



# RESIDUAL SOLIDS CONVEYANCE PIPE



## Background

The Seaterra Program will provide wastewater treatment for the CRD core area municipalities. The Program includes:

- >> Wastewater Treatment Plant at McLoughlin Point
- >> Resource Recovery Centre (RRC) at Hartland Landfill
- >> Pumping stations and interconnecting conveyance pipes

The Treatment Plant at McLoughlin Point will separate the solids, treat liquids and discharge clean effluent out a new deep sea outfall. The residual solids will then be piped to the RRC at Hartland Landfill for treatment and the recovery of resources such as phosphorus (fertilizer), biogas and biosolids.

The Residual Solids Conveyance Pipe, an underground 8-inch diameter pipe, will transport the residual solids – made up of 98 per cent water (two per cent solids), from the Treatment Plant to the Resource Recovery Centre. A second underground return line (installed in the same, common trench), will transport all extracted water from the RRC back



>> Installation of a conveyance pipe in Esquimalt.

to the existing regional sewer system at Marigold Pump Station.

The Residual Solids Conveyance Pipe will be about 18.5 kilometres long and require up to four pump stations to help move the residual solids to the RRC. The proposed pipe and pump stations will be similar in size, function and appearance to the existing 175 pump stations

and 110 kilometres of sanitary sewer pressure pipe in the existing Core Area wastewater collection system. Moving residual solids through pipes and pumps is a common and preferred practice (versus trucking), and has been done this way at many wastewater facilities in Canada, the United States, and Europe.

## Residual Solids Conveyance Pipe Route

In March 2014, the Seaterra Program announced the route of the Residual Solids Conveyance Pipe. The route is located entirely within existing road right-of-ways within the municipalities of Esquimalt, Victoria, and Saanich. Seaterra Program staff worked with staff

from each municipality to review the route and took into account technical, environmental, social and economic considerations. A map of the route can be found online at [www.seaterraprogram.ca](http://www.seaterraprogram.ca).

## CONSTRUCTION

Construction is scheduled to commence in 2015 and will be complete by the end of 2017. The Seaterra Program will work with municipal staff and the public to ensure that construction impacts are kept to a minimum and opportunities are identified for reduction and mitigation of these impacts. The Seaterra Program will follow CRD and municipal standards for restoring roadways and other surface areas to the same, or better condition as before construction.

The Residual Solids Conveyance Pipe will be installed approximately one metre below ground, similar to municipal sewers and watermains. The conveyance pipe will be installed in segments to minimize disruption. Usually about 50 to 100 metres of this type of pipe can be installed per day depending on ground conditions and existing utilities. This roughly equates to one city block of pipe being installed and backfilled per day.

## ROAD & DRIVEWAY ACCESS

A traffic management plan will address traffic disruptions, truck traffic and maintaining access to nearby residences. No roads will be closed, but single-lane alternating traffic will be required in some sections.

Access to driveways will also be maintained except during short periods when the work is advancing directly in front of a driveway. Advance notice will be provided prior to working directly in front of driveways so that residents can arrange to remove their cars. In most cases, driveway access will be re-established by the end of each working day.

## COMMUNICATION

Information letters (with Seaterra Program staff and contractor contact names and phone numbers) will be provided to residents and community associations along the route at the start of construction and updated, as required, throughout the project.

## Pump Stations

Up to four pump stations will be constructed along the Residual Solids Conveyance Pipe route. Pump stations will be constructed in the road right-of-ways and located underground. Some small, above ground, components will be required, including a control kiosk and standby generator. The exact locations of the pump stations are still to be determined, but will be located in the vicinity of:

- >> Grange/Portage Road at the Trans-Canada Highway
- >> Interurban Road near the BC Hydro Substation
- >> Wallace Road at West Saanich Road
- >> Willis Point Road across from Hartland Landfill



>> Potential pump station on Willis Point Road.

You can find detailed information about the Seaterra Program including a map of the Residual Solids Conveyance Pipe and Pump Stations at [www.seaterraprogram.ca](http://www.seaterraprogram.ca).

## MCLOUGHLIN POINT

As you may know, on April 7, 2014, Esquimalt council voted not to approve the Capital Regional District's (CRD's) request for changes to the zoning of the McLoughlin Point site for the Wastewater Treatment Plant. This decision does not change the requirement for the CRD to comply with provincial and federal

regulations that stipulate the CRD must provide secondary sewage treatment for Core Area municipalities prior to the federal deadline of 2020.

The CRD Board will determine the next steps concerning the siting of the Wastewater Treatment Plant at McLoughlin Point. Until directed otherwise by the CRD Board, the Seaterra Program will continue with

the implementation of the approved Liquid Waste Management Plan, including the development of the Residual Solids Conveyance Pipe and Pump Stations. Program construction is already underway and procurement for several other facilities is ongoing. We will provide any updates on our website and at the Open Houses as we move forward.

## CONTACT INFORMATION

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