

ANNACIS ISLAND WASTEWATER TREATMENT PLANT NEW OUTFALL PIPE

MAY 2020

Upgrading the Annacis Island Wastewater Treatment Plant will allow the plant to meet the needs of our growing population, strengthen its ability to operate in the event of an earthquake, and adapt to climate change. These upgrades will ensure the continued protection of public health and the environment.

Project Overview

As part of Metro Vancouver’s commitment to protect public health and the environment, upgrades to the existing Annacis Island Wastewater Treatment Plant began in June 2017. This work includes the construction of a new outfall pipe to carry treated wastewater from the plant to the Fraser River.

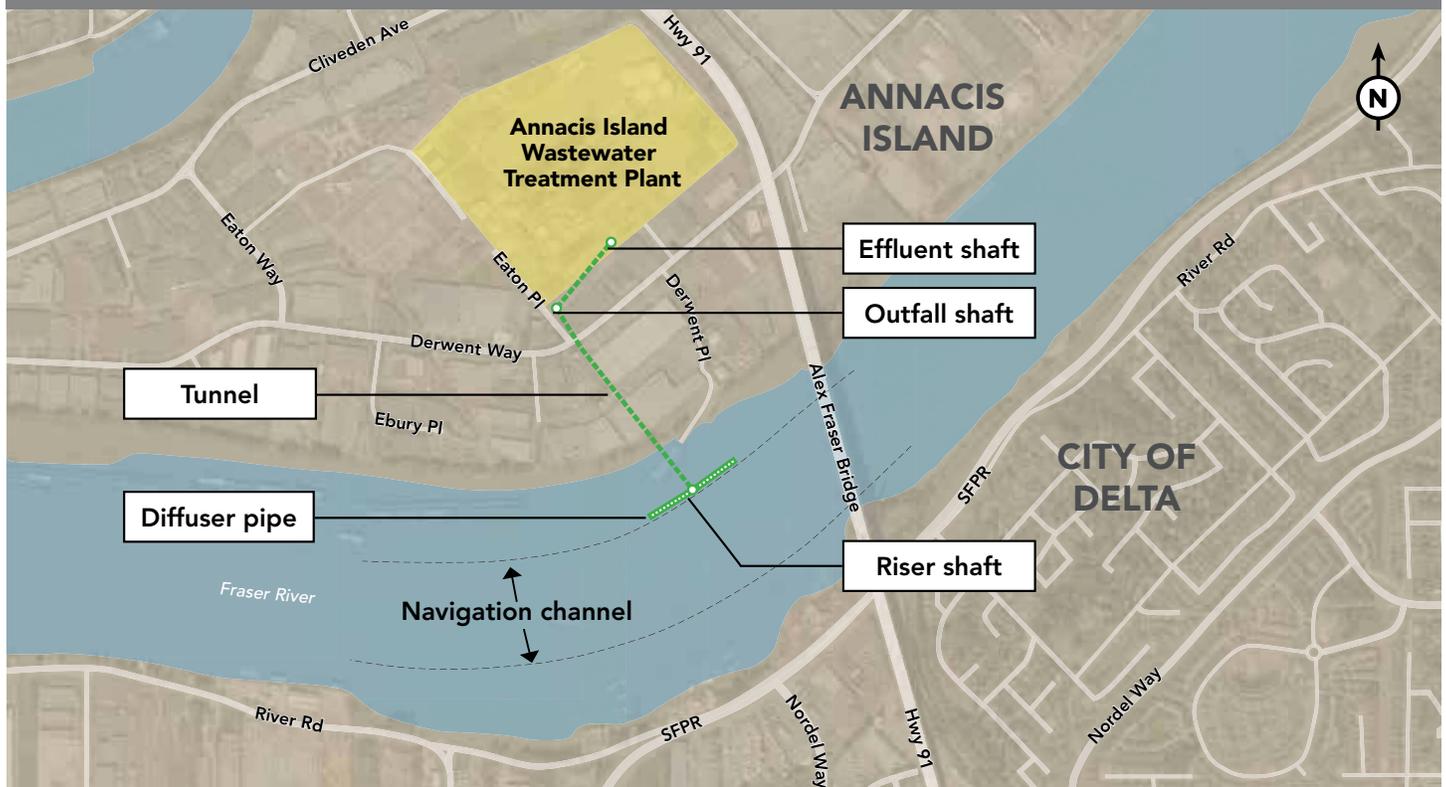
The New Outfall

The outfall is approximately one kilometer long and will be constructed from the plant to the river, where a diffuser system will be installed. The diffuser system will release treated water through multiple ports attached to the pipe. Each diffuser port will be fitted with a protective covering that will extend two meters above the river bottom. The new outfall location and design will ensure that treated effluent is dispersed over a broad area underwater to maximize dilution and minimize the impact on the environment.

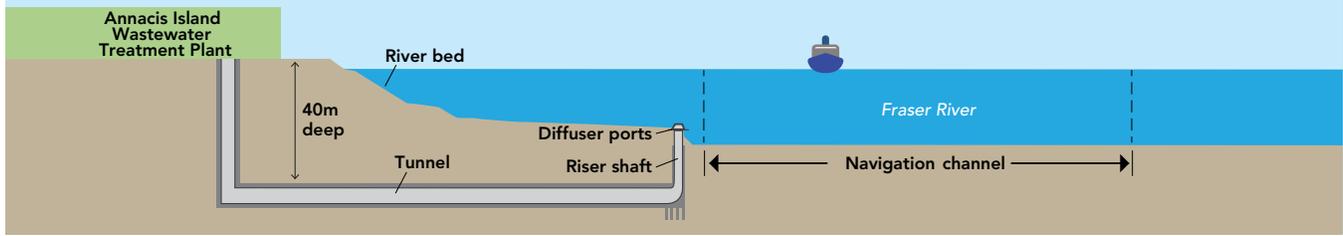
COVID-19 and Delivery of Essential Services

Metro Vancouver continues to closely monitor developments regarding COVID-19 and our paramount commitment is to maintain essential services to the region while protecting the health and safety of our employees and partners. Metro Vancouver’s construction projects are key components in ensuring the ongoing delivery of essential services as defined by the Province of BC. Metro Vancouver follows the guidance of the Provincial Health Officer and is taking all necessary measures to ensure our work sites remain safe and healthy.

LOCATION OF THE ANNACIS WASTEWATER TREATMENT PLANT UPGRADES AND NEW OUTFALL



NEW OUTFALL TUNNEL ROUTE



Construction Timeline

Work is expected to be complete by August 2023. Construction will take place in phases. These phases include construction of two on-land shafts and four seasons of in-river work to connect the riser shaft and diffuser pipe and retrofit the existing outfall.

Work in the river will take place between mid-June and the end of February each year.

In-River Construction Activities

Season 1 – 2020: Installation of cofferdam and construction of riser shaft. The cofferdam will be removed at the end of this season.

Season 2 – 2021: Construction of diffuser pipe. This will require a barge and some clamshell dredging of river bottom.

Season 3 – 2022: Connecting the diffuser pipe to the river riser and retrofit the existing outfall. This work will be done by a diver, and will require a small barge and crane to complete. No riverbed disturbance will occur as a result of this work.

Season 4 – 2023: Retrofit existing outfall.

Hours of Work

Beginning June 2020, work will take place 24 hours a day, 7 days a week. Please note that river conditions and flow rates may impact the work schedule. All work will comply with City of Delta's and Vancouver Fraser Port Authority's granted bylaw variance.

Environmental Considerations

A number of mitigation measures are in place to ensure impacts to fish, river users, shoreline habitat, and archaeological sites are minimized including a Navigation Protection Plan and Environmental Monitoring during construction.

Our Commitment to You

Metro Vancouver is committed to minimizing the impacts of this project on the marine environment and surrounding community, and to working closely with key stakeholders to listen to concerns and interests throughout the project. As part of our commitment Metro Vancouver will:

- Follow a permitting and approvals process at the federal and provincial levels
- Work with businesses, First Nations and government agencies to identify potential project impacts and determine possible solutions
- Develop and implement traffic management plans to ensure traffic flow and property access are not significantly interrupted
- Develop and implement a river work plan to ensure construction does not significantly interfere with marine traffic and activities
- Provide a Community Liaison Officer to respond to questions and concerns
- Provide regular project updates via newsletter, web updates, and traffic advisories

Project Updates

For additional information on this project, please visit www.metrovancouver.org and search: "Annacis Island."

Contact Us

Community Liaison: 604-432-6200
(Monday to Friday from 8 a.m. to 4:30 p.m.)

After Hours Emergency: 604-451-6610

Email: icentre@metrovancouver.org
(Please include "Annacis Island" in the subject line)

 @MVRoadwork