

## Product Evaluation

### RE: Review of GPEC-SC (Regular and Natural Net)

#### **PRODUCT**

GPEC-SC (Regular) and GPEC-SC-NN (Natural Net) are temporary rolled erosion control products manufactured by L & M Supply Company at Willacoochie, GA and it is distributed in Alberta by Green Patch Environmental Consulting Ltd, Calgary. Product web link: <http://www.gpec.ca/>

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS:**

GPEC-SC (Regular) and GPEC-SC-NN (Natural Net), temporary rolled erosion control blankets, are extended term erosion control blankets designed to have a functional longevity of up to 18 months. They are recommended for use on the slopes up to 2:1 – 1:1 and in medium flow velocity channel. with the photo stabilized black polypropylene photo degradable plastic netting material or fully degradable Jute nettings to reduce slope and/or channel erosion and promote accelerated vegetation establishment.

##### **DESCRIPTION:**

GPEC-SC (Regular) and GPEC-SC-NN (Natural Net) consist of a 100% biodegradable 70% straw fibers and 30% coconut fiber matrix stitched to double net. They are available with UV stabilized photodegradable, synthetic netting (Regular) or biodegradable jute netting (All Natural). GPEC-SC (Regular) and GPEC-SC-NN (Natural Net) have functional longevity of 12 months or more.

##### **POTENTIAL USAGE:**

Slopes 1H: 1V or flatter and ditches with water medium water velocity

##### **STANDARDS:**

ASTM D6818 Tensile Strength and elongation, ASTM D6475 Mass / Area, ASTM D6525 Thickness ASTM D6567 Light Penetration, ASTM D 1117 Water Absorption, ASTM D7322 Vegetation Establishment, ASTM D7207 Shear Resistance Test, ASTM D7101 Rainfall and Rain Splash Test

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation (AT) has no experience with these specific products. AT has extensive experience with similar products.

##### **APPLICATION STANDARDS:**

Alberta Transportation standard for Rolled Erosion Control Products (RECP) is documented in AT Products List and Erosion and Sediment Control Manual BMP#13.

##### **RECOMMENDATIONS:**

GPEC-SC (Regular) and GPEC-SC-NN (Natural Net) be listed as Potential Products under Alberta Transportation Products List, Erosion and Sediment Control Systems – Temporary Rolled Erosion Control Products – Type C – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**