

PD 19-03: DIPRA Design Decision Model

Effective Date: April 1, 2019

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This policy outlines the use of DIPRA Design Decision Model as the default and only methodology used to determine the corrosivity of soils for areas where ductile iron pipe will be installed.

In the 2018 Utilities Water and Sewer Design and Construction Standards Manual, the Spotsylvania County Utilities Department adopted the use of the Ductile Iron Pipe Research Association (DIPRA) Design Decision Model (DDM) to determine the corrosivity of all soil conditions. The DIPRA DDM can be found here:

<https://www.dipra.org/ductile-iron-pipe-resources/technical-publications/corrosion-control?download=80:design-decision-model-2018-corrpro-and-dipra-share-technical-resources>

It can also be found on the Spotsylvania County website here:

http://www.spotsylvania.va.us/filestorage/20925/21015/21972/41108/41188/DIPRA_Design-Decision-Model-2018.pdf

In accordance with *Section 2.2.6.3 Corrosion* of the *2018 Utilities Water and Sewer Design and Construction Standards Manual* (DSM), the County will require that all ductile iron pipe shall be zinc coated and encased in V-Bio Polywrap for conditions that are determined to be in categories 2-5 in the DIPRA DDM. It is the responsibility of the Engineer to show that zinc coating and V-Bio Polywrap are not needed based on the results of a soil corrosivity analysis.

If there are any questions regarding this policy, please contact the Utilities Department at 540-507-7300.

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Date