SC DEPARTMENT of ENVIRONMENTAL SERVICES

Fact Sheet

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Calculating 12-Month Rolling Sums

A Bureau of Air Quality (BAQ) permit may require a facility to track emissions, materials usage, hourly operations, etc. on a "12-month rolling sum" basis.

What is a 12-month rolling sum?

The 12-month rolling sum is the total of the last 12 months of data, which updates as each new month passes. The result is a 12-month sum that has "rolled" forward to the new month. There would never be two of the same month in the reporting period.

For example, to get the 12-month rolling sum for January 2024, take the 12-month total ending in December 2023, add January 2024 data, and subtract January 2023 data.

Tons of volatile organic compounds (VOC) emitted by month

	2023												2024		
Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Tons	2	4	3	2	4	1	3	2	4	2	4	3	4	3	1

12-month rolling sum for January 2023 to December 2023 = 34 tons VOC

2 + 4 + 3 + 2 + 4 + 1 + 3 + 2 + 4 + 2 +4 = **34 tons VOC**

Reporting period of February 2023 to January 2024 = 36 tons VOC

12-month rolling sum December 2023 + January 2024 tons per month – January 2023 tons per month

34 + 4 – 2 = **36 tons VOC**

Reporting period of March 2023 to February 2024 = 35 tons VOC

12-month rolling sum January 2024 + February 2024 tons per month – February 2023 tons per month

36 + 3 – 4 = **35 tons VOC**

Permitting requirements

The 12-month rolling sum shall be calculated each month. Emissions from malfunctions, exempt equipment for minor sources, and insignificant activities from major sources are required to be quantified and included in the calculations.