Comment on acp-2021-1026
Anonymous Referee #1

Referee comment on "Measurement report: Size-resolved chemical characterisation of aerosols in low-income urban settlements in South Africa" by Constance K. Segakweng et al., Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2021-1026-RC1, 2022

Review of Measurement report: Size-resolved chemical characterisation of aerosols in low-income urban settlements in South Africa by

Constance K. Segakweng, Pieter G. Van Zyl, Cathy Lioussse, Johan P. Beukes, Jan-Stefan Swartz, Eric Gardrat, Maria Dias-Alves, Brigitte Language, Roelof P. Burger, Stuart J. Piketh

This paper is the first comprehensive report of aerosol composition based on samples collected on the South African Highveld in four low-income urban settlements each of which represents an important pollution source region from economic and elemental points of view. Thirty-five trace elements are analyzed as well as Organic and Elemental carbon (OC, EC). Comparisons are made with similar studies for other South African regions, west Africa and on Europe (e.g., Spain) and Asia (India, China). The methods are well-established and the assembly of data is clear. Comparisons are made in Tables of summary data. Although characterizing exposure of the population is the goal of the project, few interpretations are made; hence the title “Measurement Report.” With a few grammatical changes, marked on a separate copy, the paper is suitable for publication in ACP and will be very welcome by the aerosol community as well as policymakers within South Africa.

Please also note the supplement to this comment:
https://acp.copernicus.org/preprints/acp-2021-1026/acp-2021-1026-RC1-supplement.pdf