

BOSS 2000 HDPE

Storm Sewer Pipe

"taking the industry by storm"

OWNER
Fraser River Port Authority

DESIGN CONSULTANT
Delcan Corporation &
Urban Systems Ltd.

CONTRACTOR
Progressive Contracting Ltd.

LOCATION
Richmond, B.C.



Installation

In order to facilitate intensive land development on site adjacent to a former landfill area, The Fraser River Port Authority retained Urban Systems Limited to design storm drainage and Delcan Corporation to design a leachate collection system and storm sewer for the site.

The storm drainage component of the project included a crossing directly below a new Canadian National Railway line which consisted of a 450 mm dia. 320kPa BOSS 2000 Bell & Gasket HDPE pipe. HDPE was chosen because of its inherent chemical resistance – this feature was critical as typical runoff would have quickly degraded most other pipe materials. A careful review of gasket materials was also conducted.

The leachate collection system consisted of approximately 600 m of 600 mm dia. 320 kPa BOSS 2000 solid & perforated wall and 60 m of 450 mm dia. solid wall 320kPa BOSS 2000. Concrete storm sewer manholes were cast with BOSS

2000 bells already in place, facilitating faster installation.

The system also included approximately 1500 m of 150 mm dia., 320 kPa BOSS 2000 feeding into a series of 3 custom designed 900 mm dia. BOSS 2000 Cleanout Risers. Each Manhole Riser was fitted with perforated lids to permit gas exfiltration.

Here are the Contractor's Comments:

- **"Easy to cut"**
- **"Best Production was about 200 metres per day including Manholes – in open conditions could probably lay 300 metres per day"**
- **"Easy to install, raising/lowering by hand"**

Arnold Molatore, Progressive Contracting Ltd.

BOSS 2000 320 kPa was specified due to its superior chemical resistance and with its 320 kPa stiffness, it provided the additional structural strength required in the soft soils and heavy live loads.

CASE HISTORY

BOSS 2000 320 kPa HDPE Storm Sewer Pipe & Leachate Collection System



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