

CAPITAL REGIONAL DISTRICT 2026

BUDGET

Debt - Core Area Wastewater Capital

CORE AREA LIQUID WASTE MANAGEMENT COMMITTEE

Service: 3.798C Debt - Core Area Wastewater Capital

Committee: Core Area Liquid Waste Management

DEFINITION:

Infrastructure improvements and capital work to all wastewater functions of the Capital Regional District.

PARTICIPATION:

Cost apportionment is based on capacity allocated to each participant.

MAXIMUM LEVY:

N/A

MAXIMUM CAPITAL DEBT:

	<u>Authorized</u>	<u>Borrowed</u>	<u>Remaining</u>
Authorized:			
LA Bylaw 4204	665,000,000	95,000,000	570,000,000
LA Bylaw 4374	22,700,000	10,470,000.00	12,230,000
LA Bylaw 4375	34,300,000	-	34,300,000
Remaining:	\$ 722,000,000	\$ 105,470,000	\$ 616,530,000

**CORE AREA WASTEWATER TREATMENT PLANT
COST SHARING ALLOCATION-DESIGN CAPACITY BENEFIT:**

<u>Location</u>	<u>Allocation of Debt Servicing Costs</u>
Colwood	4.24%
Esquimalt	6.54%
Langford	12.63%
Oak Bay	6.39%
Saanich	30.34%
Victoria	35.95%
View Royal	3.18%
Esquimalt Nation	0.60%
Songhees Nation	0.13%
Total	100.00%

Bylaw 4304

FUNDING:

Requisition

Change in Budget 2025 to 2026
Service: 3.798C Debt-Core Area Wastewater Capital Total Expenditure Comments

2025 Budget 23,497,237

Changes:

Transfer to Capital Reserve	1,000,000	Increasing annual capital reserve to restore to original plan
CAWW Debt	(613,955)	No additional principal repayment is anticipated in 2026
Other	69,181	Interest expense and debt reserve contribution increase
Total Other Changes	455,226	

2026 Budget 23,952,463

Summary of % Expense Increase		
Capital Reserve Transfer	4.3%	
CAWW Debt	-2.6%	
Other	0.3%	
% expense increase from 2024:	1.9%	
% Requisition increase from 2024 (if applicable):	1.99%	Requisition funding is 97.2% of service revenue

Note: A new loan authorization of approximately \$50,425,000 will be required in 2026 to support the 2026–2030 capital plan.

Overall 2025 Budget Performance
(expected variance to budget and surplus treatment)

There is a one-time favorable variance forecasted at \$1,500,000, primarily due to savings from delaying a portion of the loan. This amount will be split between the Capital Reserve Fund and Debt Reserve Fund, \$1,000,000 and \$500,000 allocated to each respectively. .

CAPITAL / RESERVE

PARTICIPANTS: Victoria, Oak Bay, Esquimalt, Saanich
View Royal, Colwood, Langford

CAPITAL REGIONAL DISTRICT
FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2026 to 2030

Service No.	3.798C	Carry						
	Debt - Core Area Wastewater Treatr	Forward	2026	2027	2028	2029	2030	TOTAL
		from 2025						

EXPENDITURE

Buildings	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$50,000	\$50,000	\$250,000	\$1,000,000	\$1,000,000	\$0	\$2,300,000
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Engineered Structures	\$11,425,000	\$22,535,000	\$16,960,000	\$24,675,000	\$17,740,000	\$15,840,000	\$97,750,000
Vehicles	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$11,475,000	\$22,585,000	\$17,210,000	\$25,675,000	\$18,740,000	\$15,840,000	\$100,050,000

SOURCE OF FUNDS

Capital Funds on Hand	\$600,000	\$600,000	\$0	\$0	\$0	\$0	\$600,000
Debenture Debt (New Debt Only)	\$10,445,000	\$18,930,000	\$14,735,000	\$23,575,000	\$16,940,000	\$12,040,000	\$86,220,000
Equipment Replacement Fund	\$350,000	\$550,000	\$500,000	\$600,000	\$300,000	\$300,000	\$2,250,000
Grants (Federal, Provincial)	\$0	\$200,000	\$75,000	\$0	\$0	\$0	\$275,000
Donations / Third Party Funding	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reserve Fund	\$80,000	\$2,305,000	\$1,900,000	\$1,500,000	\$1,500,000	\$3,500,000	\$10,705,000
	\$11,475,000	\$22,585,000	\$17,210,000	\$25,675,000	\$18,740,000	\$15,840,000	\$100,050,000

Definitions for the 5-year Capital Plan

Asset Class	<p>Asset class is used to classify assets for financial reporting in accordance with the Public Sector Accounting Board (PSAB) 3150.</p> <p>L - Land S - Engineering Structure B - Buildings V - Vehicles E - Equipment</p>
Capital Expenditure Type	<p>Capital expenditure type is used for reporting on asset investments and may be used to justify operational needs for a service.</p> <p>Study - Expenditure for feasibility and business case report. New - Expenditure for new asset only Renewal - Expenditure upgrades an existing asset and extends the service ability or enhances technology in delivering that service Replacement - Expenditure replaces an existing asset</p>
Carryforward	Represents the carryforward amount from the prior year capital plan that is remaining to be spent. Forecast this spending over the next 5 years.
Funding Source	<p>Debt - Debenture Debt (new debt only) ERF - Equipment Replacement Fund Grant - Grants (Federal, Provincial) Cap - Capital Funds on Hand Other - Donations / Third Party Funding Res - Reserve Fund WU - Water Utility</p> <p>If there is more than one funding source, additional rows are shown for the project.</p>

CAPITAL REGIONAL DISTRICT

5 YEAR CAPITAL PLAN

2026 - 2030

Service #:

3.798C

Service Name:

Debt - Core Area Wastewater Treatment Program

PROJECT DESCRIPTION				PROJECT BUDGET & SCHEDULE									
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2025	2026	2027	2028	2029	2030	5 - Year Total
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward	Year 1	Year 2	Year 3	Year 4	Year 5	- Year Totalauto-populate
MCLOUGHLIN WASTEWATER TREATMENT PLANT													\$ -
25-01	New	Secondary Odour Collection System Upgrade - pre-filter	Replacement of existing pre-filter to further optimize odour treatment and extend the life of carbon treatment.	\$ 750,000	S	Debt	\$ 170,000	\$ 170,000	\$ -	\$ -	\$ -	\$ -	\$ 170,000
26-03	New	Electric Vehicle Charging	Electrical and civil work for electric vehicle charger infrastructure.	\$ 1,370,000	S	Debt	\$ -	\$ 715,000	\$ -	\$ 25,000	\$ 40,000	\$ 390,000	\$ 1,170,000
						Grant		\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
26-04	New	McLoughlin Discharge Energy Reclamation	Feasibility study to look at the cost benefit of pursuing this.	\$ 75,000	S	Grant		\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ 75,000
													\$ -
PUMP STATIONS													\$ -
21-01	Renewal	Lang Cove Electrical and Building Upgrades	Renewals based upon Delcan's condition assessment and EIC inspections. Work includes electrical (replace PLC, SCADA pack, communications), and building upgrades.	\$ 1,200,000	S	Res	\$ 50,000	\$ 150,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 550,000
21-02	Renewal	Marigold Electrical and Building Upgrades	Renewals are based upon Delcan's condition assessment and EIC inspections. Work includes electrical (replace MCC, PLC, VFD's, 480v to 600v upgrade, etc), and building upgrades.	\$ 5,850,000	S	Debt	\$ 1,400,000	\$ 2,145,000	\$ 2,420,000	\$ -	\$ -	\$ -	\$ 4,565,000
21-03	Renewal	Currie Major Electrical and Seismic Upgrades	Renewals based upon Delcan's condition assessment and EIC inspections. Work includes electrical (replace VFDs, PLC, SCADA pack, communications), seismic upgrades and driveway repairs.	\$ 2,350,000	S	Debt	\$ 10,000	\$ 210,000	\$ 1,400,000	\$ -	\$ -	\$ -	\$ 1,610,000
21-05	Replacement	Harling PS - Complete Replacement	Based on Delcan's condition assessment and the age of this facility, replacement of Harling Point PS is required.	\$ 2,500,000	S	Debt	\$ 1,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
25-04	Renewal	Pump Station Renewal Program	Small to mid-scale upgrades to multiple pump stations based on previous condition assessments, EIC inspections and building structure improvements.	\$ 5,500,000	S	Debt	\$ 150,000	\$ 500,000	\$ 1,150,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 4,650,000
26-02	Study	Concrete Condition Assessments	Detailed concrete condition assessments for wet wells and other degraded concrete at pump stations in the core area. Project will evolve following initial assessments being completed.	\$ 650,000	S	Debt	\$ -	\$ 450,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 650,000
26-05	Renewal	Concrete Improvements	Concrete Improvement works following Condition Assessments. This is a placeholder budget that will be updated following condition assessment work and remediation plan.	\$ 5,000,000	S	Debt			\$ 500,000	\$ 2,000,000	\$ 2,000,000	\$ 500,000	\$ 5,000,000
GRAVITY SEWERS AND MANHOLES													
21-06	Renewal	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 during peak storm events.	\$ 4,000,000	S	Debt	\$ 2,400,000	\$ 2,400,000	\$ 1,040,000	\$ -	\$ -	\$ -	\$ 3,440,000
21-07	New	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 during peak storm events.	\$ 25,000,000	S	Debt	\$ 300,000	\$ 300,000	\$ 200,000	\$ 300,000	\$ -	\$ -	\$ 800,000
24-17	Renewal	Sewer Cleaning and Inspection	Core Area sewers should be cleaned and inspected on a 5-year cycle. This program will support that continued cycle.	\$ 1,025,000	S	Debt	\$ 25,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 750,000
21-11	Renewal	Manhole Repairs and Replacement	Based upon CCTV and staff inspections on manholes, there are a number of deteriorated MH's that require repair or replacement.	\$ 5,800,000	S	Debt	\$ 1,400,000	\$ 2,650,000	\$ -	\$ 300,000	\$ 1,000,000	\$ 500,000	\$ 4,450,000
23-01	Renewal	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.	\$ 500,000	S	Debt	\$ 30,000	\$ 480,000	\$ -	\$ -	\$ -	\$ -	\$ 480,000
24-11	Renewal	Western Trunk Grit Chamber Repairs	The Western Trunk (Island Highway) Grit Chamber is badly corroded and requires repairs before extensive structural damage occurs.	\$ 3,000,000	S	Debt	\$ 1,100,000	\$ 1,100,000	\$ 1,750,000	\$ -	\$ -	\$ -	\$ 2,850,000
26-01	Renewal	NWT Sewer Replacement at Alpha-Terrace	A 5m long section of old concrete pipe downstream of Boundary Transition Chamber is badly corroded and needs to be replaced with new PVC pipe.	\$ 1,000,000	S	Debt	\$ -	\$ -	\$ 100,000	\$ 900,000	\$ -	\$ -	\$ 1,000,000
PRESSURE PIPES AND APPURTENANCES													\$ -
21-13	New	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 during peak storm events.	\$ 20,800,000	S	Debt	\$ 10,000	\$ 210,000	\$ -	\$ 5,000,000	\$ 7,500,000	\$ 7,500,000	\$ 20,210,000
24-14	Renewal	Parsons Siphon/Bridge Connection Repairs	The siphon pipe support connections to the Parsons Brdige require repairs.	\$ 500,000	S	Res	\$ 30,000	\$ 480,000	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,480,000
25-03	Renewal	Harriet Siphon Inlet Chamber Upgrade	Assess concrete corrosion and replace seized control gates.	\$ 3,000,000	S	Debt	\$ 970,000	\$ 2,970,000	\$ -	\$ -	\$ -		\$ 2,970,000
27-01	Study	Forcemain and Siphon Pipe Assessment Study	There are several forcemain pipes downstream from each pump station that have never been assessed. A study is proposed to investigate various technologies to evaluate the condition of the pipes.	\$ 2,250,000	S	Debt	\$ -	\$ -	\$ 250,000	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 2,250,000
FLOW METERS													\$ -
GENERAL													\$ -
21-22	Study	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.	\$ 450,000	S	Debt	\$ 250,000	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000
21-23	Study	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.	\$ 300,000	S	Debt	\$ 140,000	\$ -	\$ -	\$ 140,000	\$ -	\$ -	\$ 140,000

Service #:	3.798C
Service Name:	Debt - Core Area Wastewater Treatment Program

PROJECT DESCRIPTION				PROJECT BUDGET & SCHEDULE									
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward from 2025	2026	2027	2028	2029	2030	5 - Year Total
Project Number	Capital Expenditure Type	Capital Project Title	Capital Project Description	Total Project Budget	Asset Class	Funding Source	Carryforward	Year 1	Year 2	Year 3	Year 4	Year 5	- Year Totalauto-populate
21-24	Renewal	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.	\$ 1,100,000	S	Debt	\$ 160,000	\$ 210,000	\$ 300,000	\$ -	\$ -	\$ -	\$ 510,000
21-25	Renewal	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.	\$ 5,500,000	S	Debt	\$ 750,000	\$ 750,000	\$ 2,000,000	\$ 750,000	\$ 400,000	\$ -	\$ 3,900,000
22-03	Renewal	Acquisition of Outstanding Right-of-Ways	Some of the infrastructure is located on privately owned land that do not have rights-of-way. A plan is being developed to acquire SRW's for all infrastructure over time. Initial spending requires a study and plan prior to acquisition.	\$ 700,000	S	Debt	\$ 130,000	\$ 130,000	\$ 200,000	\$ 200,000	\$ 100,000	\$ -	\$ 630,000
22-04	New	Microwave Radio Upgrades	To provide a high bandwidth communications backbone to the CAWWT system, a microwave communications system will be installed.	\$ 650,000	S	ERF	\$ 150,000	\$ 250,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 450,000
23-07	New	Enterprise Data Historian Management System	A data historian is required to store large amounts of data that is required for compliance reporting to regulators, operational performance reports, cost allocation, and engineering analysis.	\$ 300,000	E	Debt	\$ 50,000	\$ 50,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 300,000
28-01	Decommission	Marigold Surge Tank Deconstruction	The old Mariogld Surge Tank has been abandond for many years, is becoming a safety concern for youth, a needs to be removed.	\$ 1,660,000	S	Debt		\$ -	\$ -	\$ 160,000	\$ 1,500,000		\$ 1,660,000
24-15	Replacement	IT Core Infrastructure Replacement	Replacement of Core IT infrastructure such as servers, network switches, UPS, etc for equipment end of life	\$ 455,000	S	ERF	\$ 200,000	\$ -	\$ 100,000	\$ 200,000	\$ -	\$ -	\$ 300,000
27-03	Study	Master Plan and Future Wastewater Treatment Plant Assessment	Create a current Master Plan for the future requirements of Core Area Wastewater System.	\$ 1,140,000	S	Debt	\$ -	\$ 240,000	\$ 500,000	\$ 400,000	\$ -	\$ -	\$ 1,140,000
26-07	Study	Wastewater Strategic Planning	Create a strategic plan for wastewater within the CRD to guide decision making and long-term planning	\$ 200,000	S	Debt	\$ -	\$ 200,000					\$ 200,000.00
26-06	New	Office Densification at McLoughlin Point WWTP	Budget to further densify and provide additional work stations at McLoughlin Point WWTP.	\$ 175,000	S	Res	\$ -	\$ 175,000	\$ -	\$ -	\$ -	\$ -	\$ 175,000.00
28-03	New	Enterprise Asset Management System	Development of EAM system, including software and process implementation, for services to maintain assets and report on asset performance.	\$ 4,600,000	E	Debt	\$ -	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000.00	\$ -	\$ 2,000,000.00
ANNUAL PROVISIONAL													\$ -
21-26	Replacement	Annual Provisional Emergency Repairs	Unforeseen and unplanned emergency repairs can occur which require immediate attention.	\$ 7,500,000	S	Res		\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 7,500,000
23-06	Replacement	Annual Provisional Equipment Replacement	Replacement of at end of service life, including valves, variable frequency drives, capacitors.	\$ 1,500,000	S	ERF		\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,500,000
23-08	New	Process & Mechanical Upgrades	Upgrades to the Core Area Wastewater Treatment and Conveyance infrastructure in order to optimize operations	\$ 4,250,000	S	Debt		\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 850,000	\$ 4,250,000
23-09	New	Safety & Security Upgrades	Upgrades to the Core Area Wastewater Treatment and Conveyance infrastructure to improve worker health and safety	\$ 2,400,000	S	Debt		\$ 600,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 2,200,000
													\$ -
OUTFALLS / OVERFLOWS													\$ -
24-08	Renewal	Clover Point Outfall Retrofit	The existing Clover outfall is no longer operated on a regular basis since wastewater is now conveyed to McLoughlin WWTP, but it must be ready for operation during peak storm events. As a result, the existing outfall will need to be assessed for best operational and maintenance practices based on limited use.	\$ 500,000	S	Debt	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000
25-02	Renewal	Macaulay Point Outfall Retrofit	A section of coating on 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 prepare a plan to maintain the deep outfall based on limited use.	\$ 750,000	S	Debt	\$ -	\$ -	\$ -	\$ 750,000	\$ -	\$ -	\$ 750,000
27-02	Renewal	Broom Overflow Pipe Rehabilitation	Overflow pipe is cracked and severed in multiple locations and H2S gases and odours are present.	\$ 575,000	S	Debt		\$ -	\$ 75,000	\$ 500,000	\$ -	\$ -	\$ 575,000
RESIDUAL SOLIDS													\$ -
26-08	New	Biosolids Advanced Thermal Plant	Biosolids Advanced Thermal Plant. Integration of technology at the Residuals Treatment Facility to process biosolids into biochar. The project has been directed by the Board and a preferred proponent has been identified. The project is anticipated to reduce operating expenses following completion in 2030.	\$ 10,000,000	S	Cap	\$600,000	\$600,000					\$600,000
26-08	New	Biosolids Advanced Thermal Plant	Biosolids Advanced Thermal Plant. Integration of technology at the Residuals Treatment Facility to process biosolids into biochar. The project has been directed by the Board and a preferred proponent has been identified. The project is anticipated to reduce operating expenses following completion in 2030.		S	Debt			\$ 1,000,000	\$ 7,250,000	\$ -	\$ 750,000	\$9,000,000
DCC PROJECTS													\$ -
													\$ -
			Grand Total	\$ 136,825,000			\$ 11,475,000	\$ 22,585,000	\$ 17,210,000	\$ 25,675,000	\$ 18,740,000	\$ 15,840,000	\$ 100,050,000

Service:

3.798C

Debt - Core Area Wastewater Treatment Program

Project Number

25-01

Capital Project Title

Secondary Odour Collection System Upgrade - pre-filter

Capital Project Description

Replacement of existing pre-filter to further optimize odour treatment and extend the life of carbon treatment.

Project Rationale

This work will progress the intent to further optimize odour control for potential benefits to public impacts and life cycle costs.

Project Number

26-03

Capital Project Title

Electric Vehicle Charging

Capital Project Description

Electrical and civil work for electric vehicle charger infrastructure.

Project Rationale

Renewals based upon Delcan's 2013 condition assessments and revised inspections. Work includes electrical (replace PLC, SCADA pack, communications), and building upgrades.

Project Number

26-04

Capital Project Title

McLoughlin Discharge Energy Reclamation

Capital Project Description

Feasibility study to look at the cost benefit of pursuing this.

Project Rationale

ADD RATIONALE

Project Number

21-01

Capital Project Title

Lang Cove Electrical and Building Upgrades

Capital Project Description

Renewals based upon Delcan's condition assessment and EIC inspections. Work includes electrical (replace PLC, SCADA pack, communications), and building upgrades.

Project Rationale

Renewals based upon Delcan's 2013 condition assessments and revised inspections. Work includes electrical (replace PLC, SCADA pack, communications), and building upgrades.

Service: 3.798C Debt - Core Area Wastewater Treatment Program

Project Number

21-02

Capital Project Title

Marigold Electrical and Building Upgrades

Capital Project Description

Renewals are based upon Delcan's condition assessment and EIC inspections. Work includes electrical (replace MCC, PLC, VFD's, 480v to 600v upgrade, etc), and building upgrades.

Project Rationale

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. Tendering was conducted in 2023, combined with Currie Major PS (21-03) works but the Marigold portion of the scope far exceeded available budget. Re-tendering will be conducted in 2024 with additional budget added.

Project Number

21-03

Capital Project Title

Currie Major Electrical and Seismic Upgrades

Capital Project Description

Renewals based upon Delcan's condition assessment and EIC inspections. Work includes electrical (replace VFDs, PLC, SCADA pack, communications), seismic upgrades and driveway repairs.

Project Rationale

Renewals based upon Delcan's 2013 condition assessments and revised inspections. Work includes electrical (replace VFDs, PLC, SCADA pack, communications), seismic upgrades and driveway repairs. A tender was conducted in 2023, combined with Marigold PS (21-02) works but the Marigold component came in well over budget. Re-tendering will be conducted in 2024 with additional budget added for Marigold.

Project Number

21-05

Capital Project Title

Harling PS - Complete Replacement

Capital Project Description

Based on Delcan's condition assessment and the age of this facility, replacement of Harling Point PS is required.

Project Rationale

Replacement of Harling Point PS is based on Delcan's 2013 condition assessment. The preliminary design was completed in 2018. CRD has progressed a scope of work for a Consultant to provide detailed design and construction support services. Detailed design scope was awarded and initiated in 2024 with Construction expected to commence in 2025.

Project Number

25-04

Capital Project Title

Pump Station Renewal Program

Capital Project Description

Small to mid-scale upgrades to multiple pump stations based on previous condition assessments, EIC inspections and building structure improvements.

Project Rationale

Electrical, Mechanical and other ancillary upgrades are required at multiple facilities. Due to similarities in work, there is benefit in managing this work within a single program budget. Pump stations requiring this work include Trent, Hood, Currie Minor, Humber, Rutland and Penrhyn.

Service:

3.798C

Debt - Core Area Wastewater Treatment Program

Project Number 26-02

Capital Project Title Concrete Condition Assessments

Capital Project Description Detailed concrete condition assessments for wet wells and other degraded concrete at pump stations in the core area. Project will evolve following initial assessments being completed.

Project Rationale It has been identified that the condition of the concrete in many of the wet wells and pump stations throughout the Core Areas had degraded, and as a result, condition assessment studies need to take place to quantify the magnitude of damage. Project will evolve following initial assessments being completed.

Project Number 26-05

Capital Project Title Concrete Improvements

Capital Project Description Concrete Improvement works following Condition Assessments. This is a placeholder budget that will be updated following condition assessment work and remediation plan.

Project Rationale ADD RATIONALE

Project Number 21-06

Capital Project Title Shoreline Trunk Sewer Upgrade

Capital Project Description 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 during peak storm events.

Project Rationale 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.

Service: 3.798C Debt - Core Area Wastewater Treatment Program

Project Number	21-07	Capital Project Title	Western Trunk Sewer Twinning	Capital Project Description	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 during peak storm events.
Project Rationale	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. For 2025, approximately \$400k will be allocated to twin a section of this main at the new Galloping Goose pedestrian overpass in partnership with the City of Colwood.				

Project Number	24-17	Capital Project Title	Sewer Cleaning and Inspection	Capital Project Description	Core Area sewers should be cleaned and inspected on a 5-year cycle. This program will support that continued cycle.
Project Rationale	Core Area sewers should be cleaned and inspected on a 5-year cycle. This program will support that continued cycle.				

Project Number	21-11	Capital Project Title	Manhole Repairs and Replacement	Capital Project Description	Based upon CCTV and staff inspections on manholes, there are a number of deteriorated MH's that require repair or replacement.
Project Rationale	Based upon CCTV and staff inspections on manholes, high priority repairs and replacement of deteriorated MH's.				

Project Number	23-01	Capital Project Title	Cecelia Ravine Pipe Protection	Capital Project Description	Based on geotechnical review, a section of the exposed NWT in Cecelia Ravine should be covered & protected from falling rocks upslope from the pipe.
Project Rationale	Based on geotechnical review, a section of the exposed NWT in Cecelia Ravine should be covered & protected from falling rocks upslope from the pipe. This project is currently being delayed for future coordination with works that CRD Parks is expected to be doing on the Galloping Goose Trail.				

Service:

3.798C

Debt - Core Area Wastewater Treatment Program

Project Number

24-11

Capital Project Title

Western Trunk Grit Chamber Repairs

Capital Project Description

The Western Trunk (Island Highway) Grit Chamber is badly corroded and requires repairs before extensive structural damage occurs.

Project Rationale Repairs to Western Trunk Grit Chamber at Island Highway. Chamber is badly corroded and requires repair.

Project Number

26-01

Capital Project Title

NWT Sewer Replacement at Alpha-Terrace

Capital Project Description

A 5m long section of old concrete pipe downstream of Boundary Transition Chamber is badly corroded and needs to be replaced with new PVC pipe.

Project Rationale Pipe segment replacement required prior to failure.

Project Number

21-13

Capital Project Title

Craigflower Forcemain Twinning

Capital Project Description

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 during peak storm events.

Project Rationale 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.

Project Number

24-14

Capital Project Title

Parsons Siphon/Bridge Connection Repairs

Capital Project Description

The siphon pipe support connections to the Parsons Bridge require repairs.

Project Rationale The siphon pipe support connections to the Parsons Bridge require repairs.

Service: 3.798C Debt - Core Area Wastewater Treatment Program

Project Number	25-03	Capital Project Title	Harriet Siphon Inlet Chamber Upgrade	Capital Project Description	Assess concrete corrosion and replace seized control gates.
Project Rationale	The concrete chamber is badly corroded and the control gates are seized on this chamber and they need to be replaced so that the individual siphons can be isolated or activated.				

Project Number	27-01	Capital Project Title	Forcemain and Siphon Pipe Assessment Study	Capital Project Description	There are several forcemain pipes downstream from each pump station that have never been assessed. A study is proposed to investigate various technologies to evaluate the condition of the pipes.
Project Rationale	Repairs to Western Trunk Grit Chamber at Island Highway. Chamber is badly corroded and requires repair.				

Project Number	21-22	Capital Project Title	Asset Management Plan Update	Capital Project Description	Previous condition assessment studies will be updated and incorporated into a long-term asset management plan to meet expected level-of-service requirements.
Project Rationale	Previous condition assessment studies will be updated and incorporated into a long-term asset management plan to meet expected level-of-service requirements.				

Project Number	21-23	Capital Project Title	DCC Program Development	Capital Project Description	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.
Project Rationale	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.				

Service:

3.798C

Debt - Core Area Wastewater Treatment Program

Project Number

21-24

Capital Project Title

Record Drawing and Wastewater Agreement Updates

Capital Project Description

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.

Project Rationale 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.

Project Number

21-25

Capital Project Title

SCADA and Radio Assessment

Capital Project Description

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.

Project Rationale 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.

Project Number

22-03

Capital Project Title

Acquisition of Outstanding Right-of-Ways

Capital Project Description

Some of the infrastructure is located on privately owned land that do not have rights-of-way. A plan is being developed to acquire SRW's for all infrastructure over time. Initial spending requires a study and plan prior to acquisition.

Project Rationale 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.

Service: 3.798C Debt - Core Area Wastewater Treatment Program

Project Number	22-04	Capital Project Title	Microwave Radio Upgrades	Capital Project Description	To provide a high bandwidth communications backbone to the CAWWT system, a microwave communications system will be installed.
Project Rationale	Multiple facilities throughout the CRD RWS system require additional bandwidth to allow for proper monitoring and control. This project will enable the initial design and preliminary installation of a high bandwidth microwave backbone that will be able to be leveraged by multiple CRD operational groups. The installation of this backbone will be coordinated with the other IWS service areas.				

Project Number	23-07	Capital Project Title	Enterprise Data Historian Management System	Capital Project Description	A data historian is required to store large amounts of data that is required for compliance reporting to regulators, operational performance reports, cost allocation, and engineering analysis.
Project Rationale	A data historian is required to store large amounts of data that is required for compliance reporting to regulators, operational performance reports, cost allocation, and engineering analysis.				

Project Number	28-01	Capital Project Title	Marigold Surge Tank Deconstruction	Capital Project Description	The old Mariogld Surge Tank has been abandond for many years, is becoming a safety concern for youth, a needs to be removed.
Project Rationale	Future assessment and decommissioning.				

Project Number	24-15	Capital Project Title	IT Core Infrastructure Replacement	Capital Project Description	Replacement of Core IT infrastructure such as servers, network switches, UPS, etc for equipment end of life
Project Rationale	CAWW portion of Core IT Infrastructure. Program to be managed by CRD IT.				

Service: 3.798C Debt - Core Area Wastewater Treatment Program

Project Number	27-03	Capital Project Title	Master Plan and Future Wastewater Treatment Plant Assessment	Capital Project Description	Create a current Master Plan for the future requirements of Core Area Wastewater System.
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Project Rationale Capacity needs, technology review, siting requirements, conceptual layout, Environmental Impact Assessment and other planning efforts.

Project Number	26-06	Capital Project Title	Office Densification at McLoughlin Point WWTP	Capital Project Description	Budget to further densify and provide additional work stations at McLoughlin Point WWTP.
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Project Rationale ADD RATIONALE

Project Number	28-03	Capital Project Title	Enterprise Asset Management System	Capital Project Description	Development of EAM system, including software and process implementation, for services to maintain assets and report on asset performance.
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Project Rationale To advance action 3.8 in Corporate Asset Management Strategy to implement an EAM system and approved as part of the 2025 IBC 13b.2-1 for Enterprise Asset Management System

Project Number	21-26	Capital Project Title	Annual Provisional Emergency Repairs	Capital Project Description	Unforeseen and unplanned emergency repairs can occur which require immediate attention.
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Project Rationale Funds are required for unforeseen and unplanned emergency repairs can occur which require immediate attention.

Project Number	23-06	Capital Project Title	Annual Provisional Equipment Replacement	Capital Project Description	Replacement of at end of service life, including valves, variable frequency drives, capacitors.
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Project Rationale Replacement of equipment at end of service life, including valves, variable frequency drives, capacitors.

Service: 3.798C Debt - Core Area Wastewater Treatment Program

Project Number	23-08	Capital Project Title	Process & Mechanical Upgrades	Capital Project Description	Upgrades to the Core Area Wastewater Treatment and Conveyance infrastructure in order to optimize operations
Project Rationale	Annual Provisional account for upgrades to the Core Area Wastewater Treatment and Conveyance infrastructure in order to optimize operations in order to improve compliance with regulatory requirements, improve equipment and process efficiency, and reduce risk of pre-mature equipment failure.				

Project Number	23-09	Capital Project Title	Safety & Security Upgrades	Capital Project Description	Upgrades to the Core Area Wastewater Treatment and Conveyance infrastructure to improve worker health and safety
Project Rationale	Annual Provisional Account for upgrades to the Core Area Wastewater Treatment and Conveyance infrastructure to improve worker health and safety. This includes constructing safe access platforms to complete maintenance at equipment that present a fall from heights risk and other items that are flagged as health and safety concerns.				

Project Number	24-08	Capital Project Title	Clover Point Outfall Retrofit	Capital Project Description	The existing Clover outfall is no longer operated on a regular basis since wastewater is now conveyed to McLoughlin WWTP, but it must be ready for operation during peak storm events. As a result, the existing outfall will need to be assessed for best operational and maintenance practices based on limited use.
Project Rationale	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.				

Service:

3.798C

Debt - Core Area Wastewater Treatment Program

Project Number	25-02	Capital Project Title	Macaulay Point Outfall Retrofit	Capital Project Description	A section of coating on 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 prepare a plan to maintain the deep outfall based on limited use.
	Project Rationale A section of coating the emergency short outfall has failed, the pipe is corroding, and the long outfall needs to be assessed/modified to suit reduced usage. This project is to repair the coating, provide shoreline protection, and modify the deep outfall.				

Project Number	27-02	Capital Project Title	Broom Overflow Pipe Rehabilitation	Capital Project Description	Overflow pipe is cracked and severed in multiple locations and H2S gases and odours are present.
	Project Rationale 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.				

Project Number	26-08	Capital Project Title	Biosolids Advanced Thermal Plant	Capital Project Description	Biosolids Advanced Thermal Plant. Integration of technology at the Residuals Treatment Facility to process biosolids into biochar. The project has been directed by the Board and a preferred proponent has been
	Project Rationale Under direction from the board, the CRD is pursuing a thermal pilot demonstration plant to beneficially utilize biosolids generated from the Residual Treatment Facility (RTF). Early phases of the project include staff time and consultants required to conduct preliminary design, permitting and detail design to create a tender package. Subsequent phase will involve construction of a thermal pilot demonstration plant.				

Project Number	26-07	Capital Project Title	Wastewater Strategic Planning	Capital Project Description	Create a strategic plan for wastewater within the CRD to guide decision making and long-term planning
	Project Rationale High level framework of strategic priorities and commitments for liquid waste within the CRD. The strategic plan will guide decision making and long term planning required for executing the CRD Wastewater Master Plan.				

3.798C Debt - Core Area Wastewater Capital Asset and Reserve Summary
Summary Schedule
2025 - 2029 Financial Plan

Reserve Schedule Summary

Core Area Wastewater

The Wastewater Treatment Project (WTP) provides 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 WTP is built to meet the provincial and federal regulations for treatment at December 31, 2020. The Project consists of three main elements: McLoughlin Point Wastewater Treatment Plant, Residuals Treatment Facility, and the Conveyance System

Reserve/Fund Summary

	Estimate	Budget				
	2025	2026	2027	2028	2029	2030
Capital Reserve Fund	18,521,494	19,417,613	20,638,732	22,509,851	25,780,970	35,812,339
Capital Reserve Fund-Western Community	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Debt Reserve Fund	25,370,911	31,621,998	38,132,418	34,626,398	179,492	179,492
Total	45,892,405	53,039,611	60,771,150	59,136,249	27,960,462	37,991,831

See attached reserve schedules for projected annual cash flows.

Capital Reserve Fund Schedule Core Area Wastewater

Bylaw 4378 - The capital reserve fund was established to provide funding for capital expenditures in respect of capital projects including but not limited to, land, machinery or equipment necessary for the replacement, extension or renewal of existing capital works and related debt servicing payments

Capital Reserve Schedule

Capital Reserve Fund

Fund: 1092

Fund Centre: 102227

	Estimate	Budget				
	2025	2026	2027	2028	2029	2030
Beginning Balance	18,780,375	18,521,494	19,417,613	20,638,732	22,509,851	25,780,970
Planned Purchase (Based on Capital Plan)	(4,180,000)	(2,225,000)	(1,900,000)	(1,500,000)	(1,500,000)	(3,500,000)
Transfer IN (from Ops Budget)	2,121,119	3,121,119	3,121,119	3,371,119	4,771,119	13,531,369
Transfer IN (North East Trunk CRF)						
Surplus/Deficit	1,000,000					
Interest Income*	800,000					
Ending Balance \$	18,521,494	19,417,613	20,638,732	22,509,851	25,780,970	35,812,339

Assumptions/Background:

The funding strategy for the capital reserve fund is based upon the 25 year replacement plan as by Stantec during the construction of the Core Area Wastewater Treatment Project

* The planned purchase amount may differ from the five-year capital plan summary due to carryover from the previous year.

* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.

Bylaw 4378 - The capital reserve fund was established to serve both the Core Area and Western Communities. The reserve schedule below is committed to advancing studies for a wastewater treatment proposal in Colwood.

Colwood Treatment Project -Capital Reserve Schedule

Capital Reserve Fund

Fund: 1092

Fund Centre: 102277

	Estimate	Budget				
	2025	2026	2027	2028	2029	2030
Beginning Balance	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Interest Income*						
Ending Balance \$	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000

Assumptions/Background:

Based on the Colwood news release, on December 15, 2016, CAWTP project board approved the transfer of \$2 millions once the project is closed. The funds are to be set aside in a separate reserve fund center.

* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included. which is not included.

Debt Reserve Fund Schedule Core Area Wastewater

Bylaw 4377 - The debt reserve fund was established for the specified purpose of funding future debt servicing payments or debt retirements. Monies in the debt repayment reserve will fund debt servicing and early repayment of debts issued to fund the Core Area Wastewater Treatment Project

Debt Reserve Schedule

Debt Reserve Fund

Fund: 1093

Fund Center: 102228

	Estimate	Budget				
	2025	2026	2027	2028	2029	2030
Beginning Balance	18,702,751	25,370,911	31,621,998	38,132,418	34,626,398	179,492
Debt Payment		-	-	(10,283,553)	(41,134,212)	
Transfer from Ops Budget	5,418,160	5,489,960	5,561,760	5,633,560	5,994,778	-
Surplus/Deficit	500,000					
Interest Income*	750,000	761,127	948,660	1,143,973	692,528	
Ending Balance \$	25,370,911	31,621,998	38,132,418	34,626,398	179,492	179,492

Assumptions/Background:

The funding strategy for the debt reserve fund is based upon the project's financing plan as approved during the construction of the Core Area Wastewater Treatment Project. Repayment anticipated by 2031.

* Interest should be included in determining the estimated ending balance for the current year. Interest in planning years nets against inflation which is not included.