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IMPULSANDO LA MINERÍA GLOBAL

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Dear participant, to make the ABSTRACT you must consider the following criteria:

DOCUMENT OUTLINE:

Paper Size	:	A4
Font and font size	:	Arial 12
Alignment	:	Justified
Line spacing	:	1.15

Margins

Superior	:	2.4 cm
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ABSTRACT OUTLINE:

- **Title:** Bold, Arial 14, Centered
- **In the following line: Author's data, considering the following:** Focused, italics, Arial 11, surnames and first names (if there are two authors, they must be in alphabetical order), academic degree, position, company/university, country and email.
- **Abstract:** Justified, Arial 12, between 300 and 500 words.
- **Keywords:** Write on the same sheet of the abstract between 3 to 5 lowercase words that describe the content of the research.
- **Abstract:** It is the summary, translated into the English language.
- **Please send abtract in Spanish and English.**

Kind regards

International Metallurgical Consultants

TITLE

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SUMMARY

300 - 500 words

Keywords: between 3 and 5

ABSTRACT

Abstract in English

Keywords: between 3 and 5

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EXAMPLE

VALIDATION OF BLASTHOLE RE-SAMPLING FOR RECONCILIATION PURPOSES[1]

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SUMMARY

Mining operations, globally, heavily use blasthole sampling from blasts for short-term planning, which presents two indisputable advantages: (1) the distance between the holes is small, providing a high sampling density per ton of ore and (2) there are no additional costs, as blastholes must be drilled either way. However, the accuracy of blasthole sampling is usually low and the bias caused by the density and segregation of particle size is an even more serious problem, which impairs the representativeness of the samples generated. One of the main causes of this bias is the loss of fines, which can lead to an underestimation or overestimation of the mineral content, depending on the type of ore and gangue. The present work validates a new sampling equipment, designed to reduce the loss of fines and, thus, increase the accuracy of the sampling of small diameter blastholes. Initial results show a significant improvement in the estimation of gold content and minimization of fines loss.

Keywords: sampling, reconciliation, gold, stationary sector sample, blasthole sampling

ABSTRACT

Mining operations around the world make extensive use of blasthole sampling for short-term planning, which has two undisputed advantages: (1) blastholes are closely spaced providing relatively high sampling density per ton, and (2) there is no additional cost since the blastholes must be drilled anyway. However, blasthole sampling usually presents poor sampling precision, and the inconstant sampling bias caused by particle size and density segregation is an even more serious problem, generally precluding representativeness. One of the main causes of this bias is a highly varying loss of fines, which can lead to both under- and over-estimation of grade depending on the ore type and the gangue. This study validates a new, modified sectorial sampler, designed to reduce the loss of fines and thereby increase sampling accuracy for narrow-diameter blasthole sampling. First results show a significantly improved estimation of gold grade as well as the minimization of the loss of fines.

Keywords: Sampling, reconciliation, gold, stationary sectorial sampler, blasthole sampling

[1] *The example in this abstract is translated and adapted for educational purposes. The original document is entitled* ***Validação de novo amostrador de furos de desmonte para fins de reconciliação***. Link: https://www.scielo.br/j/rem/a/Z6b8tFhYH6FZj8zz4HL96hh/?format=pdf&lang=pt