

Deborah Liske

Subject: FW: Municipal Consent for Bylaw No. 4375
Attachments: 2021-04-19Bylaw4375RequestforMunicipalConsentEsquimalt.pdf; Bylaw No. 4375.pdf; Staff Report and Appendices.pdf; Five Year Capital Plan.pdf

From: Dawn Sheppard <Dsheppard@crd.bc.ca>
Sent: April-19-21 3:55 PM
To: Anja Nurvo <Anja.Nurvo@esquimalt.ca>
Cc: Laurie Hurst <laurie.hurst@esquimalt.ca>; Kristen Morley <kmorley@crd.bc.ca>
Subject: Municipal Consent for Bylaw No. 4375

Dear Ms. Nurvo;

Please find attached a letter from Kristen Morley, GM, Corporate Services regarding Municipal Consent for Bylaw No. 4375.

Thank you.

Kind regards,

Dawn Sheppard | Acting Executive Services Coordinator
Office of the CAO and Board Chair
(250) 360-3129 | Capital Regional District
www.crd.bc.ca | [Facebook](#) | [Twitter](#) | [YouTube](#)

CORPORATION OF THE TOWNSHIP OF ESQUIMALT
RECEIVED: April 20 , 2021
For Information __CAO __Mayor/Council
Other _____
Referred to: <u>Anja</u>
For __Action __Response __Report
For Agenda <u>X</u> Council __COTW __IC



This message is intended only for the use of the individual or entity named above, and may contain information that is privileged, confidential or exempt from disclosure under applicable law. If you are not the intended recipient or their employee or agent responsible for receiving the message on their behalf your receipt of this message is in error and not meant to waive privilege in this message. Please notify us immediately, and delete the message and any attachments without reading the attachments. Any dissemination, distribution or copying of this communication by anyone other than the intended recipient is strictly prohibited. Thank you. Please consider the environment before printing this email.



Making a difference...together

Corporate Services
625 Fisgard Street
Victoria, BC V8W 2S6

T: 250.360.3129
F: 250.360.3130
www.crd.bc.ca

April 19, 2021

File: 3900-30

Mayor and Council, Township of Esquimalt
Attention: Anja Nurvo, Interim Corporate Officer
1229 Esquimalt Road
Esquimalt, BC V9A 3P1
Via email: anja.nurvo@esquimalt.ca

Dear Ms. Nurvo;

**RE: MUNICIPAL CONSENT FOR BYLAW NO. 4375
LIQUID WASTE MANAGEMENT CORE AREA AND WESTERN COMMUNITIES
SERVICE LOAN AUTHORIZATION BYLAW NO. 2, 2020**

The Capital Regional District is seeking municipal consent for **Bylaw No. 4375**, a bylaw to authorize the borrowing of \$34.3M for the estimated cost of works relating to the Liquid Waste Management Core Area and Western Communities Service.

On August 12, 2020 the Capital Regional District (CRD) Board adopted Bylaw No. 4304 which consolidated the entire Core Area Liquid Waste infrastructure as one system and established a new funding formula for capital and operating expenses. As part of the background information leading up to the adoption of Bylaw No. 4304, municipal staff were presented with the long-range capital plan for the Core Area wastewater system.

The first 5 years of proposed projects were included in the 5-year (2021-2025) Capital Plan and approved by the CRD Board on March 24, 2021. See the attached table for the complete list of projects to be funded by the two Loan Authorization Bylaws.

As noted in the Plan these projects totaling about \$57 million are all to be funded by two Loan Authorization Bylaws (No. 4374 for \$22.7M and **No. 4375 for \$34.3M**). Two Loan Authorization Bylaws were prepared because some projects were previously approved in the current Core Area Liquid Waste Management Plan (LWMP) (totaling \$22.7M) and the remainder of the projects (totaling \$34.3M) were not included in the LWMP. Borrowing for projects included in the Liquid Waste Management Plan under Bylaw No. 4374 do not require participant approval, therefore municipal consent is not being sought for Bylaw 4374.

In order to adopt **Bylaw No. 4375**, municipal consent is required from 2/3rds of participants which include the City of Colwood, Township of Esquimalt, City of Langford, District of Oak Bay, District of Saanich, City of Victoria, and Town of View Royal.

Please have your Council consider the bylaw at an upcoming meeting and return a response to us no later than May 7, 2021. Your Council resolution may be worded as follows:

***That Council [consent/not consent] to the CRD adopting Bylaw No. 4375,
“Liquid Waste Management Core Area and Western Communities Service
Loan Authorization Bylaw No. 2, 2020”.***

As background information, please find attached the proposed bylaw, staff report, and five year capital plan. A copy of the Core Area Liquid Waste Management Plan is available on the [CRD website](#).

In addition to municipal Council consideration, the bylaw will be forwarded to the Inspector of Municipalities for approval before returning to the CRD Board for adoption.

If you have questions about the proposed loan authorization bylaw, please contact *Manager, Wastewater Engineering and Planning, Infrastructure Engineering* Malcolm Cowley at mcowley@crd.bc.ca or by telephone 250.360.3066.

If you have questions about the approval process, please contact *Deputy Corporate Officer* Marlene Lagoa at mlagoa@crd.bc.ca or by telephone 250.360.3127.

Sincerely,



Kristen Morley, JD
Corporate Officer
General Manager, Corporate Services

Attachments: **Bylaw No. 4375**
Staff Report and Appendices
Five Year Capital Plan

cc: Laurie Hurst, Chief Administrative Officer, Township of Esquimalt

I hereby certify the foregoing to be a true and correct copy of the Bylaw which was given third reading by the

Board on the 14 day of October, 2020

CAPITAL REGIONAL DISTRICT Dated this 21 day of January, 2021

BYLAW NO. 4375



Corporate Officer

A BYLAW TO AUTHORIZE THE BORROWING OF THIRTY FOUR MILLION, THREE HUNDRED THOUSAND DOLLARS (\$34,300,000) FOR THE ESTIMATED COST OF WORKS RELATING TO THE LIQUID WASTE MANAGEMENT CORE AREA AND WESTERN COMMUNITIES SERVICE PROGRAM

WHEREAS:

- A. By Supplementary Letters Patent, Division VII dated December 28, 1967, the Capital Regional District obtained the function of acquisition, design, construction, operation, maintenance, renewal and administration of trunk sewers and sewage disposal facilities within all member municipalities of the Regional District, except the electoral areas of Sooke and Outer Gulf Islands, converted to establishing bylaw per Bylaw No. 2312, "Liquid Waste Management Core Area and Western Communities Service Establishment Bylaw No. 1, 1995";
- B. It is deemed desirable to fund works relating to wastewater treatment facilities in the Core Area that had been deferred pending determination of a funding model and the final scope of the Core Area Wastewater Treatment Project, as well as future anticipated works, including the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components and all construction necessary for the preparation and works relating to wastewater treatment and conveyance system in the Core Area;
- C. The estimated cost of the works is the sum of thirty-four million, three-hundred thousand dollars (\$34,300,000) dollars;
- D. Pursuant to s. 407 of the *Local Government Act*, participating area approval is required for this borrowing and shall be obtained by municipal council consent under s. 346 of the *Local Government Act*;
- E. Financing is proposed to be undertaken by the Municipal Finance Authority of British Columbia pursuant to agreements between it and the Capital Regional District;

NOW THEREFORE the Capital Regional District Board in open meeting assembled hereby enacts as follows:

1. For the purposes of the Liquid Waste Management Core Area and Western Communities Service, the Board is hereby empowered and authorized to undertake and carry out or cause to be carried out the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components, and all construction necessary for the wastewater treatment facilities in the Core Area; and to do all things necessary in connection therewith and without limiting the generality of the foregoing:

(a) to borrow upon the credit of the Capital Regional District a sum not exceeding thirty-four million, three-hundred thousand dollars (\$34,300,000); and

(b) to acquire all such real property, easements, rights-of-way, licenses, rights or authorities as may be requisite or desirable for or in connection with construction of the said facilities.

2. The maximum term for which debentures may be issued to secure the debt intended to be created by this bylaw is 15 years.
3. This Bylaw may be cited as "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020".

READ A FIRST TIME THIS 14th day of October 2020

READ A SECOND TIME THIS 14th day of October 2020

READ A THIRD TIME THIS 14th day of October 2020

APPROVED BY TWO-THIRDS
OF PARTICIPANTS PER S.346 OF
THE LOCAL GOVERNMENT ACT THIS ____th day of 202__

APPROVED BY THE INSPECTOR
OF MUNICIPALITIES THIS ____th day of 202__

ADOPTED THIS ____th day of 202__

CHAIR

CORPORATE OFFICER

**REPORT TO CORE AREA LIQUID WASTE MANAGEMENT COMMITTEE
MEETING OF WEDNESDAY, OCTOBER 07, 2020**

SUBJECT **Bylaw Nos. 4374 and 4375: Core Area Wastewater Loan Authorizations**

ISSUE SUMMARY

A Capital Regional District (CRD) Board resolution is required to commence the loan authorization process for Bylaw No. 4374, planned borrowing as set out in the Liquid Waste Management Plan; and Bylaw No. 4375, borrowing required to implement a long-term capital program for the Core Area Wastewater program.

BACKGROUND

On August 12, 2020, the Board agreed to a cost-apportionment system for the Core Area and Western Communities Liquid Waste management service, per Liquid Waste Management Core Area and Western Communities Service Establishment Bylaw No. 1, 1995, Amendment Bylaw No. 3, 2020 (Bylaw No. 4304). All conveyance and treatment capital is to be cost apportioned on the basis of treatment capacity as outlined in Schedule C to Bylaw No. 4304.

As of January 1, 2021, the entire conveyance and treatment system will be administered under one regulatory and administrative framework. Long term system infrastructure renewal and capacity upgrades will be a 'one-system' model. Capital projects are prioritized together across the entire system.

The 2021 - 2025 Provisional Financial Plan includes planned projects totaling \$57.0 million. The plan reflects infrastructure renewal projects required on existing conveyance systems and are planned in each of the major asset categories including pump stations upgrades, gravity sewer and manhole upgrades and replacements, pressure pipe upgrades, flow meter installations and replacements, system control and communications upgrades, and outfall retrofits.

To fund the provisional capital program, long-term borrowing is required. The following two bylaws are proposed:

Service Area	Action	Purpose	Bylaw
3.798C	Loan Authorization Bylaw	To permit long-term borrowing related to the capital plan for this service, to conduct planned works approved by the Province in the CRD's Liquid Waste Management Plan (LWMP).	4374 Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020

3.798C	Loan Authorization Bylaw	To permit long-term borrowing related to the capital plan for this service, to conduct planned works arising since the approval of the LWMP.	4375 Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020
--------	--------------------------	--	---

A portion of these upgrades were approved by the Province in the CRD's LWMP after public consultation and Ministerial review in accordance with the *Environmental Management Act*. These works are reflected in Bylaw No. 4374, the \$22.7 million. Additional capital upgrades and maintenance works arising since the approval of the LWMP are reflected in Bylaw No. 4375, the \$34.3 million.

ALTERNATIVES

Alternative 1

The Core Area Liquid Waste Management Committee recommends to the Capital Regional District Board:

1. That Bylaw No. 4374, "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020" be introduced and read a first, second, and third time;
2. That Bylaw No. 4374 be referred to the Inspector of Municipalities for approval.
3. That Bylaw No. 4375, "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020" be introduced and read a first, second, and third time;
4. That Bylaw No. 4375 be referred to the municipal councils of the participants for approval, and if two-thirds of approval is received, to the Inspector of Municipalities.

Alternative 2

The Core Area Liquid Waste Management Committee recommends to the Capital Regional District Board:

1. That Bylaw No. 4374, "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020" be introduced and read a first, second, and third time;
2. That Bylaw No. 4374 be referred to the Inspector of Municipalities for approval.
3. That Bylaw No. 4375, "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020" be introduced and read a first, second, and third time;
4. That Bylaw No. 4375 be referred to alternative approval process for the entire service area, and if approval is received, to the Inspector of Municipalities.

Alternative 3

The Core Area Liquid Waste Management Committee recommends to the Capital Regional District Board:

That Bylaw Nos. 4374 and 4375, “Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020” and “Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020”, be deferred pending further information.

IMPLICATIONS

Legislative Implications

Long-term borrowing (i.e. loans with a term of more than 5 years) must be supported by a loan authorization bylaw, requiring elector approval and the approval of the Inspector of Municipalities.

Pursuant to the *Regional District Liabilities Regulation*, BC Reg 261/2004, as elector consultation and Provincial approval has occurred as part of establishing a LWMP, elector approval is not required for the \$22.7 million loan, as it is for works implementing the plan. CRD may proceed with Bylaw No. 4374, provided the Inspector of Municipalities approves.

For the additional borrowing of \$34.3 million, elector approval or a LWMP amendment is required. Elector approval can be obtained through consent on behalf by two-thirds of municipal participants’ councils; or by alternative approval process for the entire service area. In a service area of this size municipal counsel consent would require less administrative resources.

Obtaining elector approval will address the legislated requirements through this transitional period. CRD continues to undertake an amendment of the LWMP to reflect the updated long term capital plan.

Financial Implications

The loan authorizations for the provisional capital program total \$57 million and will support the planned 5 year capital plan starting 2021. There are no existing capital reserves in place requiring borrowings to fund the capital plan. To enable optimization of interest and timing of long term debt issuance a temporary borrowing is also being proposed.

The timing of the debt issuance will be based on the timing of expenditures and will be dependent on prevailing interest rates at the time. Before long term debt issuance can be exercised a security issuing bylaw will be brought forward for approval. The term of any debt issuances under this loan authorization will be 15 years.

The cost of borrowing is included in the Provisional Budget to be presented on October 28 with an estimated impact of \$117k in 2021.

CONCLUSION

Capital program work is planned for 2021 and ongoing. The work will be funded through a combination of requisition and borrowed funds. Timely access to the borrowed funds in 2021 is critical to meeting the capital program spending needs. To that end, a CRD Board resolution is required to commence the loan authorization process for Bylaw No. 4374, planned borrowing as set out in the Liquid Waste Management Plan; and Bylaw No. 4375, borrowing required to implement a long-term capital program for the Core Area Wastewater program.

RECOMMENDATION

The Core Area Liquid Waste Management Committee recommends to the Capital Regional District Board:

1. That Bylaw No. 4374, “Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020” be introduced and read a first, second, and third time;
2. That Bylaw No. 4374 be referred to the Inspector of Municipalities for approval.
3. That Bylaw No. 4375, “Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020” be introduced and read a first, second, and third time;
4. That Bylaw No. 4375 be referred to the municipal councils of the participants for approval, and if two-thirds of approval is received, to the Inspector of Municipalities.

Submitted by:	Rianna Lachance, B.Com, CPA, CA, Senior Manager, Financial Services
Concurrence:	Nelson Chan, MBA, CPA, CMA, Chief Financial Officer
Concurrence:	Kristen Morley, J.D., General Manager, Corporate Services & Corporate Officer
Concurrence:	Ted Robbins, B. Sc., C. Tech., General Manager, Integrated Water Services
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

ATTACHMENT(S)

Appendix A: Bylaw 4374, “Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020”

Appendix B: Bylaw 4375, “Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020”

CAPITAL REGIONAL DISTRICT

BYLAW NO. 4374

A BYLAW TO AUTHORIZE PLANNED BORROWING OF TWENTY-TWO MILLION, SEVEN HUNDRED THOUSAND (\$22,700,000) FOR THE IMPLEMENTATION OF THE LIQUID WASTE MANAGEMENT PLAN IN THE CORE AREA AND WESTERN COMMUNITIES LIQUID WASTE SERVICE

WHEREAS:

- A. By Supplementary Letters Patent, Division VII dated December 28, 1967, the Capital Regional District obtained the function of acquisition, design, construction, operation, maintenance, renewal and administration of trunk sewers and sewage disposal facilities within all member municipalities of the Regional District, except the electoral areas of Sooke and Outer Gulf Islands, converted to establishing bylaw per Bylaw No. 2312, "Liquid Waste Management Core Area and Western Communities Service Establishment Bylaw No. 1, 1995";
- B. Pursuant to the *Regional District Liabilities Regulation*, BC Reg 261/2004, adoption of a loan authorization bylaw is permitted if the borrowing is to implement all or part of an approved liquid waste management plan and Inspector of Municipalities approval is obtained.
- C. The Capital Regional District Core Area Liquid Waste Management Plan, dated July 12, 2000, was approved March 26, 2003 by the Minister of Water, Land and Air Protection pursuant to now s. 24(5) of the *Environmental Management Act*. Approved works include the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components and all construction necessary for the preparation and works relating to wastewater treatment and conveyance system in the Core Area;
- D. The estimated cost is twenty-two million seven-hundred thousand dollars (\$22,700,000);
- E. Financing is proposed to be undertaken by the Municipal Finance Authority of British Columbia pursuant to agreements between it and the Capital Regional District;

NOW THEREFORE the Capital Regional District Board in open meeting assembled hereby enacts as follows:

1. For the purposes of the Liquid Waste Management Core Area and Western Communities Service, the Board is hereby empowered and authorized to undertake and carry out or cause to be carried out the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components, and all construction necessary for the wastewater treatment facilities in the Core Area; and to do all things necessary in connection therewith and without limiting the generality of the foregoing:

(a) to borrow upon the credit of the Capital Regional District a sum not exceeding twenty-two-million, seven-hundred-thousand dollars (\$22,700,000); and

(b) to acquire all such real property, easements, rights-of-way, licenses, rights or authorities as may be requisite or desirable for or in connection with construction of the said facilities.

2. The maximum term for which debentures may be issued to secure the debt intended to be created by this bylaw is 15 years.
3. This Bylaw may be cited as "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 1, 2020".

READ A FIRST TIME THIS	___ th	day of	202__
READ A SECOND TIME THIS	___ th	day of	202__
READ A THIRD TIME THIS	___ th	day of	202__
APPROVED BY THE INSPECTOR OF MUNICIPALITIES THIS	___ th	day of	202__
ADOPTED THIS	___ th	day of	202__

CHAIR

CORPORATE OFFICER

CAPITAL REGIONAL DISTRICT

BYLAW NO. 4375

A BYLAW TO AUTHORIZE THE BORROWING OF THIRTY FOUR MILLION, THREE HUNDRED THOUSAND DOLLARS (\$34,300,000) FOR THE ESTIMATED COST OF WORKS RELATING TO THE LIQUID WASTE MANAGEMENT CORE AREA AND WESTERN COMMUNITIES SERVICE PROGRAM

WHEREAS:

- A. By Supplementary Letters Patent, Division VII dated December 28, 1967, the Capital Regional District obtained the function of acquisition, design, construction, operation, maintenance, renewal and administration of trunk sewers and sewage disposal facilities within all member municipalities of the Regional District, except the electoral areas of Sooke and Outer Gulf Islands, converted to establishing bylaw per Bylaw No. 2312, "Liquid Waste Management Core Area and Western Communities Service Establishment Bylaw No. 1, 1995";
- B. It is deemed desirable to fund works relating to wastewater treatment facilities in the Core Area that had been deferred pending determination of a funding model and the final scope of the Core Area Wastewater Treatment Project, as well as future anticipated works, including the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components and all construction necessary for the preparation and works relating to wastewater treatment and conveyance system in the Core Area;
- C. The estimated cost of the works is the sum of thirty-four million, three-hundred thousand dollars (\$34,300,000) dollars;
- D. Pursuant to s. 407 of the *Local Government Act*, participating area approval is required for this borrowing and shall be obtained by municipal council consent under s. 346 of the *Local Government Act*;
- E. Financing is proposed to be undertaken by the Municipal Finance Authority of British Columbia pursuant to agreements between it and the Capital Regional District;

NOW THEREFORE the Capital Regional District Board in open meeting assembled hereby enacts as follows:

- 1. For the purposes of the Liquid Waste Management Core Area and Western Communities Service, the Board is hereby empowered and authorized to undertake and carry out or cause to be carried out the planning, study, public consultation, site selection, design, land and material acquisition, construction, supply and installation of all material, equipment and components, and all construction necessary for the wastewater treatment facilities in the Core Area; and to do all things necessary in connection therewith and without limiting the generality of the foregoing:
 - (a) to borrow upon the credit of the Capital Regional District a sum not exceeding thirty-four million, three-hundred thousand dollars (\$34,300,000); and

(b) to acquire all such real property, easements, rights-of-way, licenses, rights or authorities as may be requisite or desirable for or in connection with construction of the said facilities.

2. The maximum term for which debentures may be issued to secure the debt intended to be created by this bylaw is 15 years.
3. This Bylaw may be cited as "Liquid Waste Management Core Area and Western Communities Service Loan Authorization Bylaw No. 2, 2020".

READ A FIRST TIME THIS ___th day of 202__

READ A SECOND TIME THIS ___th day of 202__

READ A THIRD TIME THIS ___th day of 202__

APPROVED BY TWO-THIRDS
OF PARTICIPANTS PER S.346 OF
THE *LOCAL GOVERNMENT ACT* THIS ___th day of 202__

APPROVED BY THE INSPECTOR
OF MUNICIPALITIES THIS ___th day of 202__

ADOPTED THIS ___th day of 202__

CHAIR

CORPORATE OFFICER

CAPITAL REGIONAL DISTRICT CAPITAL PLAN

CAPITAL BUDGET FORM
2021 & Forecast 2022 to 2025

Service #:

3.798C

Service Name:

Core Area Wastewater

FIVE YEAR FINANCIAL PLAN

Proj. No.	Capital Project Title	Capital Project Description	Funding Source	2021	2022	2023	2024	2025	5 - Year Total
PROJECTS THAT ARE ALREADY INCLUDED IN THE CORE AREA LIQUID WASTE MANAGEMENT PLAN									
21-03	Currie Major Electrical and Siesmic Upgrades	Renewals based upon Delcan's 2013 condition assessments and revised inspections. Work includes electrical (replace VFDs, PLC, SCADApack, communications), siesmic upgrades and driveway repairs. Assessment and VFD replacement in 2021 and other upgrades in 2022.	Debt	\$400,000	\$0	\$0	\$1,900,000	\$0	\$2,300,000
21-07	Western Trunk Sewer Twinning	The hydraulic model and capacity assessment of the system by KWL in 2018-19, has identified that the Western Trunk Sewer must be twinned from Aldeane to Craigflower PS to prevent overflows upstream of Parson's siphon. Complete an options study in 2021/22 and detailed design/construction between 2026-2030.	Debt	\$200,000	\$200,000	\$0	\$0	\$0	\$400,000
21-08	Boundary Odour Control Replacement	The Boundary UV odour control unit has failed. Based on the 2018 KWL Odour Control Assessment review, a new carbon scrubber located closer to Gorge Siphon inlet chamber maybe more effective.	Debt	\$400,000	\$0	\$0	\$0	\$0	\$400,000
21-09	Bowker Sewer Rehabilitation	Based on results of CCTV inspection about 1,685m of sewer from North Dairy to Richmond and 1,860m from Foul Bay to Currie PS needs to be relined.	Debt	\$4,300,000	\$4,300,000	\$0	\$0	\$0	\$8,600,000
21-10	Sewer Cleaning and Inspection	Regional sewers should be cleaned and inspected on a 5-year cycle. The trunk sewers from Prospect to Currie PS and from Bushby to Clover PS will be inspected in 2021. The 5-year cycle will recommence in 2024.	Debt	\$150,000	\$0	\$0	\$150,000	\$150,000	\$450,000
21-13	Craigflower Forcemain Twinning	The hydraulic model and capacity assessment of the system by KWL in 2018-19, has identified that the Craigflower Forcemain must be twinned to prevent overflows into Portage Inlet.	Debt	\$300,000	\$300,000	\$4,500,000	\$4,500,000	\$0	\$9,600,000
21-20	Haultain, Hereward, Langford Replacement	Based on KWL's 2018-19 Flow Meter Audit review, ultrasonic meters are to be replaced with new LUT-440 models.	Debt	\$40,000	\$0	\$0	\$0	\$0	\$40,000
22-01	Odour Control HVAC Testing and Balancing	Based upon KWL's 2018 condition assessment review, upgrades are required to several odour control facilities (ie. carbon scrubbers, biocide injection, etc). In addition, HVAC testing & balancing and process narratives are required.	Debt	\$0	\$200,000	\$0	\$200,000	\$200,000	\$600,000
23-01	Cecelia Ravine Pipe Protection	Based on geotechnical review, a section of the exposed NWT in Cecelia Ravine should be covered & protected from falling rocks upslope from the pipe.	Debt	\$0	\$0	\$300,000	\$0	\$0	\$300,000
				SUBTOTAL OF EXISTING LWMP PROJECTS					\$22,690,000
PROJECTS THAT ARE NOT INCLUDED IN THE CORE AREA LIQUID WASTE MANAGEMENT PLAN									
PUMP STATIONS									
21-01	Lang Cove Electrical and Building Upgrades	Renewals based upon Delcan's 2013 condition assessments and revised inspections. Work includes electrical (replace PLC, SCADApack, communications), and building upgrades.	Debt	\$100,000	\$250,000	\$0	\$0	\$0	\$350,000
21-02	Marigold Electrical and Building Upgrades	Renewals are based upon Delcan's 2013 condition assessments and revised inspections. Work includes electrical (replace MCC, PLC, VFD's, 480v to 600v upgrade, etc), and building upgrades.	Debt	\$400,000	\$1,850,000	\$0	\$0	\$0	\$2,250,000
21-04	Craigflower Odour Control Upgrade	Increasing flows and off-gassing from the cortex drop are generating higher odours than expected. Improvements are required to mitigate odours and address health and safety concerns.	Debt	\$400,000	\$0	\$0	\$0	\$0	\$400,000
21-05	Harling PS - Complete Replacement	Replacement of Harling Point PS is based on Delcan's 2013 condition assessment. The preliminary design was completed in 2018. Detailed Design will be completed in 2021 and construction in 2022.	Debt	\$200,000	\$1,700,000	\$0	\$0	\$0	\$1,900,000
24-01	Trent PLC Upgrade	The PLC needs to be upgraded to meet new software standards.	Debt	\$0	\$0	\$0	\$250,000	\$0	\$250,000
24-02	Hood Mechanical and Electrical Renewal	Upgrades are based upon Delcan's 2013 condition assessments and revised inspections. The work includes pump replacement, installation of a new valve chamber, RTU upgrade, and site improvements.	Debt	\$0	\$0	\$0	\$420,000	\$0	\$420,000
24-03	Currie Minor Mechanical and Electrical Renewal	Upgrades are based upon Delcan's 2013 condition assessments and revised inspections. The work includes pump and valve replacement.	Debt	\$0	\$0	\$0	\$230,000	\$0	\$230,000
24-04	Humber Mechanical and Electrical Renewal	Upgrades are based upon Delcan's 2013 condition assessments and revised inspections. The work includes pump and valve replacements, PLC/RTU upgrade and site improvements.	Debt	\$0	\$0	\$0	\$290,000	\$0	\$290,000
24-05	Rutland Electrical and Mechanical Renewal	Upgrades are based upon Delcan's 2013 condition assessments and revised inspections. The work includes pump and valve replacements, PLC/RTU upgrade and site improvements.	Debt	\$0	\$0	\$0	\$290,000	\$0	\$290,000
24-06	Penrhyn Electrical and Mechanical Renewal	Upgrades are based upon Delcan's 2013 condition assessments and revised inspections. The work includes electrical (replace PLC and MCC), mechanical (replace pumps and upgrade HVAC), and structural/building upgrades.	Debt	\$0	\$0	\$0	\$120,000	\$550,000	\$670,000
GRAVITY SEWERS AND MANHOLES									
21-06	Shoreline Trunk Sewer Upgrade	The hydraulic model and capacity assessment of the system by KWL in 2018-19, has identified that the Shoreline Trunk must be twinned to prevent overflows into Portage Inlet.	Debt	\$100,000	\$100,000	\$2,000,000	\$0	\$0	\$2,200,000
21-11	Manhole Repairs and Replacement	Based upon CCTV and staff inspections on manholes, high priority repairs and replacement of deteriorated MH's will start in 2021.	Debt	\$500,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,500,000
PRESSURE PIPES AND APPURTENANCES									
21-12	Gorge Siphon Inlet Chamber Upgrade	The control gates are siezed on this chamber and they need to be replaced so that the individual siphons can be isolated or activated.	Debt	\$500,000	\$0	\$0	\$0	\$0	\$500,000
21-14	Marigold Siphon Assessment	The Marigold Siphon section is a pressurized (pre-stressed concrete pipe), nearing 50 years old, and has never been assessed. Assessment and eventual replacement of the pipe is required.	Debt	\$400,000	\$0	\$0	\$0	\$7,900,000	\$8,300,000
22-02	Gorge and Harriet Siphon Assessment	The Gorge and Harriet Siphons are ductile iron pipe, nearing 50 years old, and have never been flushed or assessed. Flushing and assessment of the pipe is required.	Debt	\$0	\$250,000	\$0	\$0	\$0	\$250,000
23-02	Penrhyn Siphon Assessment	The Penrhyn Siphon is PVC pipe, and has never been flushed or assessed. Flushing and assessment of the pipe is required.	Debt	\$0	\$0	\$400,000	\$0	\$0	\$400,000
24-07	Parsons Siphon Assessment	The Parsons Siphons are PVC and steel pipe, and have never been flushed or assessed. Flushing and assessment of the pipe is required.	Debt	\$0	\$0	\$0	\$400,000	\$0	\$400,000
25-01	Admirals Siphon Assessment	The Admirals Siphon is PVC pipe, and has never been flushed or assessed. Flushing and assessment of the pipe is required.	Debt	\$0	\$0	\$0	\$0	\$400,000	\$400,000
FLOW METERS									
21-15	Parsons Meter Replacement	Based on KWL's 2018-19 Flow Meter Audit review, Parsons meter is to be replaced with two doppler meters and one magmeter on Wilfert PS (includes install of meters, kiosk and conduit).	Debt	\$250,000	\$0	\$0	\$0	\$0	\$250,000
21-16	Gorge & Chapman Meter	Based on KWL's 2018-19 Flow Meter Audit review, KWL recommended a new flodlar meter to measure the unmetered Gorge and Chapman catchments. Includes installation of new metering manhole.	Debt	\$130,000	\$0	\$0	\$0	\$0	\$130,000
21-17	Esquimalt Nation Meter	Based on KWL's 2018-19 Flow Meter Audit review, KWL recommended a new custom weir, kiosk and conduit to measure the unmetered Esquimalt Nation catchment.	Debt	\$200,000	\$0	\$0	\$0	\$0	\$200,000

FIVE YEAR FINANCIAL PLAN									
Proj. No.	Capital Project Title	Capital Project Description	Funding Source	2021	2022	2023	2024	2025	5 - Year Total
21-18	Shoreline Trunk Meter	Based on KWL's 2018-19 Flow Meter Audit review, KWL recommended a new flodar meter to measure the unmetered Shoreline catchment. Includes installation of FioDar meter, kiosk and conduit.	Debt	\$50,000	\$190,000	\$0	\$0	\$0	\$240,000
21-19	Selkirk Meter	Based on KWL's 2018-19 Flow Meter Audit review, KWL recommended a new flume meter to measure the unmetered Selkirk catchment (install weir, kiosk and conduit).	Debt	\$190,000	\$0	\$0	\$0	\$0	\$190,000
21-21	Penrhyn Meter	Based on KWL's 2018-19 Flow Meter Audit review, the ADFM insertion probe meter is damaged and needs to be replaced.	Debt	\$90,000	\$0	\$0	\$0	\$0	\$90,000
GENERAL									
21-22	Asset Management Plan Update	Previous condition assessment studies will be updated and incorporated into a long-term asset management plan to meet expected level-of-service requirements.	Debt	\$250,000	\$0	\$0	\$0	\$0	\$250,000
21-23	DCC Program Development	With the completion of CAWTP and amendment of the Service Establishment Bylaw, it was noted that a DCC Program would be established to fund future wastewater projects related to growth. This project is to create the program, consult with stakeholders and prepare a new DCC bylaw.	Debt	\$300,000	\$100,000	\$0	\$0	\$0	\$400,000
21-24	Record Drawing and Wastewater Agreement Updates	The old as-built drawings, connection points and wastewater agreements with the contributing municipalities has not been updated in many years. Updates are required to reflect changes in the system, identify clear demarcation points, and reflect updates in the LWMP.	Debt	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
21-25	SCADA and Radio Assessment	Majority of the radio and SCADA equipment are nearing end of life, technological advances do not allow for straight replacements, funding is required for assessments of existing equipment and site requirements. Replacement will happen over many years commencing in 2022.	Debt	\$150,000	\$750,000	\$750,000	\$750,000	\$750,000	\$3,150,000
22-03	Acquisition of Outstanding Right-of-Ways	Some of the infrastructure is located on privately owned land that do not have right-of-ways. A plan is being developed to acquire SRW's for all infrastructure over time. Initial spending requires a study and plan prior to acquisition.	Debt	\$0	\$200,000	\$0	\$0	\$1,000,000	\$1,200,000
21-26	Annual Provisional Emergency Repairs	Unforeseen and unplanned emergency repairs can occur which require immediate attention.	Debt	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
OUTFALLS									
24-08	Clover Point Outfall Retrofit	The existing outfall will see a significant reduction in usage once the Clover Point Pump Station is commissioned and wastewater flows up to 3 times ADWF are redirected to the McLoughlin WWTP. As a result, the existing outfall will need to be assessed for best operational and maintenance practices based on expected limited use instead of current continuous use.	Debt	\$0	\$0	\$0	\$500,000	\$0	\$500,000
25-02	Macaulay Point Outfall Retrofit	A section of coating the emergency short outfall has failed and the pipe is corroding, and the long outfall needs to be modified to suit reduced usage. This project is to repair the coating, provide shoreline protection, and modify the deep outfall.	Debt	\$0	\$0	\$0	\$0	\$750,000	\$750,000
RESIDUAL SOLIDS									
21-27	Biosolids Beneficial Use Building	Modular storage facility for mixing biosolids for application at Hartland.	Debt	\$300,000	\$0	\$0	\$0	\$0	\$300,000
21-28	Lafarge Biosolids Receiving	Lafarge Biosolids Receiving Silo Interconnect or Purchase of two used Pneumatic Bulk Trailers	Debt	\$250,000	\$0	\$0	\$0	\$0	\$250,000
21-29	Quonset removal	Demo old storage facility	Debt	\$50,000	\$0	\$0	\$0	\$0	\$50,000
			SUBTOTAL OF PROJECTS NOT IN THE LWMP						\$34,450,000
GRAND TOTAL				\$5,910,000	\$6,740,000	\$4,500,000	\$4,600,000	\$12,700,000	\$57,140,000