Sanitary Sewer Utility Section

Description and Level of Service

- Operate and maintain sanitary sewer infrastructure including: video inspection, main flushing, and manholes/structures cleaning
- Repair mains and connections identified through inspections/flushing programs
- Operate and maintain lift stations including mechanical and electrical controls and telemetry communications systems
- Install new services for residential, institutional and commercial customers

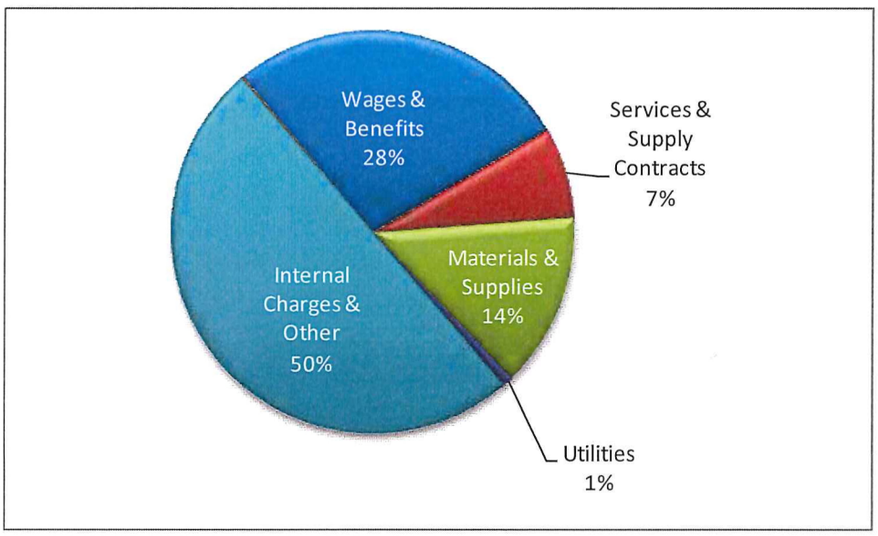
Sanitary sewer treatment is provided by the Regional District of Nanaimo (RDN). The RDN's annual requisition includes a levy to cover the costs of sanitary sewer treatment.

Annual Operating Expenditures and Revenues

Net revenues are transferred to sanitary sewer utility reserves. Sanitary sewer infrastructure renewal is funded from reserves. Internal charges include an allocation of administration and engineering services expenditures that benefit delivery of sanitary sewer services.

Annual Operating Expenditures by Type

	2015 Actual	2016 Budget	2017 Budget	2018 Budget	2019 Budget	2020 Budget	2021 Budget
EXPENDITURE SUMMARY ($)							
Wages & Benefits	$ 907,328	$ 920,903	$ 936,900	$ 955,638	$ 974,751	$ 994,246	$ 1,014,128
Services & Supply Contracts	214,534	236,164	243,413	248,282	253,244	258,307	263,475
Materials & Supplies	412,670	478,129	474,097	491,643	509,946	529,042	548,969
Utilities	25,727	32,120	27,982	28,542	29,113	29,695	30,290
Internal Charges & Other	1,577,004	1,683,427	1,695,104	1,667,746	1,701,040	1,735,001	1,769,640
Grants & Subsidies	3,450	4,000	4,000	4,080	4,162	4,245	4,330
Total Expenditures	3,140,712	3,354,743	3,381,496	3,395,931	3,472,256	3,550,536	3,630,832
Revenues Generated	5,876,838	6,318,650	6,701,996	7,036,948	7,388,754	7,761,054	8,153,873
Net Operating Revenues	**$ 2,736,126**	**$ 2,963,907**	**$ 3,320,500**	**$ 3,641,017**	**$ 3,916,498**	**$ 4,210,518**	**$ 4,523,041**
Staffing (FTEs)	8.8	9.8	9.8	9.8	9.8	9.8	9.8



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SAN_SEWER_REVENUE
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	COST CENTRE ROLL-UP	CPMS	PROJECT CLASS	2017	2018	2019	2020	2021	TOTAL	General Revenue	Grants	Statutory Reserves	Reserves	Borrowing	Priv Contr & Other	TOTAL
Sanitary Sewer Operations																
80000 Sanitary Sewer Ops Maintenance Equipment	1665			18,800	19,500	19,500	10,000	10,000	77,800	-	-	-	77,800	-	-	77,800
80004 Sanitary Sewer Studies	1663			75,000	50,000	50,000	50,000	50,000	275,000	-	-	-	275,000	-	-	275,000
80005 Sewer Infrastructure Monitoring and Model Calibratio	1664			85,000	110,000	85,000	110,000	85,000	475,000	-	-	-	475,000	-	-	475,000
80006 Sewer Infra Condition Assessment Program	1664			400,000	400,000	400,000	400,000	400,000	2,000,000	-	-	-	2,000,000	-	-	2,000,000
80021 Sanitary Sewer: Road Rehab	1665			100,000	100,000	100,000	100,000	100,000	500,000	-	-	-	500,000	-	-	500,000
80025 Harewood Wyes Program	1665			35,000	35,000	35,000	35,000	35,000	175,000	-	-	-	175,000	-	-	175,000
80026 I & I Mains Program	1665			52,500	52,500	52,500	52,500	52,500	262,500	-	-	-	262,500	-	-	262,500
80027 I & I Services Program	1665			52,500	52,500	52,500	52,500	52,500	262,500	-	-	-	262,500	-	-	262,500
80028 I & I Manholes Program	1665			35,000	35,000	35,000	35,000	35,000	175,000	-	-	-	175,000	-	-	175,000
80037 Emeral Area Utility & RHB Project	1665	2371		-	30,000	-	-	-	30,000	-	-	-	30,000	-	-	30,000
80038 Nova SS: Stirling to Jordan	1665	2368		46,000	-	-	-	-	46,000	-	-	-	46,000	-	-	46,000
80039 Section 6 MoESS Review	1663			40,000	-	-	-	-	40,000	-	-	-	40,000	-	-	40,000
80043 Westwood SS: MH6282 to PRL 238	1665	1796		-	-	38,000	-	-	38,000	-	-	-	38,000	-	-	38,000
Sub-Total				939,800	884,500	867,500	845,000	820,000	4,356,800	-	-	-	4,356,800	-	-	4,356,800
Sanitary Sewer Revenue Fund Capital																
P_6103 Sanitary Infrastructure				200,000	200,000	200,000	200,000	200,000	1,000,000	-	-	-	1,000,000	-	-	1,000,000
P_6105 Sanitary Sewer Designs				60,000	60,000	60,000	60,000	60,000	300,000	-	-	-	300,000	-	-	300,000
P_6107 Sanitary Sewer Main Replacement Program				-	-	513,000	161,752	453,646	1,128,398	-	-	1,128,398	-	-	-	1,128,398
P_6149 DCC SS19: Millstone - Buttertubs Easement		825		200,000	140,000	2,000,000	1,400,000	-	3,740,000	-	-	204,000	1,496,000	2,040,000	-	3,740,000
P_6171 DCC SS44: HB Rd - McGirr/Kenwill/Turner/Kenning		1482		-	-	-	-	140,000	140,000	-	-	140,000	-	-	-	140,000
P_6174 Boxwood Connector & Utility Project		755		-	-	37,500	-	685,000	722,500	-	-	722,500	-	-	-	722,500
P_6180 Thunderbird Area Utility Upgrade		1703		-	-	-	50,000	-	50,000	-	-	50,000	-	-	-	50,000
P_6181 Loudon Park Shoreline SS		1504		180,000	-	-	-	-	180,000	-	-	-	180,000	-	-	180,000
P_6183 Lambert Ave Utility Upgrade		1599		-	553,000	-	-	-	553,000	-	-	-	553,000	-	-	553,000
P_6189 Rosstown Lane: 2278 to 2302 Rosstown SS		1603		90,000	-	-	-	-	90,000	-	-	-	90,000	-	-	90,000
P_6190 Poplar St Utility Upgrade		1440		87,000	-	-	-	-	87,000	-	-	-	87,000	-	-	87,000
P_6191 DCC SS45 Chase River Trunk SS		2282		-	4,515,000	100,000	-	-	4,615,000	-	-	499,750	1,615,250	2,500,000	-	4,615,000
P_6195 Bartlett & Venlaw Area Utility Upgrade		1933		-	25,000	-	263,500	-	288,500	-	-	-	288,500	-	-	288,500
P_6196 Island Hwy SS: west end of CC Mall		1665		30,000	-	300,000	-	-	330,000	-	-	-	330,000	-	-	330,000
P_6197 Shammys Pl SS: Pipe #502559		1484		60,000	-	-	-	-	60,000	-	-	-	60,000	-	-	60,000
P_6199 Park Ave SS: 6th St to 740 Park		1554		60,000	-	600,000	-	-	660,000	-	-	-	660,000	-	-	660,000
P_6200 Third St SS: 421 Third St to Fitzwilliam		1736		20,000	-	200,000	-	-	220,000	-	-	-	220,000	-	-	220,000
P_6201 Howard Ave Utility Upgrade		1899		30,000	-	280,000	-	-	310,000	-	-	-	310,000	-	-	310,000
P_6202 Dufferin Cres SW & Utility Upgrade		1944		-	32,000	-	314,500	-	346,500	-	-	-	346,500	-	-	346,500
P_6204 DCC SS47 Millstone Trunk SS		837		-	-	-	27,000	-	27,000	-	-	4,300	2,700	20,000	-	27,000
P_6212 Rock City Esmt 2874 RW SS: Sandra to 3326 Roc		1452		250,000	-	-	-	-	250,000	-	-	-	250,000	-	-	250,000
P_6215 DCC Sanitary Sewer Unspecified Projects				100,000	-	-	-	-	100,000	-	-	100,000	-	-	-	100,000
P_6217 Terminal Ave South Utility Project		1731		1,014,054	-	-	-	-	1,014,054	-	-	1,014,054	-	-	-	1,014,054
P_6219 Terminal Trench & Utility Upgrade		2117		40,000	-	-	375,000	-	415,000	-	-	-	415,000	-	-	415,000
P_6220 Sanitary Sewer: Equipment				11,600	10,000	-	-	90,000	111,600	-	-	-	111,600	-	-	111,600
P_6222 College Dr Area WM Twinning		2127		-	50,000	-	-	-	50,000	-	-	-	50,000	-	-	50,000
P_6223 Departure Bay Area Utility Project		904		375,000	-	-	-	-	375,000	-	-	-	375,000	-	-	375,000
P_6224 Millstone & Begbie Area SS		2259		-	-	-	188,350	-	188,350	-	-	-	188,350	-	-	188,350
P_6225 Rosehill & Millstone Area SS		1962		-	-	-	207,000	-	207,000	-	-	-	207,000	-	-	207,000
P_6226 White St Area SS		1966		-	20,000	-	379,000	-	399,000	-	-	-	399,000	-	-	399,000
P_6227 Pearson Bridge SS: along river bank		1600		60,000	-	600,000	-	-	660,000	-	-	660,000	-	-	-	660,000
P_6228 First Area San & RHB Project		2307		-	-	60,000	-	-	60,000	-	-	-	60,000	-	-	60,000
P_6230 Fairbrook Esmt SS: MH 1874 to MH 1871		2328		-	-	-	25,000	-	25,000	-	-	-	25,000	-	-	25,000
P_6231 Glenayr San & Rhb: Argyle to Loat		971		-	34,000	-	340,000	-	374,000	-	-	-	374,000	-	-	374,000
P_6232 Strongitharme Esmt 1628RW SS		2114		-	50,000	-	500,000	-	550,000	-	-	550,000	-	-	-	550,000
P_6233 Haliday Cr Utility Upgrade		2279		-	-	50,000	-	489,600	539,600	-	-	539,600	-	-	-	539,600
P_6234 Bowen Rd SS: Bowen Rd Esmt to Girvin		2250		-	-	-	-	155,000	155,000	-	-	-	155,000	-	-	155,000
P_6236 FDCC Nova Esmt & Street		2034		-	183,000	-	-	-	183,000	-	-	-	183,000	-	-	183,000
P_6237 Hammond Bay Rd at Ivy Lane Utilities		2256		88,000	-	-	-	-	88,000	-	-	-	88,000	-	-	88,000
P_6238 Adby SS: 3286 Adby to Departure Bay		2273		30,000	-	296,000	-	-	326,000	-	-	-	326,000	-	-	326,000
P_6239 Hillside Ave WM & San Utility Project		541		-	-	-	140,000	-	140,000	-	-	-	140,000	-	-	140,000

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	COST CENTRE ROLL-UP	CPMS	PROJECT CLASS	2017	2018	2019	2020	2021	TOTAL	General Revenue	Grants	Statutory Reserves	Reserves	Borrowing	Priv Contr & Other	TOTAL
P_6241 DCC SS18: Millstone Trunk Central		824		-	-	-	165,000	-	165,000	-	-	250	24,750	140,000	-	165,000
P_6242 FDCC Big Bear: Noye to Godfrey		1929		-	-	-	35,000	-	35,000	-	-	-	35,000	-	-	35,000
P_6243 FDCC Bradley & Mt Benson Area		1731		510,821	-	-	-	-	510,821	-	-	-	510,821	-	-	510,821
P_6244 FDCC Chase River PS & Forcemain		2034		-	242,000	-	-	-	242,000	-	-	-	242,000	-	-	242,000
P_6245 FDCC Seventh & Brookfield Area		1851		-	136,000	38,000	-	380,000	554,000	-	-	-	554,000	-	-	554,000
P_6246 FDCC Sixth St: Nanaimo Lakes to Bruce		2060		35,000	402,000	294,000	671,000	-	1,402,000	-	-	-	1,402,000	-	-	1,402,000
P_6247 FDCC Fillinger Cr		1413		75,000	1,450,000	-	-	-	1,525,000	-	-	-	1,525,000	-	-	1,525,000
P_6248 FDCC Seventh & Park Area		1737		-	400,000	-	-	-	400,000	-	-	-	400,000	-	-	400,000
P_6251 DCC SS46 Richard Lake Trunk Sewer		2282		45,000	-	450,000	-	-	495,000	-	-	45,000	-	450,000	-	495,000
P_6252 FDCC Westdale: Westdale Esmt to HB		1505		258,000	-	-	-	-	258,000	-	-	-	258,000	-	-	258,000
P_6253 Bruce Ave Utilities RHB and CYC Project		2364		-	145,000	-	-	-	145,000	-	-	-	145,000	-	-	145,000
Sub-Total				**3,909,475**	**8,647,000**	**6,078,500**	**5,502,102**	**2,653,246**	**26,790,323**	**-**	**-**	**5,657,852**	**15,982,471**	**5,150,000**	**-**	**26,790,323**
Grand Total				**4,849,275**	**9,531,500**	**6,946,000**	**6,347,102**	**3,473,246**	**31,147,123**	**-**	**-**	**5,657,852**	**20,339,271**	**5,150,000**	**-**	**31,147,123**