



ITT

Water & Wastewater
Case story | Dewatering

ITT W&WW Canada saves blueberry farms in “Coquitlam Diking District”, BC with Diesel driven pumps and steel piping discharge connections.

Flood control pumps for the “Coquitlam Diking District” were shut down for repairs. Due to unforeseen circumstances, the repair could not be completed on time. The rising level of the Fraser River was adding stress. In such a scenario, The Ministry of Environment contacted Kamal Singh, Dewatering Specialist at ITT Water & Wastewater Canada in Vancouver to design and install a temporary flood control system.

Mr. Singh soon visited the job site and observed that due to high water level in the Fraser River, hydraulic gates were closed and there was no transfer of water under gravity. The existing pump station which was down for repair moved approx 10,000 to 14,000 usgpm. And there was no electricity available. He also observed that continuous rain was damaging blueberry farms and something had to be done quickly.

ITT W&WW proposed to use 2 X 12” Diesel Driven pumps with 2 X 12” Kwik-Lok steel piping discharge connection. Each pump calculated to deliver 6,500 usgpm (for a total of 13,000 usgpm) at 40 feet of head and 1800 rpm. These pumps had an exclusive ENVIROPRIME® priming system, which prevents blow-by and achieves prime without filling the casing with water.

To install the pumps, ITT W&WW proposed to get a mobile HIAB crane with an extended arm. The dike road had a steep grade and it was tough and dangerous to operate any other kind of material handling equipment.

The system was proposed to and rapidly accepted by the “Ministry of Environment”. Crews began to put steel piping together, installing the pumps and situating the elbows and flanges.

Once installed, the flood control system operated flawlessly and at finest levels as forecasted. The “Ministry of Environment” and berry farmers were highly thankful to ITT W&WW.



A mobile crane was called on the job site to install the diesel driven pumps and piping discharge connections.



The 2 piping discharge connections overlooking the Fraser River.

Kamal Singh, ITT Water & Wastewater, Dewatering Specialist, Vancouver at (604) 941-6664

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ITT Water & Wastewater Canada Dewatering division

Created to meet the increasing demands for a full fledged solution driven company, the Dewatering division mandate is to engineer, manage and supply major temporary site dewatering and sewage bypass projects in the municipal, construction, industrial and mining sectors. On-site project supervision, technical expertise and equipment maintenance services are also offered.

Built on ITT's 50 years of Canadian water handling experience, the Dewatering division specializes in effective and environmentally secure water and wastewater transfer applications such as Sewage Bypass, Excavation Dewatering, Flood Drainage, Surface Irrigation and Mining Dewatering.

It also offers a full service rentals program. A complete line of submersible pumps, engine-driven suction pumps, generators, piping and complementary accessories are available for either long or short-term rental. With 14 coast to coast service locations, ITT W&WW Canada is the only nation-wide company to offer complete turn-key water handling solutions, expertise and products.

