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*The Island Copper South Wall Pushback Project.*

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The application of diaphragm wall technology to the recovery of ore-reserves underlying a tidally active waste dump is described. Innovative drilling methods were employed in pre-construction exploration of the soils underlying the dump. Finite element modelling of the wall led to the design of a low-modulus plastic concrete backfill. The deformation of the wall in response to dewatering and excavation of the downstream soil slope and the performance of the wall are discussed.