

	GEOTEXTILE	Section 31 32 21
PSPC		
R.098430.002		Page 1
Northside Landfill B Erosion Control		
Argentia, NL		2019-05-05

PART 1 - GENERAL

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| <u>1.1 SECTION INCLUDES</u> | .1 | Materials and installation of composite geogrid:
.1 Separate and prevent mixing of granular materials of different grading and prevent settling of rock into loose sediment.
.2 Act as hydraulic filters permitting passage of water while retaining soil strength of granular structure. |
| <u>1.2 RELATED WORK</u> | .1 | Section 01 74 21 - Construction/Demolition Waste Management and Disposal. |
| <u>1.3 REFERENCES</u> | .1 | American Society for Testing and Materials (ASTM)
.1 ASTM D4491-99a(2004)e1, Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
.2 ASTM D4595-05, Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method.
.3 ASTM D4716-04, Standard Test Method for Determining the (In-Plane) Flow Rate Per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.
.4 ASTM D4751-04, Standard Test Method for Determining Apparent Opening Size of a Geotextile. |
| | .2 | Canadian General Standards Board (CGSB)
.1 CAN/CGSB-4.2-M88, Textile Test Methods.
.2 CAN/CGSB-148.1, Methods of Testing Geotextiles and Geomembranes.
.1 No.2-M85, Mass per Unit Area.
.2 No.3-M85, Thickness of Geotextiles.
.3 No.7.3-92, Grab Tensile Test for Geotextiles. |

.4 No.6.1-93, Bursting Strength of Geotextiles Under No Compressive Load.

- .3 Canadian Standards Association (CSA)
 - .1 CAN/CSA-G40.20-04/G40.21-04, General Requirements for Rolled or Welded Structural Quality Steel.
 - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

1.4 SAMPLES

- .1 Submit samples as directed by the Departmental Representative.
- .2 Submit to Departmental Representative the following samples at least 2 weeks prior to commencing work.
 - .1 Minimum length of 1 m of roll width of geotextile.

1.5 MILL CERTIFICATES

- .1 Submit to Departmental Representative a copy of mill test data and certificate at least 2 weeks prior to start of work.

1.6 DELIVERY AND STORAGE

- .1 During delivery and storage, protect geotextiles from direct sunlight, ultraviolet rays, excessive heat, mud, dirt, dust, debris and rodents.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper,

plastic, polystyrene, corrugated cardboard, and packaging material, in appropriate on-site bins, for recycling in accordance with Waste Management Plan.

- .4 Fold up metal banding, flatten and place in designated area for recycling.

1.7 MEASUREMENT FOR PAYMENT

- .1 All material supplied and installed under this section will be included in the lump sum portion of the project.

PART 2 - PRODUCTS

2.1 MATERIAL

- .1 Polypropylene geogrid, as noted on the drawings, to be LP30X, bi-axial geogrid to ASTM D4595 or equivalent.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Place geogrid as noted on the drawings.
- .2 Place material by unrolling onto graded surface in orientation, manner and locations indicated and retain in position to approval of Departmental Representative.
- .3 Place material smooth and free of tension stress, folds, wrinkles and creases.
- .4 Place material to manufacturer's written instructions.
- .5 Overlap each successive strip of material minimum of 600 mm over previously laid

strip, or as otherwise recommended by manufacturer.

- .6 Protect installed material from displacement, damage or deterioration before, during and after placement of rock material layers.
- .7 Replace damaged or deteriorated material to approval of Departmental Representative.

3.2 PROTECTION

- .1 Vehicular traffic not permitted directly on geotextile.