

**Part 1 General**

**1.1 WORK INCLUDED**

- .1 This section specifies requirements for supplying all tools, labour, equipment, materials and incidentals necessary to hydroseed and mulch areas as directed by the Departmental Representative and/or in accordance with the drawings. Areas to be mulched include on-site sewage system disposal field, embankments and any existing grassed areas disturbed by construction activities.

**1.2 RELATED SECTIONS**

- .1 Section 01 33 00 – Submittal Procedures
- .2 Section 31 23 19 – Granular Borrow (Roadway)
- .3 Section 33 34 00 – On-site Sewage Disposal System

**1.3 REFERENCES**

- .1 Not used

**1.4 SUBMITTALS**

- .1 Upon request, the Contractor shall submit a Certificate of Analysis for the seed mix.

**Part 2 Products**

**2.1 HYDROSEED GROUND COVER MIX**

- .1 Shall meet or exceed the requirements of the Canada Seeds Act for Canada No. 1 Ground Cover Mixture.
- .2 Ground Cover Mix seed composition to meet the following requirements:

Ground Cover Mix	
<i>Species</i>	<i>Seed Mix % by Mass</i>
Creeping Red Fescue	40
Hard Fescue	20
Canada Bluegrass	15
Alskie or White Cover	5
Annual Ryegrass	15
Red Top	5

**2.2 HYDRAULIC MULCH**

- .1 Hydraulic Mulch for Lawn Mix applications shall be processed form of shredded straw mixed with raw cotton fibers and/or shredded newsprint.
- .2 Shall form a homogeneous slurry when agitated or mixed in water with the other specified materials and shall contain no growth-inhibiting chemicals or compounds.

**2.3 FERTILIZER**

- .1 Shall be 15-25-15 (N-P-K) mix for seeding done between May 1 to Labour Day and 10-20-20 (N-P-K) thereafter

**2.4 BINDER**

- .1 Supplied in liquid, flake or powder form.

**2.5 TOPSOIL**

- .1 Shall be fertile, friable soil, reasonably free from subsoil, clay lumps, stones, roots, weeds, or other objectionable materials.

**Part 3 Execution**

**3.1 TOPSOIL PLACEMENT**

- .1 Areas to be topsoiled shall be scarified or otherwise loosened to a depth of at least 50 mm within 1 day preceding placement of topsoil
- .2 Topsoil to be spread at a minimum thickness of 100 millimeters in all areas to be hydroseeded.
- .3 Hand placement and raking shall be required in areas adjacent to finished lawns.
- .4 In lawn areas, topsoil shall be rolled using a lawn roller.
- .5 Topsoil shall not be placed on frozen material or when material is so wet that balling and clumping occur.

**3.2 HYDROSEED PLACEMENT**

- .1 Topsoil shall be loosened to a minimum depth of 25 mm no sooner than 2 days prior to hydroseeding
- .2 Hydraulic mulch, seed, fertilizer and binder shall be thoroughly mixed with water in a hydroseeding tank capable of continually agitating the mixture during the hydroseeding operation to ensure that a homogeneous slurry is produced.
- .3 Application rates as shown in the following table:

Application Rates	
<i>Material</i>	<i>Mix Rate (kg/ha)</i>
Seed	200

Fertilizer	375
Hydraulic Mulch	500
Binder	Per Manufacturer
Mulch:	
Hay/Straw	N/A
Processed Straw	2400

- .4 Avoid overspray onto adjacent structures.
- .5 For hydroseed placed before Labour Day, a satisfactory growth of over 95% ground cover must be reached prior to the expiration of the growth season. Hydroseed placed after Labour Day must produce a growth of over 95% ground cover during the next growing season. Areas of poor or no growth shall be replaced in accordance with Section 3.2 at the discretion of the Departmental Representative.
- .6 No hydroseed shall be placed after September 30<sup>th</sup> without the consent of the Departmental Representative.

**3.3 GUARANTEE OF GROWTH**

- .1 The Contractor shall guarantee minimum 95 percent ground cover as specified herein. At the discretion of the Departmental Representative, the Contractor shall be required to provide subsequent ground preparation and hydroseed application(s) to areas of poor growth until 95 percent ground cover is achieved

**END OF SECTION**