

CASE STUDY

Water and Wastewater



Project Specs

Location: Victoria, British Columbia
Application: FRP Structure for Major Pump Station
Product: Safe-T-Span® Pultruded Grating, Safe-T-Span® Pultruded Stair Treads, Dynaform® Structural Shapes, Dynarail® Railing and Ladder Systems



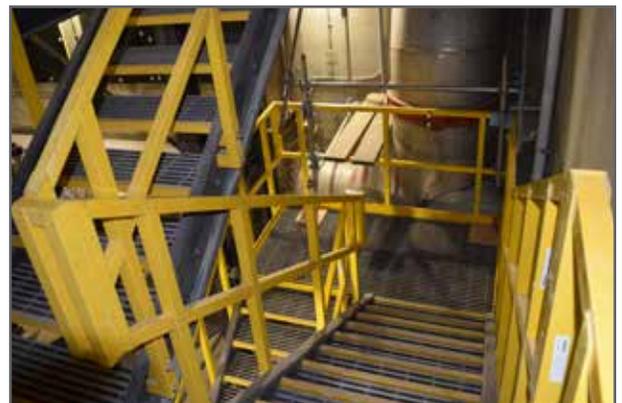
Overview

Located in Esquimalt, British Columbia, this new sewage treatment plant was built to replace the old pump station that pumped sewage directly into the ocean. The new building seeks to improve the aesthetics of the area, and its primary function is to pump and screen wastewater from Esquimalt, Colwood, Langford, View Royal, Saanich, and Victoria on its way to a final wastewater treatment plant.



Problem

The staff at the facility needed a structure consisting of suspended platforms, staircases, and guardrails, so they could move safely around the pump station while performing their daily tasks. Because the station was considered a corrosive environment, the contractor in charge of this project looked for a corrosion resistant material to build this structure. Traditional materials, such as metal, would corrode in a place like this, resulting in a significant amount of time and money spent on maintenance and replacements. Additionally, the contractor was looking for a lightweight product that was easy to install in small areas.



Solution

The contractor decided to use fiberglass reinforced plastic (FRP) due to its corrosion resistance, long service life, low maintenance, and lightweight properties that allow for easy installation with no heavy equipment or specialized labor required. Multiple FRP companies were considered in the selection process, but because of previous successful projects with the contractor and local representation, Fibergrate Composite Structures was selected for this application.

Dynaform structural shapes, Safe-T-Span pultruded grating, Dynarail guardrails, Safe-T-Span pultruded stair treads, and Dynarail ladders were used to create a structural solution that provides a safe and easy way for employees to move around the facility and perform their daily activities.

Throughout the process, Fibergrate's local Territory Manager went above and beyond to ensure that the solution provided for this sewage treatment plant was effective and made sure the whole experience was positive for everyone involved. The installation was successful, and the customer was extremely satisfied with our work.

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