

ADDENDUM # 1



Roadway Flooding Sensor Network

WR-RFI-202001

July 25, 2019

This addendum is issued to clarify questions received by the Hampton Roads Planning District Commission (HRPDC) pertaining to Request for Information (RFI) No. WR-RFI-202001

1. If rain gauges are deployed, is weather modeling and rainfall forecast envisioned to supplement actual measurement to enable prediction of street flooding?
Long term, but that is not one of the initial project goals. The objective of the sensor network is to provide real-time information to drivers.
2. In addition to data delivery to Waze and/or Google Maps, will real-time updates be made to GIS databased to display road closures for municipal or public access?
The HRPDC Coastal Resiliency committee will have to determine if that would be valuable. The data will be made available for research but a real-time GIS database wasn't the desired deliverable.
3. For tidally affected roads, are tidal models available to supplement measured flood levels to enable prediction of road closures?
Tidal models are available.
4. Is hydrologic modeling desirable to supplement direct measurement to enable more accurate prediction of flood events as well as analyze performance of stormwater infrastructure?
This is an RFI so ideas on ways to enable more accurate predictions of flood events are welcome. However, the first objective is to monitor and communicate real-time flooding.