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## Catch basin rating curves

Thursday, 9 June 2022 11:15 (15 minutes)

A full scale model roadway has been installed in the Coastal Wave Basin of the Ocean, Coastal and River Engineering facilities at the National Research Council in Ottawa in an effort to better understand the conveyance of catch basin covers. A total of eighty (80) catch basin rating curves were obtained for eight (8) different catch basin covers for various road configurations. The roads were inclined from  $0.5-10.0\,\%$  and cross-slopes of both 2.0 and 4.0 % were studied. The flow of water to the roadway ranged from  $0.001-0.40\,\mathrm{m}^{**3/s}$  resulting in a water depth in advance of the catch basin covers from 0.001 -  $0.147\,\mathrm{m}$ .

The work will the experimental methodology used as well as the catch basin rating curves that have been obtained. The presented work is the result of a collaboration with one Canadian municipality. Future experiments with two other municipalities will also be discussed including various new catch basin cover types as well as new roadway configurations.

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