

LOW PERMEABILITY BARRIER AT SUMAS RIVER DIKE BREACH REPAIR ▼

In November 2021, emergency repairs were completed on the Sumas River Dike under flood conditions. Flowing and then standing water precluded the use of fine-grained fill to construct a low permeability barrier (core) as part of the repair. Crushed rock of varying sizes was used to close the dike breach and prevent flows from entering Sumas Prairie. Smaller sized crushed gravel was used within the central zone of the dike repair to facilitate construction of a barrier to mitigate through-seepage. In the fall of 2022, Cutter Soil Mixing (CSM) technology was implemented to re-establish a barrier comprised of the finer crushed gravel, mixed in place with bentonite and Portland cement. CSM technology eliminated the need to deconstruct the initial emergency repair.

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