

June 8, 2015

DET NORSKE VERITAS (U.S.A.), INC.
Materials and Corrosion Technology Center

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Garrett Rhyne
Watershed Materials, LLC.
11360 Jackson Drive
The Plains, Ohio 45780

Re: Effect of Foam Bridge on Applied Cathodic Protection (PP134244) – Executive Summary

Dear Mr. Rhyne:

Det Norske Veritas (U.S.A.), Inc. (DNV-GL) was retained by Watershed Materials, LLC. (Watershed Materials) to perform testing of Expandable Polystyrene (EPP) and Expandable Polypropylene (EPS) foams used as spacers (bridges) between drainage tiles and underground pipelines. The materials were tested to provide information regarding the ability of cathodic protection current (CP) to pass through the materials (onto a pipeline).

Testing was performed per modified ASTM G8, "Standard Test Methods for Cathodic Disbonding of Pipeline Coatings" for 30 days. Coated pipe samples (with an intentional holiday) were surrounded by the EPP and EPS materials (or no material to act as a baseline) and submerged in a conductive solution to simulate field conditions. CP was then applied to the set-ups at -1.5 V vs Cu-CuSO₄ and the current on the samples measured throughout the test.

Similar cathodic protection current was observed for all tests, indicating that the EPP and EPS materials did not inhibit CP transfer to the pipe.

Any questions regarding this work should be directed to Rob Denzine at robert.denzine@dnvgl.com or 614.761.1214 x6940.

Sincerely,

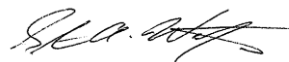
for Det Norske Veritas (U.S.A.), Inc. (DNV GL)

Prepared by:

Reviewed/Approved by:



Rob Denzine
Engineer



Steven A. Waters
Coatings and Non-Metallics Group Leader