

# Environmental Protection *Measures*

Environmental protection measures (EPMs) are processes or strategies a company implements to avoid, minimize, or mitigate environmental impacts during the construction and operation of a proposed project. EPMs are typically identified during the design phase to protect resources such as air, water, and biodiversity from potential or known environmental impacts. For the proposed Kings Mountain Mine project, Albemarle intends to include measures for social impacts such as visual impact reduction, dust suppression, noise mitigation and community giving programs.

## IMPLEMENTATION

EPMs are typically voluntary, provided upfront, and included in project impact predictions. At Kings Mountain, Albemarle's goal is to implement EPMs to reduce or eliminate potential environmental and social impacts during and after the construction and operation of proposed mining activities. Albemarle is actively engaging with the community to discuss the proposed mine site redevelopment, identify potential impacts and encourage dialogue among all stakeholders to enhance positive results.

Typically, during the environmental review and permitting process, regulatory agencies will review the proposed EPMs and determine if adequate protection measures are proposed to protect the environment.



**Environmental Studies:** Project scientists conduct environmental studies to identify and predict potential impacts to water, plants and wildlife near the mine site.



**EPMs help to predict potential environmental and social impact measures** *that reduce or mitigate these risks for positive outcomes.*

## EPMs for Kings Mountain

Albemarle has conducted environmental studies at the Kings Mountain site to identify and predict potential risks, such as impacts to water, wetlands, wildlife, visual aesthetics, noise, air, and proposed land use. Based on these findings, site-specific measures can be incorporated into the design. Best available technologies, socially and environmentally responsible mining standards set by the Initiative for Responsible Mining Assurance (IRMA), corporate policies and standards, and federal, state or local regulations will dictate preferred methods of development. Here are a few examples of EPMs that are being implemented at the site:



### USE OF LEGACY AND ACTIVE MINE SITES

The project plans to use current and former mine sites as part of the Kings Mountain Mine plan, thereby reducing the amount of land disturbance needed for the project. This includes restarting mining at the former Kings Mountain Mine site, storing tailings in a former mica mine pit, and providing material that can be used by Martin Marietta's neighboring quarry for commercial sale.



### DRY STACK TAILINGS

Albemarle is adopting an industry best practice of removing most of the water from the mine's tailings via a filtration process prior to storage at the site's tailing storage facility (TSF). The resulting material is similar to moist beach sand and the practice can reduce the site's water requirements and is expected to improve the tailings storage facility's safety, stability and reduce water seepage.



### VISUAL AND ACOUSTIC BUFFERS

The entire project is designed to be surrounded by a visual buffer, either by using existing vegetation or by installing earthen berms and trees. A prefabricated sound wall that's planned for installation along a segment of I-85 is expected to provide a visual and acoustic barrier and a wind break to minimize the potential for dust.



**Kings Mountain Mine Site:** The Kings Mountain Mine is expected to provide Martin Marietta's nearby quarry (shown here just beyond the existing mine pit) with non-ore-bearing material from the Kings Mountain Mine to process and sell as construction aggregate.

Further information is available in Spanish upon request or at [albemarlekingsmountain.com](http://albemarlekingsmountain.com)

For more information or to provide community feedback on the project:

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Albemarle leads the world in transforming essential resources into critical ingredients for mobility, energy, connectivity and health. We partner to pioneer new ways to move, power, connect and protect with people and planet in mind, enabling a more resilient world. Our global headquarters is approximately 35 miles from Kings Mountain in Charlotte, NC.

