

## **ENVIRONMENTAL AND GEOLOGICAL ANALYSIS OF THE MINING ACTIVITY IN THE CITY OF MANAUS, AMAZONAS STATE, BRAZIL.**

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In the Amazon Sedimentary Basin, the city of Manaus concentrates 60% of the Amazon State population in the urban area. Because this characteristic, high demand for materials used in civil construction is observed. The mining activities in Manaus area, specially in the north and northwest area (between the Tarumã-Açú River and BR-174 highway) are dedicated to produce sand, clay, sandstone (Manaus Sandstone) which will be used in civil engineering. There are twelve mining, and the mostly frequent environmental problems are related to such activities as: deforestation, silting small rivers up, unrestoring degraded areas. Considering the cost-benefit under the legal mining operation view, its development isn't satisfactory because the equipment's costs, workers' salary and taxes make the final cost high, over the market price. This work shows the need of mining planning and orientation to correct the mining activities in Manaus.