CAPITAL REGIONAL DISTRICT

2021 BUDGET

Saanich Peninsula Water Supply

COMMISSION REVIEW

OCTOBER 2020

Service: 2.610 Saanich Peninsula Water Supply **Committee: Saanich Peninsula Water**

DEFINITION:

To purchase water and to acquire, design, construct, reconstruct, purchase, maintain and operate facilities and to acquire property easements, licences and authorities for the supply of water to Central Saanich, North Saanich, and Sidney, for distribution by the municipalities. Letters Patent, December 22, 1976; revised Sept. 27, 1984. Amended SLP April 27, 1978 and March 19, 1986.

SERVICE DESCRIPTION:

This service provides for the purchase of bulk water for supply to Central Saanich, North Saanich, and Sidney, for distribution within their municipalities. Included in the program is the responsibility to provide design, construction, operation and maintenance, licenses, and water quality monitoring to the service area.

PARTICIPATION:

Central Saanich /North Saanich/ Sidney

MAXIMUM LEVY:

MAXIMUM CAPITAL DEBT:

As established by Inspector of Municipalities.

COMMISSION:

Saanich Peninsula Water Commission established by Letters Patent to advise the Board with respect to this function.

FUNDING:

Water rates and debt cost allocation to be established by bylaw, charged to the individual municipalities.

Bulk Water Rate
To cover 100% of operating costs, billed monthly to each municipality.

Requisition
To cover 100% of debt costs by formula: levy of $0.115 / $1,000 of total hospital assessments for all members plus 1/3 of balance on each of members: number of connections, specified area school assessments and population.

CAPITAL DEBT:

All Bylaws have expired.

CAPITAL REGIONAL DISTRICT

Program Group: CRD-Saanich Peninsula Water Supply

SUMMARY	2020 BOARD BUDGET	2020 ESTIMATED ACTUAL	2021 BUDGET REQUEST: CORE BUDGET	2021 BUDGET REQUEST: ONGOING	2021 BUDGET REQUEST: ONE-TIME	2021 BUDGET REQUEST: TOTAL (COL 4, 5 & 6)	FUTURE PROJECTIONS: 2022	2023	2024	2025
1	2	3	4	5	6	7	8	9	10	11
OPERATING EXPENDITURES:										
ALLOCATION - OPERATIONS	1,041,844	1,091,858	1,059,266	-	-	1,059,266	1,080,104	1,101,360	1,123,041	1,145,157
UTILITIES	214,440	232,040	218,086	-	-	218,086	222,447	226,896	231,434	236,063
OPERATING - OTHER COSTS	169,615	148,315	172,795	-	-	172,795	176,251	179,773	183,359	187,020
ALLOCATION - STANDARD OVERHEAD	93,232	93,232	109,212	-	-	109,212	123,961	126,440	128,969	131,548
TOTAL OPERATING EXPENDITURES	1,519,131	1,565,445	1,559,359	-	-	1,559,359	1,602,763	1,634,469	1,666,803	1,699,788
*Percentage increase over prior year board budget			2.65%			2.65%	2.78%	1.98%	1.98%	1.98%
TOTAL BULK WATER EXPENDITURES	4,738,240	4,738,240	4,860,640	-	-	4,860,640	4,959,920	5,153,040	5,308,080	5,505,280
CAPITAL EXPENDITURES & TRANSFERS										
TRANSFER TO CAPITAL RESERVE FUND	650,000	597,885	700,000	-	-	700,000	750,000	550,000	300,000	250,000
TRANSFER TO EQUIPMENT REPLACEMENT FUND	50,000	50,000	50,000	-	-	50,000	50,000	50,000	50,000	50,000
TOTAL CAPITAL EXPENDITURES & TRANSFERS	700,000	647,885	750,000	-	-	750,000	800,000	600,000	350,000	300,000
DEBT SERVICING										
DEBT-INTEREST & PRINCIPAL	-	-	-	-	-	-	57,800	311,356	691,413	923,664
TOTAL DEBT SERVICING EXPENDITURES	-	-	-	-	-	-	57,800	311,356	691,413	923,664
TOTAL EXPENDITURES	6,957,371	6,951,570	7,169,999	-	-	7,169,999	7,420,483	7,698,865	8,016,296	8,428,732
SOURCES OF FUNDING-OPERATIONS										
REVENUE -WATER SALES	(6,951,571)	(6,951,570)	(7,164,199)	-	-	(7,164,199)	(7,414,683)	(7,693,065)	(8,010,496)	(8,422,932)
REVENUE -OTHER	(5,800)	-	(5,800)	-	-	(5,800)	(5,800)	(5,800)	(5,800)	(5,800)
TOTAL SOURCES OF FUNDING FROM OPERATIONS	(6,957,371)	(6,951,570)	(7,169,999)	-	-	(7,169,999)	(7,420,483)	(7,698,865)	(8,016,296)	(8,428,732)
SOURCES OF FUNDING-REQUISITION										
PROPERTY TAX REQUSITION FOR DEBT	-	-	-	-	-	-	-	-	-	-
TOTAL REQUSITION	-	-	-	-	-	-	-	-	-	-
TRANSFER FROM PRIOR YEAR	-	-	-	-	-	-	-	-	-	-
TRANSFER TO FOLLOWING YEAR										
TOTAL CARRY FORWARD (SURPLUS)/ DEFICIT	-	-	-	-	-	-	-	-	-	-
TOTAL SOURCES OF ALL FUNDING	(6,957,371)	(6,951,570)	(7,169,999)	-	-	(7,169,999)	(7,420,483)	(7,698,865)	(8,016,296)	(8,428,732)
Percentage increase over prior year's board budget			3.06%			3.06%	3.49%	3.75%	4.12%	5.14%

Change in Budget 2020 to 2021 **Service: 2.610 Saanich Peninsula Water Supply**	**Total Expenditure**	**Comments**
2020 Budget	**6,957,371**	
Change in Salaries:		
Change in Labour	17,000	Labour charges (Salaries and overhead, including corpo
Total Change in Salaries	17,000	
Other Changes:		
Bulk Water Purchase	122,400	
Transfers to Capital Reserve	50,000	
Standard Overhead Allocation	15,980	
Other Costs	7,248	
Total Other Changes	195,628	
2021 Budget	**7,169,999**	
% expense increase from 2020:	***3.1%***	
% Requisition increase from 2020 (if applicable):	***n/a***	*Requisition funding is (x)% of service revenue*

Overall 2020 Budget Performance
(expected variance to budget and surplus treatment)

Water sales and revenue are in line with budget for the year. Operating costs are $46,000 (3.0%) over budget due to one time unplanned corrective system maintenance. The transfer to the Capital Reserve Fund will be reduced by the net deficit of $52,000.

SAANICH PENINSULA WATER SUPPLY

2021 Demand Estimate

Retail Demand

Years	Actual Demand cu.metre	Budgeted Demand cu.metre
2016	6,870,557	6,270,000
2017	6,549,588	6,270,000
2018	7,044,786	6,300,000
2019	6,928,173	6,500,000
2020	6,800,000*	6,800,000
2021 Demand Estimate	**6,800,000**	

** Projected consumption for 2020*

SAANICH PENINSULA WATER SUPPLY

Summary of Supply Water Rates to Participating Municipalities

	2017	2018	2019	2020	2021	Change	% change
Retail (direct) water rate							
Sannich Peninsula Retail cost per cu.m.	$0.9111	$0.9621	$0.9815	$1.0223	$1.0536	$0.0313	3.1%
Agricultural Research Station cost per cu.m.	$0.9463	$0.9973	$1.0167	$1.0575	$1.0888	$0.0313	3.0%

Summary of Bulk Water Purchase Rates from Regional Water Supply

	2017	2018	2019	2020	2021	Change	% change
CRD Bulk water purchase cost per cu.m.	$0.6375	$0.6644	$0.6775	$0.6968	$0.7148	$0.0180	2.6%

SAANICH PENINSULA WATER SUPPLY

Summary of Supply Water Rates to Participating Municipalities

	2016	2017	2018	2019	2020	2021	Change	% change
Retail (direct) water rate								
Unit cost per cu.m.	$ 0.9073	$ 0.9111	$ 0.9621	$ 0.9815	$ 1.0223	$ 1.0536	$ 0.0313	3.1%

Retail Water Rate Increase
Impact on Participating Municipalities Water Bill

Average consumption: 235.0 cubic meters

Charge for Twelve Months Consumption	Year	Annual charge	2021 Annual Change $
Average Consumption	2020	$ 240.24	
	2021	$ 247.60	$ 7.36
Half Average Consumption	2020	$ 120.12	
	2021	$ 123.80	$ 3.68
Twice Average Consumption	2020	$ 480.48	
	2021	$ 495.19	$ 14.72

Schedule A
Asset Useful Life Assignments - PSAB

Classes:	Code	Asset Categories	Useful Life, Years
Land	LAND	Land & Rights of Way * (Note 1)	N/A
Building	BLDG	Building, Permanent	50
	BLOT	Building, Temporary/ Portable	20
	BLFX	Building fixture (*sprinklers)*	20
Equipment	BOAT	Boats & Marine Equipment	10
	COMP	Computer Equipment (*includes software*)	5
	ELEC	Electronic Equipment(*hydromet, weather stn eqpt)*	5
	FIRE	Fire & Safety Equipment	10
	GENT	Generator	20
	HYDR	Hydrants and Standpipes	20
	HYDY	Hydrology	10
	MTRS	Meters	20
	OFFE	Office Equipment	5
	OFFF	Office Furniture	10
	SCDA	SCADA Equipment	10
	SCRN	Intake Screens/Membranes *(stop logs)*	20
	SHOP	Shop Equipment	10
	TELE	Telecommunication Eqpt (*radios, phone systems*)	10
	WEQP	Water Works Eqpt(*W.Quality lab, Wshed eqpt)*	10
	NEW GRP	Weather stn & communication tower	15
Vehicle	VEHC	Vehicles	8
Engineering	BRDG	Bridge	50
Structure	CANL	Canal	50
	DAMS	Dam Structures	100
	PIPE	Pipelines, includes Vaults, Kiosks, Valve chambers	75
	PIPF	Pipelines, fittings	20
	PLPV	Parking lot paved	40
	PSEQ	Pump Station Equipment	20
	PSHS	Pump Station Housing	50
	PRVS	Valves, Flushes & PRV's	20
	RDGR	Roads gravel	20
	RDPV	Roads paved	40
	RESS	Reservoirs (steel & concrete)	50
	REST	Reservoirs (tower/tank)	35
	TANK	Storage tank	40
	TELP	Telephone and Power Lines	50
	TUNN	Tunnel, Culvert and Diversions	50
	WATP	Water Treatment Plant	25
	WELL	Wet well/ Well	50
Other Assets	CSTU	Capital Management Studies	5
	FENC	Fences	15
	LIMP	Land & Yard Improvements	20

Note 1: Land is not depreciated so a useful life assignment is not applicable

CAPITAL REGIONAL DISTRICT

FIVE YEAR CAPITAL EXPENDITURE PLAN SUMMARY - 2021 to 2025

Service No.	2.610 Saanich Peninsula Water Supply	Carry Forward from 2020	2021	2022	2023	2024	2025	TOTAL
EXPENDITURE								
Buildings	B	$0	$0	$0	$0	$0	$0	$0
Equipment	E	$0	$75,000	$0	$0	$0	$0	$75,000
Land	L	$0	$0	$0	$0	$0	$0	$0
Engineered Structures	S	$805,000	$4,683,000	$6,754,000	$11,270,000	$7,720,000	$1,324,500	$31,751,500
Vehicles	V	$0	$0	$0	$0	$0	$0	$0
		$805,000	**$4,758,000**	**$6,754,000**	**$11,270,000**	**$7,720,000**	**$1,324,500**	**$31,826,500**
SOURCE OF FUNDS								
Capital Funds on Hand	Cap	$0	$0	$0	$0	$0	$0	$0
Debenture Debt (New Debt Only)	Debt	$0	$0	$2,550,000	$5,550,000	$4,500,000	$300,000	$12,900,000
Equipment Replacement Fund	ERF	$0	$60,000	$60,000	$60,000	$60,000	$60,000	$300,000
Grants (Federal, Provincial)	Grant	$0	$1,200,000	$3,450,000	$5,450,000	$3,000,000	$200,000	$13,300,000
Donations / Third Party Funding	Other	$0	$0	$0	$0	$0	$0	$0
Reserve Fund	Res	$805,000	$3,498,000	$694,000	$210,000	$160,000	$764,500	$5,326,500
		$805,000	**$4,758,000**	**$6,754,000**	**$11,270,000**	**$7,720,000**	**$1,324,500**	**$31,826,500**

CAPITAL REGIONAL DISTRICT CAPITAL PLAN

CAPITAL BUDGET FORM
2021 & Forecast 2022 to 2025

Service #: 2.610

Service Name: Saanich Peninsula Water Supply

Proj. No.
The first two digits represent first year the project was in the capital plan.

Capital Exp. Type
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

Funding Source Codes
Debt = Debenture Debt (new debt only)
ERF = Equipment Replacement Fund
Grant = Grants (Federal, Provincial)
Cap = Capital Funds on Hand
Other = Donations / Third Party Funding

Funding Source Codes (con't)
Res = Reserve Fund
STLoan = Short Term Loans
WU - Water Utility

Asset Class
L - Land
S - Engineering Structure
B - Buildings
V - Vehicles
E - Equipment

Capital Project Title
Input Title of Project. For example "Asset Name - Roof Replacement", "Main Water Pipe Replacement".

Capital Project Description
Briefly describe project scope and service benefits.
For example: *"Full Roof Replacement of a 40 year old roof above the swimming pool area; The new roofing system is built current energy standards, designed to minimize maintenance and have an expected service life of 35 years".*

Total Project Budget
This column represents the total project budget not only within the 5-year window.

FIVE YEAR FINANCIAL 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
SYSTEM UPGRADES AND REPLACEMENTS													
Planning													
19-02	New	Asset Management Plan Update	Update the asset management plan with recent study information (post disaster emergency water supply, Elk Lake Main Removals, …)	$100,000	S	Res	$0	$50,000	$0	$0	$0	$0	$50,000
Capital													
17-01	New	Reservoir Seismic Isolation Valves	Assessment, design and installation of seismic isolation valves at 7 of the reservoirs, and installation of restrained hydrants at reservoirs where possible.	$500,000	S	Res	$290,000	$290,000	$0	$0	$0	$0	$290,000
18-02	New	Site Security Assessment & Improvements	Assess the security of facilties and make improvements for the public and operators	$215,000	S	Res	$185,000	$185,000	$0	$0	$0	$0	$185,000
18-04	New	Post Disaster Emergency Water Supply	Identify and procure emergency systems for post disaster preparedeness	$1,050,000	S	Res	$0	$150,000	$150,000	$150,000	$150,000	**$150,000**	$750,000
19-01	Renewal	Corrosion Protection Program	Carry out an investigation and monitoring program in conjunction with other services to prevent infrastructure failure due to corrosion	**$110,000**	S	Res	$0	$10,000	$10,000	$10,000	$10,000	**$10,000**	$50,000
20-02	New	Hamsterly Pump Station Backup Power Generator	Addition of a backup power generator at the Hamsterly Pump Station	$335,000	S	Res	$285,000	$285,000	$0	$0	$0	$0	$285,000
21-01	New	Level of Service Agreement	Determine and develop appropriate level of service agreements with the participating municipalities for water supply.	$75,000	E	Res	$0	$75,000	$0	$0	$0	$0	$75,000
21-02	**Renewal**	**Stewart's Well Decommissioning**	**Decommission the well, and demolish the structures.**	**$175,000**	**S**	**Res**	$0	**$75,000**	**$100,000**	$0	$0	$0	**$175,000**
21-03	**Renewal**	**Upper Dean Reservoir Roof Replacement**	**Replace the roof membrane due to leaks.**	**$400,000**	**S**	**Res**	$0	**$400,000**	$0	$0	$0	$0	**$400,000**
21-04	**Renewal**	**SCADA Upgrades**	**SCADA upgrades and planning in conjunction with the Juan de Fuca Water Distribution, Saanich Peninsula Water and Wastewater, and Core Area Wastewater Services.**	**$350,000**	**S**	**Res**	$0	**$100,000**	**$250,000**	$0	$0	$0	**$350,000**

21-05	**Renewal**	**SPW System Upgrade and Expansion**	**Upgrade vulnerable sections of the SPW system to a resilient system better able to withstand a seismic event, and extend sections of the system to have dual feed redundancy. Vulnerable sections are cement pipe material which are susceptible to failure during a seismic event. This is part of a grant funded project in partner with the RWS system.**	**$14,700,000**	**S**	**Res**	$0	**$1,800,000**	**$0**	**$0**	**$0**	**$0**	**$1,800,000**
21-05	**Renewal**	**SPW System Upgrade and Expansion**	**Upgrade vulnerable sections of the SPW system to a resilient system better able to withstand a seismic event, and extend sections of the system to have dual feed redundancy. Vulnerable sections are cement pipe material which are susceptible to failure during a seismic event. This is part of a grant funded project in partner with the RWS system.**		**S**	**Debt**	$0	**$0**	**$2,550,000**	**$5,550,000**	**$4,500,000**	**$300,000**	**$12,900,000**
21-05	**Renewal**	**SPW System Upgrade and Expansion**	**Upgrade vulnerable sections of the SPW system to a resilient system better able to withstand a seismic event, and extend sections of the system to have dual feed redundancy. Vulnerable sections are cement pipe material which are susceptible to failure during a seismic event. This is part of a grant funded project in partner with the RWS system.**	**$13,300,000**	**S**	**Grant**	$0	**$1,200,000**	**$3,450,000**	**$5,450,000**	**$3,000,000**	**$200,000**	**$13,300,000**
21-06	**Renewal**	**Voice Radio Replacement**	**Replacement of the aging voice radio system with the Core Area, RWS, JDF and Saanich Peninsula Wastewater systems.**	**$67,000**	**S**	**Res**	$0	**$33,000**	**$34,000**	$0	$0	$0	**$67,000**
25-01	**New**	**Hamsterly Pump Station Capacity Upgrade**	**Increase the capacity of the Hamsterly Pump Station to address increased water demand. This is the service's contribution to the DCC project.**	**$6,500**	**S**	**Res**	$0	$0	$0	$0	$0	**$6,500**	**$6,500**
Sub-Total System Upgrades and Replacements				**$31,383,500**			**$760,000**	**$4,653,000**	**$6,544,000**	**$11,160,000**	**$7,660,000**	**$666,500**	**$30,683,500**
ANNUAL PROVISIONAL ITEMS													
17-02	Renewal	Provisional Equipment Replacements	Funds to conduct emergency and unplanned repairs outside of normal Operations.	**$300,000**	S	ERF	$0	**$60,000**	**$60,000**	**$60,000**	**$60,000**	**$60,000**	$300,000
DEVELOPMENT COST CHARGE (DCC) PROGRAM													
20-02	New	Hamsterly Pump Station Backup Power Generator	Addition of a backup power generator at the Hamsterly Pump Station	$95,000	S	Res	$45,000	$45,000	$0	$0	$0	$0	$45,000
22-01	New	Water Strategic Plan Update	Update the strategic plan to inform future works and identify hydraulic deficiencies.	$150,000	S	Res	$0	$0	$150,000	$0	$0	$0	$150,000
23-01	New	DCC Program Update	5-year update of the DCC program.	$50,000	S	Res	$0	$0	$0	$50,000	$0	$0	$50,000
25-01	**New**	**Hamsterly Pump Station Capacity Upgrade**	**Increase the capacity of the Hamsterly Pump Station to address increased water demand.**	**$598,000**	**S**	**Res**	$0	$0	$0	$0	$0	**$598,000**	$598,000
Sub-Total Development Cost Charge (DCC) Program				**$893,000**			**$45,000**	**$45,000**	**$150,000**	**$50,000**	**$0**	**$598,000**	**$843,000**
			GRAND TOTAL	**$32,576,500**			**$805,000**	**$4,758,000**	**$6,754,000**	**$11,270,000**	**$7,720,000**	**$1,324,500**	**$31,826,500**

Service: 2.610 **Saanich Peninsula Water Supply**

Proj. No.	19-02	**Capital Project Title**	Asset Management Plan Update	**Capital Project Description**	Update the asset management plan with recent study information (post disaster emergency water supply, Elk Lake Main Removals, …)
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*Update the strategic asset management plan based upon recent studies such as the DCC Program Update, Post Disaster Response Plan, and Site Security Assessment. The update will inform future capital works.*				

Proj. No.	17-01	**Capital Project Title**	Reservoir Seismic Isolation Valves	**Capital Project Description**	Assessment, design and installation of seismic isolation valves at 7 of the reservoirs, and installation of restrained hydrants at reservoirs where possible.
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*The Commission has indicated a desire to include seismic valves on each of the 8 Sannich Peninsula Water System reservoirs. At present, the Dean Park Middle Reservoir is the only reservoir equipped with a seismic valve In summary a seismic valve is simple actuated system to shut the outlet valve(s) automatically if a seismic event (of a specific magnitude) is experienced. Each site is unique and installation complexity and associated costs will vary. The first task in this project will be to further define the proposed solution and budget for each site. The resulting detailed project will be reviewed in conjuction with the Strategic Asset Management Plan for the system to confirm affordability and value prior to initiating construction works.*				

Proj. No.	18-02	**Capital Project Title**	Site Security Assessment & Improvements	**Capital Project Description**	Assess the security of facilties and make improvements for the public and operators
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*The Saanich Peninsula Water system is comprised of various pump stations, pressure control stations, meter facilities and storage tanks. The facilities have varying levels of security with no consistent intent. A site security assessment is proposed to secure all facilities so that operators can safely maintain the sites and keep the public and infrastructure safe. Funding is required to assess all facilities and conduct improvements to secure them.*				

Service: 2.610 Saanich Peninsula Water Supply

Proj. No.	18-04	**Capital Project Title**	Post Disaster Emergency Water Supply	**Capital Project Description**	Identify and procure emergency systems for post disaster preparedeness
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*In the event of a disaster, it is proposed to have in place the ability to source, treat (if required) and distribute drinking water during the initial and sustained response and recovery phases to the public. This item will see the study of the issue in 2017 and 2018 with the anticipated purchase of one or more emergency distribution systems in 2018 and beyond.Initial investigation has highlighted areas, such as having hardened hydrants/standpipes that the CRD should be investing in. Additional funds are required to start implementing these additional works.*				

Proj. No.	19-01	**Capital Project Title**	Corrosion Protection Program	**Capital Project Description**	Carry out an investigation and monitoring program in conjunction with other services to prevent infrastructure failure due to corrosion
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*The Saanich Peninsula Water System comprises of many material types including steel. An investigation and monitoring program will be developed to prevent infrastructure failure due to corrosion. Funds are required to retain a qualified corrosion specialist to assess and aid in developing a monitoring program.*				

Proj. No.	20-01	**Capital Project Title**	#N/A	**Capital Project Description**	#N/A
Asset Class	#N/A	**Board Priority Area**	#N/A	**Corporate Priority Area**	#N/A
Project Rationale	*Staff produced the 2018 Elk Lake Main Decommissioning Study to highlight regions of the abandoned main requiring capital works to reduce risk to public safety if the abandoned infrastructure failed. Funds are required to demolish or properly decommission abandoned and unused infrastructure.*				

Proj. No.	20-03	**Capital Project Title**	#N/A	**Capital Project Description**	#N/A
Asset Class	#N/A	**Board Priority Area**	#N/A	**Corporate Priority Area**	#N/A
Project Rationale	*KWL carried out a water audit of the Saanich Peninsula Water system in 2017 and recommended that the meters be replaced at the Lochside PRV, Martindale meter station and Tsawout meter station. Funds are required to replace the meters and complete any associated upgrades at the stations.*				

Service: 2.610 Saanich Peninsula Water Supply

Proj. No.	21-01	**Capital Project Title**	Level of Service Agreement	**Capital Project Description**	Determine and develop appropriate level of service agreements with the participating municipalities for water
Asset Class	E	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*The SPW Service has numerous transfer points with the participating municipalities. Funding is required to determine the pressure and flow at transfer points with the participating municipalities for water suppply.*				

Proj. No.	17-02	**Capital Project Title**	Provisional Equipment Replacements	**Capital Project Description**	Funds to conduct emergency and unplanned repairs outside of normal Operations.
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*Replace various system equipment that may fail during the year that is not specifically identified and funded through the operating and capital budgets.*				

Proj. No.	20-02	**Capital Project Title**	Hamsterly Pump Station Backup Power Generator	**Capital Project Description**	Addition of a backup power generator at the Hamsterly Pump Station
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*From the 2018 DCC Update, KWL identified that the addition of backup power at the Hamsterly Pump Station. Funds are required to design and construct backup power for the Hamsterly Pump Station.*				

Proj. No.	22-01	**Capital Project Title**	Water Strategic Plan Update	**Capital Project Description**	Update the strategic plan to inform future works and identify hydraulic deficiencies.
Asset Class	S	**Board Priority Area**	0	**Corporate Priority Area**	0
Project Rationale	*A water distribution system changes with development demand. A periodic update of the strategic plan to identify hydraulic deficiencies and inform future works is periodically required to ensure the level of service.*				

2.610 Saanich Peninsula Water
Summary Schedule
2021 - 2025 Financial Plan

Asset Profile

Saanich Peninsula Water

One of the 16 CRD drinking water systems across the region, Saanich Peninsula Water Supply obtains treated drinking water from the Regional Water Supply System and is responsible for the bulk trunk water supply systems for Central Saanich, Sidney & North Saanich. Assets include land, 46 kilometres of water supply mains, nine balancing reservoirs, nine pumping stations, two pressure reducing stations, nine supply meters and two rechlorination stations.

Reserve/Fund Summary

	Actual	Estimated	Budget				
	2019	2020	2021	2022	2023	2024	2025
DCC Reserve Account	2,092,293	2,091,494	2,091,494	1,941,494	1,891,494	1,891,494	1,293,494
Equipment Replacement Fund	1,751,473	1,771,473	1,771,473	1,771,473	1,771,473	1,771,473	1,771,473
Capital Reserve	5,552,657	5,472,657	3,479,657	3,685,657	4,075,657	4,215,657	4,299,157
Total	**9,396,423**	**9,335,624**	**7,342,624**	**7,398,624**	**7,738,624**	**7,878,624**	**7,364,124**

2.610 Saanich Peninsula Water
Development Cost Charges
2021 - 2025 Financial Plan

Development Cost Charges Reserve Schedule

Reserve Fund: Saanich Peninsula Water Development Cost Charges (Bylaw # 3208)

Fund: 1009 Fund Center: 101353- DCC Water System only	Actual	Estimated	Budget				
	2019	2020	2021	2022	2023	2024	2025
Beginning Balance	1,996,923	2,092,293	2,091,494	2,091,494	1,941,494	1,891,494	1,891,494
Transfers to Reserve							
Transfers from Reserve based on DCC-capital plan	-	(95,000)	-	(150,000)	(50,000)	-	(598,000)
DCC's received from Member Municipalities	69,201	69,201					
Interest Income*	26,169	25,000					
Ending Balance $	**2,092,293**	**2,091,494**	**2,091,494**	**1,941,494**	**1,891,494**	**1,891,494**	**1,293,494**

General Comments:
Saanich Peninsula Water Development Cost Charges (DCC's) was adopted in 2005 for the purpose of providing funds to assist with the capital costs of providing, constructing, altering or expanding the Districts water & wastewater systems that services the Member Municipalites.

The above cash flow only reflects DCC Reserve information for Water System only (Wastewater's information will be provided in the Wastewater budgets). These Reserve funds are received from member municipalities as Development Cost Charges (DCC's) to provide for the capital costs of water capacity system improvements within the service areas.

In December 2018 the bylaw was ammended to remove Develoment Cost Charges on new projects to recognize that the fund's balance exceeded the total of current development 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.

2.610 Saanich Peninsula Water
Equipment Replacement Reserve Schedule
2021 - 2025 Financial Plan

Equipment Replacement Reserve Schedule

Reserve Fund: Saanich Peninsula Water-Equipment Replacement Reserve (covered by CRD-ERF Bylaw)

Fund: 1022 Fund Center: 101452	Actual	Estimated	Budget				
	2019	2020	2021	2022	2023	2024	2025
Beginning Balance	1,733,094	1,751,473	1,771,473	1,771,473	1,771,473	1,771,473	1,771,473
Equipment purchases (Based on Capital Plan)	(54,176)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)
Transfer from Operating Budget	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Interest Income*	22,555	20,000					
Ending Balance $	**1,751,473**	**1,771,473**	**1,771,473**	**1,771,473**	**1,771,473**	**1,771,473**	**1,771,473**

General Comments: The fund is used to replace water system infrastructure throughout the system as failing components are identified and not funded through operating budgets.

* 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.

2.610 Saanich Peninsula Water
Capital Reserve Fund
2021 - 2025 Financial Plan

Capital Reserve Fund Schedule

Reserve Fund: Saanich Peninsula Water Capital Reserve Fund (Bylaw #1397)

Fund: 1009 Fund Center: 102159	Actual	Estimated	Budget				
	2019	2020	2021	2022	2023	2024	2025
Beginning Balance	5,129,591	5,552,657	5,472,657	3,479,657	3,685,657	4,075,657	4,215,657
Transfers from Reserve based on capital plan	(455,000)	(780,000)	(2,693,000)	(544,000)	(160,000)	(160,000)	(166,500)
Transfer from Operating Budget	825,627	650,000	700,000	750,000	550,000	300,000	250,000
Interest Income*	52,440	50,000					
Ending Balance $	**5,552,657**	**5,472,657**	**3,479,657**	**3,685,657**	**4,075,657**	**4,215,657**	**4,299,157**

General Comments:
Saanich Peninsula Water Capital Reserve Fund was adopted in 1985 for the purpose of capital payments including planning, engineering and legal costs for providing, latering or expanding water system infrastructure related to the Saanich Peninsula Water Supply System.

The fund is used for the purpose of funding the Service Capital infrastructure related directly or indirectly to water facilities, (excluding DCC) capital expenditures.

* 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.