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## Adding Environmental Design to Mine Development Phases

### ABSTRACT

Environmental planning is common in all phases of mining development. Environmental planning applies standard industry practices to any given site. Planning and its implementation reduce environmental effects that may result from mine development activities. Environmental design is the next phase of planning as it addresses site-specific conditions, and often leads to innovation or improved ways to further mitigate environmental effects. In mining, there are opportunities to incorporate environmental design into site-specific exploration layout design, mine design (including closure considerations) and dewatering and diversion design engineering works. Examples of environmental design applications from across Western Canada using different mine phases, and mine developments will be shared. How consideration and incorporation of environmental design lead to project efficiencies and easier approval processes with regulators and local and Indigenous stakeholders will also be explored.

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### BIOGRAPHY

Ms. Natalie Tashe is a mining sector representative for environmental services at Stantec Consulting Ltd. She started her mining career in Thompson, Manitoba as a geological assistant for the Department of Energy and Mines. Natalie brings over 20 years' experience to the mining industry as a reclamation specialist and project manager working in Western and Northern Canada, Ms. Tashe has been involved with exploration and mine permitting approvals and compliance monitoring. She has been responsible for the delivery of annual reclamation reports and liability cost estimates. Ms. Tashe has also led and developed work related to reclamation design and environmental management plans used during exploration programs, mine operations and at mine closure. Natalie's passion is for innovation in science and in the past year has been an industry partner sponsor for three mine research projects to further advance the science of reclamation. Natalie is happy to return to her hometown of Winnipeg to present on the topic of environmental design and its incorporation in all phases of mining.



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