

# METC Engineering (Pty) LTD

12 Autumn Road, Rivonia, Sandton  
PO BOX 11383, Vorna Valley, Gauteng 1686  
Tel +27 (0)87 808 8862



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## CERTIFICATE of AUTHOR

This Certificate of Author has been prepared to meet the requirements of National Instrument 43-101 Standards of Disclosure for Mineral Projects, Part 8.1.

**a) Name, Address, Occupation:**

John Edwards  
METC Engineering Pty Ltd, 12 Autumn Road, Rivonia, Johannesburg, RSA  
Process Director

**b) Title and Date of Technical Report:**

"Kipushi 2022 Feasibility Study", with an effective date of 14 February 2022 (the "Technical Report")

**c) Qualifications:**

I graduated from the Camborne Schools of Mines, UK with a BSc. (Hons) in Mineral Processing Technology in 1985. I am a Fellow of the South African Institute of Mining and Metallurgy (no. 701196). I have practised my profession continuously since 1985 and have experience in mining operations and consulting at and for projects in various countries including South Africa, Many countries in Africa, Spain, Mexico and many others. I have managed and been responsible for studies with multidisciplinary teams of professionals in the mining industry including metallurgy, processing and infrastructure. As a result of my qualifications and experience, I am a Qualified Person as defined in National Instrument 43-101.

**d) Site Inspection:**

I visited the project site from 24<sup>th</sup> to 26<sup>th</sup> October 2016. The site visit covered a site review and drill core inspection to understand the geology and application to the proposed plant design.

**e) Responsibilities:**

I am responsible for Sections 1.9, 1.13, 1.17, 1.21–1.22; Section 2; Section 13; Section 17; Section 18.1-18.20, 18.22; Section 21.4; Section 25.4; Section 26.4; Section 27.

**f) Independence:**

I am independent of Ivanhoe Mines Ltd. in accordance with the application of Section 1.5 of National Instrument 43-101.

**g) Prior Involvement:**

I have been working on various aspects of the studies of the project since 2016.

**h) Compliance with NI 43-101:**

I have read National Instrument 43-101 and Form 43-101FI and the Technical Report has been prepared in compliance with same.

**i) Disclosure:**

As of 14 February 2022, to the best of my knowledge, information and belief, the sections of the Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

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Dated: 4 March 2022.

/s/ John Edwards

John Edwards

**Process Director**

METC Engineering Pty Ltd