



### SAANICH PENINSULA WASTEWATER COMMISSION

Notice of Meeting on **Thursday, October 15, 2020 at 9 a.m.** Meeting Room #6 Greenglade Community Centre, 2151 Lannon Way, Sidney BC

### Meeting Room #0 Greenglade Community Centre, 2131 Lamion Way, Sidney DC

### For members of the public who wish to listen to the meeting via telephone please call <u>1-833-353-8610</u> and enter the <u>Participant Code 1911461 followed by #.</u> You will not be heard in the meeting room but will be able to listen to the proceedings.

Windsor

P. Wainwright (Chair)	D. Kelbert	G. Orr	R. '
R. Barnhart (Vice Chair)	Z. King	M. Weisenberger	
M. Doehnel	C. McNeil-Smith	M. Williams	

### AGENDA

### 1. TERRITORIAL ACKNOWLEDGEMENT

### 2. APPROVAL OF AGENDA

Recommendation: That the minutes of the July 16, 2020 meeting be adopted.

### 4. CHAIR'S REMARKS

### 5. PRESENTATIONS/DELEGATIONS

Presentations and delegations requests can be made online <u>here</u>, a printable form is also available. Requests must be received no later than 4:30 p.m. two calendar days prior to the meeting.

### 6. COMMISSION BUSINESS

**Recommendation:** The Saanich Peninsula Wastewater Commission recommends to the Capital Regional District Board: That Appendix A Community Need Summary – Wastewater be approved as presented and advanced to the October 28, 2020 Provisional budget review process.

### 6.2. Saanich Peninsula Wastewater Service - 2021 Operating and Capital Budget...17

**Recommendation:** The Saanich Peninsula Wastewater Commission recommends that the CRD Board:

- 1. Approve the 2021 Saanich Peninsula trunk sewers, treatment and disposal operating and capital budget and the 2021 Saanich Peninsula Liquid Waste Management Plan (LWMP) program budgets including the LWMP administration budget, the Saanich Peninsula Stormwater Quality Management Program budget and the Saanich Peninsula Stormwater Source Control budget; and
- 2. Balance the 2020 actual revenue and expense on the transfer to capital reserve fund.

To ensure a quorum, advise Denise at 250.360.3087 if you or your alternate cannot attend.

#### 

**Recommendation:** That the Saanich Peninsula Wastewater Commission recommends to the Capital Regional District Board:

- 1. That Bylaw No. 4372 cited as "Saanich Peninsula Water and Wastewater Development Cost Charges Transfer to Capital Reserve Bylaw No. 1, 2020" be introduced and read a first, second, and a third time.
- 2. That Bylaw No. 4372 be referred to the Inspector of Municipalities for review as required by the Local Government Act and Community Charter.

### 6.4. Reay Creek Environmental Incident (Verbal Report)

### 7. SAANICH PENINSULA WASTEWATER COMMISSION APPOINTMENT LETTERS EXPIRING TERMS – DECEMBER 31, 2020

- 8. NEW BUSINESS
- 9. ADJOURNMENT

Next Meeting: December 17, 2020



### MINUTES OF A MEETING OF THE SAANICH PENINSULA WASTEWATER COMMISSION Held Thursday, July 16, 2020 in Meeting Room #6 at Greenglade Community Centre, 2151 Lannon Way, Sidney BC

# PRESENT: Commissioners: P. Wainwright (Chair); R. Barnhart (Vice Chair); M. Doehnel; B. Fallot for C. McNeil-Smith; G. Orr; M. Weisenberger; M. Williams; By WebEx: D. Kelbert; Z. King; R. Windsor

**Staff:** T. Robbins, General Manager, Integrated Water Services; L. Hutcheson, General Manager, Parks & Environmental Services; P. Kickham, Manager, Environmental Regulations, Environmental Protection; M. Cowley, Manager Wastewater Engineering & Planning; D. Dionne (recorder) **By WebEx:** E. Elder, Senior Financial Advisor

The meeting was called to order at 9:06 a.m.

Chair Wainwright provided a territorial acknowledgement.

### 1. APPROVAL OF AGENDA

**MOVED** by Commissioner Weisenberger, **SECONDED** by Commissioner Orr, That the July 16, 2020 Agenda be approved as circulated.

### CARRIED

3

### 2. ADOPTION OF MINUTES

**MOVED** by Commissioner Barnhart, **SECONDED** by Commissioner Weisenberger, That the minutes of the June 18, 2020 meeting be adopted.

### **CARRIED**

### 3. APPROVAL OF RESOLUTION

- 1. That this resolution applies to the Saanich Peninsula Wastewater Commission for the meetings being held between July1, 2020 and December 31, 2020.
- 2. That the attendance of the public at the place of the meeting cannot be accommodated in accordance with the applicable requirements or recommendations under the *Public Health Act*, despite the best efforts of the Saanich Peninsula Wastewater Commission, because:
  - a. The available meeting facilities cannot accommodate more than (8) people in person, including members of the Saanich Peninsula Wastewater Commission and staff, and
  - b. There are no other facilities presently available that will allow physical attendance of the Saanich Peninsula Wastewater Commission and the public in sufficient numbers; and
- 3. That the Saanich Peninsula Wastewater Commission is ensuring openness, transparency, accessibility and accountability in respect of the open meeting by the following means:
  - a. By allowing the public to hear or participate via teleconference or electronic meeting software,
  - b. By providing notice of the meeting in newspaper or local notice Board, including the methods for providing written or electronic submissions,

IWSS-297445977-6220

- c. By making the meeting agenda, as well as the other relevant documents, available on the CRD website, and directing interested persons to the website by means of the notices provided in respect of the meeting,
- d. By strongly encouraging the provision of, and subsequently receiving and distributing to members, written correspondence from the public in advance of the meeting, and
- e. By making the minutes of the meeting available on the CRD website following the meeting.

**MOVED** by Commissioner Weisenberger, **SECONDED** by Commissioner Williams, That the Saanich Peninsula Wastewater Commission adopt the resolution as presented.

CARRIED

### 4. CHAIR'S REMARKS

Chair Wainwright made no remarks.

### 5. PRESENTATIONS/DELEGATIONS

There were none.

### 6. COMMISSION BUSINESS

6.1. EEP 20-32 Management of Saanich Peninsula Wastewater Residual Solids

P. Kickham summarized the report as presented.

Staff responded to questions from the Commission and the following additional information was presented:

- Concerns with pharmaceuticals and personal care products
  - The Bisolids Beneficial Reuse Strategy involves the majority of the biosolids being trucked to the lower mainland and incinerated in a cement kiln. A small amount would be used at Hartland Landfill as engineered bio-cover to mitigate greenhouse gas emissions.
  - Bioaccumulation of Pharmaceuticals personal care products and pharmaceuticals are generally not Bioaccumulation substances.
  - In terms of the destruction of those products in the combustion process they are components of the biosolids that will combust at relatively low temperatures.
- The ash from the cement kilns will most likely be used in cement factories who will incorporate it into their cement production.
- Long-term options for the biosolids under the Provincial Municipal Waste Regulation, there are a number of beneficial reuse options available to municipalities handling residual solids. One is land application, which Capital Regional District (CRD) is not doing, other options include, co-combustion and gasification.
- The CRD is working on releasing a Requests for Expressions of Interests (RFEOI) for options analysis and pilot testing of the full suite of potential beneficial reuse options under the Municipal Waste Regulation.
- The RFEOI will be structured to review scaleable volumes to get a sense of the capacity required to beneficially utilize all of the region's residuals, or simply just the

Core Area's. Staff can then work with those proponents to pursue different options that will include the Saanich Peninsula residuals component.

- The Province may direct SPWWC to use the Residuals Treatment Facility (RTF).
- Due to the high dollar value of the grant funding contributed by the Province to construct the RTF, the Province may not be agreeable to grant funding for a different sub-regional solution.
- RTF Capacity
  - The RTF was designed with enough capacity to serve as a merchant facility to receive solids from Saanich Peninsula Wastewater Treatment Plant (SPWWTP) and potentially Sooke and the wastewater treatment plants on the Southern Gulf Islands.
  - The capacity is designed to accept all the Core Area residuals for 20 years. For the interim period there is surplus capacity based on the residuals received from McLoughlin Treatment Plant. It will be determined over the course of time, what the actual capacity is compared to the projections.
  - Over and above the 20-year capacity, there is opportunity for an expansion of the facility to provide a further 25 years of capacity. Bringing the capacity up to 2065.
  - Beyond 2045, it has been projected that a second wastewater treatment facility would need to be built for the Core Area, likely on the Westshore.
- Odour control
  - Odour threshold requirements are built into the contract, with an obligation to control odours regardless of where those odours may be generated at facility.
  - The area where the trucked solids are disposed of is under vacuum and will be treated.
- Use of Pyrolysis Biosolids feedstock can be highly variable depending on which municipality you're in. A review has shown that large facilities have required very expensive retrofits in the first two or three years of operation. Therefore staff are proposing a small scale pilot to evaluate these options.

MOVED by Commissioner Orr, SECONDED by Commissioner Weisenberger,

The motion was amended to include "after receiving and analyzing Requests for Expressions of Interests for options" at the end of the paragraph.

That the Saanich Peninsula Wastewater Commission direct staff to prepare the 2021 service operating budget with the intent to haul residual solids to the Hartland Residual Solids Treatment Facility for processing and beneficial reuse, and direct staff to evaluate options for sub-regional processing and disposal/beneficial reuse of the Saanich Peninsula Wastewater Treatment Plant residual solids after receiving and analyzing Requests for Expressions of Interests for options.

Discussion ensued regarding:

- Options and literature research for addressing concerns with pharmaceuticals, personal care products and micro plastics in the residual solids
- Other processing technologies

And that staff report back with best information to address the concerns of pharmaceuticals, personal care products and micro plastics.

CARRIED

### Opposed: Barnhart, Wiesenberger, Windsor

That the Saanich Peninsula Wastewater Commission direct staff:

- 1. to prepare its 2021 budget with the intent to haul residual solids to the Hartland Residual Solids Treatment Facility for processing and beneficial reuse;
- 2. to evaluate options for sub-regional processing and disposal/beneficial reuse of the Saanich Peninsula Wastewater Treatment Plant residual solids after receiving and analyzing Requests for Expressions of Interests for options; and
- 3. report back with best information to address the concerns of pharmaceuticals, personal care products and micro plastics.

CARRIED Opposed: Windsor

### 7. NEW BUSINESS

Staff responded to a request from the Commission regarding an opportunity to tour the McLoughlin Wastewater Treatment Plant advising that the request would be brought to the Board Chair for his review.

Staff advised that the next meeting is planned for October, however if something emerges a September meeting is possible.

### 8. ADJOURNMENT

**MOVED** by Commissioner Weisenberger, **SECONDED** by Commissioner Doehnel, That the Saanich Peninsula Wastewater Commission meeting be adjourned at 10:14 a.m.

<u>CARRIED</u>

CHAIR

SECRETARY

#### **SPWWC 20-03**

7



### REPORT TO SAANICH PENINSULA WASTEWATER COMMISSION MEETING OF THURSDAY, OCTOBER 15, 2020

### SUBJECT 2019-2022 Wastewater Service Planning

### **ISSUE SUMMARY**

To provide the Saanich Peninsula Wastewater Commission with an overview of relevant initiatives undertaken by Integrated Water Services department in 2020 and planned for 2021 to deliver on approved Board Priorities and the Corporate Plan.

### BACKGROUND

The CRD Board completed its strategic planning early in 2019 and approved the CRD Board Strategic Priorities 2019-2022.

The four priorities are:

- 1. Community Wellbeing Transportation & Housing;
- 2. Climate Action & Environmental Stewardship;
- 3. First Nations Reconciliation; and
- 4. Advocacy, Governance & Accountability.

The priorities were confirmed at the annual check-in on May 13, 2020.

The 2019-2022 CRD Corporate Plan is aligned to the Board direction. It highlights the initiatives the CRD needs to deliver over the Board's four-year term to address the region's most important needs. The Corporate Plan identified initiatives under the Wastewater initiative, that fall under the various CRD wastewater collection, conveyance and treatment services.

Appendix A *Community Need Summary - Wastewater 2021* is a summary of the planned activities for 2021. It contains details about core service levels, new initiatives proposed and performance metrics.

Appendix B *Wastewater - Initiatives Progress Report* provides insights into what has been delivered through the two delivery initiatives approved last year, for delivery in 2020.

The Service Planning process gathered information necessary to assemble a provisional budget for Committee/Commission and Board review. The purpose of this report is to explain how the adjustments to the work program connects to the Board Priorities, Corporate Plan and provisional budget.

### **ALTERNATIVES**

### Alternative 1

The Saanich Peninsula Wastewater Commission recommends to the Capital Regional District Board:

That Appendix A Community Need Summary - Wastewater be approved as presented and advanced to the October 28, 2020 provisional budget review process.

### Alternative 2

The Saanich Peninsula Wastewater Commission recommends to the Capital Regional District Board:

That Appendix A Community Need Summary - Wastewater be approved as amended and advanced to the October 28, 2020 provisional budget review process.

### **IMPLICATIONS**

### Financial Implications

Initiatives identified in the Corporate Plan (including Board Priorities) cannot be undertaken without resourcing. The Board determines resourcing through its annual review and approval of financial plans. To support the Board's decision-making, staff, through the service planning process, provide recommendations on funding, timing and service levels.

During this years' service planning process, staff have been mindful of the fiscal challenges facing the region in the months ahead. To that end, budget increases or other impacts have been mitigated, where possible. However, for the Saanich Peninsula Wastewater Service, the annual budget has been increased to address residuals treatment and the beneficial use of biosolids. An on-going budget allowance has also been included to fund the development and implementation of the inflow and infiltration reduction program for the Saanich Peninsula.

### Service Delivery Implications

The Community Need Summary provides an overview of all work that needs to be undertaken in order to meet our regulatory requirements, satisfy Board direction and meet the needs of the communities we serve.

### Alignment with Board & Corporate Priorities

Staff have identified the initiatives that will have budget and/or staffing implications for 2021 (Table 1 below); the Saanich Peninsula Liquid Waste Management Plan initiative directly relates to the service and is described further below.

3

	able 1: Community Needs Summary - Wastewater, Delivery Initiatives				
#	Initiative	Description	Year(s)	FTE impacts in 2021	Budget Impacts in 2021
8a-1.1	Wastewater Planning	Advance management of liquid waste management through a review and update of the core area liquid waste management plan	2021	0	Included in Provisional Budget
8a-1.1	Wastewater Management	Advance strategy for construction/maintenance of facilities	2021	4 Ongoing	Included in Provisional Budget
8a-1.2	Facilities Management Centralization Strategy	Facility operations and maintenance support for CAWTP facilities.	2021	1 Ongoing	Included in Provisional Budget
8a-1.3	Saanich Peninsula Liquid Waste Management Plan	Development of a detailed inflow and infiltration reduction program for the Peninsula	2021	0	Included in Provisional Budget

Table 1: Community Needs Summary - Wastewater, Delivery Initiatives
---

Blue highlighted areas are initiatives that directly address a Board Priority.

### **Delivery Initiatives**

### 8a-1.1 Wastewater Planning

The recent changes to Core Area wastewater management need to be incorporated into an updated Liquid Waste Management Plan. The Plan was recently consolidated and audited and the next steps are to update the Plan (individual chapters) and revise the document in consultation with the regulator. This will also include some public consultation.

### 8a-1.1 Wastewater Management and 8a-1.2 Facilities Management Centralization Strategy

The CRD is responsible for implementing wastewater treatment in the Core Area. Construction of new and upgraded wastewater facilities will be completed in Q3 and Q4 of 2020. The new facilities will help protect the marine receiving environment by providing tertiary treatment for wastewater from the core area municipalities (Victoria, Esquimalt, Saanich, Oak Bay, View Royal, Langford and Colwood) and the Esquimalt and Songhees First Nations. This is the final stage of a large scale multi-year, capital project led by the CRD with funding assistance from the federal and provincial governments.

The operation of the new and upgraded facilities requires additional staff to ensure effective operations and maintenance of facilities going forward. To this end and building on new staffing

positions filled in 2019/2020, initiative 8a-1.1 seeks to create four ongoing positions in the Infrastructure Operations division and initiative 8a-1.2 seeks to create one additional position in the Facilities Management & Engineering Services division. These positions are critical to ensure adequate maintenance support for building systems, including safety inspections, and other operational duties. The positions will be filled between late 2020 and end of 2021.

### 8a-1.3 - Saanich Peninsula Liquid Waste Management Plan

A recent audit of the Saanich Peninsula Liquid Waste Management Plan has identified unfulfilled commitments to evaluate and manage inflow and infiltration (I&I) to the sanitary sewer. The Saanich Peninsula Wastewater system has not had any documented wet weather related overflows but inflow and infiltration increases as infrastructure ages so it would be prudent to manage this risk proactively.

This initiative seeks to develop a more detailed inflow and infiltration reduction program for the Peninsula. Developing flow calculations for each catchment area will allow the CRD and municipalities to plan and implement the most cost-effective capital upgrades/replacement program for the sanitary sewer infrastructure. This work will build on the 2020 work done to collect additional flow data and pinpoint areas with the highest inflow and infiltration levels in the Saanich Peninsula conveyance system.

### CONCLUSION

Staff have been progressing initiatives and actions identified in the Corporate Plan, including Board Priorities. The Board determines resourcing through its annual review and approval of financial plans. As per previous years, to support the Board's decision-making, staff are providing recommendations on funding, timing and service levels through the service and financial planning processes. The comprehensive budget information for the Saanich Peninsula Wastewater Service, including the above noted initiatives, is presented under a separate report to the Commission.

### RECOMMENDATION

The Saanich Peninsula Wastewater Commission recommends to the Capital Regional District Board:

That Appendix A Community Need Summary - Wastewater be approved as presented and advanced to the October 28, 2020 provisional budget review process.

Submitted by:	Ted Robbins, B. Sc., C. Tech., General Manager, Integrated Water Services
Submitted by:	Larisa Hutcheson, P. Eng., General Manager, Parks & Environmental Services
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

### **ATTACHMENTS**

Appendix A: Community Need Summary - Wastewater Appendix B: Initiatives Progress Report - Wastewater

# Community Need CRD

### 2021 Summary

### Wastewater

### Strategy

### Target Outcome

We envision efficient and effective management of the region's wastewater

### Strategic Context

### **Strategies**

- <u>Core Area Liquid Waste Management Plan</u>
- Transition to stable operation of McLoughlin Point Wastewater Treatment Plant and Residuals Treatment Facility
- Transition of residual solids from other wastewater treatment facilities to the Residuals Treatment Facility
- Continue to effectively operate and maintain the Saanich Peninsula Wastewater Treatment Plant.
- Continue to effectively operate and maintain five small wastewater systems in the Electoral Areas.

### Trends, risks and issues

- Monitoring programs for new wastewater infrastructure in the Core Area to be implemented
- Enhanced Key Manhole study to inform CRD source control initiatives and wastewater operations to be completed 2021-2022.
- Biosolids short-term implementation, and long term planning, options analysis and pilot testing
- Transition of residual solids from other wastewater treatment facilities to the Residuals Treatment Facility
- Optimization of operation and maintenance of new infrastructure in the Core Area
- Continued onboarding of new staff to operate and maintain the new infrastructure
- Continue to operate and maintain the other wastewater infrastructure in the Core Area, Saanich Peninsula, and the Electoral Areas. This infrastructure is of various ages and in several cases large scale infrastructure renewal is required.
- Facilities Management's role in supporting maintenance of superstructures in wastewater is evolving.

# Community Need CRD 2021 Summary

### Services

Core Services Levels				
Service	Levels			
<b>Core Area, Saanich Peninsula Wastewater Systems and Small Wastewater Systems in the Electoral Areas</b> Services include wastewater conveyance and tertiary treatment for Core Area, and conveyance and secondary treatment for Saanich Peninsula, and the small wastewater systems in the Electoral Areas.				
Wastewater System Operations Wastewater treatment collection and transmission system operation and monitoring. System and facility maintenance, consumables management and preventative maintenance	<ul> <li>Wastewater treatment</li> <li>System operation, monitoring and maintenance</li> <li>Consumables management</li> </ul>			
Emergency Response/System Failure Wastewater overflows and unplanned service interruptions	<ul> <li>Wastewater overflows and public and environmental health protection</li> <li>Unplanned service interruptions</li> </ul>			
Capital Project Delivery and Works Project design, procurement and delivery of projects planned each year, on time and budget. Installations, equipment replacement and capital projects support	<ul> <li>Capital program value for seven services</li> <li>Infrastructure renewal and upgrades</li> <li>Capital project support</li> </ul>			
Infrastructure planning Strategic asset management for all services/systems including modeling and capacity analysis, vulnerability assessment, infrastructure renewal plans.	<ul> <li>Asset management Plans</li> <li>Manage capital plans for seven wastewater services</li> </ul>			
<b>Engineering services</b> Support of Infrastructure Operations through engineering services such as process, civil, electrical and mechanical troubleshooting	• Engineering support of utility operations for the seven wastewater services.			
<b>Environmental Protection</b> Regulatory and non-regulatory services and a support role across the organization that focuses on contaminant reduction, monitoring and assessment associated with liquid waste treatment.				
<b>Regional Source Control</b> Administration, monitoring, and reporting of compliance with regional bylaw	<ul> <li>Inspect, monitor and enforcement for businesses and institutions connected to sanitary sewer</li> <li>Promote contaminant reduction associated with sanitary and stormwater systems.</li> </ul>			

# Comunity Need CRD

### 2021 Summary

Core Services Levels				
Service	Levels			
<b>Core Area and Saanich Peninsula Wastewater &amp;</b> <b>Marine Environmental Program</b> Oversight for wastewater monitoring and assessment and reporting to meet regulatory requirements	<ul> <li>Marine outfall monitoring, assessment and reporting services to demonstrate compliance with federal and provincial legislation</li> <li>Update of Liquid Waste Management Plans</li> </ul>			
<b>Residuals Treatment Facility</b> Administration of the Project Agreement for operation of the RTF and biosolids beneficial use strategy	• Monitoring and compliance reporting			
Onsite Wastewater Management Regulatory oversight for onsite wastewater systems and education and outreach services across the region	• Promote and monitor compliance with regional bylaw			
<b>Septage Service</b> Administration, monitoring and reporting of regional septage service	• Negotiate and manage one septage disposal contract servicing the capital region			
Watershed Management Program Promote environmental stewardship associated with sanitary and stormwater systems, contaminants and flows	<ul> <li>Promote public awareness and stewardship initiatives</li> <li>Public education and engagement in the region to promote sustainable behavior through campaigns, initiatives and services</li> </ul>			
<b>Support Services</b> The core services listed rely on the support of several corporate and support divisions to effectively operate on a daily basis. These services are reported on in the Accountability Community Need Summary.	<ul> <li>Services include Human Resources &amp; Corporate Safety, Corporate Communications, Asset Management, Financial Services, Information Technology &amp; GIS, Information Services, Legislative Services, Facility Management, Fleet Management, Legal Services, Risk &amp; Insurance and Real Estate Services.</li> </ul>			

# Comunity Need CRD 2021 Summary

Initiatives					
Ref	Initiative	Description	Year(s)	Status	2021 impacts
8a-1	Wastewater Management through LWMP	Advance management of wastewater & storm water through liquid waste management planning & construction/ maintenance of facilities Update of Core Area and Saanich Peninsula liquid waste management plans	2020	Absorbed in Core, see 8a-1.1-3 for follow-on initiatives	
8a-1.1	Wastewater Management			NEW Not started	4.0 Ongoing
8a-1.2	Facilities Centralization Strategy – FMW (CAWTP)	New facility operationas and maintenance support for Core Area Wasterwater Treatment facility coming into service at the end of 2020	2021	NEW Not started	1.0 Ongoing
8a-1.3	Saanich Peninsula Liquid Waste Management Plan – I&I	sula Liquid infiltration reduction program for the Peninsula gement		NEW Not started	

\*New - Initiatives not in the 2019-2022 Corporate Plan

Initiative approved in prior years which have now been delivered or absorbed in Core Services:

• 8a-2 – Stormwater Contaminant Sources

# Comunity Need CRD

### 2021 Summary

### **Business Model**

### Funding

### Who contributes

- Core Area Municipalities (Colwood, Esquimalt, Langford, Oak Bay, Saanich, Victoria, View Royal) and Songhees and Esquimalt First Nations
- Saanich Peninsula Municipalities (Central Saanich, North Saanich, Sidney) and Saanich Peninsula First Nations Bands
- Local Wastewater Service Areas in the Electoral Areas
- Support Services: varies per service

### Funding Sources

Requisitions

### **Reporting Structure**

- Core Area Liquid Waste Management Committee
- <u>Saanich Peninsula Wastewater Commission</u>

### Community Need Key Performance Indicator (KPI)

### Discussion

### Link to Target Outcome

The following KPIs link to the CRD's goals of safe, resilient and environmentally sound wastewater conveyance and treatment for our customers in the Capital Region and protection of the environmental and public health. These KPIs are being established with new performance targets that will be reported in future service plans.

- Compliance with provincial and federal regulatory requirements and operational certificates
- Total volume of wastewater collected and treated
- Operating cost per megaliter if wastewater collected and treated
- Energy use per megalitre of wastewater treated
- Volume/percent of biosolids beneficially used
- Utilization of gas generated at the Residuals Treatment Facility
- Annual number of wet-weather related sanitary sewer overflow events from CRD systems (resulting in near-shore discharges/beach closures)
- Delivery of annual capital program
- Number of complaints related to operation (noise/odour)

# Comunity Need CRD Initiative Progress Report

## Wastewater

16

	Initiatives approved in 2020 Budget					
Ref	Initiative	Progress to date				
8a-1	Wastewater Management through Liquid Waste Management Plan (LWMP)	<ul> <li>Progressing</li> <li>Regulatory approval of new wastewater infrastructure discharges (McLoughlin WWTP and RTF)</li> <li>Implementation of short-term biosolids plan, initiated planning for long-term biosolids management.</li> <li>Audit of Core Area LWMP, to be followed by review and update of LWMP chapters.</li> </ul>				
8a-2	Stormwater Contaminant Sources	Part of core service delivery				

\* New - Initiatives not in the 2019-2022 Corporate Plan

17



### REPORT TO SAANICH PENINSULA WASTEWATER COMMISSION MEETING OF THURSDAY, OCTOBER 15, 2020

### **<u>SUBJECT</u>** Saanich Peninsula Wastewater Service - 2021 Operating and Capital Budget

### **ISSUE SUMMARY**

To provide an overview of the 2021 Saanich Peninsula Wastewater Service operating and capital budget, highlighting the changes from the 2020 budget and the proposed 2021 budget figures. The report generally follows the sequence of information provided in the attached draft budget document (Appendix A).

### BACKGROUND

The draft 2021 Saanich Peninsula Wastewater Service budget has been prepared for the Saanich Peninsula Wastewater Commission's (the Commission) consideration. The Commission will make budget recommendations to the Capital Regional District (CRD) Board. As in previous years, the draft 2021 budget has been prepared considering the CRD Board's 2021 service planning and financial expectations, which include identifying opportunities to realign or reallocate resources and seek potential synergies or efficiencies between departments and services, reviewing of service levels and adjustments related to regulatory compliance, and undertaking infrastructure improvements to maintain service levels across the service area. The following sets out the key components of the budget.

### 2020 Year-end Financial Projections

The estimated actual 2020 overall expense for trunk sewer and treatment plant operations is projected to be \$67,268 under budget due to lower expenditures in heat recovery operations and unplanned equipment repairs and maintenance, which helped offset higher than budgeted chemical costs this year. This operating expense variance is offset by a reduction in anticipated revenue from Panorama Recreation Center (PRC) due to the pool shutdown in response to COVID-19 and system shutdown early in the year as a result of corrective maintenance issues. The District Energy System (DES) is projected to generate about \$44,545 in revenue from the sale of energy to the PRC for the year. This revenue is \$101,426 below the budgeted revenue of \$145,971. The net impact of these expense and revenue differences is \$34,158 and as such, the 2020 capital reserve fund transfer is projected to decrease to \$274,605 to balance the year-end budget.

### **Operating Budget**

A net increase in the 2021 operating expenses in the amount of \$519,371 is planned for trunk sewer and treatment plant operations; \$114,371 of this increase results from non-discretionary expense adjustments such as wage/salary increases, departmental support service allocations, and adjustments to other operating expenses such as chemical costs. The remaining \$405,000 of this increase is due to the cost for residuals disposal and treatment at the Residuals Treatment Facility (RTF), and beneficial end-use, as well as updated residuals trucking costs for bin hauling to the RTF, as directed by the Commission earlier this year.

### Saanich Peninsula Wastewater Commission – October 15, 2020 Saanich Peninsula Wastewater Service - 2021 Operating and Capital Budget

The 2021 Saanich Peninsula Liquid Waste Management Plan (LWMP) program budgets including the LWMP administration budget, the Saanich Peninsula Stormwater Quality Management Program budget and the Saanich Peninsula Stormwater Source Control budget, have also been prepared. The budgets are reflecting a 1.7% requisition increase, with the exception of the LWMP program budget which has an on-going annual requisition increase of \$41,000 to fund development of the Saanich Peninsula inflow and infiltration management program in order to meet the LWMP commitment and manage this risk proactively. The marine monitoring program costs are included in the overall conveyance and treatment operating budget.

The planned transfer to the maintenance reserve fund in 2021 is \$49,650. At year-end 2020, the maintenance reserve fund balance is estimated to be \$500,984, which is available to fund significant maintenance tasks that do not occur annually, such as odour control system carbon replacement, outfall inspections, and DES heat exchanger cleaning.

### Operating Revenue

Although the operating expenses are almost entirely funded through requisition based on each participant's percentage of total wastewater input, the DES system is budgeted to generate \$79,226 in revenue in 2021 from the sale of energy to the PRC. This level of revenue is determined by annual energy rate adjustments based on prior year natural gas market rates and projected energy consumption. The rate used to determine the 2021 revenue is based on the 2020 natural gas rate and anticipated reduced demand.

2021 cost sharing percentages based on prior year flows will be finalized in October and are not expected to change significantly from the 2020 cost sharing figures. The overall requisition for Saanich Peninsula trunk sewers, treatment and disposal for 2021 has been set at \$4,115,433 which is a 14.18% increase over 2020.

### Capital Budget

The planned capital expenditures for 2021 total \$3,957,500 and are funded from reserves. This includes \$2,990,000 in projects initiated in 2020 or prior, most of which are instream, multi-year projects. The 2021 capital program consists of several new projects related to replacement of equipment that is at the end of the service life and projects required to address operational issues. Three major projects included in the 2021 budget are relining segments of the asbestos cement trunk sewer main and manhole replacements, and, at the wastewater treatment plant, concrete tank repairs and replacement of the rotary presses.

The planned transfer to the capital reserve fund in 2021 is \$336,913. At year-end 2020, with a \$1.7 million transfer from Development Cost Charges (DCC) reserve, the capital reserve fund balance is estimated to be \$1,521,718, which is available to fund major capital projects. The planned transfer to the equipment replacement fund in 2021 is \$115,708. At year-end 2020, the equipment replacement fund balance is estimated to be \$675,661 which is available to fund minor capital and operating machinery and equipment replacements.

The value of the five year (2021 to 2025) capital plan is \$8,020,000. With the current capital reserve and equipment replacement fund balances, planned contributions, transfers, and expenditures, there is sufficient funding available for the five year capital plan. Although there are projected funds remaining in the capital reserve after the application of the five year plan, there is

a limited balance available for unplanned expenditures. Given this declining reserve balance, the 2021 budget includes a 10% annual increase in transfers to reserves (both Equipment Replacement Fund and Capital) and, as noted above a \$1.7 million transfer from DCC reserve. Unforeseen capital expenditures may trigger the need to borrow funds in the near future in the Saanich Peninsula Wastewater Service. There is currently no debt associated with the Saanich Peninsula Wastewater Service.

The DCC program represents \$150,000 of the capital plan which reflects the projects included in the 2018 DCC program update. Pending ministry approval of the proposed 2020 DCC transfer to capital reserve (\$1.7 million), at year-end in 2020 the DCC reserve fund balance is estimated to be \$35,004.

### RECOMMENDATION

The Saanich Peninsula Wastewater Commission recommends that the CRD Board:

- Approve the 2021 Saanich Peninsula trunk sewers, treatment and disposal operating and capital budget and the 2021 Saanich Peninsula Liquid Waste Management Plan (LWMP) program budgets including the LWMP administration budget, the Saanich Peninsula Stormwater Quality Management Program budget and the Saanich Peninsula Stormwater Source Control budget; and
- 2. Balance the 2020 actual revenue and expense on the transfer to capital reserve fund.

Submitted by:	Ted Robbins, B. Sc., C. Tech., General Manager, Integrated Water Services
Concurrence:	Larisa Hutcheson, P. Eng., General Manager, Parks & Environmental Services
Concurrence:	Nelson Chan, MBA, CPA, CMA, Chief Financial Officer
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

### **ATTACHMENT**

Appendix A: Draft Budget Document

# CAPITAL REGIONAL DISTRICT

## 2021 BUDGET

SAANCH PENISULA WASTEWATER

**COMMISSION REVIEW** 

Ocotober 2020

### TABLE OF CONTENTS

Saanich Peninsula Waste Water Treatment Plant				Page	•
3.7	18	Saanich Peninsula Wastewater	1	-	18
3.7	20	L.W.M.P. (Peninsula)	19	-	23
1.5	37	Saanich Peninsula - Stormwater Quality Management	24	-	28
1.5	38	Saanich Peninsula - Source Control Stormwater	29	-	33

# **CAPITAL REGIONAL DISTRICT**

## 2021 BUDGET

## Saanich Peninsula Wastewater

**COMMISSION REVIEW** 

October 2020

#### Service: 3.718 Saanich Peninsula Wastewater

#### **DEFINITION:**

Provision of sewage treatment and disposal through treatment plant facilities and outfall for member participants.

### SERVICE DESCRIPTION:

This program is for the provision of wastewater collection and treatment to the Saanich Peninsula municipalities of Central Saanich, North Saanich, and Sidney. Although the largest component of the program budget is for the operation and maintenance of the systems, many other key programs are funded through and support these budgets including engineering (capital projects), odour control, and marine monitoring and protection.

### **PARTICIPATION:**

Operating costs to be recovered by requisition to all participating members based on measured flow from previous year.

#### MAXIMUM LEVY:

Establishment Bylaw No. 2388/2439 - Greater of \$5,663,000 or \$1.56 / \$1,000 of actual assessed value of land and improvements.

#### MAXIMUM CAPITAL DEBT:

See Debt Budget 3.775 - debt fully retired in 2016

#### **SPWWS SEWER SYSTEM:**

Location	Allocation for 2020
Airport	1.88%
Sidney	39.67%
Pauquachin	0.87%
Central Saanich	41.71%
North Saanich	15.34%
Tseycum	0.36%
IOS	0.17%
Total	100.00%

#### FUNDING:

Requisition

#### **RESERVE FUND:**

Saanich Peninsula Wastewater Commission approved that operating surpluses be transferred to capital reserve fund, starting with 2009 budget (approved Nov 6, 2008).

2

Change in Service:	n Budget 2020 to 2021 3.178 SanPen Wastewater Treatment	Total Expenditure	Comments
2020 Budg	get	3,849,705	
Other Cha	anges:		
	Biosolids disposal and contract for services	405,000	RTF tipping fees and renegotiated trucking contract
	Capital reserve contributions	34,000	10% increase in reserve contributions to fund planned projects
	Allocations	42,000	Standard overhead, IWS ops, Enviro programs & Water quality
	Supplies - Chemicals	26,000	Bioxide purchases
	Other costs	48,241	General increase 1.7% and other minor cost changes
	Total Other Changes	555,241	
2021 Budg	get	4,404,946	
	% expense increase from 2020:	14.4%	
	% Requisition increase from 2020 (if applicable):	14.2%	Requisition funding is 97% of service revenue

#### **Overall 2020 Budget Performance**

(expected variance to budget and surplus treatment)

#### Estimated Actuals 2020:

24

There is a one time favourable variance of \$78,266 in operations due to savings in lab costs, heat recovery operations and biosolids management. This is partially offset by increased costs related to waste sludge disposal during ongoing capital projects and electricity cost overages totaling \$10,998 and leaving a net favorable operating variance of \$67,268. This variance is offset by a reduction in anticipated revenue due to the close of Panorama Recreation Center and corresponding decrease in internal revenues from the heat recovery system of \$101,426. The net impact of these differences is \$34,158 and will be removed from the transfer to Capital Reserve, which has an expected year end balance transfer of \$274,605.

### APPENDIX A

				BUDGET R	EQUEST					
3.718 - SAANICH PENINSULA WASTEWATER	<b>2020</b> BOARD BUDGET	2020 ESTIMATED ACTUAL	<b>2021</b> CORE BUDGET	2021 ONGOING	<b>2021</b> ONE-TIME	2021 TOTAL	2022 TOTAL	2023 TOTAL	2024 TOTAL	2025 TOTAL
OPERATING COSTS:										
Operating Lab Heat Recovery Biosolids Mgmt. Corporate Overhead	2,366,992 170,136 145,971 649,001 51,205	2,377,990 158,530 129,572 598,740 51,205	2,477,627 185,557 143,899 1,035,913 59,680		- - - -	2,477,627 185,557 143,899 1,035,913 59,680	2,501,432 187,055 146,768 1,056,631 69,019	2,550,984 190,973 149,689 1,077,764 70,400	2,601,533 194,963 152,673 1,099,319 71,808	2,653,082 199,048 155,718 1,121,305 73,244
TOTAL OPERATING COSTS	3,383,305	3,316,037	3,902,676	-	-	3,902,676	3,960,905	4,039,810	4,120,296	4,202,397
*Percentage Increase over prior year	0.00%	-1.99%	15.35%	0.00%	0.00%	15.35%	1.49%	1.99%	1.99%	1.99%
CAPITAL / RESERVE Transfer to Operating Reserve Fund Transfer to Equipment Replacement Fund Transfer to Reserve Fund	47,439 110,198 308,763	47,439 110,198 274,605	49,650 115,708 336,912	- - -	- -	49,650 115,708 336,912	51,983 121,493 367,931	54,429 127,568 401,998	56,996 133,947 439,416	59,687 140,644 480,522
TOTAL CAPITAL / RESERVES	466,400	432,242	502,270	-	-	502,270	541,407	583,995	630,359	680,853
TOTAL COSTS	3,849,705	3,748,279	4,404,946	-	-	4,404,946	4,502,312	4,623,805	4,750,655	4,883,250
*Percentage Increase over prior year	0.00%	-2.63%	14.42%	0.00%	0.00%	14.42%	2.21%	2.70%	2.74%	2.79%
Internal Recovery - Other Recovery - Other	(218,850) (455)	(117,879) -	(153,311) -	-	-	(153,311) -	(156,377)	(159,504) -	(162,693)	(165,949) -
OPERATING COSTS LESS INTERNAL RECOVERIES	3,630,400	3,630,400	4,251,635	-	-	4,251,635	4,345,935	4,464,301	4,587,962	4,717,301
*Percentage Increase over prior year	0.00%	0.00%	17.11%	0.00%	0.00%	17.11%	2.22%	2.72%	2.77%	2.82%
SOURCES OF FUNDING (REVENUE)										
Surplus / (Deficit) Balance C/F from Prior to Current year Grants In Lieu of Taxes Transfer From Own Funds	(6,098) (20,000)	(6,098) (20,000)	(6,202) (130,000)	-	- -	(6,202) (130,000)	(6,326) (55,000)	(6,452) (130,000)	(6,581) (110,000)	(6,714) (20,000)
TOTAL REVENUE	(26,098)	(26,098)	(136,202)	-	-	(136,202)	(61,326)	(136,452)	(116,581)	(26,714)
REQUISITION	(3,604,302)	(3,604,302)	(4,115,433)	-	-	(4,115,433)	(4,284,609)	(4,327,849)	(4,471,381)	(4,690,587)
*Percentage Increase over prior year	0.00%	0.00%	14.18%	0.00%	0.00%	14.18%	4.11%	1.01%	3.32%	4.90%

### CAPITAL REGIONAL DISTRICT

### FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2021 to 2025

Service No. Saanich Penin	3.718 Isula Wastewater		Carry Forward from 2020	2021	2022	2023	2024	2025	TOTAL
	EXPENDITURE								
	Buildings	В	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment	E	\$175,000	\$192,500	\$17,500	\$0	\$0	\$0	\$210,000
	Land	L	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Engineered Structures	S	\$2,815,000	\$3,765,000	\$950,000	\$400,000	\$1,635,000	\$1,060,000	\$7,810,000
	Vehicles	V	\$0	\$0	\$0	\$0	\$0	\$0	\$0
			\$2,990,000	\$3,957,500	\$967,500	\$400,000	\$1,635,000	\$1,060,000	\$8,020,000
	SOURCE OF FUNDS								
	Capital Funds on Hand	Сар	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$100,000
	Debenture Debt (New Debt Only)	Debt	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Equipment Replacement Fund	ERF	\$175,000	\$342,500	\$167,500	\$150,000	\$150,000	\$150,000	\$960,000
	Grants (Federal, Provincial)	Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Donations / Third Party Funding	Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Reserve Fund	Res	\$2,715,000	\$3,515,000	\$800,000	\$250,000	\$1,485,000	\$910,000	\$6,960,000
			\$2,990,000	\$3,957,500	\$967,500	\$400,000	\$1,635,000	\$1,060,000	\$8,020,000

### CAPITAL REGIONAL DISTRICT CAPITAL PLAN

CAPITA	l budget fo	RM							Service #:		3.718			
2021 8	r Forecast 20	22 to 2025							Service Nam	e:	Saanich Penii	nsula Wastewa	ter	
	wo digits represe as in the capital		New - Expenditure for new a	des an existing asset and extends the service ability or enhance service	es	Debt = De ERF = Equ Grant = Gr Cap = Capi	ipment Repla ants (Federal tal Funds on	(new debt only) acement Fund , Provincial)	Res = STLoar	ng Source Codes (con Reserve Fund = Short Term Loans Vater Utility	L - L S - E B - I V - V	<b>et Class</b> .and Buildings Jehicles iquipment	re	
Input Title Name - R	roject Title e of Project. For e toof Replacement acement".			nd service benefits. ment of a 40 year old roof above the swimming pool area; The ned to minimize maintenance and have an expected service lit	÷ .	em is built	This co	Project Budget lumn represents the rear window.	total project budg	et not only within				
				FI	VE YEAR FIN	ANCIAL F	PLAN							
Proj. No.	Capital Exp.Type	Ca	pital Project Title	Capital Project Description	Total Proj Budget	Asset Class	Funding Source	C/F from 2020	2021	2022	2023	2024	2025	5 - Year Total
WASTEWAT	TER TREATMEN	r plant		1	1	1	1		1					T
16-06	New	Biosolids Treatme	nt & Disposal Options Study	Study to determine viable options for treatment and disposal of biosolids from the SPWWTP.	\$100,000	S	Сар	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$100,000
19-01	Replacement	SPWWTP Replac	ement of Rotary Presses	Assess dewatering options of sludge and implement prior to possible failure of the rotary presses.	\$1,190,000	S	Res	\$800,000	\$900,000	\$0	\$0	\$0	\$0	\$900,000
20-01	Renewal	Isolation Valve Ins	stallation for Oxidation Ditches	To maintain operator safety isolation valves are required prior to the oxidation ditches at the SPWWTP.	\$130,000	S	Res	\$40,000	\$40,000	\$0	\$0	\$0	\$0	\$40,000
20-02	Renewal	Replace Aerators	in Oxidation Ditches	The existing 75hp aerators are at end of life and need to be upsized to 100hp to provide additional dissolved oxygen for future loading/increased strength of the wastewater.	\$200,000	E	ERF	\$175,000	\$175,000	\$0	\$0	\$0	\$0	\$175,000
20-06	Renewal	SPWWTP Road L	Jpgrades & Repairs	The existing asphalt road at the SPWWTP requires some repairs and road extension around the clarifier tank.	\$300,000	S	Res	\$0	\$0	\$0	\$0	\$285,000	\$0	\$285,000
21-01	Renewal	SPWWTP Concre	te Tank Repairs	Stantec completed an assessment and provided recommendations to repair significant internal corrosion in the clarifier, sludge tank, and process drain sump and this project will implement the repairs.	\$850,000	S	Res	\$0	\$850,000	\$0	\$0	\$0	\$0	\$850,000
21-03	Renewal	SPWWTP Screen	ings Bin	Debris from the raw sewage screenings is being co- mingled with dewatered sludge. It must be separated into its own bin so that dewatered sludge can be beneficially re-used.	\$300,000	s	Res	\$0	\$0	\$0	\$50,000	\$250,000	\$0	\$300,000
21-05	Renewal	SPWWTP HVAC	Fan Replacements	The HVAC Fan's were identified in Stantec's 2014 condition assessment as requiring replacement, funds are required to reassess the fans, design replacement and carry out replacement.	\$200,000	S	Res	\$0	\$50,000	\$150,000	\$0	\$0	\$0	\$200,000

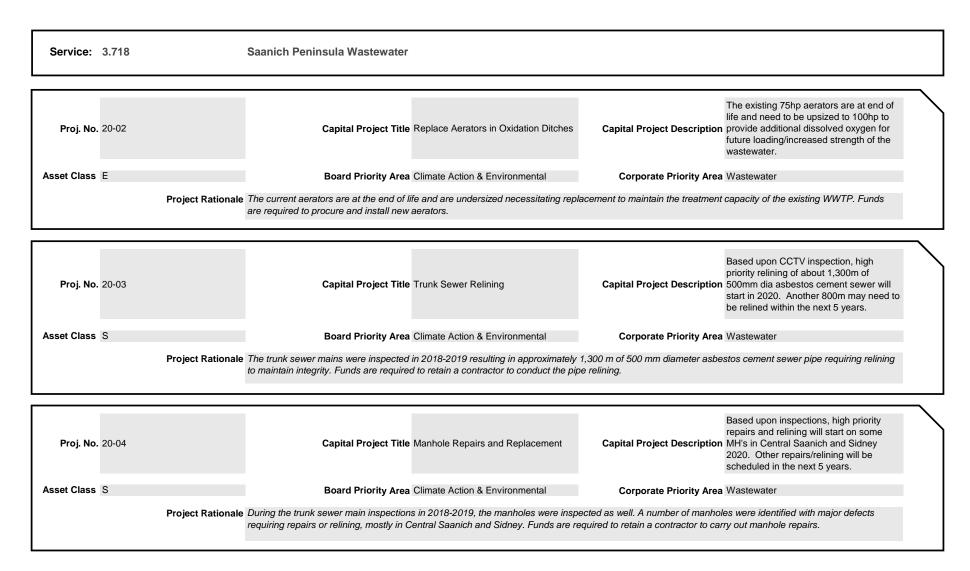
			FI	VE YEAR FIN	ANCIAL F	PLAN							
Proj. No.	Capital Exp.Type	Capital Project Title	Capital Project Description	Total Proj Budget	Asset Class	Funding Source	C/F from 2020	2021	2022	2023	2024	2025	5 - Year Total
23-03	Renewal	SPWWTP Solids Handling Equipment Removal	The old RDP Lime Stabilization biosolids process equipment has not been used for many years and no longer is operable. This equipment should be removed and recycled making way for other solids handling upgrades pending the outcome of the Biosolids Options Study.	\$400,000	S	Res	\$0	\$0	\$0	\$0	\$100,000	\$300,000	\$400,000
23-02	Study	Bazan Bay Outfall Inspection	Follow-up electromagnetic inspection of Bazan Bay Outfall based upon the 2018 inspection.	\$200,000	S	Res	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000
PUMP STAT	IONS												
21-02	Renewal	Sidney Pump Station Wet Well Upgrades	The existing inlet gate to the wet well and the forcemain knife gate valves are seized and need to be replaced, and the catwalk in the wet well needs to be cleaned and painted to protect it from corrosion.	\$300,000	S	Res	\$0	\$50,000	\$250,000	\$0	\$0	\$0	\$300,000
GENERAL													
19-03	Renewal	Corrosion Prevention Program	In conjunction with the RWS and JdF system a corrosion protection program to assess and monitor assets susceptible to corrosion	\$120,000	S	Res	\$20,000	\$20,000	\$0	\$0	\$0	\$60,000	\$80,000
19-06	Renewal	Odour Control Upgrades	Based upon the 2018 KWL Odour Control Program study, upgrades to odour control systems like the biofilter at SPWWTP will be undertaken.	\$575,000	S	Res	\$150,000	\$150,000	\$400,000	\$0	\$0	\$0	\$550,000
21-04	Replacement	Voice Radio Replacement	Replacement of the voice radios, in coordination with the RWS, SPW, JDF, and Core Area services.	\$35,000	E	ERF	\$0	\$17,500	\$17,500	\$0	\$0	\$0	\$35,000
18-10	Replacement	Equipment Replacement - Annual Provisional	Funds are required for emergency replacement of equipment that is unplanned and outside maintenance contingencies.	\$750,000	S	ERF	\$0	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000
GRAVITY SI	WERS & MAN	IOLES											
20-03	Renewal	Trunk Sewer Relining	Based upon CCTV inspection, high priority relining of about 1,300m of 500mm dia asbestos cement sewer will start in 2020. Another 800m may need to be relined within the next 5 years.	\$2,200,000	s	Res	\$1,100,000	\$1,100,000	\$0	\$0	\$550,000	\$550,000	\$2,200,000
20-04	Renewal	Manhole Repairs and Replacement	Based upon inspections, high priority repairs and relining will start on some MH's in Central Saanich and Sidney 2020. Other repairs/relining will be scheduled in the next 5 years.	\$500,000	S	Res	\$475,000	\$225,000	\$0	\$0	\$250,000	\$0	\$475,000
PRESSURE	PIPES & APPER	TUNANCES		•						•			
DEVELOPM	ENT COST CHAI	RGE (DCC) PROJECTS											
19-04	Renewal	Asset Management Plan Update	Update the asset management plan to inform future works - DCC Share.	\$100,000	S	Res	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$100,000
19-04	Renewal	Asset Management Plan Update	Update the asset management plan to inform future works - Cap Reserve Share	\$30,000	S	Res	\$30,000	\$30,000	\$0	\$0	\$0	\$0	\$30,000
23-01	Renewal	DCC Program - 5-year Update	5-year update of the DCC program.	\$50,000	S	Res	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
			GRAND TOTAL	\$8,530,000	•		\$2,990,000	\$3,957,500	\$967,500	\$400,000	\$1,635,000	\$1,060,000	\$8,020,000
					•		· ····						,.,, <del>.</del>

Service:	3.718	Saanich Peninsula Wastewater	·			
Proj. No.	16-06	Capital Project Title	Biosolids Treatment & Disposal Options Study	Capital Project Description	Study to determine viable options for treatment and disposal of biosolids from the SPWWTP.	
Asset Class	S	Board Priority Area	Climate Action & Environmental Stewardship	Corporate Priority Area	Wastewater	
		<b>Project Rationale</b> A study to determine viable options for	r treatment and disposal of biosolids from	n the SPWWTP will be undertaken.		

Proj. No.	18-10		Capital Project Title	Equipment Replacement - Annual Provisional	Capital Project Description	Funds are required for emergency replacement of equipment that is unplanned and outside maintenance contingencies.
Asset Class	S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
		Project Rationale	Funds are required for emergency repla	acement of equipment that is unplanned an	d outside maintenance continger	ncies.

Proj. No.	19-01	Capital Project Title	SPWWTP Replacement of Rotary Presses	Capital Project Description	Assess dewatering options of sludge and implement prior to possible failure of the rotary presses.
Asset Class	S	Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
		The 2013 Stantec condition assessmer replace the rotary presses before they i (2019) and complete the designand ins	fail so that the SPWWTP can maintain op	peration. Funding is required to ass	i life approximately 2020. It is proposed to sess replacement thickening options

Service:	3.718	:	Saanich Peninsula Wastewater			
Proj. No.	19-03		Capital Project Title	Corrosion Prevention Program	Capital Project Description	In conjunction with the RWS and JdF system a corrosion protection program to assess and monitor assets susceptible to corrosion
Asset Class	S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
		-		on protection program in 2018 that the	SPWW system can be assessed an	The Regional Water and Juan du Fuca d monitored as well. Funds are required to ithin the Saanich Peninsula Wastewater
Proj. No.	19-04		Capital Project Title	Asset Management Plan Update	Capital Project Description	Update the asset management plan to inform future works - DCC Share.
Asset Class	S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
		Project Rationale .	An update to the strategic plan to inforn	n future works will be undertaken.		
Proj. No.	19-06		Capital Project Title	Odour Control Upgrades	Capital Project Description	Based upon the 2018 KWL Odour Control Program study, upgrades to odour control systems like the biofilter at SPWWTP will be undertaken.
Asset Class	S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
		-	In 2017 KWL was retained to conduct a recommendations on remediation, work SPWWTP Odour Control Improvements	s include: SPWWTP odour control mai	nagement study and Sidney and Ke	ating PS ventilation study (2019);
					_	
Proj. No.	20-01		Capital Project Title	Isolation Valve Installation for Oxidation Ditches	Capital Project Description	To maintain operator safety isolation valves are required prior to the oxidation ditches at the SPWWTP.
Asset Class	S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
			The oxidation ditches at SPWWTP curr diameter valves and install outside the		n valves to allow for repairs. Funding	is required to procure two 600mm



Service: 3.718	Saanich Peninsula Wastewater
<b>Proj. No.</b> 20-06	Capital Project Title SPWWTP Road Upgrades & Repairs Capital Project Description SPWWTP requires some repairs and road extension around the clarifier tank.
Asset Class S	Board Priority Area Climate Action & Environmental Corporate Priority Area Wastewater
	Project Rationale The SPWWTP site's access road and existing bin loading area is having pavment failure, additionally, the gravel route around the facility is being used more often to alleviate traffic along the bin hauling route and it is creating dust. Funds are required to fix failed pavement and pave the route around the treatment plant.
<b>Proj. No.</b> 21-01	Capital Project Title       SPWWTP Concrete Tank Repairs       Capital Project Description       Stantec completed an assessment and provided recommendations to repair significant internal corrosion in the clarifier, sludge tank, and process drain sump and this project will implement the repairs.
Asset Class S	Board Priority Area Climate Action & Environmental Corporate Priority Area Wastewater
	Project Rationale required repairs for significant internal corrosion in the clarifier, sludge tank, and process drain sump and this project will implement the repairs.
<b>Proj. No.</b> 21-02	Capital Project Title       Sidney Pump Station Wet Well       Capital Project Description       The existing inlet gate to the wet well and the forcemain knife gate valves are seized and need to be replaced, and the catwalk in the wet well needs to be cleaned and painted to protect it from corrosion.
Asset Class S	Board Priority Area Climate Action & Environmental Corporate Priority Area Wastewater
	Project Rationale The existing inlet gate to the wet well and the forcemain knife gate valves are seized and need to be replaced, and the catwalk in the wet well needs to be cleaned and painted to protect it from corrosion.
<b>Proj. No.</b> 21-03	Capital Project Title       SPWWTP Screenings Bin       Capital Project Description       Debris from the raw sewage screenings is being co-mingled with dewatered         SPWWTP Screenings Bin       Capital Project Description       sludge. It must be separated into its own bin so that dewatered sludge can be beneficially re-used.
Asset Class S	Board Priority Area Climate Action & Environmental Corporate Priority Area Wastewater
	Project Rationale Debris from the raw sewage screenings is being co-mingled with dewatered sludge. It must be separated into its own bin so that dewatered sludge can be beneficially re-used.

Service: 3.	718	Saanich Peninsula Wastewater			
<b>Proj. No.</b> 21	1-04	Capital Project Title	Voice Radio Replacement	Capital Project Description	Replacement of the voice radios, in coordination with the RWS, SPW, JDF, and Core Area services.
Asset Class E		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
	Project Rationale	End of life replacement of the voice rad	ios, in coordination with the RWS, SPW,	, JDF, and Core Area services.	
<b>Proj. No.</b> 21	1-05	Capital Project Title	SPWWTP HVAC Fan Replacements	Capital Project Description	The HVAC Fan's were identified in Stantec's 2014 condition assessment as requiring replacement, funds are required to reassess the fans, design replacement and carry out replacement.
Asset Class S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
	Project Rationale	The HVAC Fan's were identified in Star replacement and carry out replacement		uiring replacement, funds are requ	ired to reassess the fans, design
<b>Proj. No.</b> 23	3-01	Capital Project Title	DCC Program - 5-year Update	Capital Project Description	5-year update of the DCC program.
Asset Class S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
	Project Rationale	This item is for a planned review and up	odate of the DCC Program.		
<b>Proj. No.</b> 23	3-02	Capital Project Title	Bazan Bay Outfall Inspection	Capital Project Description	Follow-up electromagnetic inspection of Bazan Bay Outfall based upon the 2018 inspection.
Asset Class S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater
	Project Rationale	Follow-up electromagnetic inspection o	f Bazan Bay Outfall based upon the 201	8 inspection.	

Service:	3.718		Saanich Peninsula Wastewater				
Proj. No.	23-03		Capital Project Title	SPWWTP Solids Handling Equipment Removal	Capital Project Description	The old RDP Lime Stabilization biosolids process equipment has not been used for many years and no longer is operable. This equipment should be removed and recycled making way for other solids handling upgrades pending the outcome of the Biosolids Options Study.	
Asset Class	S		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater	
			The old RDP Lime Stabilization biosolic removed and recycled making way for				
							$\overline{}$
Proj. No.	21-04		Capital Project Title	Voice Radio Replacement	Capital Project Description	Replacement of the voice radios, in coordination with the RWS, SPW, JDF, and Core Area services.	
Asset Class	E		Board Priority Area	Climate Action & Environmental	Corporate Priority Area	Wastewater	
		Project Rationale	End of life replacement of the voice rad	lios, in coordination with the RWS, SPW	, JDF, and Core Area services.		

### 3.718 Saanich Peninsula Wastewater Asset and Reserve Summary Summary Schedule 2021 - 2025 Financial Plan

#### **Asset Profile**

#### Saanich Peninsula Wastewater Assets

35

Construction of the Saanich Peninsula Wastewater Treatment Plant (SPWWTP) was completed in January 2000 to provide wastewater service for Central Saanich, North Saanich and Sidney, as well as the local First Nations, Victoria Airport Authority, and the Institute of Ocean Sciences Centre. Annually, the SPWWTP produces on average 3,600 tonnes of sludge which is currently hauled to the Hartland landfill for disposal as controlled waste. Treated effluent is discharged through the Bazan Bay Outfall to the marine environment. The SPWWTP heat recovery system was commissioned in February 2011 and has supplied treatment plant effluent waste heat to the Panorama Recreation Center for heating its swimming pools since then. Assets in the Saanich Peninsula Wastewater System include land, the SPWWTP and a secondary treatment plant, three pumping stations, PRV station, thermal recovery and other buildings, 14 kilometres of collections and conveyance (gravity & pressure) mains, and two marine outfalls.

	Sum	imary				
SPWWTP Reserve/Fund Summary	Estimate			Budget		
Projected year end balance	2020	2021	2022	2023	2024	2025
Maintenance Reserve Fund	500,984	420,634	417,616	342,046	289,042	328,730
Sewer Capital Reserve Funds	1,556,722	1,263,635	1,001,566	1,323,563	397,980	138,502
Equipment Replacement Fund	675,661	623,869	577,862	555,430	539,377	530,020
Total projected year end balance	2,733,367	2,308,137	1,997,044	2,221,040	1,226,399	997,252

See attached reserve schedules for projected annual cash flows.

36

### 3.718 Saanich Peninsula Wastewater Operating Reserve Summary 2021 - 2025 Financial Plan

#### Saanich Peninsula Wastewater

Starting in 2003, maintenance reserve accounts were established for operating and maintenance activities that typically do not occur annually. These maintenance activities are large expense and to and to avoid large swings in the operating budget, funds are set aside annually to undertake this maintenance. The maintenance activities are the replacement and disposal of the odour control carbon at the treatment plant approximately every 2 years, replacement and disposal of the odour control carbon at the regulatory inspection of the Bazan Bay marine outfall every 5 years and the cleaning and rebuild of the District Energy Sharing System heat exchanger every 5-8 years.

Profile

### **Operating Reserve Schedule**

Operating Reserve Schedule	Estimate	Budget				
Fund: 1500 Fund Center: 105204	2020	2021	2022	2023	2024	2025
Beginning Balance	460,448	500,984	420,634	417,616	342,046	289,042
Planned Purchase	(20,000)	(130,000)	(55,000)	(130,000)	(110,000)	(20,000)
Transfer from Ops Budget Interest Income*	47,439 13,097	49,650 -	51,983 -	54,430 -	56,996 -	59,688 -
Total projected year end balance	500,984	420,634	417,616	342,046	289,042	328,730

### Assumptions/Background:

Maintenance Reserve Account: Outfall Inspection, Odour Control Carbon Replacement, Heat Recovery Exchange System Cleaning

\* 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.

#### 3.718 Saanich Peninsula Wastewater Equipment Replacement Reserve Fund Schedule 2021 - 2025 Financial Plan

#### **ERF Reserve Fund Schedule SPWWTP**

#### **ERF:** SPWWTP ERF or PERS Fund for Equipment

Equipment Replacement Fund- SPWWTP	Estimate	Budget							
Fund: 1022 Fund Center: 101700	2020	2021	2022	2023	2024	2025			
Beginning Balance	929,158	675,661	623,869	577,862	555,430	539,377			
Planned Purchase (Based on Capital Plan)	(375,000)	(167,500)	(167,500)	(150,000)	(150,000)	(150,000)			
Transfer IN (from Ops Budget) Interest Income*	110,198 11,305	115,708 -	121,493 -	127,568 -	133,946 -	140,644 -			
Ending Balance \$	675,661	623,869	577,862	555,430	539,377	530,020			

#### Assumptions/Background:

The ERF funds the replacement or repair of equipment with a service life of 15 years or less. In the past the ERF has also been referred to as a Priority Equipment Replacement Strategy (PERS). There are three individual ERF funds; Wastewater Treatment Plant (E00561), Trunk Sewers (E00562) and Saanich Peninsula Laboratory Equipment (E00586)

\* Interest in planning years nets against inflation which is not included.

#### **Capital Reserve Fund Schedule - SPWWTP**

#### Capital Reserve Fund SPWWTP - DCC Portion and Capital Reserve Portion

Bylaw 2760 established a Reserve Fund for the Saanich Peninsula Wastewater System. There are two portions in the Reserve Fund: Development Cost Charges is deposited in the DCC portion and expenditures are restricted. Surplus funds from the Operating budget are deposited to the Capital Reserve portion and expenditures provide for capital works.

DCC Portion	Estimate	Budget							
Fund: 1012 Fund Center: 101356	2020	2021	2022	2023	2024	2025			
Beginning Balance	1,534,961	35,004	205,004	375,004	545,004	65,004			
Planned Capital Expenditure (Based on Capital Plan) Transfer OUT - To Capital Reserve	- (1,700,000)	-	-	-	(50,000) (600,000)	- (200,000)			
Transfer IN - DCC Funding Interest Income	170,000 30,043	170,000 -	170,000 -	170,000 -	170,000 -	170,000 -			
Ending Balance \$	35,004	205,004	375,004	545,004	65,004	35,004			

Assumptions/Background:

Surplus funds from the Operating budget are deposited to the Capital Reserve portion and expenditures provide for capital works.

Approved capital expenditures to be funded by DCC to be determined, as under review.

#### **Capital Reserve Fund Schedule - SPWWTP**

#### Capital Reserve Fund SPWWTP - DCC Portion and Capital Reserve Portion

Bylaw 2760 established a Reserve Fund for the Saanich Peninsula Wastewater System. There are two portions in the Reserve Fund: Development Cost Charges is deposited in the DCC portion and expenditures are restricted. Surplus funds from the Operating budget are deposited to the Capital Reserve portion and expenditures provide for capital works.

Capital Reserve Portion	Estimate	Budget							
Fund: 1012 Fund Center: 102022	2020	2021	2022	2023	2024	2025			
Beginning Balance	2,141,215	1,521,718	1,058,630	626,561	778,559	332,976			
Planned Capital Expenditure	(2,610,000)	(800,000)	(800,000)	(250,000)	(1,485,000)	(910,000)			
Transfer from Ops Budget	274,605	336,913	367,931	401,998	439,417	480,522			
Planned transfer from DCC Funds Interest Income*	1,700,000 15,898	-	-	-	600,000 -	200,000 -			
Ending Balance \$	1,521,718	1,058,630	626,561	778,559	332,976	103,498			

# **CAPITAL REGIONAL DISTRICT**

## 2021 BUDGET

# L.W.M.P. (Peninsula)

### **COMMISSION REVIEW**

October 2020

Service: 3.720 L.W.M.P. (Peninsula)

Commission: Saanich Peninsula Waste Water

#### **DEFINITION:**

Implementation of the Liquid Waste Management Plan for the Saanich Peninsula. Bylaw No. 2388 (1996), amended by Bylaw No. 2439 (1996) and Bylaw No. 3073 (2003)

#### SERVICE DESCRIPTION:

To manage the Saanich Peninsula Liquid Waste Management Plan (SPLWMP) and implement the commitments approved under the plan as required:

• planning, reporting, amendment preparation, implementation of commitments, biosolids management program, resource recovery development and inflow/infiltration enhancement program

#### **PARTICIPATION:**

#### MAXIMUM LEVY:

Greater of \$5,663,000 or \$1.56 / \$1,000 of actual assessments (2020 - \$24,155,979).

#### MAXIMUM CAPITAL DEBT:

Nil

#### COMMITTEE:

Parks & Environment

#### FUNDING:

Requisition

#### **RESERVE FUND:**

Bylaw No. 4144 Operating Reserve Fund

Service: 3.720 L.W.M.P. (Peninsula)

Commission: Saanich Peninsula Waste Water

	Operating
Central Saanich North Saanich (*see note below)	43.12% 15.87%
Sidney Total	41.01%

Note:

\* North Saanich taxes all of North Saanich, including the Airport, as LWMP benefits all of North Saanich, and not just the sewer area. (March 18, 2002)

42

42

#### APPENDIX A

				BUDGET R	EQUEST					
3.720 - LWMP (PENINSULA)	<b>2020</b> BOARD BUDGET	2020 ESTIMATED ACTUAL	2021 CORE BUDGET	<b>2021</b> ONGOING	<b>2021</b> ONE-TIME	2021 TOTAL	2022 TOTAL	2023 TOTAL	2024 TOTAL	2025 TOTAL
OPERATING COSTS:										
Operating Expenditures Contract For Services Contingency	21,875 25,000 -	21,877 20,000 -	41,738 - -	41,000 - -	- -	82,738 - -	107,341 11,799 -	24,080 - -	24,557 - -	25,047 - -
TOTAL OPERATING COSTS	46,875	41,877	41,738	41,000	-	82,738	119,140	24,080	24,557	25,047
*Percentage Increase over prior year	0.00%	-10.66%	-10.96%	87.47%	0.00%	76.51%	44.00%	-79.79%	1.98%	2.00%
<u>CAPITAL / RESERVE</u> Transfer to Equipment Replacement Fund Transfer to Operating Reserve Fund	-	- 4,998	-	-	-	-	-	-	-	-
TOTAL CAPITAL / RESERVES		4,998			-	-	-	-	_	_
Debt Expenditures MFA Debt Reserve	-	-	-	-	-	-	-	-	-	-
TOTAL COSTS	46,875	46,875	41,738	41,000	-	82,738	119,140	24,080	24,557	25,047
*Percentage Increase over prior year	0.00%	0.00%	-10.96%	87.47%	0.00%	76.51%	44.00%	-79.79%	1.98%	2.00%
Internal Recoveries Recovery - Other	-	-	-	-	-	-		-	-	-
OPERATING COSTS LESS INTERNAL RECOVERIES	46,875	46,875	41,738	41,000	-	82,738	119,140	24,080	24,557	25,047
*Percentage Increase over prior year	0.00%	0.00%	-10.96%	87.47%	0.00%	76.51%	44.00%	-79.79%	1.98%	2.00%
FUNDING SOURCES (REVENUE)										
Surplus / (Deficit) Balance C/F from Prior to Current year Grants in Lieu of Taxes Transfer From Operating Reserve	(200) (35,000)	(200) (35,000)	(210) (29,658)	- -	- - -	- (210) (29,658)	(210)	(210)	(210) -	(210) -
TOTAL REVENUE	(35,200)	(35,200)	(29,868)	-	-	(29,868)	(210)	(210)	(210)	(210)
REQUISITION	(11,675)	(11,675)	(11,870)	(41,000)	-	(52,870)	(118,930)	(23,870)	(24,347)	(24,837)
*Percentage Increase over prior year	0.00%	0.00%	1.67%	351.18%	0.00%	352.85%	124.95%	-79.93%	2.00%	2.01%
PARTICIPANTS: Central Saanich, North Saanich, Sidney AUTHORIZED POSITIONS: Salaried Term	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

#### Profile

#### L.W.M.P. Peninsula

Established by Bylaw No. 4144 to enable CRD services to set aside operating funds to cover cyclical expenditures, unforeseen operating expenses, special onetime operating projects, as well as to mitigate fluctuations in revenue.

#### **Operating Reserve Schedule**

Operating Reserve Schedule	Est. Actual	Budget								
Fund: 1500 Fund Center: 105527	2020	2021	2022	2023	2024	2025				
Beginning Balance	59,471	30,371	713	713	713	713				
Planned Purchase	(35,000)	(29,658)	-	-	-	-				
Transfer from Ops Budget	4,998	-	-	-	-	-				
Interest Income*	902	-	-	-	-	-				
Total projected year end balance	30,371	713	713	713	713	713				

#### Assumptions/Background:

Retain reserve balance for future LWMP planning projects.

\* 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.

# CAPITAL REGIONAL DISTRICT

## **2021 BUDGET**

### **Saanich Peninsula - Stormwater Quality Management**

### **COMMISSION REVIEW**

October 2020

45

46

Service: 1.537 Saanich Peninsula - Stormwater Quality Management

Commission: Saanich Peninsula Waste Water

#### **DEFINITION:**

Establishment Bylaw No. 3642 (2009), as amended by Bylaw No. 4141 (2017), to identify pollution in stormwater run-off from land in the service area.

#### SERVICE DESCRIPTION:

The service provides a stormwater quality program in the Saanich Peninsula to coordinate and provide information for management of stormwater quality and surface water resources. The program identifies levels of contaminants in stormwater discharges and prioritizes the level of public health and environmental concern posed by the discharges and then works to reduce/eliminate the contaminants.

#### **PARTICIPATION:**

Districts of Central Saanich, North Saanich and Town of Sidney.

#### MAXIMUM LEVY:

Greater of \$106,017 or \$0.0103/\$1,000 of actual assessments. The actual assessment for 2020 was \$109,946.

#### MAXIMUM CAPITAL DEBT:

Nil

#### COMMITTEE:

Saanich Peninsula Wastewater Commission

#### FUNDING:

The apportionment of annual operating costs among the participating areas shall be on the basis of one sixth in proportion to the population of the participating areas, one sixth in proportion to the land area of the participating areas, one sixth in proportion to the length of shoreline in each of the participating areas, and one half in proportion to the number of high and medium priority discharges of stormwater to the environment in the prior year within the boundaries of each of the participating areas, as determined by the Capital Regional District Board.

#### **USER CHARGE:**

N/A

	Stormwater
Central Saanich	27.58%
North Saanich	35.68%
Sidney	24.33%
Tsawout Band	4.49%
Tsartlip Band	5.57%
Pauquachin Band	0.98%
Tseycum Band	1.37%
Total	100.00%

Note:

\* Service established effective 2010; previously provided by agreement

				BUDGET R	EQUEST					
1.537 SOURCE CONTROL STORMWATER - SAANICH PENINSULA	<b>2020</b> BOARD BUDGET	2020 ESTIMATED ACTUAL	<b>2021</b> CORE BUDGET	2021 ONGOING	<b>2021</b> ONE-TIME	2021 TOTAL	2022 TOTAL	2023 TOTAL	2024 TOTAL	2025 TOTAL
OPERATING COSTS:										
Operating Expenditures Contract For Services Consultant Expenses	72,938 29,857 11,000	83,005 17,500 2,000	75,443 22,500 15,000	- - -	- -	75,443 22,500 15,000	77,371 22,529 15,300	78,919 22,980 15,610	80,488 23,452 15,920	82,091 23,919 16,240
TOTAL OPERATING COSTS	113,795	102,505	112,943	-	-	112,943	115,200	117,509	119,860	122,250
*Percentage Increase over prior year	0.00%	-9.92%	-0.75%	0.00%	0.00%	-0.75%	2.00%	2.00%	2.00%	1.99%
<u>CAPITAL / RESERVE</u> Transfer to Equipment Replacement Fund Transfer to Operating Reserve Fund	-	- 11,290	- 2,787	-	-	- 2,787	- 2,840	- 2,891	- 2,950	- 3,010
TOTAL CAPITAL / RESERVES		11,290	2,787	-	-	2,787	2,840	2,891	2,950	3,010
Debt Expenditures MFA Debt Reserve	-	-	-	-	:	-	-	-	-	-
TOTAL COSTS	113,795	113,795	115,730	-	-	115,730	118,040	120,400	122,810	125,260
*Percentage Increase over prior year	0.00%	0.00%	1.70%	0.00%	0.00%	1.70%	2.00%	2.00%	2.00%	1.99%
Internal Recoveries Recovery - Other	-	-	-	-	-	-	-	-	-	-
OPERATING COSTS LESS INTERNAL RECOVERIES	113,795	113,795	115,730	-	-	115,730	118,040	120,400	122,810	125,260
*Percentage Increase over prior year	0.00%	0.00%	1.70%	0.00%	0.00%	1.70%	2.00%	2.00%	2.00%	1.99%
FUNDING SOURCES (REVENUE)										
Surplus / (Deficit) Balance C/F from Prior to Current year Grants in Lieu of Taxes Transfer From Operating Reserve	- (3,849) -	(3,849) -	(3,910)	- -	-	- (3,910) -	(3,980) -	(4,060) -	(4,140) _	- (4,220) -
TOTAL REVENUE	(3,849)	(3,849)	(3,910)		_	(3,910)	(3,980)	(4,060)	(4,140)	(4,220)
REQUISITION	(109,946)	(109,946)	(111,820)	-	-	(111,820)	(114,060)	(116,340)	(118,670)	(121,040)
*Percentage Increase over prior year	0.00%	0.00%	1.70%	0.00%	0.00%	1.70%	2.00%	2.00%	2.00%	2.00%
PARTICIPANTS: Central Saanich, North Saanich, Sidney AUTHORIZED POSITIONS: Salaried Term	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

1.537 Saanich Peninsula - Source Control Stormwater Operating Reserve Summary 2021 - 2025 Financial Plan

#### Profile

#### Saanich Peninsula - Source Control Stormwater

Established by Bylaw No. 4147 to enable CRD services to set aside operating funds to cover cyclical expenditures, unforeseen operating expenses, special one-time operating projects, as well as to mitigate fluctuations in revenue.

<b>Operating R</b>	eserve Schedule
--------------------	-----------------

Operating Reserve Schedule	Est. Actual	Budget							
Fund: 1500 Fund Center: 105520	2020	2021	2022	2023	2024	2025			
Projected year end balance									
Beginning Balance	27,114	38,816	41,603	44,443	47,334	50,284			
Planned Purchase	-	-	-	-	-	-			
Transfer from Ops Budget	11,290	2,787	2,840	2,891	2,950	3,010			
Interest Income*	411	-	-	-	-	-			
Total projected year end balance	38,816	41,603	44,443	47,334	50,284	53,294			

\* 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.

# **CAPITAL REGIONAL DISTRICT**

### 2020 BUDGET

### **Saanich Peninsula - Source Control Stormwater**

**COMMISSION REVIEW** 

October 2020

Service: 1.538 Saanich Peninsula - Source Control Stormwater

Commission: Saanich Peninsula Waste Water

#### **DEFINITION:**

To regulate, prohibit and impose requirements in respect of discharges to the municipal stormwater system and water courses Bylaw No. 3906 (adopted August, 2013), amended by Bylaw No. 4140 (2016).

#### **SERVICE DESCRIPTION:**

The service provides a regulatory stormwater source control program in the Saanich Peninsula to manage stormwater quality in the municipal drainage systems.

#### **PARTICIPATION:**

Districts of Central Saanich, North Saanich and Town of Sidney.

#### MAXIMUM LEVY:

Maximum Levy: Greater of \$51,715 or \$0.005/\$1,000 of actual assessments. The actual assessment for 2020 was \$77,423.

#### MAXIMUM CAPITAL DEBT:

Nil

#### COMMITTEE:

Saanich Peninsula Wastewater

#### FUNDING:

The annual costs for the service, net of grants and other revenues, shall be apportioned on the basis of:

a) The population of the participating areas; and

b) The population estimate as determined annually by the Regional Planning Services department of the Capital Regional District.

#### USER CHARGE:

N/A

Service: 1.538 Saanich Peninsula - Source Control Stormwater Commission:

Commission: Saanich Peninsula Waste Water

	2020
Central Saanich	42.86%
North Saanich	28.14%
Sidney	28.99%
Total	100.00%

Note: Bylaw No. 3906 (adopted August, 2013).

				BUDGET R	EQUEST					
1.538 STORMWATER QUALITY MANAGEMENT - SAANICH PENINSULA	<b>2020</b> BOARD BUDGET	2020 ESTIMATED ACTUAL	<b>2021</b> CORE BUDGET	2021 ONGOING	<b>2021</b> ONE-TIME	2021 TOTAL	2022 TOTAL	2023 TOTAL	2024 TOTAL	2025 TOTAL
OPERATING COSTS:										
Operating Expenditures Contract For Services Contingency	48,033 13,400 -	45,149 2,500 -	55,480 7,000 -	-	- -	55,480 7,000 -	46,463 7,140 -	47,390 7,280 -	48,329 7,430 -	49,290 7,580 -
TOTAL OPERATING COSTS	61,433	47,649	62,480	-	-	62,480	53,603	54,670	55,759	56,870
*Percentage Increase over prior year	0.00%	-22.44%	1.70%	0.00%	0.00%	1.70%	-14.21%	1.99%	1.99%	1.99%
<u>CAPITAL / RESERVE</u> Transfer to Equipment Replacement Fund Transfer to Operating Reserve Fund	-	- 9,684	-	-	-	-	2,217	- 2,260	- 2,311	- 2,360
TOTAL CAPITAL / RESERVES		9,684		_	-	-	2,217	2,260	2,311	2,360
Debt Expenditures MFA Debt Reserve	-	-	-	-	-	-	-	-	-	-
TOTAL COSTS	61,433	57,333	62,480	-	-	62,480	55,820	56,930	58,070	59,230
*Percentage Increase over prior year	0.00%	-6.67%	1.70%	0.00%	0.00%	1.70%	-10.66%	1.99%	2.00%	2.00%
Internal Recoveries Recovery - Other	-	-	-	-	-	-	-	-	-	-
OPERATING COSTS LESS INTERNAL RECOVERIES	61,433	57,333	62,480	-	-	62,480	55,820	56,930	58,070	59,230
*Percentage Increase over prior year	0.00%	-6.67%	1.70%	0.00%	0.00%	1.70%	-10.66%	1.99%	2.00%	2.00%
FUNDING SOURCES (REVENUE)										
Surplus / (Deficit) Balance C/F from Prior to Current year Grants in Lieu of Taxes Transfer From Operating Reserve	(3,519) (1,550) (4,100)	(3,519) (1,550) -	(1,580) (7,750)	- -	-	(1,580) (7,750)	(1,610) -	(1,640) -	(1,670) -	- (1,700) -
TOTAL REVENUE	(9,169)	(5,069)	(9,330)	_	_	(9,330)	(1,610)	(1,640)	(1,670)	(1,700)
REQUISITION	(52,264)	(52,264)	(53,150)	-	-	(53,150)	(54,210)	(55,290)	(56,400)	(57,530)
*Percentage Increase over prior year	0.00%	0.00%	1.70%	0.00%	0.00%	1.70%	1.99%	1.99%	2.01%	2.00%
PARTICIPANTS: Sooke AUTHORIZED POSITIONS: Salaried Term	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

1.538 Saanich Peninsula -Stormwater Quality Management Operating Reserve Summary 2021 - 2025 Financial Plan

#### Profile

#### Saanich Peninsula -Stormwater Quality Management

Established by Bylaw No. 4147 to enable CRD services to set aside operating funds to cover cyclical expenditures, unforeseen operating expenses, special one-time operating projects, as well as to mitigate fluctuations in revenue.

#### **Operating Reserve Schedule**

Operating Reserve Schedule	Est. Actual	Budget				
	2020	2021	2022	2023	2024	2025
Projected year end balance						
Beginning Balance	48,986	59,413	51,663	53,880	56,140	58,451
Planned Purchase	-	(7,750)	-	-	-	-
Transfer from Ops Budget	9,684	-	2,217	2,260	2,311	2,360
Interest Income*	743	-	-	-	-	-
Total projected year end balance	59,413	51,663	53,880	56,140	58,451	60,811

\* 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.

**SPWWC 20-04** 



#### REPORT TO SAANICH PENINSULA WASTEWATER COMMISSION MEETING OF THURSDAY, OCTOBER 15, 2020

### <u>SUBJECT</u> Bylaw No. 4372, Transfer of Funds from Development Cost Charges Reserve to Related Capital Reserve

#### **ISSUE SUMMARY**

A bylaw is required to transfer funds from the Saanich Peninsula Wastewater Development Cost Charge (DCC) reserve to its related capital reserve fund.

#### BACKGROUND

The Capital Regional District (CRD) established a combined water and wastewater development cost charges program with the intent of funding growth and capacity related improvements to the CRD Saanich Peninsula water and wastewater systems, initially under, now-repealed, *Bylaw No. 2569, Capital Regional District Sewage Facilities Development Cost Charge Bylaw No 1, 1998* and its current successor, *Bylaw No. 3208, Saanich Peninsula Water and Wastewater Development Cost Charges Bylaw No. 1, 2004.* 

The current Saanich Peninsula Wastewater (SPWW) system was constructed in 1999 and included spare capacity to accommodate future growth. The justification for establishment of the wastewater DCC program was to collect funds from development to pay for the additional capacity and capital cost that was built into the SPWW system. The total value of the additional capacity and capital cost is \$9.205 million.

In July 2018, the Saanich Peninsula Wastewater Commission received a DCC Program Review Report prepared by Kerr Wood Leidal Associates (KWL) which applied updated growth projections to 2037. The result of the report was a DCC rate update, and a DCC capital program covering 2018 to 2037. This capital program totals \$0.73 million and includes a strategic plan update in 2019, a replacement of the Turgoose Pump Station in 2019, and a subsequent DCC update in 2023. KWL recommended that remaining funds left over in the DCC reserve fund be transferred into the SPWW capital reserve fund to pay for the additional capacity and capital cost built into the system.

The SPWWC service has completed its strategic plan update and is finalizing the Turgoose Pump Station replacement project. Combined, these project make up \$0.68 million of the DCC eligible project to 2037. The DCC reserve fund opening balance in 2020 is \$1.5 million. The only project left in the DCC capital program is the DCC update in 2023 estimated at \$50,000. Following the recommendations in the 2018 DCC program review and, consistent with the objective of the DCC initiation, the attached DCC's transfer bylaw (Appendix A) will establish the authority to transfer funds and requires approval by the Inspector of Municipalities.

#### **IMPLICATIONS**

#### Financial Implications

As detailed in the fund continuity schedule below, staff recommend an initial transfer of \$1.7 million to be completed in 2020. Until such time as the capital cost of the additional capacity is covered by DCC fund transfers to capital reserve, staff will put forward additional bylaws to transfer funds as the DCC capital program allows. Without the recommended transfer, the service would have to borrow funds to maintain current capital project spending.

#### Figure 1: Development Cost Charges Reserve Continuity

DCC Portion	Estimate	stimate Budget				
Fund: 1012 Fund Center: 101356	2020	2021	2022	2023	2024	2025
Beginning Balance	1,534,961	35,004	205,004	375,004	545,004	65,004
Planned Capital Expenditure (Based on Capital Plan)	-	-	-	-	(50,000)	-
Transfer OUT - To Capital Reserve	(1,700,000)	-	-	-	(600,000)	(200,000)
Transfer IN - DCC Funding Interest Income	170,000 30,043	170,000	170,000	170,000	170,000	170,000 -
Ending Balance \$	35,004	205,004	375,004	545,004	65,004	35,004

#### RECOMMENDATION

That the Saanich Peninsula Wastewater Commission recommends to the Capital Regional District Board:

- 1. That Bylaw No. 4372 cited as "Saanich Peninsula Water and Wastewater Development Cost Charges Transfer to Capital Reserve Bylaw No. 1, 2020" be introduced and read a first, second, and a third time.
- 2. That Bylaw No. 4372 be referred to the Inspector of Municipalities for review as required by the *Local Government Act* and *Community Charter*.

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

#### ATTACHMENT

Appendix A: Bylaw No. 4372

2

#### CAPITAL REGIONAL DISTRICT

#### **BYLAW NO. 4372**

### A BYLAW TO AUTHORIZE FUND TRANSFERS FROM SAANICH PENISULA WASTEWATER DEVELOPMENT COST CHARGE RESERVE TO THE SAANICH PENISULA WASTEWATER CAPITAL RESERVE

#### WHEREAS:

57

- A. By Supplementary Letters Patent, Division VII dated December 28, 1967, the Capital Regional District was granted 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 then electoral areas of Sooke and Outer Gulf Islands;
- B. Under Bylaw No. 2569, Capital Regional District Sewage Facilities Development Cost Charge Bylaw No 1, 1998, and its successor Bylaw No. 3208, Saanich Peninsula Water and Wastewater Development Cost Charges Bylaw No. 1, 2004, the Regional District imposed development cost charges for the Saanich Peninsula Wastewater System, and under Bylaw No. 2760, Saanich Peninsula Wastewater System Capital Reserve Fund Bylaw No. 1, 2000, established a capital reserve fund to hold the development cost charge monies for wastewater system upgrades and other related capital expenses;
- C. Pursuant to sections 377 and 559 of the *Local Government Act* and section 189 of the *Community Charter*, the Regional District desires to transfer monies to the capital reserve fund.

**NOW THEREFORE**, the Board of the Capital Regional District enacts as follows:

- One million seven hundred thousand dollars (\$1.7 million) shall be transferred from the Saanich Peninsula Wastewater System Development Cost Charge reserve fund established by Saanich Peninsula Water and Wastewater Development Cost Charges Bylaw No. 1, 2004 (Bylaw No. 3208) to the Saanich Peninsula Wastewater System Capital reserve fund established by Saanich Peninsula Wastewater System Capital Reserve Fund Bylaw No. 1, 2000 (Bylaw No. 2760);
- 2. This bylaw may be cited as the "Saanich Peninsula Water and Wastewater Development Cost Charges Transfer to Capital Reserve Bylaw No. 1, 2020".

READ A FIRST TIME THIS		day of	2020
READ A SECOND TIME THIS		day of	2020
READ A THIRD TIME THIS		day of	2020
APPROVED BY THE INSPECTOR OF MUNICIPALITIES THIS	_	day of	2020
ADOPTED THIS		day of	2020