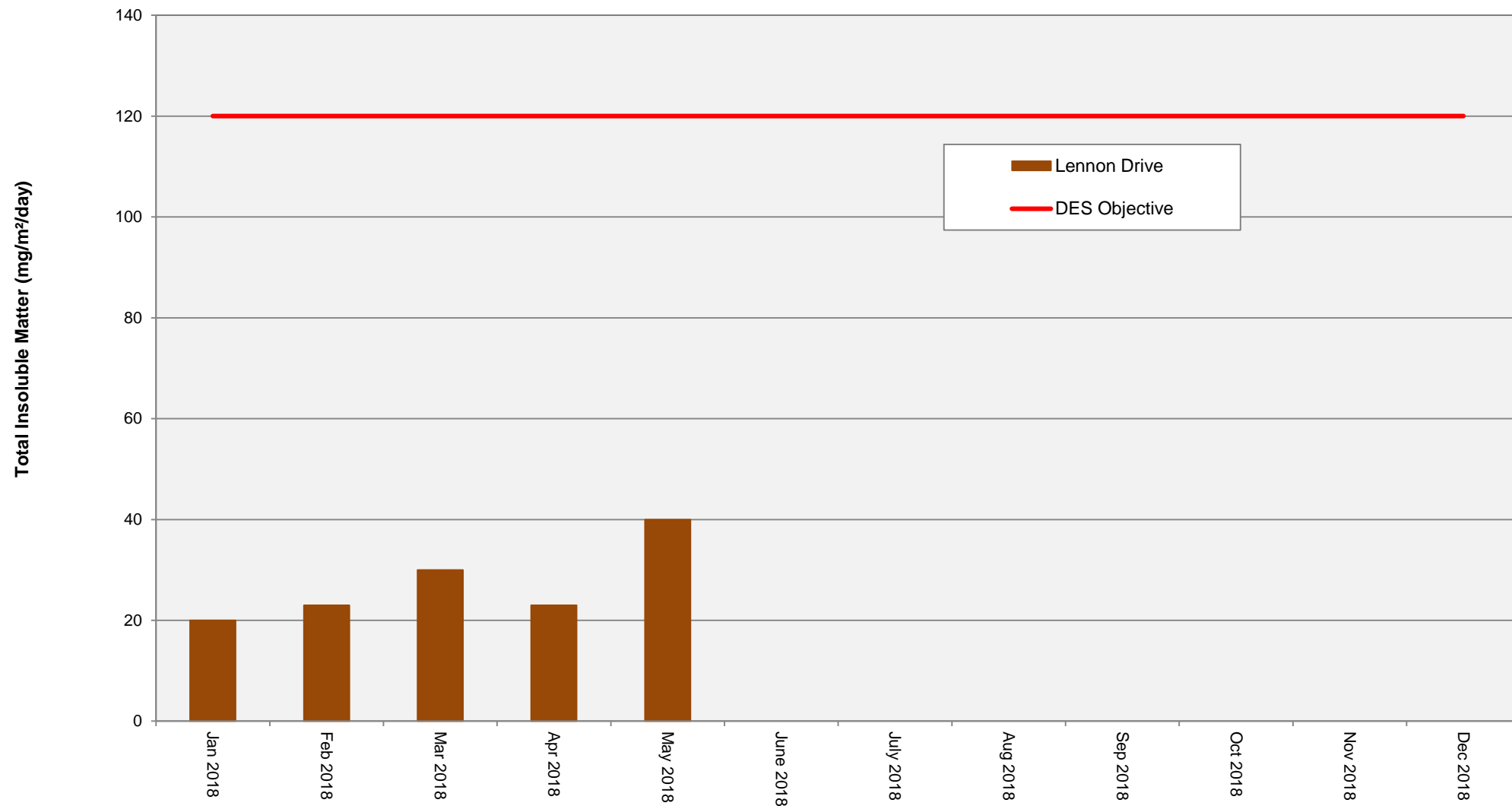
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day  
Rolling annual average = the moving average of the previous 11 results and the current result

## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site MAY 2017 – MAY 2018



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 Lennon Drive Site 2018



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

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.