

## Product Evaluation

### RE: Review of HydroStraw All in One Bonded Fiber Matrix

#### **PRODUCT**

HydroStraw Guar Plus is a Hydraulic Mulch containing soil amendments. It is manufactured and distributed by HydroStraw LLC, Rockford, Washington.

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

##### **CLAIMS:**

HydroStraw All In One Bonded Fiber Matrix is environmentally safe and biodegradable. The porous matrix of the wheat straw encourages water infiltration, enabling the new seedlings to easily pass thru the matrix. The combination of the wheat straw fibers together with the cross-linked high strength polymer binders provides effective erosion prevention and increased vegetation establishment. Product web link: [www.hydrostraw.com](http://www.hydrostraw.com)

##### **DESCRIPTION:**

HydroStraw All In One Bonded Fiber Matrix consists of heat and mechanically treated wheat straw fibers, Natural Fibers, Tackifier, Micronized Natural Fertilizer / Soil Amendments and colorant which gives brown appearance.

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

Erosion control of highway slopes, golf courses, residential and commercial landscaping.

##### **STANDARDS:**

HydroStraw All In One Bonded Fiber Matrix Application Rates

Slope  $\leq$  3:1, Application rate of 4484 kg/Ha (4000 lbs/ac)

Slope  $\leq$  2:1, Application rate of 5605 kg/Ha (5000 lbs/ac)

Slope  $\leq$  1:1, Application rate of 6725 kg/Ha (6000 lbs/ac)

Poor Soil Conditions, Application rate of 4484 kg/Ha (4000 lbs/ac) - 6725 kg/Ha (6000 lbs/ac)

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE:**

Alberta Transportation has experience with similar type products.

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

Alberta Transportation has standard specifications for seeding and fertilizing - Erosion and Sediment Control Manual 2011 BMPs 22 Seeding, 24a Hydro-seeding and 24b Hydro-mulching

##### **RECOMMENDATIONS:**

HydroStraw All In One Bonded Fiber Matrix to be listed as a Potential Product under Alberta Transportation Products List, Erosion Control – Hydraulic Erosion Control Product – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**

Rishi Adhikari

cc New Product Evaluation Standing Committee – Roger Skirrow