

Product Evaluation

RE: Review of Biodegradable Silt fence

PRODUCT

Biodegradable Silt Fence is manufactured and distributed by Cascade Geotechnical Inc. located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Biodegradable Silt Fence is made up of natural Jute textile and it is designed to be left in place and for it to biodegrade over time. Like regular silt fence, the design/placement of the silt fence should create a slowing pool of runoff, which then allows sedimentation to occur. The fence is not designed to concentrate or channel storm water. Product web link: Cascade.ca

DESCRIPTION:

Biodegradable Silt Fence consists of a tight woven natural jute textile stretched between 2" x 2" stakes with a 2m spacing. The fence is installed on a site before soil disturbance begins, and is placed down-slope from the disturbance area. Standard installation is with the stakes on the downhill side of the fence, and the bottom edge of the fabric is trenched into the soil and backfilled on the uphill side.

POTENTIAL USAGE:

To prevent erosion and sediment transport from highway sides. Not suitable for the locations with concentrated water flow.

STANDARDS:

Not provided

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation do not has experience with silt fences made up of jute textile.

APPLICATION STANDARDS:

Alberta Transportation has a standard for silt fence materials as found in BMP #1, Erosion and Sediment Control Manual, 2011.

CAVEAT: Not to be installed at the location where concentrated flow of water is expected

RECOMMENDATIONS:

Biodegradable Silt Fence be listed as a Trial Product under Alberta Transportation Product List, Erosion Control Systems – Silt Fence – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Hwy32:12 (Contract 14926)

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