

File:

July 5, 2024

**Sent via email only:** email info

Kyle Shaw  
1000 Piercy Ave  
Courtenay, BC V9N 3E6

Dear Kyle,

**Re: Courtenay Pump Station construction dewatering**

Per our email correspondence, CVRD are requesting to temporarily connect a 3" pipe to a City of Courtenay sanitary manhole as a back-up dewatering discharge if the filtration and settling facilities on the construction site are overloaded. CVRD acknowledge that this is not approved by City bylaws and would not normally propose such a solution for groundwater, but the rationale for this request is:

- During procurement, the Design-Builder raised the potential to discharge groundwater to the existing Courtenay Pump Station as a cost saving measure to reduce their risk. CVRD accepted this with strict language on flow rates to ensure the pump station capacity is not threatened;
- Due to the archaeological risk and traffic disruption of running the discharge across the road before the holistic Traffic Management Plan for uni-directional flow on Comox Road is implemented in 2025, the contractor has proposed to discharge into the City's East Courtenay Trunk in the last manhole upstream of CVRD infrastructure;
- The primary discharge will be to the road-side swale which drains towards Glen Urquhart Creek, with filtration and settling facilities and Qualified Environmental Professionals on-site to ensure the discharge meets provincial Approved Quality Guidelines. The discharge to sanitary manhole is only if the filtration and settling facilities are unable to meet these standards, and will only be used temporarily for a time until they can meet them again; and
- The proposed discharge is scheduled to be completed between end of July and end of October, during a period of low inflow and infiltration (I&I), when the flow within City's trunk mains is usually low.

CVRD have provided drawings of the proposed dewatering set-up of the site (total excavated site area of 200m<sup>2</sup>) as well as the project's Construction Environmental Management Plan, which provides detailed information on dewatering standards, spill prevention and response, surface water control and contamination chance find procedures. In addition, the detailed information on the maximum flow discharge into the City's manhole is provided below:

- Maximum instantaneous Peak Flow Rate: 126 L/s
- Maximum daily discharge rate: 10,833 m<sup>3</sup>/day
- Total maximum discharge volume over requested term of Permit: 1,216,922 m<sup>3</sup>

Discharging any flow into City's sanitary system will increase the total inflow into the Courtenay Pump Station, which is totalled to apportion municipal acquisition costs for the Sewer Service. To mitigate this, CVRD will ensure a flow instrument (mag meter) is installed and monitored on the discharge line to the manhole and all flows will be subtracted from the Courtenay Pump Station flows for the duration of the works.

CVRD recognize that this proposal introduces risk to City infrastructure, from potential surcharging of the manhole. CVRD are willing to provide and agree to an indemnity agreement to ensure that the City bares none of this risk. CVRD believe this risk to be very low, per the following details:

- Maximum dewatering discharge: 126L/s
- East Courtenay Trunk gravity flow capacity (theoretical): 340L/s.
- Max combined flow CVRD will allow into existing Courtenay Pump Station (West Courtenay Siphon + East Courtenay Trunk + construction dewatering) before shutting off groundwater discharge: 300L/s

CVRD appreciates City staff and council putting their time and energy towards this request in the effort to implement this vital project for us both as efficiently as possible.

Sincerely,



Senior Manager of Capital Project Delivery  
Comox Valley Regional District  
770 Harmston Ave.  
Courtenay, BC V9N 0G8

cc: Marc Rutten  
Rodney Armstrong