

CAPITAL PLAN - Utilities

\$15,259,000

Amount directly funded by rates

\$3,968,060

How the Utility Capital Plan is deployed:

Master Plan Projects

\$5,905,100

Amount directly funded by rates

\$1,100,000

Municipal Services Projects

\$9,353,900

Amount directly funded by rates

\$2,868,060

GROWTH (Incl. DCC)

\$5,475,200

Amount funded by rates

\$85,610

FACILITIES UPGRADES

\$761,200

Amount funded by rates

\$165,000

INFRASTRUCTURE UPGRADES & REPLACEMENTS

\$2,682,000

Amount funded by rates

\$2,538,450

EQUIPMENT UPGRADES & REPLACEMENT

\$435,500

Amount funded by rates

\$79,000

DISTRICT OF SQUAMISH 2019-2023 FINANCIAL PLAN															
UTILITY CAPITAL PROJECTS															
COST									2019 FUNDING						
Ref #	Category	Project Name	2019	2020	2021	2022	2023	TOTAL COST	GRANTS	RESERVES	DCC	DEBT	ACC. SURPLUS	2019 RATES	2019 TOTAL
1	Master Plan	Annual Watermain Replacement	1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	5,500,000	-	-	-	-	-	1,100,000	1,100,000
Cfwd	Master Plan	Capital Eng - Priority Watermain Annual Replacement	332,700	-	-	-	-	332,700	-	-	-	-	332,700	-	332,700
2	Master Plan	Water Meter Installations	1,000,000	1,000,000	-	-	-	2,000,000	-	-	-	1,000,000	-	-	1,000,000
3	Master Plan	Landfill Vertical Expansion	3,139,200	-	-	-	-	3,139,200	-	-	-	3,139,200	-	-	3,139,200
4	Master Plan	Landfill Gas Capture and Flare	100,000	1,250,000	-	-	-	1,350,000	-	-	-	100,000	-	-	100,000
Cfwd	Master Plan	Capital Eng - Waste Water Annual Main Replacement	233,200	-	-	-	-	233,200	-	-	-	-	233,200	-	233,200
5	Growth	DCC W15 - New Reservoir	270,500	3,069,000	-	-	-	3,339,500	-	-	214,210	-	56,290	-	270,500
6	Growth	DCC W11a - Decommission Logger's Lane and High School PRV	86,000	-	-	-	-	86,000	-	-	85,140	-	-	860	86,000
7	Growth	Automated Non-Potable Bulk Fill Station at Hendrickson Fields	30,000	-	-	-	-	30,000	-	-	-	-	-	30,000	30,000
8	Growth	DCC S2 - WWTP - Upsize for Future Growth	1,641,600	3,780,000	1,770,000	-	-	7,191,600	-	-	1,045,120	-	596,480	-	1,641,600
9	Growth	New Ford F250 for Wastewater Collections - Growth	46,000	-	-	-	-	46,000	-	-	-	-	-	46,000	46,000
	Growth	Oceanfront - DCC S22 - 450mm diameter Vancouver Street Collector Sewer	963,800	-	-	-	-	963,800	-	-	954,200	-	7,100	2,500	963,800
	Growth	Oceanfront - DCC W16 - Peninsula Watermain Connection - Galbraith Avenue	561,000	-	-	-	-	561,000	-	-	555,400	-	4,600	1,000	561,000
	Growth	Oceanfront - DCC W17 - Peninsula Watermain Connection - Cattermole Creek	1,040,000	-	-	-	-	1,040,000	-	-	1,029,450	-	7,000	3,550	1,040,000
	Growth	Oceanfront - DCC W19 Peninsula Road B Watermain	597,800	-	-	-	-	597,800	-	-	591,800	-	4,300	1,700	597,800
Cfwd	Growth	Capital Eng - DCC W6 Govt Rd WM Mamquam-Amble	113,100	-	-	-	-	113,100	-	-	113,100	-	-	-	113,100
Cfwd	Growth	Capital Eng - DCC W11B New Blind Channel Prv	125,400	-	-	-	-	125,400	-	-	94,000	-	31,400	-	125,400
10	Infrastructure	Powerhouse Springs Well 3 Replacement	145,000	-	-	-	-	145,000	-	-	143,550	-	-	1,450	145,000
11	Infrastructure	Distribution System Flow Meters	30,000	-	-	-	-	30,000	-	-	-	-	-	30,000	30,000
12	Infrastructure	Fire Hydrant Installation Program Year 4 of 7	30,000	30,000	30,000	30,000	-	120,000	-	-	-	-	-	30,000	30,000
14	Infrastructure	Annual PRV Replacement	220,000	-	-	110,000	-	330,000	-	-	-	-	-	220,000	220,000
15	Infrastructure	WWTPBlower Replacement and Energy Efficiency Upgrade	75,000	75,000	-	-	-	150,000	-	-	-	-	-	75,000	75,000
16	Infrastructure	Automated Waste Activated Sludge Valve	10,000	-	-	-	-	10,000	-	-	-	-	-	10,000	10,000
17	Infrastructure	Replacement of DO Probes for "Old Side" Treatment Process at WWTP	10,000	-	-	-	-	10,000	-	-	-	-	-	10,000	10,000
18	Infrastructure	Polymer Optimization Project	20,000	-	-	-	-	20,000	-	-	-	-	-	20,000	20,000
19	Infrastructure	Sewer System Electrical Safety Upgrades	21,000	-	-	-	-	21,000	-	-	-	-	-	21,000	21,000
20	Infrastructure	VFD Maintenance & Replacement Program	26,000	26,000	26,000	26,000	26,000	130,000	-	-	-	-	-	26,000	26,000
21	Infrastructure	Replacement of failed or failing sewage lift station pumps	50,000	15,000	15,000	-	-	80,000	-	-	-	-	-	50,000	50,000
22	Infrastructure	WWTP Repair and Replacement	300,000	20,000	85,000	-	-	405,000	-	-	-	-	-	300,000	300,000
23	Infrastructure	Gravity Sewer Repair and Replacement	550,000	550,000	550,000	550,000	550,000	2,750,000	-	-	-	-	-	550,000	550,000
24	Infrastructure	Forcemain Replacements	1,070,000	625,000	810,000	920,000	780,000	4,205,000	-	-	-	-	-	1,070,000	1,070,000
25	Equipment	Panasonic Toughbooks for Utilities	9,000	-	-	-	-	9,000	-	-	-	-	-	9,000	9,000
26	Equipment	Multi-functional Heavy Truck	325,000	-	-	-	-	325,000	-	-	-	325,000	-	-	325,000
27	Equipment	Scada Radio Replacement - Year 2 of 2	40,000	-	-	-	-	40,000	-	-	-	-	-	40,000	40,000
Cfwd	Equipment	Capital PW - SCADA Radio Replacement - Year 1 of 2	10,500	-	-	-	-	10,500	-	-	-	-	10,500	-	10,500
28	Equipment	SCADA Hardware Replacement	30,000	30,000	30,000	30,000	30,000	150,000	-	-	-	-	-	30,000	30,000
Cfwd	Equipment	Capital PW - SCADA Hardware Replacement	13,900	-	-	-	-	13,900	-	-	-	-	13,900	-	13,900
29	Equipment	New Tandem Axle Vacuum Truck for Utilities	-	600,000	-	-	-	600,000	-	-	-	-	-	-	-
Cfwd	Equipment	Capital - Landfill Fire Camera	7,100	-	-	-	-	7,100	-	-	-	-	7,100	-	7,100
30	Facility	Powerhouse Springs Wellfield Fencing	15,000	-	-	-	-	15,000	-	-	-	-	-	15,000	15,000
32	Facility	Lift Station Reconstruction	350,000	-	-	-	-	350,000	-	-	-	-	200,000	150,000	350,000
Cfwd	Facility	Capital Eng - Lift Station Reconstr WW	396,200	-	-	-	-	396,200	-	-	-	-	396,200	-	396,200
2020	Growth	Capital Eng - DCC S8 S10 Chiefview & Tantalus Sewer Upgrade	-	1,449,300	-	-	-	1,449,300	-	-	-	-	-	-	-
Add	Infrastructure	Water & Sewer Sevice Connections	125,000	125,000	125,000	125,000	125,000	625,000	-	-	-	-	-	125,000	125,000
			15,259,000	13,744,300	4,541,000	2,891,000	2,611,000	39,046,300	-	-	4,825,970	4,564,200	1,900,770	3,968,060	15,259,000

SPECIAL PROJECTS - Utilities

\$317,500

Amount directly funded by rates

\$276,000

How the Utility Special Projects Plan is deployed:

Master Plan Projects	\$57,000
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<u>Amount directly funded by rates</u>	\$42,000
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Municipal Services Projects	\$260,500
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<u>Amount directly funded by rates</u>	\$234,000
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CAPACITY BUILDING	\$6,500
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Amount funded by rates	\$0
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CYCLICAL OPERATIONS	\$0
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Amount funded by rates	\$0
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INFRASTRUCTURE OPERATIONS & MAINTENANCE	\$192,000
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Amount funded by rates	\$172,000
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FACILITIES OPERATIONS & MAINTENANCE	\$62,000
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Amount funded by rates	\$62,000
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DISTRICT OF SQUAMISH 2019-2023 FINANCIAL PLAN															
UTILITY SPECIAL OPERATING PROJECTS															
COST										2019 FUNDING					
Ref #	Category	Project Name	2019	2020	2021	2022	2023	TOTAL COST	GRANTS	RESERVES	DCC	FEES	ACC. SURPLUS	2019 RATES	2019 TOTAL
1	Master Plan	Water Rate Study	-	50,000	-	-	-	50,000	-	-	-	-	-	-	-
2	Master Plan	Solid Waste Bylaw Outreach	42,000	42,000	-	-	-	84,000	-	-	-	42,000	-	42,000	42,000
Cfwd	Master Plan	Special Projects - Water Services Engineering - Water Bylaw Rewrite	15,000	-	-	-	-	15,000	-	-	-	-	15,000	-	15,000
3	Infrastructure	Source Control Effectiveness Study	10,000	-	-	-	-	10,000	-	-	-	10,000	-	10,000	10,000
4	Infrastructure	Outfall Inspection	-	20,000	-	-	-	20,000	-	-	-	-	-	-	-
5	Infrastructure	Queens Way Lift Station Condition Assessment	-	50,000	-	-	-	50,000	-	-	-	-	-	-	-
6	Infrastructure	Feasibility Study to Abandon Judd and Cottonwood Lift Station	-	15,000	-	-	-	15,000	-	-	-	-	-	-	-
7	Infrastructure	Design and Operation Plan Update	112,000	-	-	-	-	112,000	-	-	-	112,000	-	112,000	112,000
8	Infrastructure	Plateau/Thunderbird Reservoir Condition Assessments	50,000	50,000	-	-	-	100,000	-	-	-	50,000	-	50,000	50,000
Cfwd	Infrastructure	Special Projects - Landfill - Horizontal Landfill Expansion Pre-Design	20,000	-	-	-	-	20,000	-	-	-	-	20,000	-	20,000
Cfwd	Capacity	Special Projects - Solid Waste Admin & Collections - Solid Waste Management	6,500	-	-	-	-	6,500	-	-	-	-	3,250	-	6,500
9	Facility	Replace Fence at Lower University Pump Stations	30,000	-	-	-	-	30,000	-	-	-	30,000	-	30,000	30,000
10	Facility	WWTP staff change room	22,000	-	-	-	-	22,000	-	-	-	22,000	-	22,000	22,000
11	Facility	Fall Arrest Upgrades - Year 2 of 3	10,000	10,000	-	-	-	20,000	-	-	-	10,000	-	10,000	10,000
			317,500	237,000	-	-	-	554,500	-	-	-	276,000	38,250	276,000	317,500