

Residual Solids Conveyance Line

The Residual Solids Conveyance Line is part of the Wastewater Treatment Project. It includes two pipes and three small pump stations connecting the McLoughlin Point Wastewater Treatment Plant to the Residuals Treatment Facility at Hartland Landfill.

Pipe installation is anticipated to begin in January. Don Mann Excavating Ltd. has been selected to complete this work and construction is anticipated to take 18 months and be complete spring 2020.

The first pipe will be 250mm (10 inches) in diameter and 19.3km long and will transport residual solids from the McLoughlin Point Wastewater Treatment Plant to the Residuals Treatment Facility for treatment.

The second pipe will be 300mm (12 inches) in diameter and 12.4km long and will return the liquid removed from the residual solids during the treatment process at the Residuals Treatment Facility to the Marigold Pump Station, from where it will be returned to the McLoughlin Point Wastewater Treatment Plant through the existing conveyance system.

The pipe will be installed in segments within existing road rights of way. It will be constructed in accordance with a traffic management plan to minimize impacts to vehicle traffic, cyclists and pedestrians, including measures to minimize work hours at busy intersections the route crosses to accommodate commuter traffic. There will be single lane alternating traffic with signage and flaggers directing traffic as required. Any temporary impacts to driveway access and parking during work hours will be coordinated in advance.

The alignment was developed with the District of Saanich, Township of Esquimalt and City of Victoria based on technical, environmental, social, and economic considerations. Infrastructure improvements will be made at certain points along the route including new curbs, gutters and sidewalks.

PUMP STATIONS

Three pump stations will be built along the route of the Residual Solids Conveyance Line to pump the residual solids due to the distance and elevation change. The pump stations are located within road rights of way. The locations of the pump stations were determined based on the grade of the route and flow rates.

The pump stations are designed with state-of-the-art odour control systems that contain and suppress odour so there is no discernible smell in the community. Noise will be minimal and will comply with District of Saanich standard practice. Landscaping features include a variety of trees, shrubs and ground coverings that will be planted and maintained.

The pump stations will be automated and owned and operated by the CRD.



Wastewater Treatment Project

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Artist rendering of the pump station to be located on Interurban Road Trail near West Saanich Road and Observatory Road.



Artist rendering of the pump station to be located at Interurban Road and Courtland Avenue.

For More Information

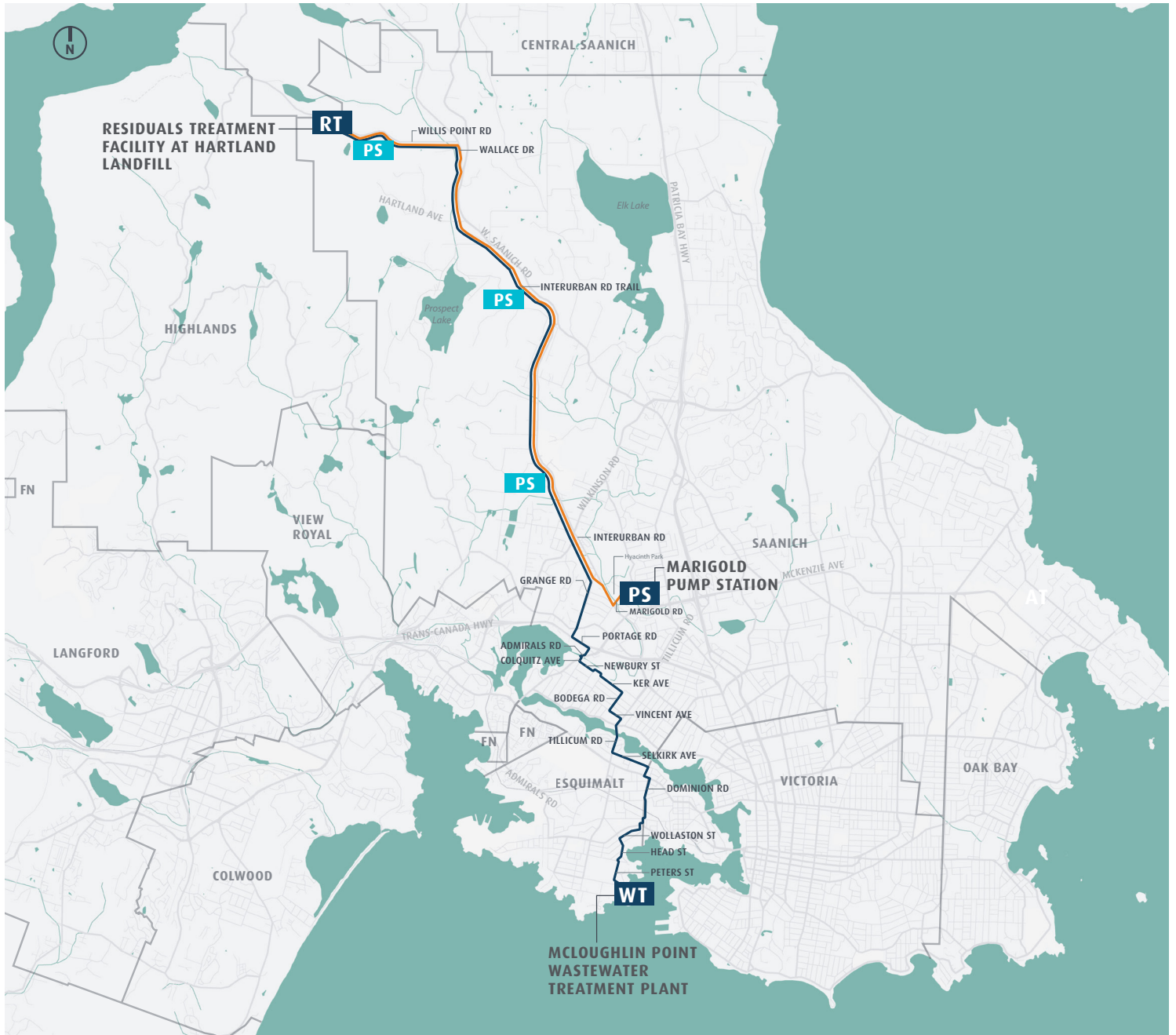
Website: wastewaterproject.ca

Email: wastewater@crd.bc.ca



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SYSTEM OVERVIEW

WASTEWATER FACILITIES

- WT** TREATMENT PLANT
- PS** PUMP STATION
- PS** SMALL PUMP STATION

SEWER ALIGNMENT

- RESIDUAL SOLIDS CONVEYANCE LINE
- RETURN LINE