

# Welcome



**Wastewater  
Treatment Project**  
Treated for a cleaner future



*Artist rendering of the Macaulay Point Pump Station*

## **Welcome to the Macaulay Point Pump Station and Forcemain Community Information Open House.**

Construction of the Macaulay Point Pump Station and Forcemain will begin this spring. Kenaidan Contracting Ltd. is the contractor that has been selected to design and build the new pump station and forcemain.

Representatives from the Wastewater Treatment Project Team and Kenaidan are here to provide you with information and respond to your questions regarding this project.

# Wastewater Treatment Project



Wastewater Treatment Project  
Treated for a cleaner future

The Wastewater Treatment Project will provide tertiary treatment for wastewater from the core area municipalities of Victoria, Esquimalt, Saanich, Oak Bay, View Royal, Langford and Colwood, and the Esquimalt and Songhees Nations. The Project will be built so we comply with federal regulations by the end of 2020.

## The Wastewater Treatment Project consists of three main elements:

### MCLOUGHLIN POINT WASTEWATER TREATMENT PLANT

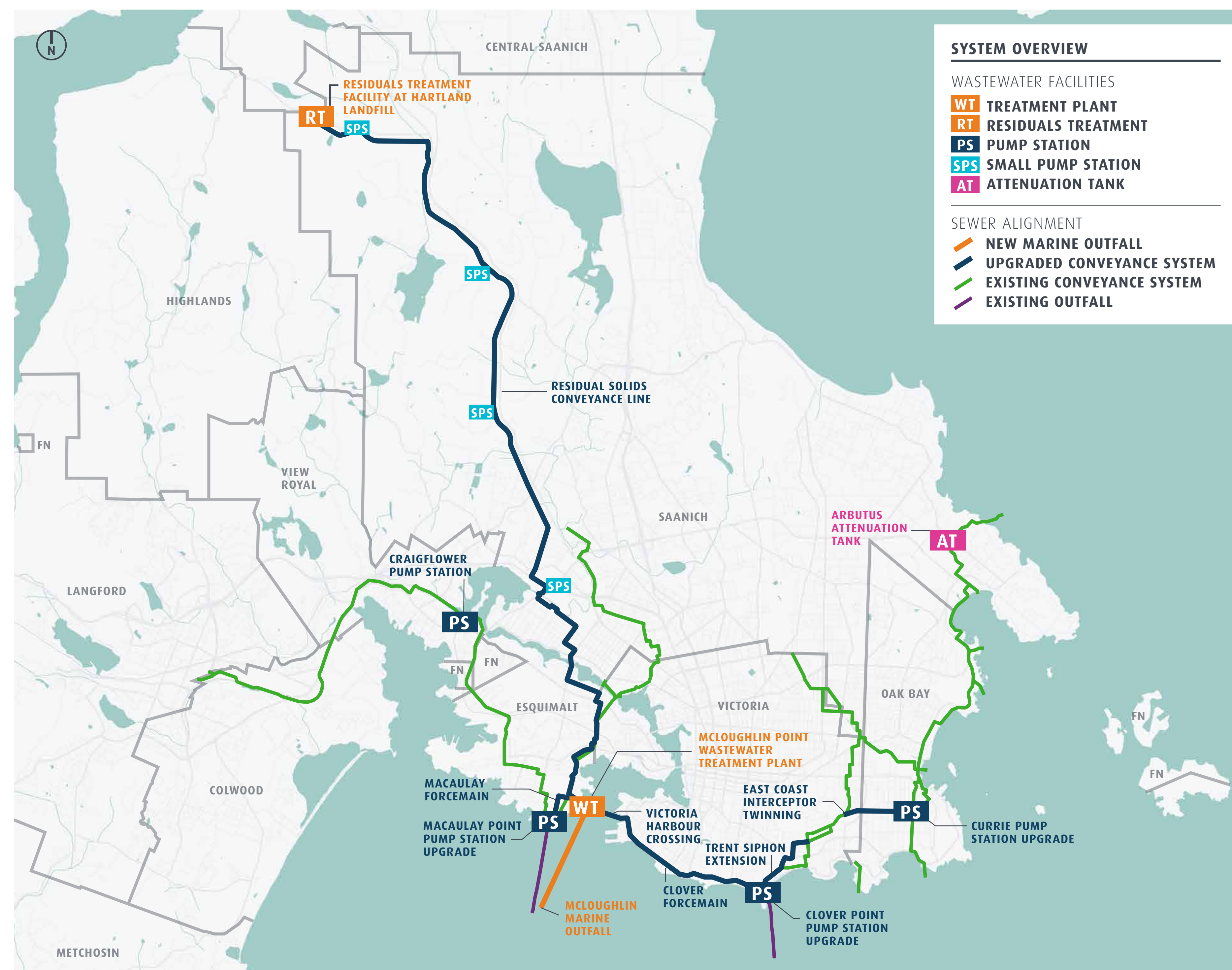
Located at McLoughlin Point, the wastewater treatment plant will provide tertiary treatment to the core area's wastewater.

### RESIDUALS TREATMENT FACILITY

Residual solids from the wastewater treatment plant will be piped to Hartland Landfill, where they will be turned into what are known as Class A biosolids. These biosolids are a high quality by-product treated such that it is safe for further use.

### CONVEYANCE SYSTEM

The conveyance system refers to the “pumps and pipes” of the Wastewater Treatment Project. This system will carry wastewater from across the core area to the treatment plant, and carry residual solids from the wastewater treatment plant to the residuals treatment facility.



# Project Funding



**Wastewater  
Treatment Project**  
Treated for a cleaner future

The Wastewater Treatment Project costs \$765 million.  
The Project is funded by:

## **GOVERNMENT OF CANADA**

- Up to \$120 million through the Building Canada Fund for the McLoughlin Point Wastewater Treatment Plant
- Up to \$50 million through the Green Infrastructure Fund for the conveyance system
- Up to \$41 million through the P3 Canada Fund for the Residuals Treatment Facility

## **GOVERNMENT OF BRITISH COLUMBIA**

- Up to \$248 million for the three components of the Project

## **THE CAPITAL REGIONAL DISTRICT**

- Remaining \$306 million for the three project components; responsible for any additional costs



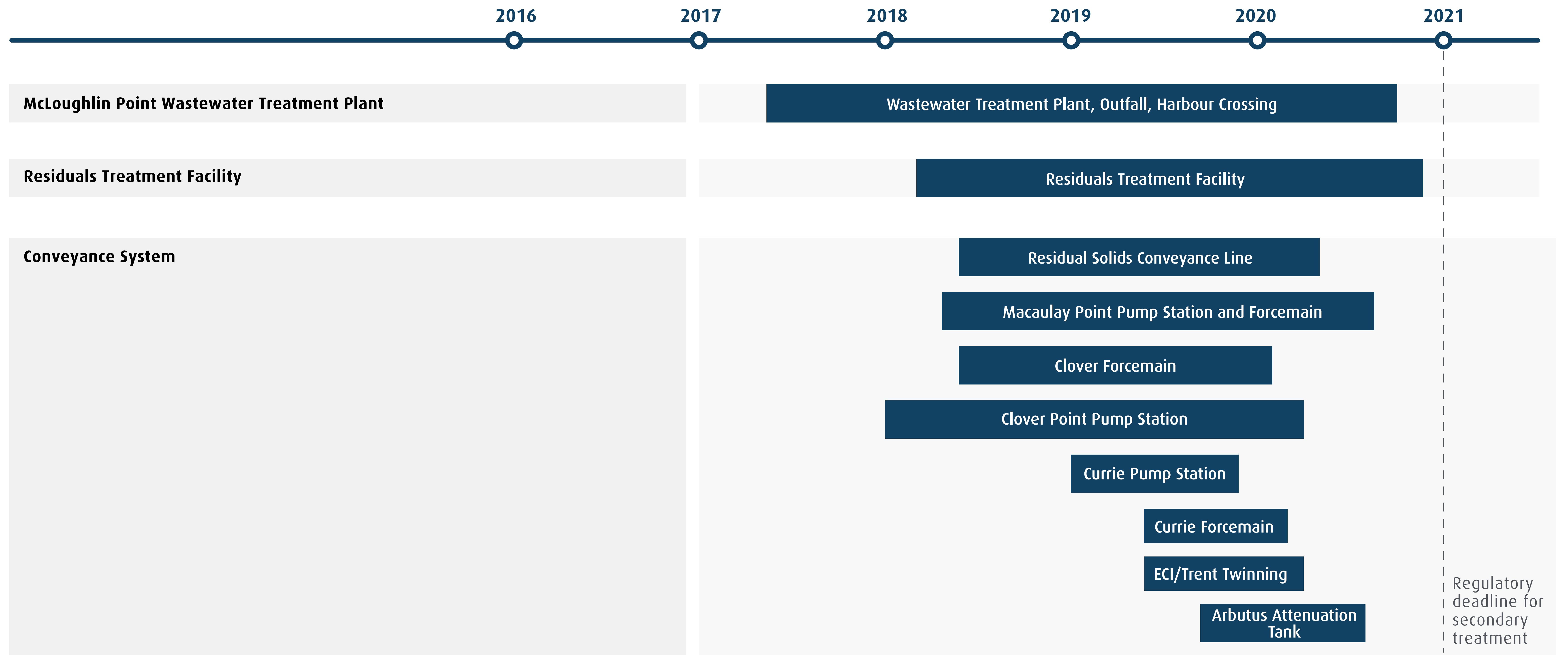
# Project Schedule



**Wastewater Treatment Project**  
Treated for a cleaner future

The Wastewater Treatment Project will be constructed through nine separate contracts, and construction will be staged to the end of 2020. Communications and engagement activities will take place in advance of project construction beginning in each area.

**Construction + Commissioning**



\*Schedule subject to updates as project planning progresses.

# Macaulay Point Pump Station and Forcemain



Wastewater Treatment Project  
Treated for a cleaner future

The Macaulay Point Pump Station will pump wastewater from Colwood, Langford, View Royal, Esquimalt, Saanich and Victoria to the McLoughlin Point Wastewater Treatment Plant for tertiary treatment.

The new Macaulay Point Pump Station will continue to provide bypass pumping to the Macaulay Point outfall during heavy rainfall.

The Macaulay Forcemain is the pipe that will connect the Macaulay Point Pump Station to the McLoughlin Point Wastewater Treatment Plant.

## NOISE AND ODOUR

Noise from the new pump station will not exceed the current level of noise from the existing pump station.

The pump station will be designed with state-of-the-art odour control systems so there will be no discernible odour in the community.



Macaulay Forcemain route

# Macaulay Point Pump Station Design



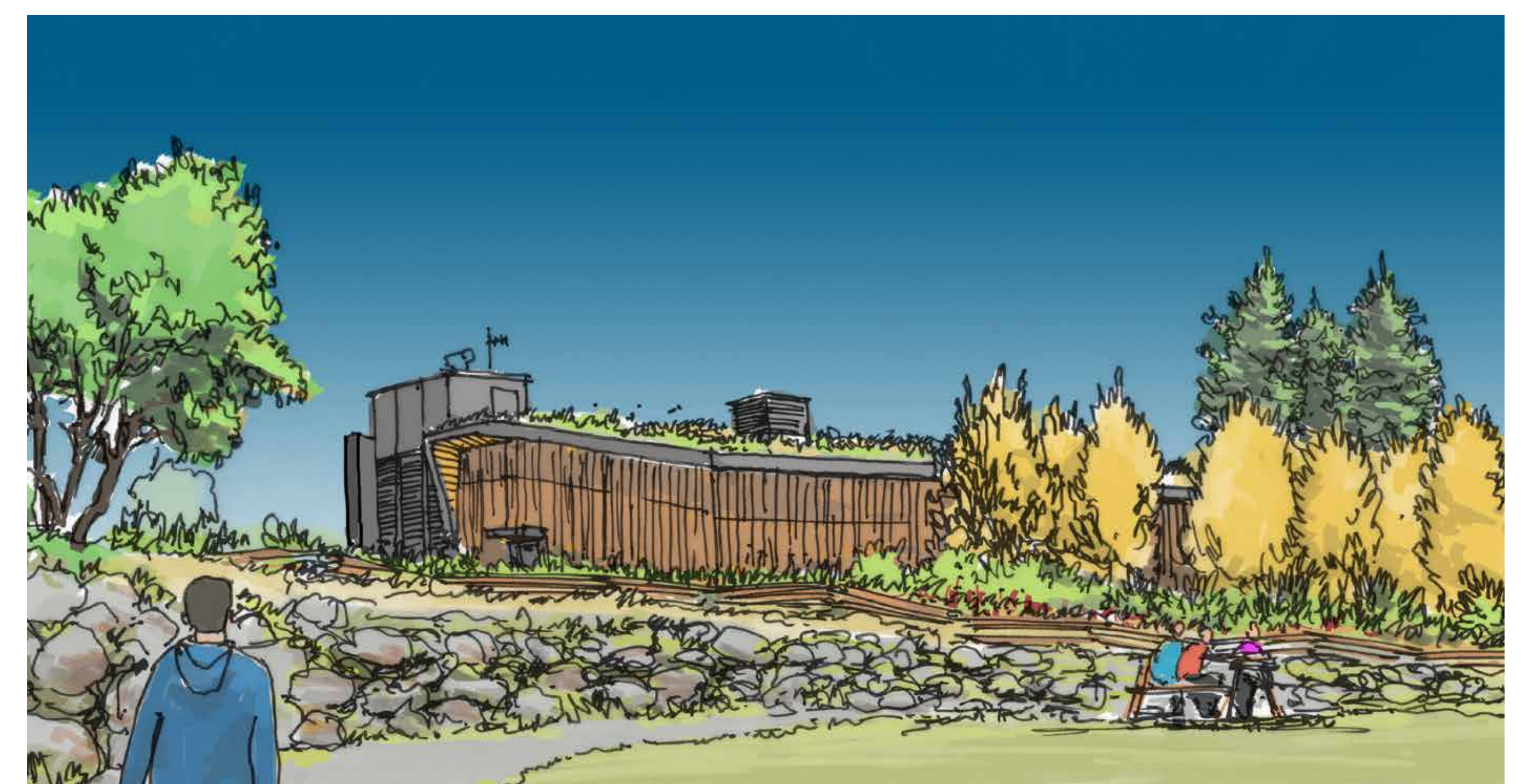
**Wastewater  
Treatment Project**  
Treated for a cleaner future

The new pump station design reflects its location on the waterfront, greatly improving the visual impact of the building and creating a park amenity for the community to enjoy.

The new pump station will be constructed of wood and will be mostly below-grade, increasing green space for the community. There will be one storey above ground, with a pitched roof that slopes toward the ocean. This building shape will complement the slope of the site, minimizing its impact on the landscape.

The pump station design applies Leadership in Energy and Environmental Design (LEED) principles. Sustainable design elements include:

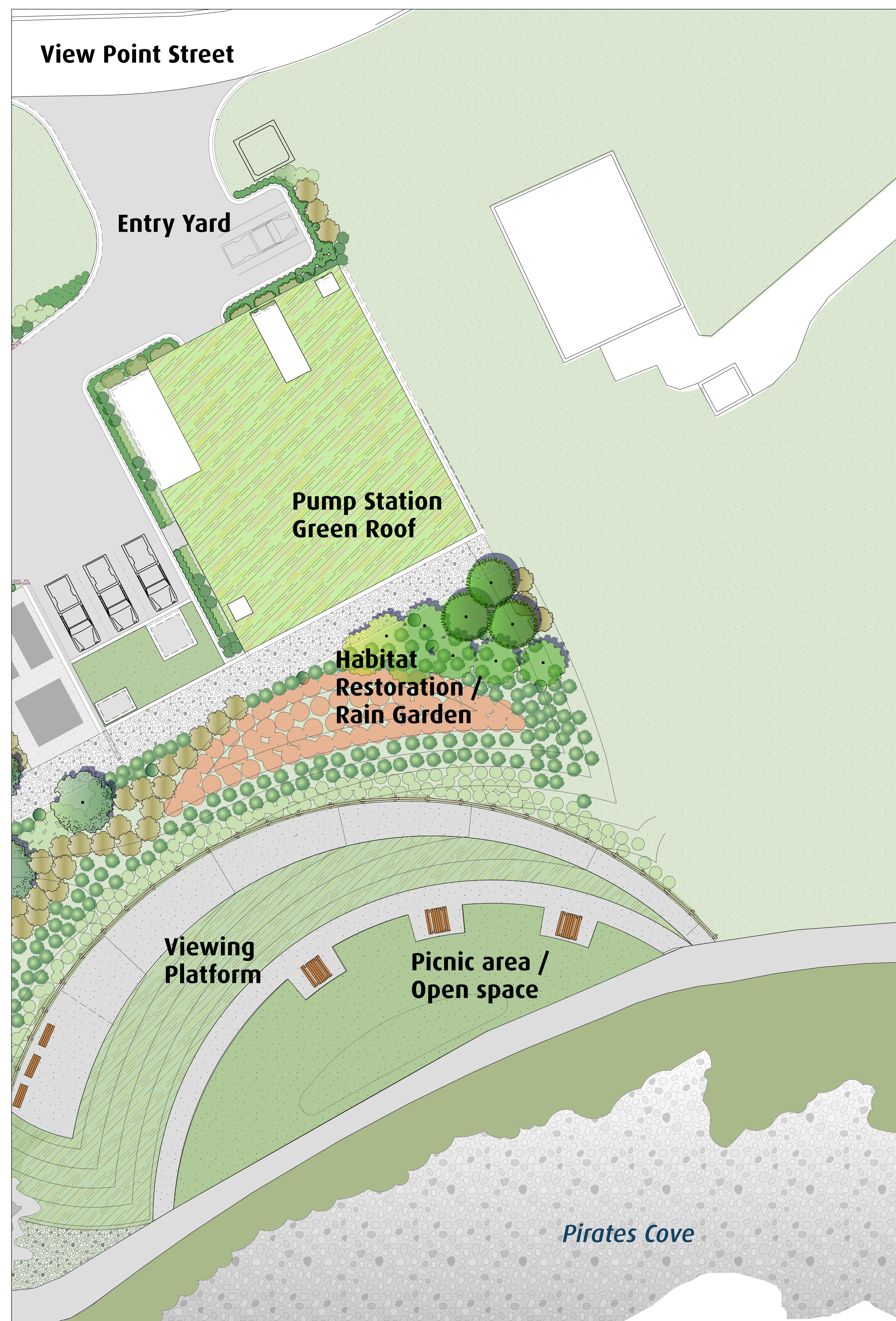
- Rainwater run-off control using a rain garden and storm water management system
- Native plants to reduce irrigation requirements
- Low-level lighting to minimize light pollution
- Green roof
- Increased park space
- Durable materials with the above grade structure made entirely of B.C. wood



# Macaulay Point Pump Station Site Map



**Wastewater  
Treatment Project**  
Treated for a cleaner future



## LANDSCAPE DESIGN FEATURES

Landscaping will be used to integrate the building with the surrounding area.

The design maximizes vegetation opportunities and landscape functionality: it transforms an almost entirely impermeable lot into an environmentally-rich, park-like setting with public amenities.

The landscape design:

- Supports Macaulay Point Park Management Plan goals
- Creates the foundation for a self-sustaining ecosystem, including biological diversity and opportunities for bird and wildlife habitat
- Creates a drought-tolerant landscape
- Creates an attractive, welcoming, safe environment for residents

# Macaulay Point Pump Station Construction



**Wastewater  
Treatment Project**  
Treated for a cleaner future

**Construction of the Macaulay Point Pump Station will begin in March 2018 and is anticipated to be complete in summer 2020.**

Construction at Macaulay Point will be similar to any urban construction site. Construction works will include: site preparation and excavation; pouring concrete foundations; exterior building construction; mechanical and electrical work inside the building; demolition of the existing building; and landscaping.

Construction fencing and signage will be installed around the construction site. The waterfront trail will remain open to the public during construction and operations of the Macaulay Point Pump Station.

Construction activities will comply with the local noise bylaw for hours of work and noise levels. Anticipated work hours are Monday to Friday from 7:00 a.m. to 6:00 p.m. with limited work anticipated on Saturdays. No work is planned for Sundays or holidays, except on rare occasions when a critical piece of work must be completed promptly to reduce community impacts.



*The waterfront trail will remain open during construction and operations*



# Macaulay Forcemain Construction



Wastewater  
Treatment Project  
Treated for a cleaner future



*Example of pipe installation*

**Construction of the Macaulay Forcemain will begin in March 2018 and take approximately two years to complete.**

The forcemain (pipe) will be installed in segments in a linear manner, to minimize impacts to residents and traffic. All work will be completed within existing roads.

The sequence of construction for each segment is anticipated to be as follows:

- Survey the pipe location and confirm existing underground utilities
- Install traffic controls and construction signage
- Cut the pavement
- Join the pipe and store it on the surface of the ground
- Dig the trench and place the pipe in the trench
- Backfill the trench and compact the surface
- Pave and restore the surface

# Esquimalt Liaison Committee



**Wastewater  
Treatment Project**  
Treated for a cleaner future

The Township of Esquimalt and the Wastewater Treatment Project Team established a liaison committee to provide a forum for the discussion of interests and issues relating to the construction and operation of the Wastewater Treatment Project components in Esquimalt.

The Esquimalt Liaison Committee ensures an opportunity for the Wastewater Treatment Project Team, Harbour Resource Partners, Kenaidan, and key community members and associations to facilitate a two-way information exchange to provide project updates and construction information while considering the needs of the community of Esquimalt.

The Committee has met 11 times, and continues to provide ongoing and helpful input on local matters such as Project truck traffic and traffic calming measures, a proposed summer truck route and speed safety procedures. The Committee will continue to report out quarterly to the Township of Esquimalt Council on Committee matters.

**THE ESQUIMALT LIAISON COMMITTEE IS  
MADE UP OF REPRESENTATIVES FROM  
THE COMMUNITY, CONTRACTOR AND  
WASTEWATER TREATMENT PROJECT TEAM:**

- Macaulay Elementary School Parent Advisory Committee
- Lyall Street Action Committee
- West Bay Residents Association
- Department of National Defence
- Township of Esquimalt
- Harbour Resource Partners  
*Contractor for the McLoughlin Point  
Wastewater Treatment Plant*
- Kenaidan Contracting Ltd.  
*Contractor for the Macaulay Point Pump  
Station and Forcemain*
- Wastewater Treatment Project Team

# Esquimalt Traffic Management Plan



**Wastewater Treatment Project**  
Treated for a cleaner future



*Macaulay Point Pump Station traffic route*

Kenaidan and Harbour Resource Partners will both use the Traffic Management Plan reviewed and approved by the Township of Esquimalt to ensure that all project traffic follows designated traffic routes.

**The Traffic Management Plan has been approved by the Township of Esquimalt and was developed using the following guiding principles:**

- Public safety for motorists and pedestrians
- Impacts on local community
- Bylaw compliance
- Incorporate community feedback

**Community feedback incorporated into the Traffic Management Plan includes:**

- Two supplemental crossing guards for Macaulay Elementary Parent Advisory Committee
- Sweeping of the road surface during bulk earthmoving
- Conducting a pre-construction road assessment

Traffic safety is paramount and signage along the truck route will be provided to ensure drivers abide by the set speed limit. When required, traffic control personnel will direct vehicles and pedestrians around the construction area.

# Potential Change to Truck Route – Proposed Summer Route



**Wastewater Treatment Project**  
Treated for a cleaner future

Through the Esquimalt Liaison Committee, the Wastewater Treatment Project Team, in conjunction with the Township of Esquimalt and Harbour Resource Partners (HRP), is reviewing the option of an alternate truck route during the school summer months.

During the implementation of the Esquimalt Traffic Management Plan, the Esquimalt Liaison Committee identified a potential benefit of a summer route.

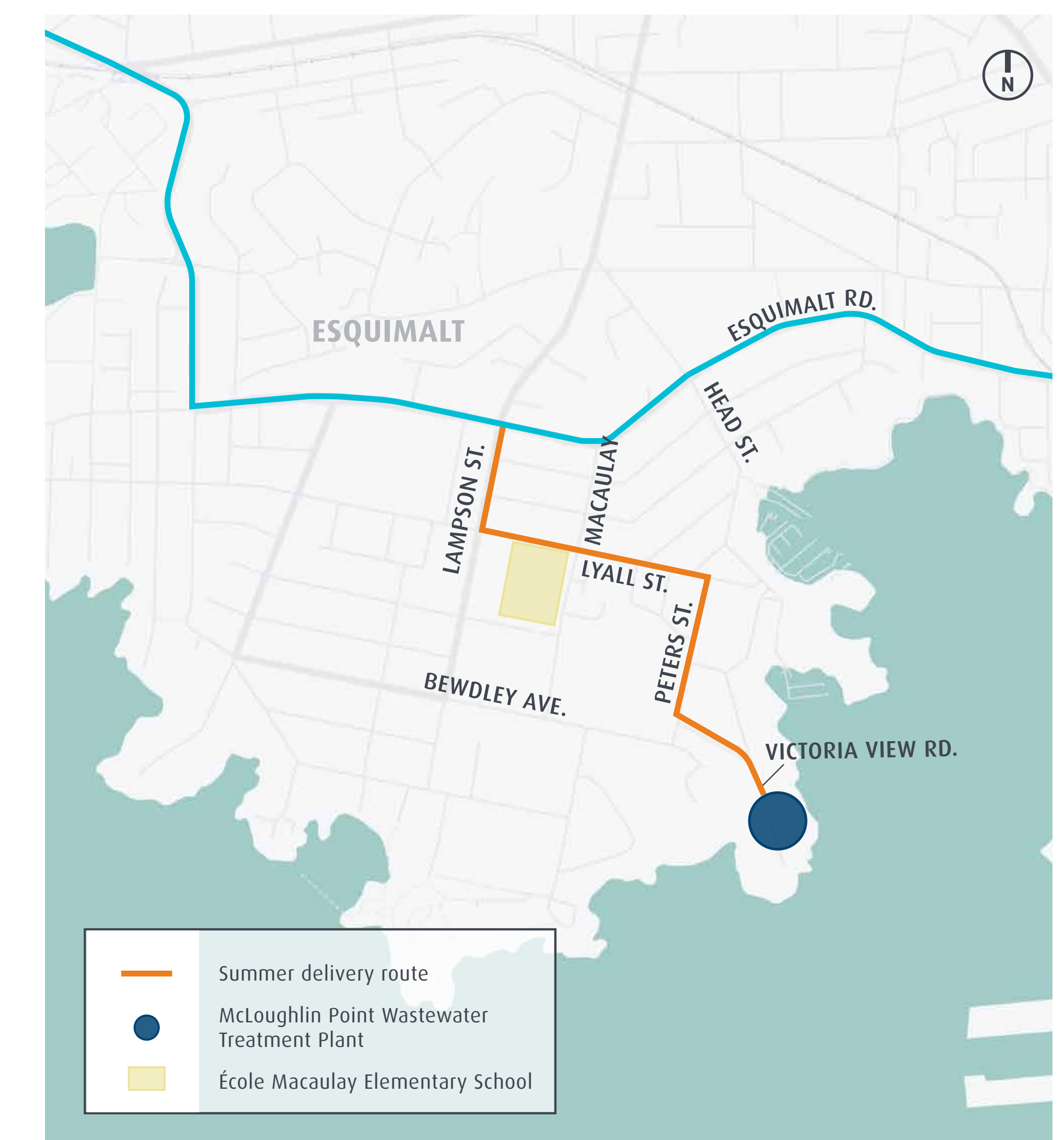
## Next steps:

- The Wastewater Treatment Project Team and HRP are consulting with the community regarding the proposed summer route. This will include a mail-out to residents along the route advising them of the alternate option and inviting comment.
- HRP and the Wastewater Treatment Project Team will compile the feedback. It will be shared with the Township of Esquimalt, who will provide the information to their Community Safety Working Group for input.
- Township of Esquimalt staff will prepare a Staff Report to Council, which will be followed by a presentation at a Council meeting by the Project Team and HRP, and a decision will be made by Council.

## CURRENT ROUTE



## PROPOSED SUMMER ROUTE



# Communications and Engagement



Wastewater  
Treatment Project  
Treated for a cleaner future

The Wastewater Treatment Project Team is engaging with residents throughout construction to ensure that the community is fully informed on the progress of the Project.

## THE COMMUNICATIONS AND ENGAGEMENT PROGRAM INCLUDES

- Regular project updates
- Outreach: community associations, businesses, schools, day cares, recreational groups, transportation providers, tourism groups and other organizations
- Community/neighbourhood/stakeholder meetings
- Communications tools include: website, project information phone line, email, social media, community updates, construction notifications, traffic media updates, door-to-door advisories (where appropriate)

## HOW TO CONTACT THE PROJECT

**Website:** [wastewaterproject.ca](http://wastewaterproject.ca)

**Email:** [wastewater@crd.bc.ca](mailto:wastewater@crd.bc.ca)

**24-7 Phone Line:** 1.844.815.6132

## HOW TO SIGN UP FOR PROJECT UPDATES

Send an email to [wastewater@crd.bc.ca](mailto:wastewater@crd.bc.ca) to let us know you are interested in receiving construction notices.

## HOW TO FIND OUT ABOUT BUSINESS OPPORTUNITIES

Register on BC Bid ([bcbid.gov.bc.ca](http://bcbid.gov.bc.ca)) and the CRD's Business Opportunities Website ([www.crd.bc.ca/about/contracts-rfps/current](http://www.crd.bc.ca/about/contracts-rfps/current)) to receive email notifications of any bidding opportunities for the Project and the CRD.

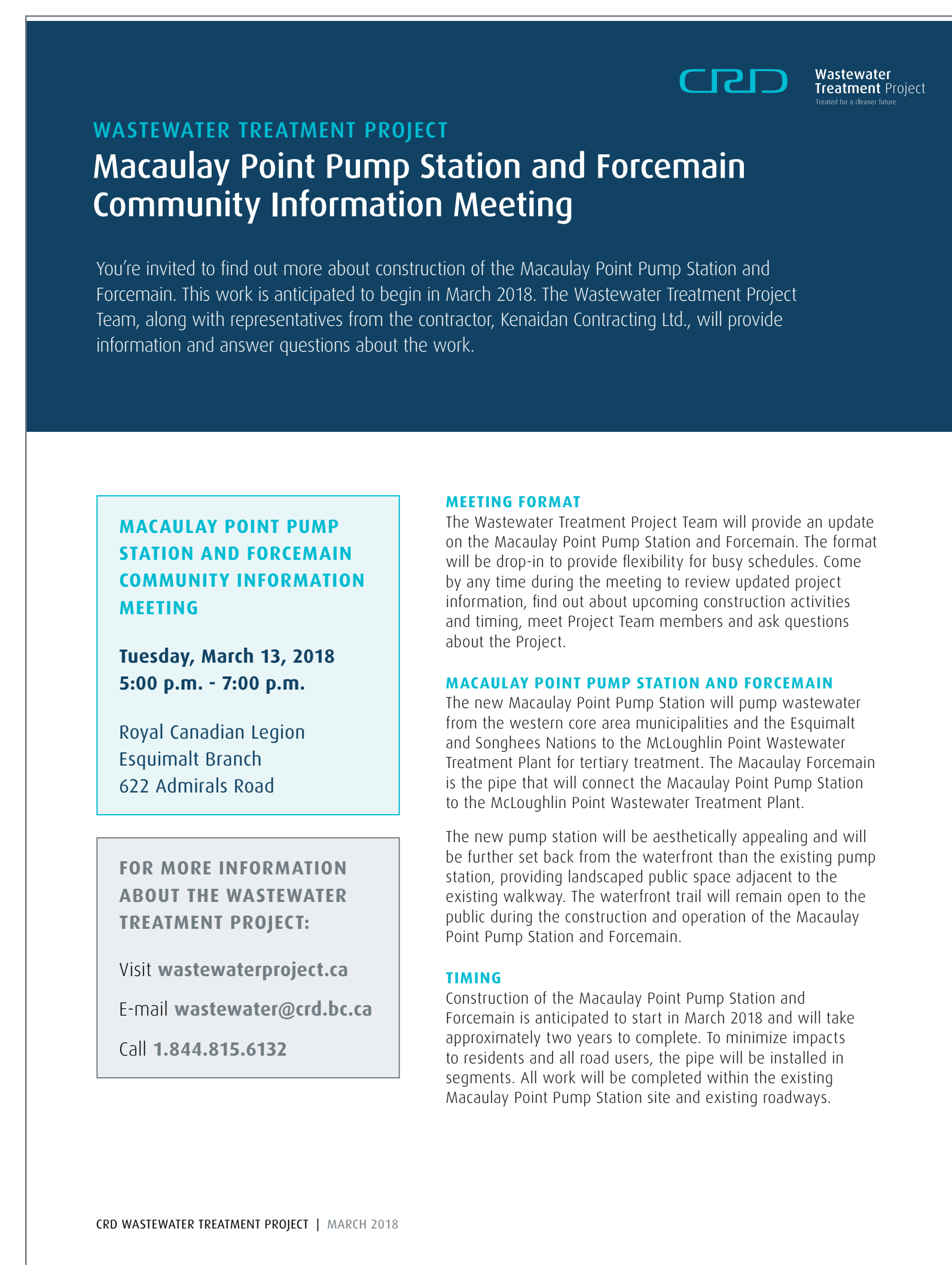


# Community Meeting Notification



Wastewater Treatment Project  
Treated for a cleaner future

## MEETING NOTICE



**WASTEWATER TREATMENT PROJECT**  
**Macaulay Point Pump Station and Forcemain Community Information Meeting**

You're invited to find out more about construction of the Macaulay Point Pump Station and Forcemain. This work is anticipated to begin in March 2018. The Wastewater Treatment Project Team, along with representatives from the contractor, Kenaidan Contracting Ltd., will provide information and answer questions about the work.

**MACAULAY POINT PUMP STATION AND FORCEMAIN COMMUNITY INFORMATION MEETING**

**Tuesday, March 13, 2018**  
**5:00 p.m. - 7:00 p.m.**

Royal Canadian Legion  
Esquimalt Branch  
622 Admirals Road

**FOR MORE INFORMATION ABOUT THE WASTEWATER TREATMENT PROJECT:**

Visit [wastewaterproject.ca](http://wastewaterproject.ca)  
E-mail [wastewater@crd.bc.ca](mailto:wastewater@crd.bc.ca)  
Call **1.844.815.6132**

**MEETING FORMAT**  
The Wastewater Treatment Project Team will provide an update on the Macaulay Point Pump Station and Forcemain. The format will be drop-in to provide flexibility for busy schedules. Come by any time during the meeting to review updated project information, find out about upcoming construction activities and timing, meet Project Team members and ask questions about the Project.

**MACAULAY POINT PUMP STATION AND FORCEMAIN**  
The new Macaulay Point Pump Station will pump wastewater from the western core area municipalities and the Esquimalt and Songhees Nations to the McLoughlin Point Wastewater Treatment Plant for tertiary treatment. The Macaulay Forcemain is the pipe that will connect the Macaulay Point Pump Station to the McLoughlin Point Wastewater Treatment Plant.

The new pump station will be aesthetically appealing and will be further set back from the waterfront than the existing pump station, providing landscaped public space adjacent to the existing walkway. The waterfront trail will remain open to the public during the construction and operation of the Macaulay Point Pump Station and Forcemain.

**TIMING**  
Construction of the Macaulay Point Pump Station and Forcemain is anticipated to start in March 2018 and will take approximately two years to complete. To minimize impacts to residents and all road users, the pipe will be installed in segments. All work will be completed within the existing Macaulay Point Pump Station site and existing roadways.

CRD WASTEWATER TREATMENT PROJECT | MARCH 2018



Posted on the Wastewater Treatment Project website on March 1, 2018

[wastewaterproject.ca](http://wastewaterproject.ca)



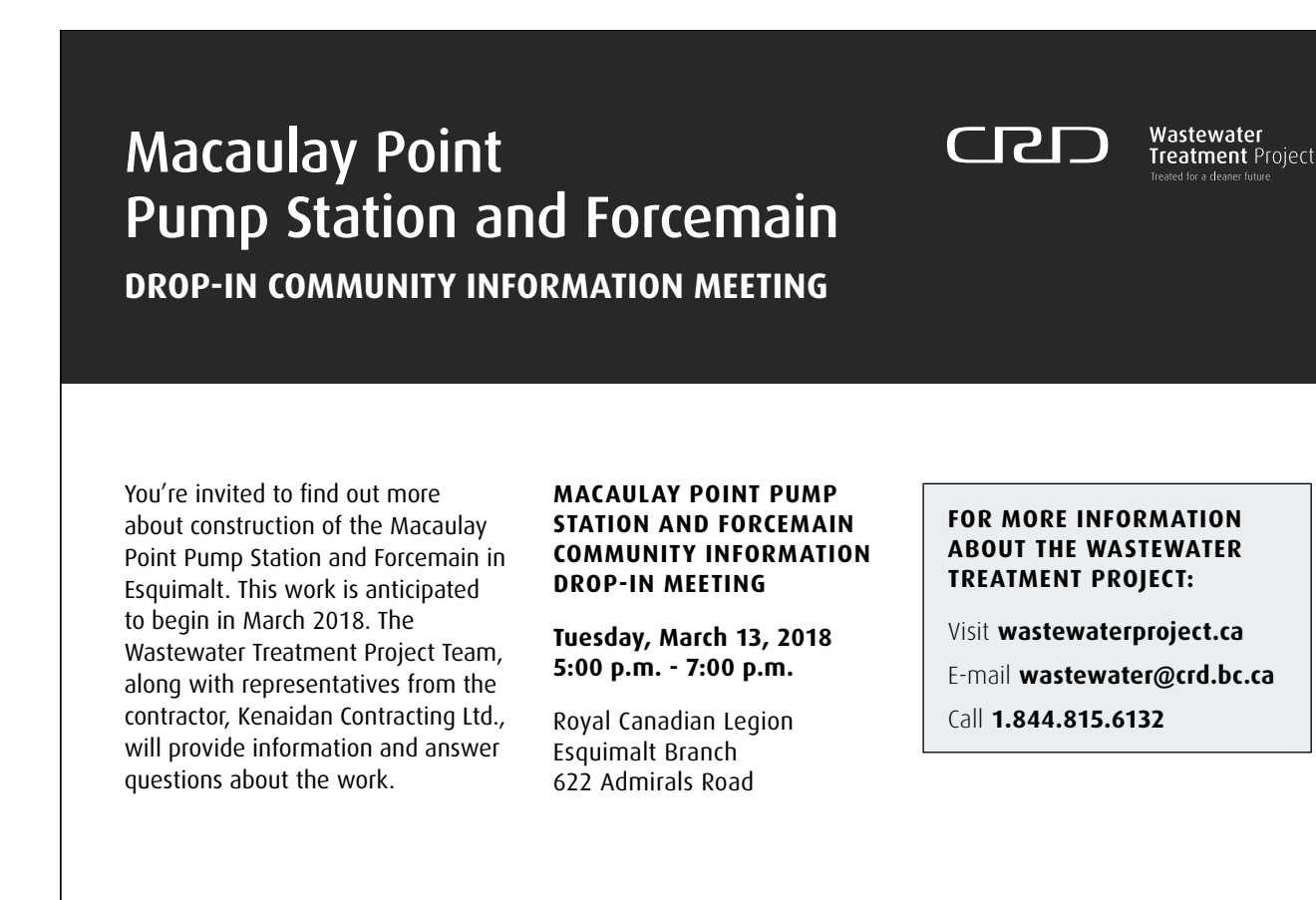
Home delivery via Canada Post

• 6,938 residences in Esquimalt



Emails to stakeholder groups and residents who signed up for project updates

## NEWSPAPER AD



**Macaulay Point Pump Station and Forcemain**  
**DROP-IN COMMUNITY INFORMATION MEETING**

You're invited to find out more about construction of the Macaulay Point Pump Station and Forcemain in Esquimalt. This work is anticipated to begin in March 2018. The Wastewater Treatment Project Team, along with representatives from the contractor, Kenaidan Contracting Ltd., will provide information and answer questions about the work.

**MACAULAY POINT PUMP STATION AND FORCEMAIN COMMUNITY INFORMATION DROP-IN MEETING**

**Tuesday, March 13, 2018**  
**5:00 p.m. - 7:00 p.m.**

Royal Canadian Legion  
Esquimalt Branch  
622 Admirals Road

**FOR MORE INFORMATION ABOUT THE WASTEWATER TREATMENT PROJECT:**

Visit [wastewaterproject.ca](http://wastewaterproject.ca)  
E-mail [wastewater@crd.bc.ca](mailto:wastewater@crd.bc.ca)  
Call **1.844.815.6132**



Victoria News  
March 7, 2018