

FAQ's – Frequently Asked Questions, Waste Discharge Permit:

1. What is the permit for?

Allowing Fraser Surrey Docks LP (FSD) to discharge water directly to the Annacis Island Treatment Facility via Metro Vancouver's North Surrey Interceptor Sewer, ensuring that it is properly treated.

2. How much water will be discharged through Metro Vancouver (MV) Annacis Island Treatment Facility?

The annual estimated volume to be discharged through to MV is 9,000 cubic meters or 9,000 tonnes. This volume represents 0.0001% of overall annual volume through the Annacis Island Treatment Facility ¹.

3. Is the water being put directly into the municipal sewer system?

No, the water is not going into the municipal sewer system. The water collected on-site will be re-directed to sediment basins at FSD where solids will be treated and the solids allowed to settle prior to discharge into the Annacis Island Treatment Facility.

4. How is this water being used at FSD?

The water will be used in the coal facility for dust mitigation processes, equipment wash down, and storm water runoff from the controlled coal handling area.

5. What happens with the water at FSD?

FSD is currently designing the settling basins and treatment delivery systems to optimize solids settling prior to discharge. The water collected on-site will be re-directed to sediment basins at FSD where solids will be treated and the solids allowed to settle prior to being discharged directly into the Annacis Island Treatment Facility. FSD is aiming to meet and exceed the minimal requirements of the sanitary system through on-site management and treatment of collected water. Water that has accumulated in the settlement ponds can also be used to control dust during dry periods thus further minimizing the discharge to the sanitary sewer system.

¹ http://www.metrovancouver.org/services/liquid-waste/LiquidWastePublications/2013_Wastewater_Quality_Control_Annual_Report.pdf

6. How do you know that the water going into Metro Vancouver's (MV) Annacis Island Treatment Facility is not laden with coal?

The system is designed to ensure all discharge water meets Metro Vancouver's Bylaw 299 – Schedule "B"- Restricted Waste Criteria for Suspended Solids, oil/grease and other parameters as necessary before any discharge occurs.

Additionally, all treated water to be discharged to MV's system will be sampled and analyzed for the following parameters; pH, TSS, BOD, Chloride, sulphate, oil and grease (total and hydrocarbon based), polycyclic aromatic hydrocarbons (PAH), benzene, ethylbenzene, toluene and xylenes (BETX) and total metals. FSD will submit frequent (as require per permit conditions) reporting of laboratory and *in situ* water quality data collected in support of the discharge program permitted.

7. How will FSD control how much water goes into the Metro Vancouver (MV) Annacis Island Treatment Facility?

The permit will restrict the discharge to a maximum of 5 liters/second (0.005 cubic meters/second). During times of discharge to MV's system, the volumetric flow rate will be monitored and logged 24/7 with all data submitted to MV in real time.

8. How will FSD control the water discharge in the case of major rain or large scale weather events?

The maximum discharge rate of 5 litres/second is the amount of water that may be discharged to the sanitary system during the wet months, and can only be discharged when site water has accumulated to full capacity due to seasonal precipitation. FSD is designing the system to accommodate large-scale weather events with a storage capacity of 550,000 litres. Also within the boundaries of the facility, there will be an additional 400,000 litres of storage capacity acting as a contingency in the unlikely event of an emergency.