Queen’s landfill liner test site

count on Arrow Construction to have a proven historical case study. including municipal solid waste (MSW) landfill covers and liners, Liners (GCLs) are utilized for many different sealing applications. contractors our Geosynthetic Clay Liner since 1992. Geosynthetic Clay Construction, has been providing engineering consultation and general contractor services to our clients for over 30 years. Our business is founded on delivering cost-effective, high-quality solutions to our clients. We have a track record of successful projects, and we pride ourselves on building long-term relationships with our clients.

What’s new and exciting at terrafix geosynthetics

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Bentofix GCLs are thermally locked at our plant in Barrie, Ontario, to create a "low bulk void ratio". Void ratio is defined as the percentage of voids in the final product. All Bentofix GCLs are thermally locked at our plant in Barrie, Ontario, to ensure a "low bulk void ratio". This procedure also provides a "low bulk void ratio". Bentofix GCLs are thermally locked at our plant in Barrie, Ontario, to ensure a "low bulk void ratio".

Thermal Lock is a heat treating process where the edges of the GCLs are heated to permanently lock the needle-punched fibres into place. The procedure provides increased internal shear resistance and reduces settlement due to punch line relaxation. Did you know that this thermal locking procedure also provides a "low bulk void ratio"? Bentofix GCLs are thermally locked at our plant in Barrie, Ontario, to ensure a "low bulk void ratio". This procedure also provides a "low bulk void ratio". Bentofix GCLs are thermally locked at our plant in Barrie, Ontario, to ensure a "low bulk void ratio".

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Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced. Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced. Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced.

GCLs that are not Scrim-Reinforced are shrinking. This is just another study and we can prove it! This is just another study and we can prove it! This is just another study and we can prove it!

Field test site of 4,500 sqm. The site was carefully instrumented during construction and is providing valuable information over the last three years. An excellent example of information being supplied from the test field is further knowledge that Scrim-Reinforced GCLs such as our Bentofix NW Series (same product as this case study) are not shrinking. Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced. Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced.

Research study into the "Long-Term Performance of Geosynthetic Clay Liners in Landfills" has been conducted over a period of three years. This research project is a huge undertaking by the research team at the GeoEngineering Centre at Queen’s-RMC which includes a fairly large landfill area of 120 Ha. The site was carefully instrumented during construction and is providing valuable information over the last three years. An excellent example of information being supplied from the test field is further knowledge that Scrim-Reinforced GCLs such as our Bentofix NW Series (same product as this case study) are not shrinking. Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced. Scrim-Reinforcement is the presence of a woven fabric in the GCL, ie. scrim fabric. That is confirming that GCLs must be Scrim-Reinforced.

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The Rock.

Overview of the site. Cape Spear, most easterly land point in Canada in the background.

Once the GCL was deployed, Seagulls departed the area!

One crew consisted of one operator and two labourers.

Storage of GCL on site.

Placement of the cover soil. Over 100,000 sqm of GCL was sent to site prior to deployment.

Belly dumps were used to the cover soil over the GCL over a hard smooth subgrade.

Subgrade preparations were well done.

Lay down of rolls were placed accordingly.

Geotextiles
  - Non-woven Geotextiles
  - Woven Geotextiles
  - High Strength Wovens
  - Monofilament Wovens

Erosion Control
  - Straw, Coconut and Excelsior Blankets
  - Coir Mats and Logs
  - Turf Reinforcement Mats
  - Terraweb® Cellular Confinement System
  - Gabion Baskets and Mats
  - Armorflex® and A-Jacks®
  - Fencing Products
  - FLEXICRETE
  - Slopetame2
  - Siltsacks® / Envirobags
  - Silt Curtains

Geogrid Application
  - Base Reinforcement
  - RoadGrid
  - Uniaxial / Biaxial
  - T-Blocks
  - TerraSlope
  - TerraSteep
  - TerraFort

Lining Systems
  - Bentofix® Thermal Lock Geosynthetic Clay Liner
  - HDPE Geomembranes
  - LLDPE Geomembranes

Stormwater and Wastewater Systems
  - GrassPave2 and GravelPave2 Permeable Pavement systems
  - Weholite HDPE Pipe
  - Corrugated HDPE Pipe
  - Subdrain Pipe and Fittings
  - Aqua-SwirlTM- Oil and Grit Separator
  - Aqua-FilterTM
  - Subsurface Retention/Detention system
  - And much, much more....
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And much, much more....
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Arrow Construction, has been providing engineering consultants and general contractors for 30 years. The company’s unique blend of expertise and capabilities allows it to provide a broad range of services. The company is committed to providing clients with the highest-quality products and services.

Coast to Coast Assistance

Queen’s landfill liner test site

Terrafix has been in the business since 1992, and we have been committed to providing clients with the highest-quality products and services. We are dedicated to providing clients with the best possible solutions for all of their geosynthetic needs. Our team of experts is committed to providing clients with the best possible solutions for all of their geosynthetic needs. Our team of experts is committed to providing clients with the best possible solutions for all of their geosynthetic needs.

What Is Thermal Lock?

Thermal locking is a heat treating process where the fibers of the GCL are heated to permanently lock the needle-punched fibers into place. This procedure provides increased internal shear resistance and long term creep resistance. Did you know that this thermal locking method is used to improve the performance of bentonite clay?

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