



Hiellen Sanitary Improvement Works

OWNER	Old Massett Village Council
CONTRACTOR	Tekton Construction LTD
ENGINEER	Urban Systems (Vancouver)
LOCATION	Masset, BC



PRODUCT DETAILS

DuroMaxx SRPE Pipe 2,100mm Diameter

The Old Massett Community is located in the north of Haida Gwaii, off the coast of British Columbia, near the Alaskan border. It is the unceded, ancestral and traditional territories of the Haida people. Old Massett Village Council required a solution to increase capacity and improve the operation of the Hiellen Longhouse Village sanitary system infrastructure. Hiellen Longhouse Village is an eco campground on the North Coast of Haida Gwaii.

The Challenge

The Engineer, Urban Systems, recommended a new sanitary sewer septic tank for containment and storage before treatment. The remote site location demanded a lightweight solution; however, the design also needed to take into consideration potential flotation due to the local high-water table and tidal influence.

The Solution

DuroMaxx SRPE Pipe was selected for the project. Its steel-reinforced polyethylene construction provided the necessary structural integrity of the sanitary storage tank while weighing less than alternative materials. This allowed for easy shipment of the pipes by barge to the remote job site.

Twin sanitary storage tanks were constructed from 2,100mm (84in) diameter pipe. Two 6.705m (22ft) lengths were joined to build the 13.411m (44ft) long tanks. Bulkheads and twin access risers were factory-installed. Connection and components were field welded by Titan Environmental Containment and tested to ensure the structure was completely watertight. The tanks were anchored by steel strapping and concrete lock blocks to prevent possible flotation due to the high water table at the site.



The project was completed in July 2023. The sanitary storage tanks now collect overflow and prevent the discharge of untreated waste into the nearby ocean and waterways.



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