Making a difference...together

REPORT TO CORE AREA WASTEWATER TREATMENT PROJECT BOARD
MEETING OF TUESDAY, MAY 2, 2017

SUBJECT **Wastewater Treatment Project Monthly Report - April 2017**

ISSUE

The Core Area Wastewater Treatment Project Board (Project Board) is required, by its Terms of Reference, to provide the Capital Regional District (CRD) Board with monthly progress reports and a comprehensive quarterly report.

BACKGROUND

On May 25, 2016 the Regional Board of the CRD:

i) Adopted by resolution the Core Area Wastewater Treatment Project Board Terms of Reference (Project Board Terms of Reference) for the purposes of establishing principles governing the Core Area Wastewater Treatment Project (the Wastewater Treatment Project or the WTP);
ii) Established the Core Area Wastewater Treatment Project Board (Project Board) under Bylaw 4109 (the CRD Core Area Wastewater Treatment Board Bylaw No. 1, 2016) for the purposes of administering the Core Area Wastewater Treatment Project; and
iii) Delegated certain of its powers, duties and functions to the Project Board under Bylaw 4110 (the CRD Core Area Wastewater Treatment Project Board Delegation Bylaw No. 1, 2016).

On September 14, 2016 the Regional Board of the CRD:

i) Received the final report of the Project Board with respect to its recommendation for the CAWTP, dated September 7, 2016 (the Final Report); and
ii) Approved the business case attached as Appendix 1 (the Business Case) to the Final Report.

The Business Case established the Core Area Wastewater Treatment Project control budget (the Control Budget) of $765 million.

The CRD Core Area Wastewater Treatment Project Board Bylaw No. 1, 2016 requires, amongst other things: that the Project Board establish a Project Team that will provide the Project Board with a comprehensive quarterly report describing the status of the Wastewater Treatment Project and that specifically addresses the scope, budget and schedule of the Wastewater Treatment Project; and that the Project Board provide quarterly status reports to the CRD Board on the scope, budget and schedule of the Wastewater Treatment Project (WTP).

DISCUSSION

The Project Board received the first quarterly report at its April 4, 2017 meeting, and approved that the report be forwarded to the Core Area Liquid Waste Management Committee (CALWMC) and the CRD Board for information. The quarterly report covered activities in the reporting period

of December 25, 2016 to March 24, 2017 but reported financial information to the end of February 2017.

In order to align the activity and financial reporting for the WTP, the Project Team proposes that the next monthly report, for the month of April 2017, be received by the Project Board at its June 6, 2017 meeting. This would allow the next and subsequent monthly reports to cover activities and financial information for the same reporting period.

There has been extensive engagement activity over the month of April, which will be covered in April's monthly report. In the interim please find below a summary of engagement activities in April, as well as, attached as Appendix A, a summary of planning and engagement meetings over the period from October 2016 to April 2017.

In accordance with the Communications and Engagement Plan that was approved by the Project Board on April 4, 2017, the Project Team has continued to conduct communications and engagement activities.

Engagement activities in April included the following:

- Meeting with James Bay Neighbourhood Association;
- Meeting with Macaulay Elementary School;
- Meeting with James Bay Community School;
- Meeting with Vic West Community Association;
- Two Community Information meetings (300 plus attendees): publicized widely through mailed notices to residents, email, newspaper advertisements, and on the Project website, these meetings provided an opportunity for residents to learn more about the information that the Project Team has heard that the community is looking for and have their questions answered. Attached as Appendix B are the information boards that were displayed. In addition, 27 team members with expertise in a variety of areas were available to answer questions;
- Posting a Project Update Report (#1) to the Project website and having it available at the Community Information Meetings (Appendix C);
- Posting to the project website the answers to questions frequently-asked at the community meetings (Appendix D);
- Correspondence with James Bay Neighbourhood Association;
- Responses to e-mailed inquiries;
- Setting up the Project Public Information line;
- Posting a Project Update Report (#2) to the Project website and mailing it to 7,500 households in James Bay (Appendix E);
- Preparing Construction Notices for upcoming work;
- Developing Terms of Reference for Esquimalt Liaison Committee;
- Posting to the Project website Fact Sheets on Noise and Odour (Appendix F).

As construction plans are advanced and specific work schedules are finalized, the Project Team will be scheduling further meetings with stakeholders to provide information and hear concerns.

RECOMMENDATION

That the Core Area Wastewater Treatment Project Board approve the following resolution:

RESOLVED that:

1. This the Wastewater Treatment Project Monthly Report – April 2017, be received for information.

2. The Wastewater Treatment Project Monthly Report – April 2017 be forwarded to the Core Area Liquid Waste Management Committee and Capital Regional District Board for information, in lieu of the monthly report.

Elizabeth Scott, Deputy Project Director
Wastewater Treatment Project

Dave Clancy, Project Director
Wastewater Treatment Project
Concurrence

ES:dd

Attachments: 6
Appendix A: Wastewater Treatment Project: Planning and Engagement Meetings October 2016 to April 2017
Appendix B: April Community Information Meeting Boards
Appendix C: Project Update #1
Appendix D: FAQ from the Community Information Meetings
Appendix E: Project Update #2
Appendix F: Fact Sheets on Noise and Odour

Wastewater Treatment Project

Planning and Engagement Meetings

October 2016 to April 2017

In addition to the meetings summarised below the Project Team has also conducted regular meetings with funding partners and First Nations.

	October 2016	November 2016	December 2016	January 2017	February 2017	March 2017	April 2017	Total Meetings
Municipal Permitting and Planning meetings	Township of Esquimalt Council (2) Township of Esquimalt Staff	Township of Esquimalt Council (2) Township of Esquimalt Staff (2)	Township of Esquimalt Staff	Township of Esquimalt Council (2) Design Review Committee Advisory Planning Commission	Township of Esquimalt Council (3) Design Review Committee (2)	Township of Esquimalt Staff		17
	City of Victoria Staff	City of Victoria Council (2) City of Victoria Staff		City of Victoria Council City of Victoria Staff	City of Victoria Council (2)	City of Victoria	City of Victoria Council City of Victoria Staff	10
	Electoral District of Juan de Fuca							1
	City of Colwood							1
	District of Saanich		District of Saanich Council		District of Saanich Staff	District of Saanich Staff		4
Community Engagement Meetings			James Bay Neighbourhood Association	James Bay Neighbourhood Association		James Bay Neighbourhood Association	James Bay Neighbourhood Association	4

			Fairfield Gonzales Community Association and Land Use Committee (2)	Fairfield Gonzales Community Association and Land Use Committee			Community Information Open Houses (2)	5
				Community Information Open Houses (3)			Vic West Community Association	4
				Clover Point immediate residents meeting				1
							Macaulay School PAC James Bay Community School PAC	2
Stakeholder Engagement Meetings	Department of National Defence	Department of National Defence	Department of National Defence	Department of National Defence (2)	Department of National Defence	Department of National Defence		7
		Mayor Helps and DVBA, GVHA, Tourism Victoria, City of Victoria, Chamber of Commerce						1
		Greater Victoria Harbour Authority	Greater Victoria Harbour Authority	Greater Victoria Harbour Authority		Greater Victoria Harbour Authority		4
TOTAL								**61**

Welcome

Wastewater Treatment Project
Treated for a cleaner future

Artist rendering

Welcome to the Wastewater Treatment Project Community Information Meeting.

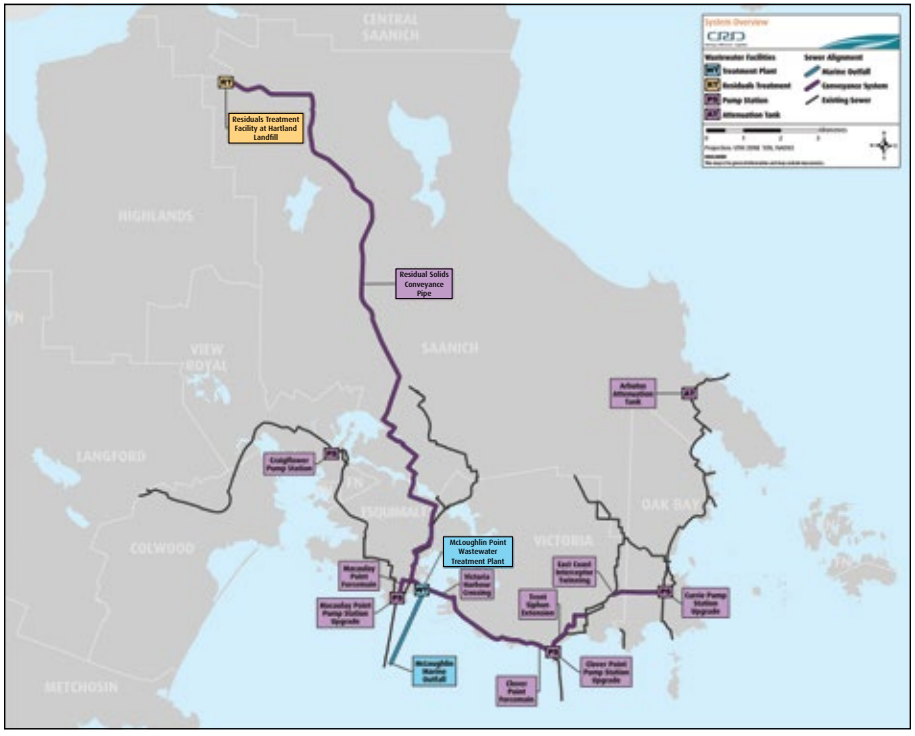
Construction is beginning in April 2017 on the McLoughlin Point Wastewater Treatment Plant and undersea pipe between McLoughlin Point and Ogden Point.

Our team is here to provide you with information and respond to your questions regarding construction activities at these locations. Information about other upcoming construction activities for the Wastewater Treatment Project will be available in the coming months.

Wastewater Treatment Project

Wastewater Treatment Project
Treated for a cleaner future

In September 2016, the CRD approved the Wastewater Treatment Project Board's proposal for wastewater treatment in the Core Area which would comply with the law and preserve senior government funding for sewage treatment.



The Wastewater Treatment Project consists of three main elements:

MCLOUGHLIN POINT WASTEWATER TREATMENT PLANT

Located at McLoughlin Point, the 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 send residual solids from the wastewater treatment plant to the Residuals Treatment Facility.

How We Got Here

Wastewater Treatment Project
Treated for a cleaner future

The approved McLoughlin Point Wastewater Treatment Plant design is significantly revised from earlier plans to respond to the interests of the surrounding community:

- It is further set back from the shoreline
- It has extensive landscaping and a multi-level green roof irrigated with treated water
- Refinements to the exterior of the wastewater treatment plant and landscaping address the Design Review Committee and other input as part of the development permit process
- The plant will go beyond secondary treatment and include tertiary treatment, providing even better protection of the marine environment
- Odour control systems will reduce odour emissions to a level not detectable by residents

Artist rendering

Project Funding and Approvals

Wastewater Treatment Project
Treated for a cleaner future

Wastewater Treatment Project construction will begin in April 2017.

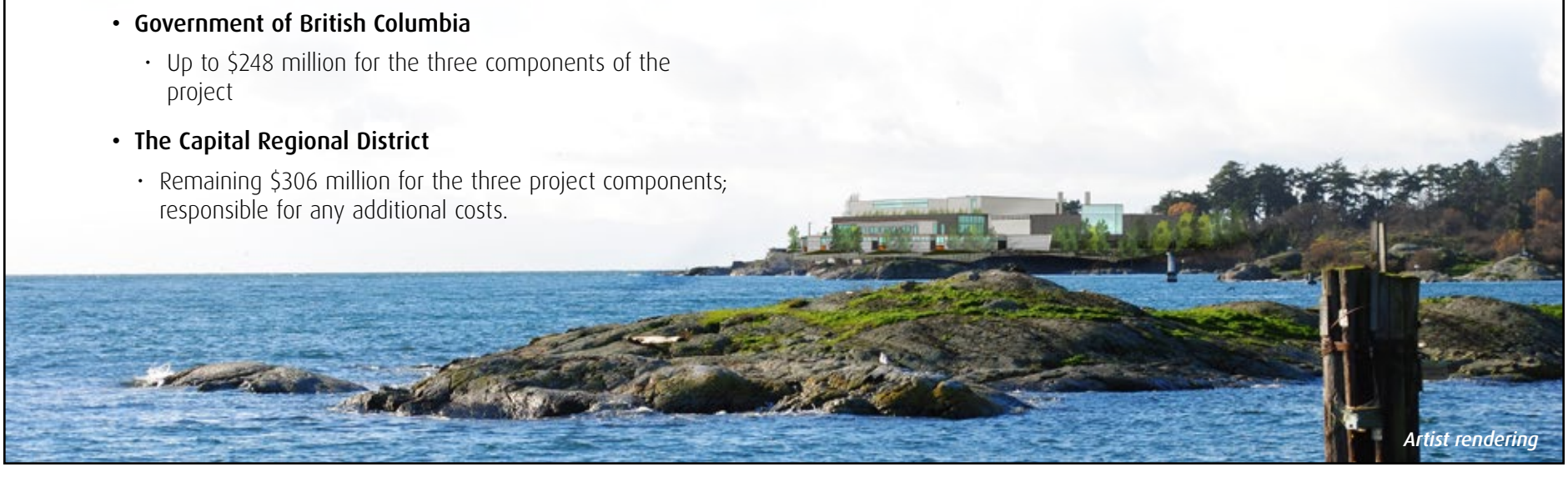
PROJECT FUNDING

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 from P3 Canada 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.

LAND USE APPROVALS

- The Township of Esquimalt approved rezoning for the McLoughlin Point Wastewater Treatment Plant on February 20, 2017.
- The City of Victoria approved rezoning for the Clover Point Pump Station on February 23, 2017.



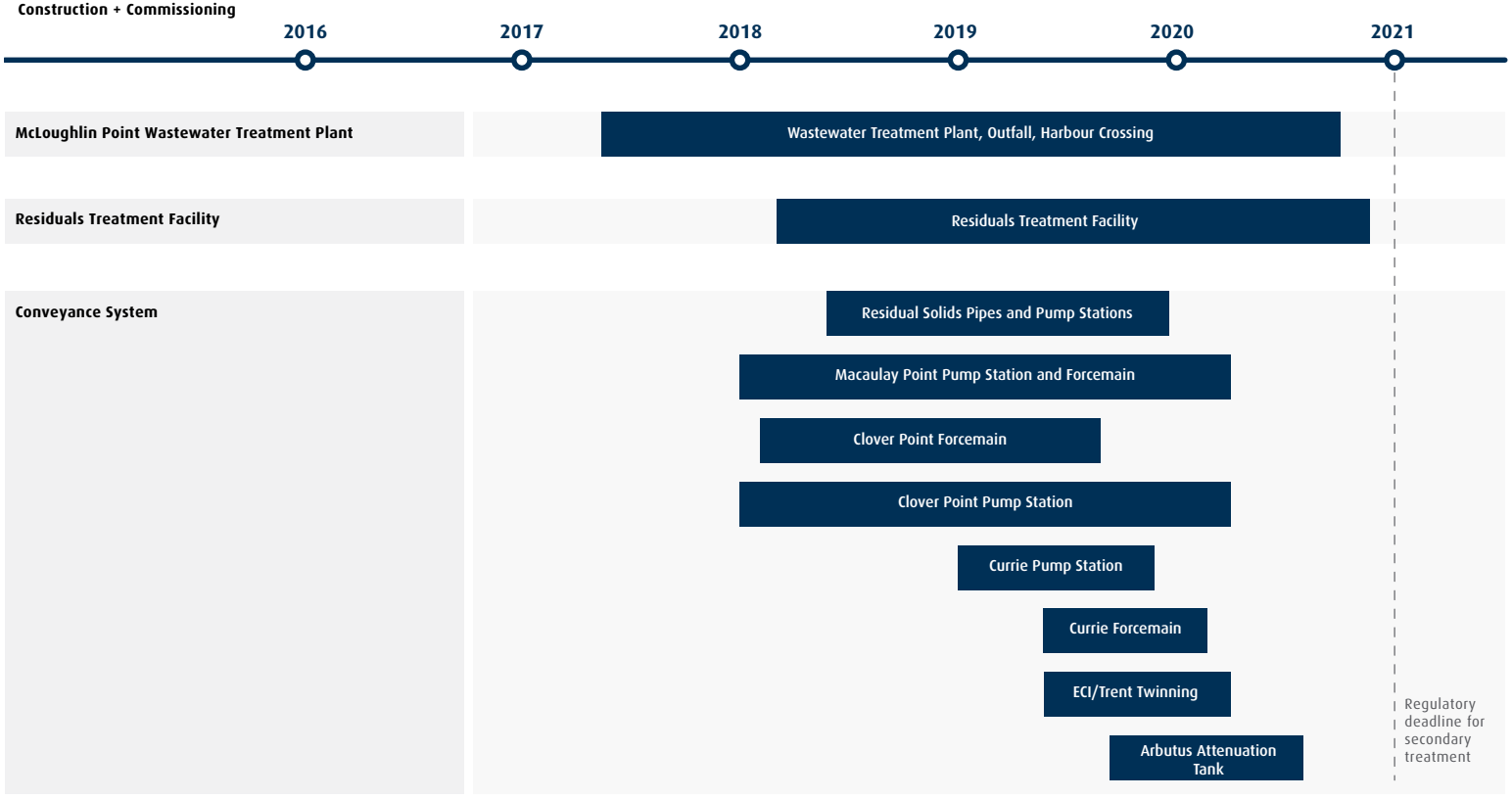
Artist rendering

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.

Wastewater Treatment Project Schedule*



* *Schedule subject to updates as project planning progresses.*

Ogden Point Construction

Wastewater Treatment Project
Treated for a cleaner future

The McLoughlin Point Wastewater Treatment Plant includes construction of a cross-harbour undersea pipe from Ogden Point to McLoughlin Point.

This work will take just over a year to complete, and will take place from both sides of Victoria Harbour using a process called horizontal directional drilling. Two drill locations will be used: one at McLoughlin Point, and the second at Ogden Point near the James Bay Anglers Boat Ramp.

Anticipated work hours are Monday to Friday from 7:00 a.m. to 7:00 p.m. and on Saturday from 10:00 a.m. to 7:00 p.m. The boat ramp will be open for use during construction.

OGDEN POINT CONSTRUCTION ACTIVITIES ANTICIPATED APRIL 2017 – JUNE 2018*

APRIL TO MAY 2017

Remove Anglers Hut

Set up work site

- Bring equipment and materials to the site; on average five trucks per day
- Build noise wall

JUNE 2017

Install casing

- Involves approximately two weeks of pile driving
- On average five trucks per day

JUNE 2017 TO JUNE 2018

Conduct horizontal directional drilling

- Involves equipment and generators for drilling operations
- On average five trucks per day

JUNE 2018

Assemble pipe on Niagara Street

- Deliver pipe segments
- Weld pipe together

Pull pipe through directional drill passage (24 hours per day for approximately four days)

* *Construction schedules subject to updates based on construction operations. Project to provide regular updates on anticipated dates.*

Ogden Point Noise Mitigation

Wastewater Treatment Project
Treated for a cleaner future

Noise wall at Ogden Point Work Site

The City of Victoria construction noise bylaw is 85 dBA. Noise mitigation will reduce construction noise below the bylaw level.

- 5-metre high acoustic sound barrier (noise wall)
- Constructed in advance of casing installation and drilling operations
- Noise mitigation will result in 75 dBA at the midpoint of Dallas Road, below the 85 dBA noise bylaw
- The project team is working with the contractor to consider other noise mitigation measures to further reduce noise at the Ogden Point work site. These could include enclosures around specific pieces of equipment, or other structures which may require additional approvals.

Street view

Aerial view

McLoughlin Point Construction

Wastewater Treatment Project
Treated for a cleaner future

The McLoughlin Point Wastewater Treatment Plant construction and commissioning will take place from spring 2017 to fall 2020.

Construction at McLoughlin Point will look similar to any large urban construction site. Construction works include: site preparation; horizontal directional drilling to construct the cross-harbour undersea pipe from Ogden Point to McLoughlin Point; pouring concrete foundations; exterior building construction and mechanical and electrical work inside the building.

Anticipated work hours are Monday to Friday from 7:00 a.m. to 7:00 p.m. and on Saturday from 9:00 a.m. to 6:00 p.m.

MCLOUGHLIN POINT CONSTRUCTION ACTIVITIES ANTICIPATED APRIL 2017 – FALL 2020*

APRIL/MAY 2017

Set up construction laydown area

- Heavy equipment and personnel preparing the site

MAY 2017 TO AUG 2017

Site preparation (excavation/blasting)

- On average 30 trucks per day hauling excavated material
- Blasting activities will be periodically scheduled and communicated to immediate neighbours; blasting schedule will be posted to project website weekly

JUNE 2017 TO JUNE 2018

Conduct horizontal directional drilling

- On average five trucks per day

AUG 2017 TO FALL 2018

Pouring concrete

- On average 15 trucks per day with more for large pours

SPRING 2018 TO FALL 2019

Plant construction

- On average 10 trucks per day

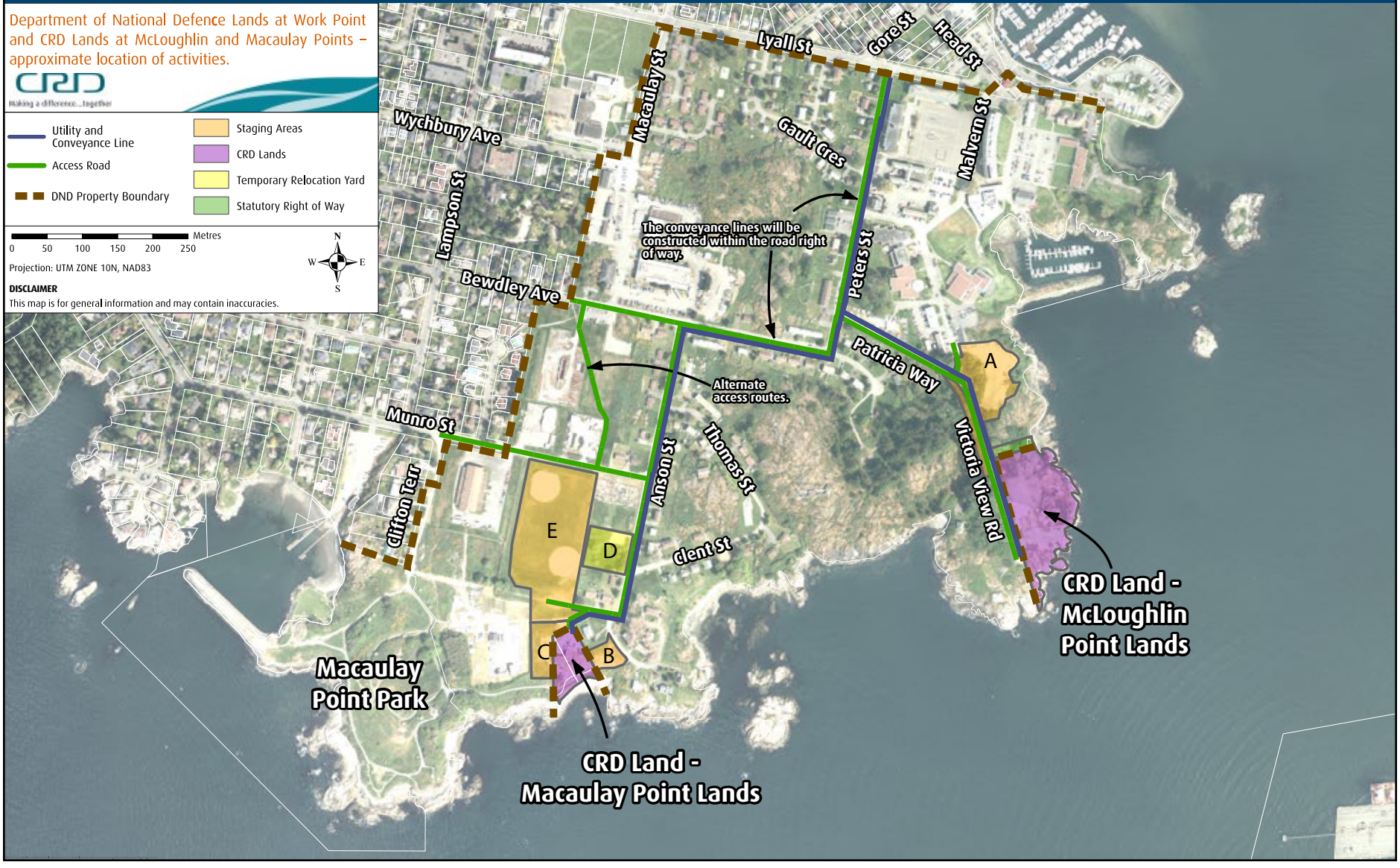
FALL 2019 TO FALL 2020

Plant commissioning

* *Construction schedules subject to updates based on construction operations. Project to provide regular updates on anticipated dates.*

McLoughlin Point Construction and Staging Areas

Wastewater Treatment Project
Treated for a cleaner future



Operational Noise

Wastewater Treatment Project
Treated for a cleaner future

Per the Township of Esquimalt's Zoning Bylaw, operational noise from the McLoughlin Point Wastewater Treatment Plant will not exceed 60 decibels (dBA) at the plant's property line. This means predicted noise levels in James Bay, the closest location to the treatment plant in Victoria, will not exceed 35 dBA. This is 5 dBA below the most stringent limit in the City of Victoria's noise bylaw.

Noise Model

- Noise levels at the locations shown on this map were calculated by assuming a "worst-case scenario" of 60 dBA everywhere along the property line. However, actual noise emissions from the treatment plant may result in lower noise levels.
- This noise model considers all sound propagation to occur under downwind or temperature inversion conditions (worst-case conditions).

Noise Levels for Common Sounds/Environments

NOISE / ENVIRONMENT	APPROXIMATE SOUND LEVEL (dBA)
Threshold of hearing	0
Just audible	10
Nighttime background noise, urban residential area	35
City of Victoria Noise Bylaw – most stringent limit	40
Township of Esquimalt Zoning Bylaw	60
Busy office	60
On sidewalk by passing car	70
On sidewalk by passing bus	80

Predicted noise from McLoughlin Point Wastewater Treatment Plant. The noise model was generated with the state-of-the-art acoustical modelling software CadnaA which performs sound propagation calculations according to the widely used international standard ISO 9613-2:1996.

Odour Control

Wastewater Treatment Project
Treated for a cleaner future

State-of-the-Art Odour Control

The McLoughlin Point Wastewater Treatment Plant design includes state-of-the-art odour control. While the maximum allowable odour is 5 odour units (OU) at the property line, modelling based on the current design shows odour during operations will be approximately 2 OU at the McLoughlin Point Wastewater Treatment Plant property line.

The plant will have one of the highest levels of odour capture and treatment in the industry:

- All treatment processing tanks are covered
- All air is captured and treated

An odour control monitoring system will ensure requirements are met or exceeded. Back-up odour control equipment and back-up power generators will be installed, reducing the possibility of odour escaping the facility if there is an equipment failure.

The McLoughlin Point Wastewater Treatment Plant will achieve the following:

- No detectable odour in the surrounding community
- State-of-the-art odour control
- 24-hour odour control monitoring system
- Detailed procedures for responding to odour issues, in the unlikely event that one occurs. The public will be able to call a CRD phone line and report any odour issues 24 hours a day, once the plant is in operation.

What is an Odour Unit (OU)?

- An odour unit is a standard measure used to describe the amount of odour present in one cubic metre of neutral air.
- Odour is not discernible at 5 OU or less.
- A typical residential neighbourhood has a background odour of 7 to 20 OU which may include:
  - Grass
  - Mulch
  - Plants
  - Marine environment

Odour Control

Wastewater Treatment Project
Treated for a cleaner future

The McLoughlin Point Wastewater Treatment Plant has been designed so there will be no detectable odour by residents.

While the maximum allowable odour is 5 OU at the property line, modelling based on the current design shows odour during operations will be approximately 2 OU at the McLoughlin Point Wastewater Treatment Plant property line and dissipates quickly as it moves away from the plant.

Odour from McLoughlin Point Wastewater Treatment Plant. Odour model based on the worst-case wind conditions over the last five years, based on regional meteorological data.

Odour Control

Wastewater Treatment Project
Treated for a cleaner future

Odour Control at other Wastewater Treatment Plants

KELOWNA, BC
WASTEWATER TREATMENT PLANT

- Kelowna Plant is in a residential neighbourhood
- Homes are within 20 metres of plant; Okanagan College is adjacent to the site
- 5 OU used for design limit
- Secondary treatment processing tanks are uncovered; by comparison, all McLoughlin Point Plant treatment processing tanks are covered
- No odour complaints

VERNON, BC
WASTEWATER TREATMENT PLANT

- Vernon Plant is in a residential neighbourhood
- Homes are situated at the plant's fence line
- 5 OU used for design limit
- Single stage odour treatment; by comparison, the McLoughlin Point Plant will have two stage odour treatment
- Secondary treatment processing tanks are uncovered; by comparison, all McLoughlin Point Plant treatment processing tanks are covered
- No odour complaints

Draft Traffic Management Plan Map – Esquimalt

Wastewater Treatment Project
Treated for a cleaner future

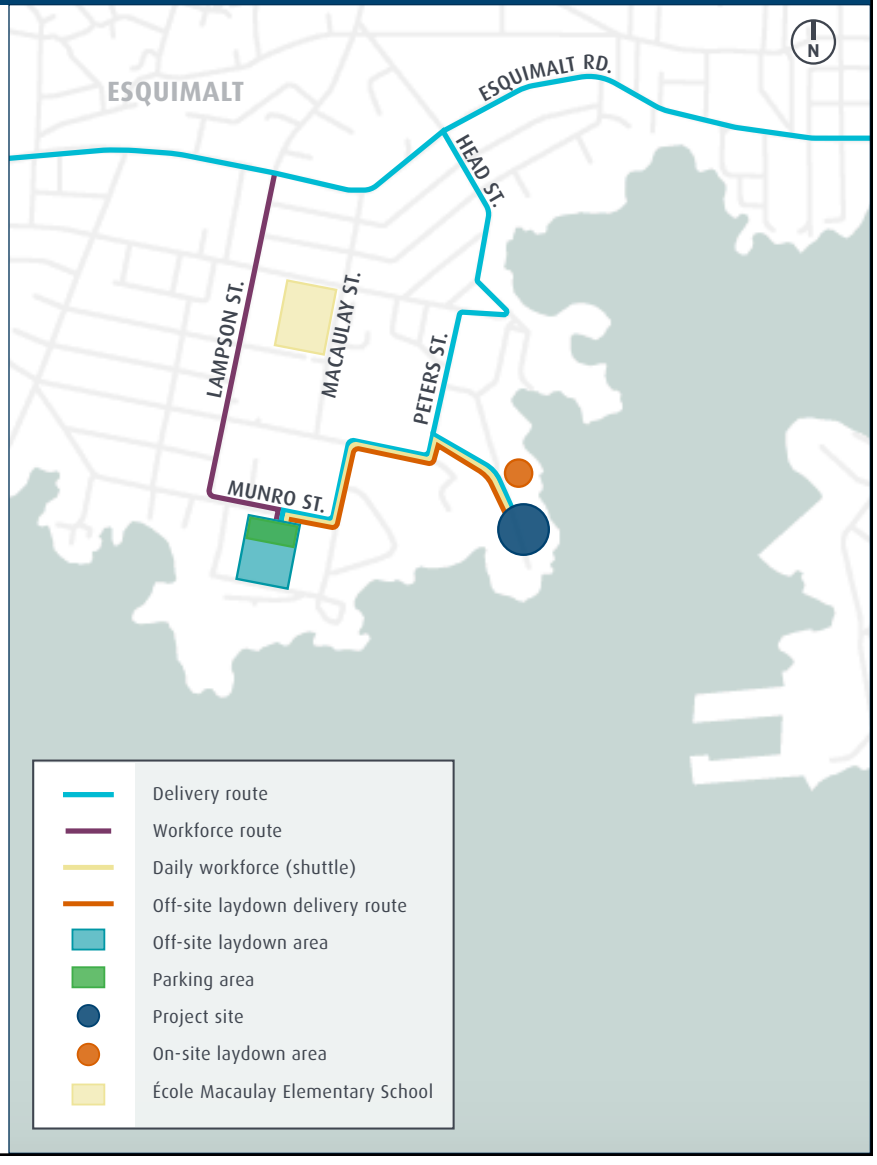
Harbour Resource Partners (HRP), the contractor that is building the McLoughlin Point Wastewater Treatment Plant, has developed a Draft Traffic Management Plan to ensure that all project vendors and suppliers follow designated traffic routes.

The draft plan was developed using the following guidelines:

- Public safety for motorists, cyclists and pedestrians
- Impacts on local community
- Bylaw compliance

To develop the draft plan, HRP defined the type and flow of construction traffic and then options were evaluated for each type of construction traffic.

The draft Traffic Management Plan has been reviewed by staff from the Township of Esquimalt and will also consider input from communities. The plan is subject to approval by the Township of Esquimalt before it is implemented.



Draft Traffic Management Plan Map – Victoria (Ogden Point Construction)

Wastewater Treatment Project
Treated for a cleaner future

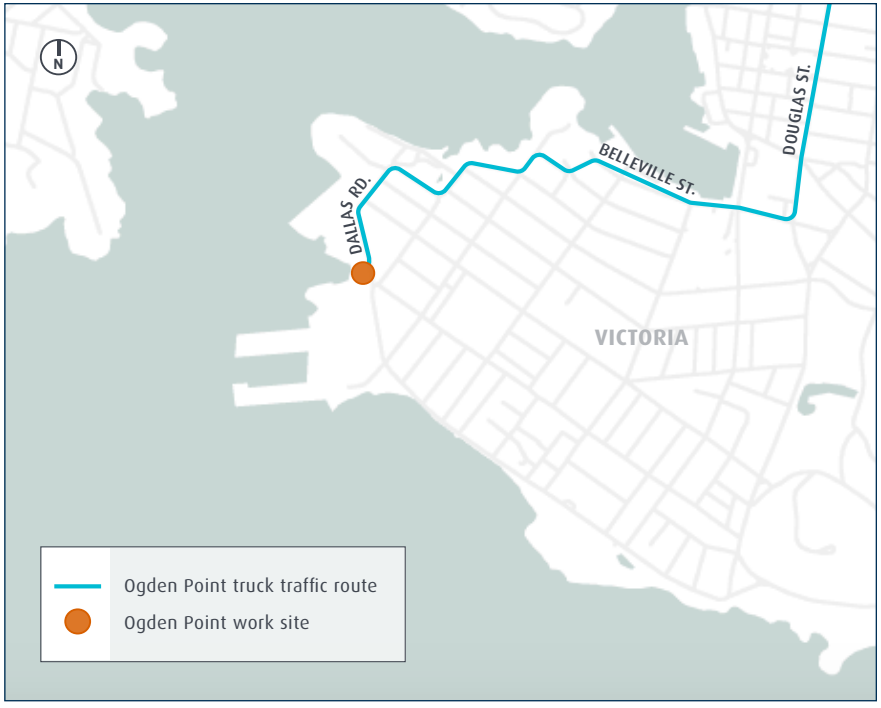
Harbour Resource Partners (HRP), the contractor that is building the McLoughlin Point Wastewater Treatment Plant, has developed a Draft Traffic Management Plan to ensure that all project vendors and suppliers follow designated traffic routes.

The draft plan was developed using the following guidelines:

- Public safety for motorists, cyclists and pedestrians
- Impacts on local community
- Bylaw compliance

This draft Traffic Management Plan addresses the construction at Ogden Point for the horizontal directional drilling. An updated Traffic Management Plan will be developed and brought to the community in advance of the pipe assembly on Niagara Street.

This draft Traffic Management Plan will be reviewed by staff from the City of Victoria, and will also consider input from communities, before it is implemented.



Upcoming Construction Activities

Wastewater Treatment Project
Treated for a cleaner future

While construction is beginning at Ogden Point and McLoughlin Point in April, project planning is underway and construction schedules are being developed for the other project components.

Communications and engagement activities will continue to keep residents and stakeholders informed of project plans, progress and construction information, and to receive and respond to questions and concerns raised by the community.

A liaison committee in Esquimalt will provide a forum for the discussion of issues relating to construction and operation of the McLoughlin Point Wastewater Treatment Plant.

HIGH LEVEL SCHEDULE OF UPCOMING COMMUNITY ENGAGEMENT

APRIL 2017

Victoria & Esquimalt

McLoughlin Point Wastewater Treatment Plant: Ogden Point and McLoughlin Point construction

FALL 2017

Victoria

Public realm improvements for James Bay (the Project Team will support the City of Victoria in its engagement process)

Clover Point Pump Station and public realm improvements

- Presentation to James Bay Neighbourhood Association (on Dallas Road conveyance route) at 50% design finalization
- Presentation to Fairfield Gonzales Community Association (on Clover Point Pump Station and Dallas Road Conveyance route) at 50% design finalization
- Presentation to the City Council at a public meeting at 50% stage

Construction mitigation measures along Dallas Road and Niagara Street

Esquimalt

Macaulay Point Pump Station and Forcemain construction

EARLY 2018

Saanich

Residuals Treatment Facility, pipes and pump stations construction

Communications and Engagement

Wastewater Treatment Project
Treated for a cleaner future

The Wastewater Treatment Project Team will engage with residents through 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

Email: wastewater@crd.bc.ca

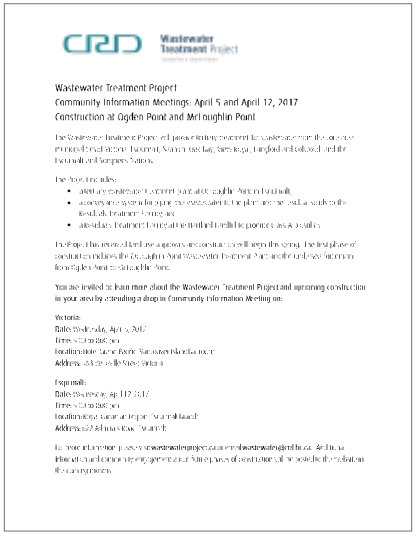
Phone: Available May 1, 2017

Artist rendering

Community Meeting Notification

Wastewater Treatment Project
Treated for a cleaner future

MEETING NOTICE



Wastewater Treatment Project
Community Information Meetings: April 5 and April 12, 2017
Construction at Ogden Point and McLoughlin Point

Posted on the Wastewater Treatment Project website on March 28, 2017

wastewaterproject.ca

Home delivery via Canada Post

- 7,383 residents in James Bay
- 9,985 residents in Esquimalt

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

NEWSPAPER AD

Wastewater Treatment Project
Wastewater Treatment Project
Community Information Meetings: April 5 and April 12, 2017
Construction at Ogden Point and McLoughlin Point

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.

You are invited to learn more about the Wastewater Treatment Project and upcoming construction at McLoughlin Point and Ogden Point by attending a drop-in Community Information Meeting on:

Victoria:
Date: Wednesday, April 5, 2017
Time: 5:00 to 8:00 pm
Location: Hotel Grand Pacific, Vancouver Island Ballroom
Address: 463 Belleville Street, Victoria

Esquimalt:
Date: Wednesday, April 12, 2017
Time: 5:00 to 8:00 pm
Location: Royal Canadian Legion, Esquimalt Branch
Address: 622 Admirals Road, Esquimalt

For more information, please visit **wastewaterproject.ca** or email **wastewater@crd.bc.ca**. Additional information and community engagement about future phases of construction will be posted to the website in the coming months.

Victoria Times Colonist
March 25, 2017

Victoria News
March 24 and March 29, 2017

CAPITAL REGIONAL DISTRICT TWITTER

March 29, 2017

April 4, 2047

April 11, 2017

Wastewater Treatment Project
Treated for a cleaner future

Project Update #1
April 2017

Wastewater Treatment Project Overview

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.

With funding, approvals and permitting in place, Wastewater Treatment Project construction will begin this spring to meet the end of 2020 delivery deadline, comply with the law and meet our commitments to senior governments. The Wastewater Treatment Project consists of three main elements:

McLoughlin Point Wastewater Treatment Plant

Located at McLoughlin Point in Esquimalt, the 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 a Residual Treatment Facility 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 residual solids to the Residuals Treatment Facility at Hartland Landfill.

PROJECT FUNDING

The Wastewater Treatment Project costs $765 million and is being 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 from P3 Canada 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

Artist rendering

Wastewater Treatment Project

Treated for a cleaner future

Project Update #1

April 2017

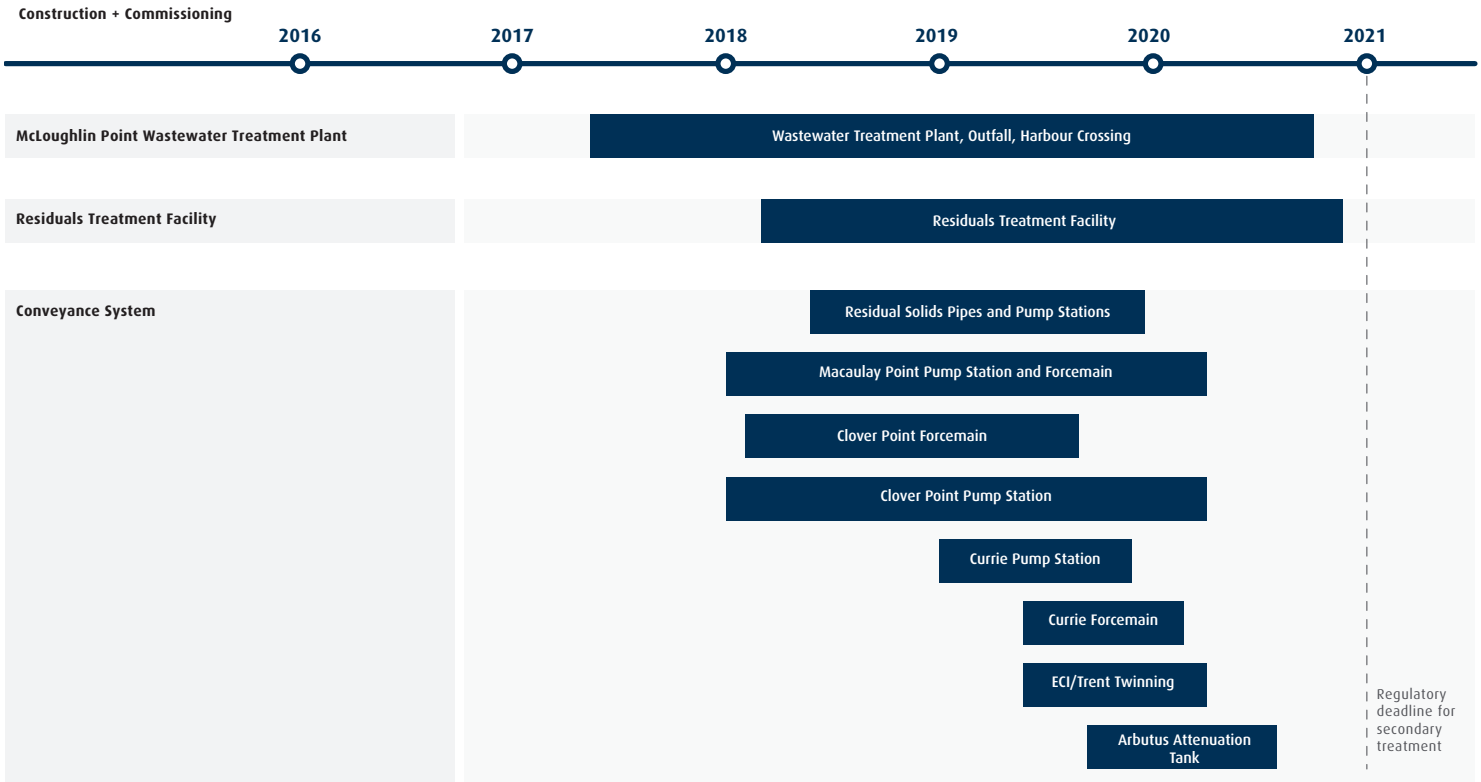
How We Got Here

The approved McLoughlin Point Wastewater Treatment Plant design is significantly revised from earlier plans to respond to the interests of the surrounding community:

- It is further set back from the shoreline
- It has extensive landscaping and a multi-level green roof irrigated with treated water
- Refinements to the exterior of the wastewater treatment plant and landscaping address the Design Review Committee and other input as part of the development permit process
- The plant will go beyond secondary treatment and include tertiary treatment, providing even better protection of the marine environment
- Odour control systems will reduce odour emissions to a level not detectable by residents

Wastewater Treatment Project Schedule*

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.



* *Schedule subject to updates as project planning progresses.*

Odour Control: McLoughlin Point Wastewater Treatment Plant

The McLoughlin Point Wastewater Treatment Plant has been designed so there will be no detectable odour by residents. Modelling shows odour will be approximately 2 OU at the plant's property line.

The plant will have one of the highest levels of odour capture and treatment in the industry:

- All treatment processing tanks are covered
- All air is captured and treated

A 24-hour odour control monitoring system will ensure requirements are met or exceeded. Back-up odour control equipment and back-up power generators will be installed, reducing the possibility of odour escaping the facility if there is an equipment failure.

There will be detailed procedures for responding to odour issues, in the unlikely event that one occurs. The public will be able to call a CRD phone line and report any odour issues 24 hours a day, once the plant is in operation.

What is an Odour Unit (OU)?

- An odour unit is a standard measure used to describe the amount of odour present in one cubic metre of neutral air.
- Odour is not discernible at 5 OU or less.
- A typical residential neighbourhood has a background odour of 7 to 20 OU which may include:
  - Grass
  - Mulch
  - Plants
  - Marine environment

Noise During Operations: McLoughlin Point Wastewater Treatment Plant

Per the Township of Esquimalt's Zoning Bylaw, operational noise from the McLoughlin Point Wastewater Treatment Plant will not exceed 60 decibels (dBA) at the plant's property line. This means predicted noise levels in James Bay, the closest location to the treatment plant in Victoria, will not exceed 35 dBA. This is 5 dBA below the most stringent limit in the City of Victoria's noise bylaw.

The Wastewater Treatment Project Team will engage with residents through 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

Email:
wastewater@crd.bc.ca

Phone:
Available May 1, 2017

Wastewater Treatment Project

Treated for a cleaner future

Project Update #1

April 2017

Construction is beginning this spring on the McLoughlin Point Wastewater Treatment Plant in Esquimalt and the cross-harbour undersea pipe between McLoughlin Point and Ogden Point. Construction will take place at Ogden Point to drill the undersea pipe; this will take just over a year to complete. Construction and commissioning of the Wastewater Treatment Plant at McLoughlin Point will take place from spring 2017 to fall 2020.

OGDEN POINT CONSTRUCTION ACTIVITIES: ANTICIPATED APRIL 2017 – JUNE 2018*

APRIL TO MAY 2017

Remove Anglers Hut

Set up work site

- Bring equipment and materials to the site; on average five trucks per day
- Build noise wall

JUNE 2017

Install casing

- Involves approximately two weeks of pile driving
- On average five trucks per day

JUNE 2017 TO JUNE 2018

Conduct horizontal directional drilling

- Involves equipment and generators for drilling operations
- On average five trucks per day

JUNE 2018

Assemble pipe on Niagara Street

- Deliver pipe segments
- Weld pipe together

Pull pipe through directional drill passage (24 hours per day for approximately four days)

MCLOUGHLIN POINT CONSTRUCTION ACTIVITIES: ANTICIPATED APRIL 2017 – FALL 2020*

APRIL/MAY 2017

Set up construction laydown area

- Heavy equipment and personnel preparing the site

MAY 2017 TO AUG 2017

Site preparation (excavation/blasting)

- On average 30 trucks per day hauling excavated material
- Blasting activities will be periodically scheduled and communicated to immediate neighbours; blasting schedule will be posted to project website weekly

JUNE 2017 TO JUNE 2018

Conduct horizontal directional drilling

- On average five trucks per day

AUG 2017 TO FALL 2018

Pouring concrete

- On average 15 trucks per day with more for large pours

SPRING 2018 TO FALL 2019

Plant construction

- On average 10 trucks per day

FALL 2019 TO FALL 2020

Plant commissioning

** Construction schedules subject to updates based on construction operations. Project to provide regular updates on anticipated dates.*

To learn more about the Wastewater Treatment Project, or to sign up for construction updates, please visit **wastewaterproject.ca**. To contact the project, please email **wastewater@crd.bc.ca**.

CRD Wastewater Treatment Project
Website FAQ

Community Questions

This page will be updated regularly with the commonly asked questions we are hearing from members of the community about the Wastewater Treatment Project. If you have a question that is not covered, let us know. We will endeavor to provide a response within 10 working days.

Noise

1. **How loud will the noise be coming from the plant during operation and how will it impact Victoria?**

As per the Township of Esquimalt's Zoning Bylaw, the operational noise level will not exceed 60 decibels (dBA) measured at the plant's property line. Predicted noise levels in James Bay, the closest location to the treatment plant in Victoria, will not exceed 35 dBA. This is 5 dBA below the most stringent limit in the City of Victoria's noise bylaw. You can find more information on our Fact sheet on Operational Noise for the Wastewater Treatment Plant.

2. **How will you ensure compliance with the noise limit requirements when the plant is fully operational?**

The operating noise level will not exceed 60 decibels (dBA) measured at the plant's property line. The contractor will undertake a noise model at 60% design in order to demonstrate compliance. If determined at that time that the design will not meet the 60 dBA level then the contractor will make appropriate design changes/additions in order to ensure compliance.

Following commissioning, the plant will undergo a 90 day Acceptance Testing which includes testing of the noise levels to confirm conformance with the noise level guarantee.

3. **How noisy will the construction be at Ogden Point. What are you doing to reduce it?**

Construction at Ogden Point will take place over about a year, beginning in May 2017. We are building a 5-metre high noise wall around the Ogden Point work site. It will be in place before construction begins. This will reduce construction noise below the City of Victoria construction noise bylaw level.

In June there will be approximately two weeks of pile driving. After that, while there will be noise from generators and other equipment, noise levels will be reduced considerably, and we do not anticipate any vibration.

In addition to the noise wall, we're working with the contractor to consider other noise mitigation measures to further reduce noise at the work site. We have engaged noise consultants and they will be monitoring noise levels as part of construction. For more information you can review our Noise Mitigation Fact Sheet.

CRD Wastewater Treatment Project
Website FAQ

Odour

4. Will I be able to smell anything from the McLoughlin Point Wastewater Treatment Plant when it is up and running?

No – there will be no detectable odour in the surrounding community. The plant includes a state-of-the-art odour control and a 24-hour odour control monitoring system. You can find more information in our Odour Fact Sheet.

5. Why does your odour modeling indicate 2 Odour Units (OU) coming from the McLoughlin Point Wastewater Treatment Plant if it is being built to a design criteria of 5 OU?

The McLoughlin Point Wastewater Treatment Plant has been designed so there will be no detectable odour by residents. The maximum allowable odour is 5 OU at the property line, which is not detectable in the surrounding community. Modelling based on the current design shows odour during operations will be approximately 2 odour units at the property line and it dissipates quickly as it moves away from the plant.

Ogden Point Work, including Dallas Road and Niagara Street

6. What is happening at Ogden Point?

The McLoughlin Point Wastewater Treatment Plant includes construction of a cross-harbour undersea pipe from Ogden Point to McLoughlin Point. This work will take just over a year to complete, and will take place from both sides of Victoria Harbour using a process called horizontal directional drilling. Two drill locations will be used: one at McLoughlin Point, and the second at Ogden Point near the James Bay Anglers Boat Ramp. The work site will be contained, and access to the Angler's Boat Launch will be generally available during construction (there may be temporary, short-term closures). More information is available on the Ogden Point Cross Harbour Forcemain project page.

7. What are the traffic impacts to Dallas Road and Niagara Street due to the construction of the under harbour pipe at Ogden Point?

Ogden Point construction is anticipated to take just over a year to complete: from late April 2017 to July 2018. The majority of this work will take place within the fenced work site at Ogden Point. Site set up will start in May and is expected to take just over a month. This involves bringing equipment and materials to the site, which will result in about five truck trips per day.

After that, the traffic impacts will be limited, and mainly associated with construction workers getting to and from the site. There will be approximately five two-way truck trips daily to remove material from the site. The traffic impacts to Dallas Road and Niagara Street associated with the under harbour pipe are expected to occur during the final month of the work, which is anticipated to be June 2018.

8. What's happening on Niagara Street?

Impacts on Niagara Street will occur over about a month, anticipated in June 2018. Specifically:

- Niagara Street will be used to assemble the pipe that will be pulled through the directional drill passage between Ogden Point and McLoughlin Point.
- Assembling the pipe involves delivery of the pipe segments, and welding the pipe together. There is no digging required on Niagara Street.
- A portion of Niagara Street will be temporarily closed to general traffic for about a month while the pipe is assembled. We will do everything possible to ensure local traffic has continued access. Residents will have pedestrian access to their homes at all times.
- We will be coordinating with emergency services and there will be a first responder emergency services access plan in place. Emergency services will have access to all homes at all times.
- As this work will occur just over a year from now – in June 2018, the Project will arrange meetings with neighbours along Niagara Street in April 2018 to discuss details of the temporary impact and address residents' needs and concerns.

9. Will Dallas Road be affected by the pipe pull, as well as Niagara Street?

Yes, for a one week period, a portion of Dallas Road will be closed to traffic. This is anticipated to occur in June 2018 while the pipe is being 'pulled' along Niagara Street and through the directional drill passage at Ogden Point.

The exact timing of this part of the Project will be determined based on construction operations. An updated Traffic Management Plan will be developed well in advance of the pipe assembly on Niagara Street and discussed in advance with residents.

Construction of the pipe from Clover Point to Ogden Point (the Clover Point Forcemain)

10. When will construction along Dallas Road start? When will you give us more information about this construction?

The Wastewater Treatment Project is being constructed in phases. The first phase, construction of the McLoughlin Point Wastewater Treatment Plant and cross-harbour undersea pipe from Ogden Point to McLoughlin Point, will begin this spring. The construction sites will be confined to the Ogden Point area (near the existing James Bay boat launch – which will remain available) and to McLoughlin Point in Esquimalt.

Construction of the pipe from Ogden Point to Clover Point (the Clover Point Forcemain), will begin in early 2018. The Project Team is conducting field investigations which include geotechnical, environmental, archeological, civil and topographic surveys, to inform the final design and alignment of the pipe.

The 50% design of the pipe will be complete in the fall of 2017. At that time, the Project Team will present the alignment of the pipe, as well as the alignment of the cycle track, which will be built above it, to City Council at a public meeting and to the James Bay Neighbourhood Association and Fairfield Gonzales Community Association in a separate presentation.

More information about construction timing will be posted to this website when it is available.

11. Will construction on the pipe from Ogden Point to Clover Point (the Clover Point Forcemain) impact the bluffs along Dallas Road?

The proposed alignment of the pipe from Ogden Point to Clover Point (the Clover Point Forcemain) was developed in collaboration with City of Victoria planning staff and considered the bluffs, location of mature trees, sensitive vegetation, potential erosion, and traffic impacts. The Project Team will be conducting geotechnical, environmental, and archeological assessments, including civil and topographic surveys, to inform the final design and alignment of the pipe.

12. Will the construction cause erosion to the cliffs along Dallas Road?

There will be extensive engineering work completed prior to the start of construction to ensure that the alignment does not compromise the cliffs. A geotechnical site investigation will include a terrain hazard review and slope stability analysis. The final alignment of the pipe will consider existing utilities, mature trees, and potential erosion.

13. Will Dallas road be completely shut to traffic during construction of the pipe from Clover Point to Ogden Point (Clover Point Forcemain)?

No. The road will not be completely closed, but there will be temporary impacts to traffic flow along Dallas Road, as there is when any underground utility is being installed or replaced. We understand that this will have impacts on the community and we will work hard to ensure that our plans are mindful of the needs and concerns of the community. The development of traffic management plans is a high priority for the Project. The Project Team is working closely with municipal staff to ensure that traffic plans are informed by the people who have the best understanding of the local road networks and are coordinated with other development plans to ensure we are not over-burdening certain roads/routes. The Project Team is also reaching out to stakeholders to gather additional information regarding key traffic patterns and volumes that must be considered in our plans.

14. Will there be a vibration impact on nearby houses? Will vibration impact the recently constructed sea wall?

Construction of the pipe from Clover Point to Ogden Point (Clover Point Forcemain) involves digging a trench along Dallas Road, putting in a pipe, and then restoring the surface above. This is similar to work the CRD and City of Victoria do as part of regular operations to build and maintain the city's water and sewer infrastructure. We don't anticipate damage to properties as a result of this work. As of May 1,

there will be a public information phone line available for residents to call with questions or to report any concerns.

15. Will I be able to insure my property if I live close to the construction zone?

The construction should not impact an individual's ability to purchase insurance that would typically be purchased by a homeowner. As is the case with all CRD or municipal engineering activities, contractors are required to have insurance in place to protect against damage to third party property due to construction activities. Specifically, the contractor is required to conduct a pre-construction survey to document the pre-construction condition of properties, structures and buildings prior to construction. Any claims of damage from property owners would be forwarded to the contractor's insurance company.

16. Will there be blasting involved in the work on the pipe from Clover Point to Ogden Point (Clover Point Forcemain)?

We do not anticipate any blasting will be required for the work along Dallas Road. Construction of the pipe from Clover Point to Ogden Point (Clover Point Forcemain) involves digging a trench along Dallas Road; putting in a pipe; and then restoring the surface above.

There will be periodic blasting for construction of the McLoughlin Point Wastewater Treatment Plant, and there may be some blasting required at Clover Point for the Pump Station expansion depending on the final design. Blasting activities will be communicated in advance to immediate neighbours, and the anticipated blasting schedule will be posted to the Project website weekly, under Construction Notices.

17. How deep will the pipe from Clover Point to Ogden Point (Clover Point Forcemain) be buried?

The pipe will be approximately 1.2 meters (4 feet) in diameter. The top of the pipe will be approximately 1.2 meters below ground. This may vary slightly along the route.

18. Why is the pipe from Clover Point to Ogden Point (Clover Point Forcemain) being built along Dallas Road rather than offshore?

The Project Team has looked at the offshore route that has been suggested and it is not feasible for a number of reasons:

- it would be significantly more costly than the land-based route;
- the pipe would be difficult to access for maintenance or repair;
- there could be significant environmental impacts from installation of a seabed pipe, including the potential for disturbing of contaminated materials on the seabed, and a pipe installed along the foreshore would have to be protected and anchored against wave action;
- the pipe would be subject to damage from cruise ships and other boats which are known to drop anchor in the area; and

- a full environmental impact assessment would be required which would take 18-24 months to complete. This means the Project would not be completed by the end of 2020, and we would not be complying with federal regulations to treat wastewater by the end of 2020.

This technical memo from the CRD's engineering firm outlines the reasons this route is not feasible.

Saanich

19. When will you be coming to speak to those of us in Saanich about the Residuals Treatment Facility?

As we get closer to construction of the segment of the Project in Saanich, a communications and engagement program will ensure the surrounding communities have advance notice of construction activity. Broad outreach to stakeholders will include residents, businesses, schools, day cares, recreational groups, transportation providers, tourism groups and other organizations. Communications tools will include: a project information phone line, email, social media, website, community updates, construction notices, traffic media updates, door-to-door advisories where appropriate, and community information meetings.

20. When will more information be available about other components of the Project?

As we get closer to construction of other segments of the Project, a community and engagement program will ensure the surrounding communities have advance notice of construction activity. Broad outreach to stakeholders will include residents, businesses, schools, day cares, recreational groups, transportation providers, tourism groups and other organizations. Communications tools will include: a project information phone line, email, social media, website, community updates, construction notices, traffic media updates, door-to-door advisories where appropriate, and community information meetings.

- Up-to-date information materials about the Wastewater Treatment Project

Wastewater Treatment Project
Treated for a cleaner future

Project Update #2
April 2017

Welcome to the Wastewater Treatment Project Newsletter

This newsletter will give you an overview of the Capital Regional District's Wastewater Treatment Project, and let you know how you can stay informed or contact the Project. There is also lots of information on our website: **wastewaterproject.ca**

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 First Nations.

The Project is approved and now entering the construction phase. The first phase of work will begin in May 2017 on the McLoughlin Point Wastewater Treatment Plant and the cross-harbour undersea pipe between Ogden Point and McLoughlin Point.

The Project consists of three main elements:

McLoughlin Point Wastewater Treatment Plant

Located at McLoughlin Point in Esquimalt, the 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 a Residual Treatment Facility 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 residual solids to the Residuals Treatment Facility at Hartland Landfill.

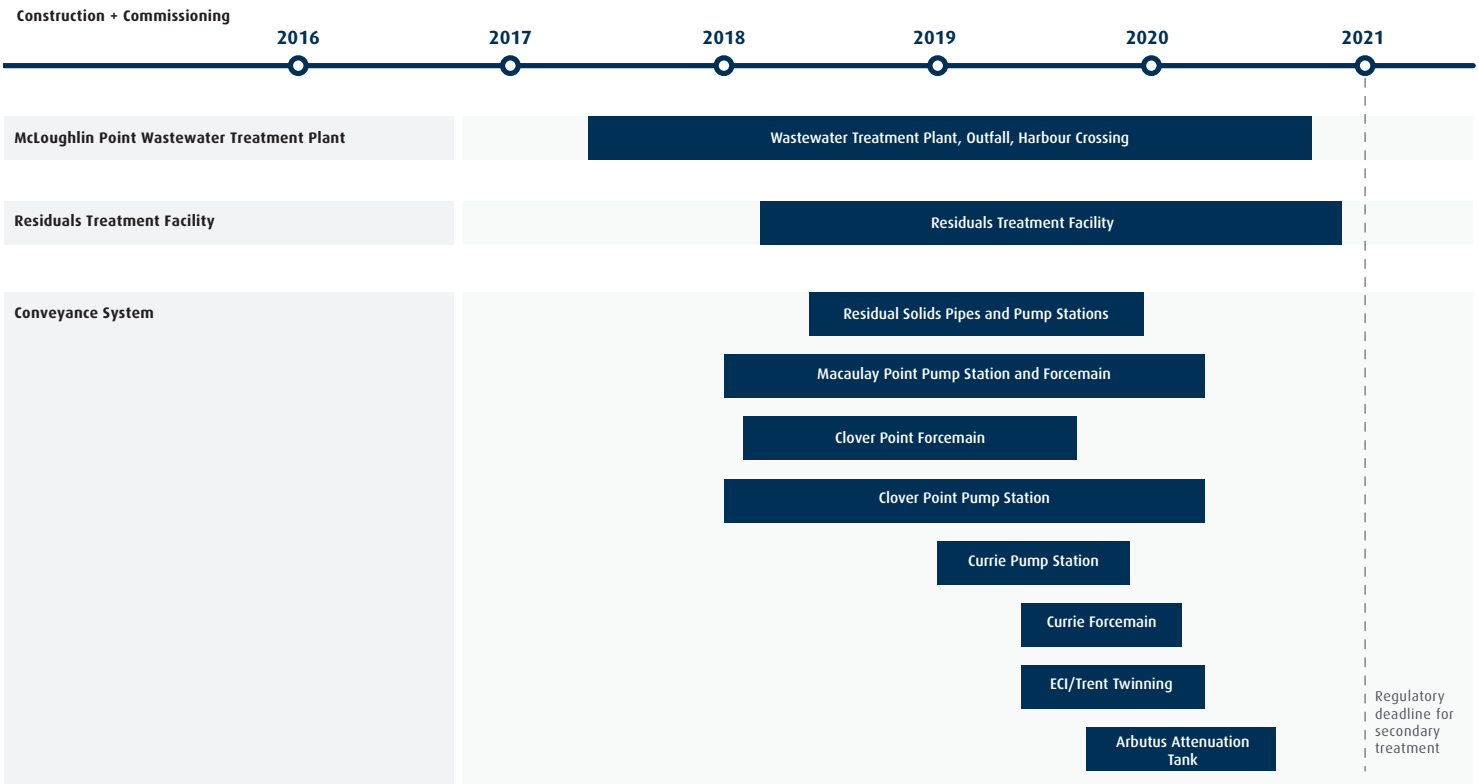
The Wastewater Treatment Project costs $765 million and is being funded by the Government of Canada, Government of British Columbia and Capital Regional District.

Artist rendering

Wastewater Treatment Project Components and Schedule

This summary will give you a high-level view of what's happening and when. 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.

Wastewater Treatment Project Schedule*



* *Schedule subject to updates as project planning progresses.*

Wastewater Treatment Project

Treated for a cleaner future

Project Update #2

April 2017

Construction is beginning this spring on the McLoughlin Point Wastewater Treatment Plant in Esquimalt and the cross-harbour undersea pipe between McLoughlin Point and Ogden Point. Construction will take place at Ogden Point to drill the undersea pipe; this will take just over a year to complete. Construction and commissioning of the Wastewater Treatment Plant at McLoughlin Point will take place from April 2017 to fall 2020.

OGDEN POINT CONSTRUCTION ACTIVITIES: ANTICIPATED APRIL 2017 – JUNE 2018*

APRIL TO MAY 2017

Remove Anglers Hut

Set up work site

- Bring equipment and materials to the site; on average five trucks per day
- Build noise wall

JUNE 2017

Install casing

- Involves approximately two weeks of pile driving
- On average five trucks per day

JUNE 2017 TO JUNE 2018

Conduct horizontal directional drilling

- Involves equipment and generators for drilling operations
- On average five trucks per day

JUNE 2018

Assemble pipe on Niagara Street

- Deliver pipe segments
- Weld pipe together

Pull pipe through directional drill passage (24 hours per day for approximately four days)

MCLOUGHLIN POINT CONSTRUCTION ACTIVITIES: ANTICIPATED APRIL 2017 – FALL 2020*

APRIL/MAY 2017

Set up construction laydown area

- Heavy equipment and personnel preparing the site

MAY 2017 TO AUG 2017

Site preparation (excavation/blasting)

- On average 30 trucks per day hauling excavated material
- Blasting activities will be periodically scheduled and communicated to immediate neighbours; blasting schedule will be posted to project website weekly

JUNE 2017 TO JUNE 2018

Conduct horizontal directional drilling

- On average five trucks per day

AUG 2017 TO FALL 2018

Pouring concrete

- On average 15 trucks per day with more for large pours

SPRING 2018 TO FALL 2019

Plant construction

- On average 10 trucks per day

FALL 2019 TO FALL 2020

Plant commissioning

** Construction schedules subject to updates based on construction operations. Project to provide regular updates on anticipated dates.*

Frequently Asked Questions about the Wastewater Treatment Project

Here are some questions we've heard from the community, and the answers. For more questions and answers, please check our "Community Questions" section on the Wastewater Treatment Project Website: **wastewaterproject.ca**

NOISE

How loud will the noise be coming from the plant during operation and how will it impact Victoria?

As per the Township of Esquimalt's Zoning Bylaw, the operational noise level will not exceed 60 decibels (dBA) measured at the plant's property line. Predicted noise levels in James Bay, the closest location to the treatment plant in Victoria, will not exceed 35 dBA. This is 5 dBA below the most stringent limit in the City of Victoria's noise bylaw.

How noisy will the construction be at Ogden Point. What are you doing to reduce it?

Construction at Ogden Point will take place over about a year, beginning in May 2017. We are building a 5-metre high noise wall around the Ogden Point work site. It will be in place before construction begins.

This will reduce construction noise below the City of Victoria construction noise bylaw level.

In June there will be approximately two weeks of pile driving. After that, while there will be noise from generators and other equipment, noise levels will be reduced considerably, and we do not anticipate any vibration.

In addition to the noise wall, we're working with the contractor to consider other noise mitigation measures to further reduce noise at the work site. We have engaged noise consultants and they will be monitoring noise levels during construction.

ODOUR

Will I be able to smell anything from the McLoughlin Point Wastewater Treatment Plant when it is up and running?

No – there will be no detectable odour in the surrounding community. The plant includes state-of-the-art odour control and a 24-hour odour control monitoring system.

OGDEN POINT/DALLAS ROAD CONSTRUCTION

When will construction along Dallas Road start? When will you give us more information about this construction?

The Wastewater Treatment Project is being constructed in phases. The first phase, construction of the McLoughlin Point Wastewater Treatment Plant and cross-harbour undersea pipe from Ogden Point to McLoughlin Point, will begin this spring. The construction sites will be confined to the Ogden Point area (near the existing James Bay boat launch – which will remain available) and to McLoughlin Point in Esquimalt.

Construction of the pipe from Ogden Point to Clover Point (the Clover Point Forcemain), will begin in early 2018. The Project Team is conducting field investigations which include geotechnical, environmental, archeological, civil and topographic surveys, to inform the final design and alignment of the pipe.

The 50% design of the pipe will be complete in the fall of 2017. At that time, the Project Team will present the alignment of the pipe, as well as the alignment of the cycle track, which will be built above it, to City Council at a public meeting and to the James Bay Neighbourhood Association and Fairfield Gonzales Community Association in a separate presentation.

Will construction on the pipe from Ogden Point to Clover Point (the Clover Point Forcemain) impact the bluffs along Dallas Road?

The proposed alignment of the pipe from Ogden Point to Clover Point (the Clover Point Forcemain) was developed in collaboration with City of Victoria planning staff and considered the bluffs, location of mature trees, sensitive vegetation, potential erosion, and traffic impacts. The Project Team will be conducting geotechnical, environmental, and archeological assessments, including civil and topographic surveys, to inform the final design and alignment of the pipe.

What are the traffic impacts to Dallas Road and Niagara Street due to the construction of the under harbour pipe at Ogden Point?

Ogden Point construction is anticipated to take just over a year to complete: from late April 2017 to July 2018. The majority of this work will take place within the fenced work site at the boat launch site next to Ogden Point. Site set up will start in May and is expected to take just over a month. This involves bringing equipment and materials to the site, which will result in about five truck trips per day.

After that, the traffic impacts will be limited, and mainly associated with construction workers getting to and from the site. There will be approximately five two-way truck trips daily to remove material from the site. The traffic impacts to Dallas Road and Niagara Street associated with assembling the under harbour pipe are expected to occur during the final month of the work, which is anticipated to be June 2018.

WHAT WILL HAPPEN ON NIAGARA STREET?

Many people have inquired about construction impacts for residents and businesses on Niagara Street. Niagara Street will be used to assemble the pipe that will be pulled through the drill passage between Ogden Point and McLoughlin Point. This work is expected to take place in June 2018 and it will take about a month to complete.

- Assembling the pipe involves delivery of the pipe segments, and welding the pipe together. **There is no digging required on Niagara Street.**
- A portion of Niagara Street will be temporarily closed to general traffic for about a month while the pipe is assembled. We will do everything possible to ensure local traffic has continued access. Residents will have pedestrian access to their homes at all times.
- The Project Team will coordinate with emergency services and there will be a first responder emergency services access plan in place. Emergency services will have access to all homes at all times.

As there have been many questions about this section of the work, we will be coming door-to-door on Niagara Street in the coming weeks to ensure that residents have the opportunity to get the correct information and ask questions.

Wastewater Treatment Project
Treated for a cleaner future

Project Update #2
April 2017

Staying Up-to-Date on the Wastewater Treatment Project

The Project team is working to ensure residents know what work is planned, when it's expected to begin and end, how the construction activity may impact communities, and what we have planned to mitigate those impacts.

THANKS FOR COMING!

Thank you to the over 300 people who attended our two Community Information Meetings on April 5 (at the Grand Pacific Hotel) and April 12 (at the Royal Canadian Legion, Esquimalt Branch). If you weren't able to make it, meeting information can be found at: wastewaterproject.ca.

What is the Project doing to get the word out?

Since January the Project Team has held five community information open houses, six meetings with residents' associations (four with James Bay Neighbourhood Association, one with the Fairfield Gonzales Community Association and one with Victoria West Community Association), and met with Macaulay Elementary School and James Bay Community School. We are also creating an Esquimalt Liaison Committee and will be planning further community meetings as we move into other phases of the Project.

We've also created a new Project website where you can find everything you need to know about the project and a project information line that you can call to get information or to report a concern. You'll also find us on social media, email (if you sign up at a meeting or on the website to receive updates), and from time-to-time when we have construction updates, in your neighbourhood going door to door.

FOR MORE INFORMATION

Website:
wastewaterproject.ca

Email:
wastewater@crd.bc.ca

Phone: 1.844.815.6132
(as of May 1)

For More Information

Website: wastewaterproject.ca
Email: wastewater@crd.bc.ca
Project Information Line: 1.844.815.6132 *(as of May 1)*

Wastewater Treatment Project
Treated for a cleaner future

Information Sheet

Ogden Point Noise Mitigation

The City of Victoria construction noise bylaw is 85 dBA. Noise mitigation will reduce construction noise below the bylaw level.

- 5-metre high acoustic sound barrier (noise wall)
- Constructed in advance of casing installation and drilling operations
- Noise mitigation will result in 75 dBA at the midpoint of Dallas Road, below the 85 dBA noise bylaw
- The project team is working with the contractor to consider other noise mitigation measures to further reduce noise at the Ogden Point work site. These could include enclosures around specific pieces of equipment, or other structures which may require additional approvals.

Noise Wall – Street view

Noise Wall – Aerial view

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 Wastewater Treatment Project will be complete by the end of 2020, and consists of the McLoughlin Point Wastewater Treatment Plant, the Residuals Treatment Facility at Hartland Landfill, and the conveyance system that will carry wastewater from across the core area to the treatment plant, and residual solids to the Residuals Treatment Facility.