

CASE STUDY

Water and Wastewater

Project Specs

Location: Glenmore Water Treatment Plant - City of Calgary, Canada

Application: Pipe Gallery Walkway Expansion

Product: Fibergrate® Molded Grating, Dynaform® Structural Shapes, Dynarail® NSF-61 Handrails and Ladders

Overview

The Glenmore Water Treatment Plant, located on the Elbow River, was constructed in 1933 and is a part of the City of Calgary Water Services, providing drinking water to thousands of residential and industrial customers. Glenmore underwent extensive upgrades aimed at improving the ability to produce high quality drinking water to meet the increasingly stringent regulatory requirements imposed by the Federal and Provincial regulations.

Problem

The Glenmore Water Treatment Plant required upgrades for their narrow walkway in the pipe gallery as their existing one consisted of steel gratings that were far too narrow for the upgrades and had become rusty and slippery which was a health and safety hazard. The customer was also looking to install an additional staircase in the north end of the building as a secondary entrance/exit.

Solution

The City of Calgary chose to upgrade its water treatment facility with a product that would protect against costly corrosion and provide a slip resistant surface.

The pipe gallery walkway expansion was constructed of Fibergrate Molded Grating and Dynaform Structural Shapes to replace the existing steel, therefore, providing a slip resistant surface for the workers. Dynarail® NSF-61 handrails, ladders and self-closing gates designed for portable water applications were also installed in the filter bed gallery. An additional FRP staircase was designed and fabricated for the building exterior, complete with handrail that have additional UV protection, in order to provide access to the rooftop.

Fibergrate products were identified to be the right solution because of their unique design, high corrosion resistance, favorable cost and aesthetic qualities.

Before



After

