DIPRA MINUTE

Strength and Durability for Life®

April 14, 2021

Molson Factory Discharge Pipeline Project Uses Ductile Iron Pipe

A new Molson beer factory in the city of Longueuil, Quebec, Canada required installation of a discharge pipe for the return of production water from the plant.

Cement-mortar lined Ductile iron pipe was chosen as the material to carry the water from the facility back to the South Shore Treatment Center.

Entreprises GNP Inc was the contractor in charge of installing 17,700 feet of 16" Ductile iron pipes, which will carry water at elevated temperatures. The majority of the pipeline is equipped with pressure class 350 push-on joint pipe with cement lining. V-Bio® Enhanced Polyethylene Encasement was also used in the installation.

The project contained three trenchless installations, which included:

- Pulling Ductile iron pipes through a steel casing under a major road
- Two sections, each 220 feet, horizontally directionally drilled to avoid disturbance of existing utilities

All three trenchless installations used pressure class 350 Ductile iron pipes with flexible restraint joints.

Sam Ghosn, M.A.Sc, P.Eng, DIPRA's Regional Engineer in Canada, visited the jobsite in June, 2020 to see the project's progress.

Sliplining Ductile iron pipe inside a steel casing under the road.

Horizontal directional drilling of V-Bio® Enhanced Polyethylene Encased Ductile iron pipe at the entrance pit.

"We confirm that the 5.4 km 16" Ductile iron pipe project went very well and were installed on schedule, including the two installations using horizontal directional drilling. Everything has been successfully tested in one trial without any leaks, which is great for an installation that started in February 2020 during the challenging winter conditions, snow and cold. Entreprises GNP, as well as the City of Longueuil's staff involved in this project, are very proud to have installed Ductile Iron pipes."

— Mr. Kevin Gendron, Project Manager

Visit dipra.org to find out information and resources on the design and application of Ductile iron pipe.

Thank you,
Patrick Hogan
President, DIPRA