CITY OF KETCHIKAN, ALASKA 2023 - 2027 KETCHIKAN PUBLIC UTILITIES CAPITAL IMPROVEMENT PROGRAM

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2023 - 2	Ketchikan Public 027 Capital Improv 2023 Capital B	vement Progra	am		
Department/Division/Project	Revenues/ Reserves	Grants	Other	Revenue Bonds	2023 Total
Administration					
Financial & Accounting Information System	20,000				20,000
Administration Division Total	20,000				20,000
Sales, Marketing & Customer Service					
Vehicle Acquisition	65,635				65,635
Sales, Marketing & Customer Service Division Total	65,635				65,635
Electric Division					
Beaver Falls Relicensing	30,000				30,000
Ketchikan Tunnel Penstock Valves Replacement	50,000				50,000
Bailey Generator No. 4 Wartsilla PLC Upgrade	115,000				115,000
Generation Equipment Planning, Cleaning & Testing	50,000				50,000
Whitman Tailrace Modification	200,000				200,000
Diesel Generation Modernization	60,000				60.000
Bailey Exhaust Stack Re-Coating	55,000				55,000
Bailey Generator Radiator Replacement	40,000				40,000
Beaver Falls Switch Gear Replacement	1,372,150				1,372,150
Whitman Dam Crack Repair	30,000				30,000
Whitman Incubation Pipe Flow Meter	50,000				50,000
Ketchikan Lakes Utilities	195,000				195,000
Ketchikan International Airport & Pennock Upgrade	360,000				360,000
Feeder Protective Relay Upgrades	50,000				50,000
Battery System and Chargers	76,000				76,000
Transformer Purchase	100,000				100,000
AMI, Meters and Meter Replacement Parts	200,000				200.000
Transmission & Distribution Line Maintenance	400,000				400,000
Port West Substation Reconfiguration & Site Mod.	100,000				100,000
System Sectionalizers	100,000				100,000
Bailey Mooring Dolphin Replacement	110,000				110,000
Beaver Falls Powerhouse Exterior	750,000				750,000
Vehicles & Moving Equipment	665,000				665,000
Operating Equipment	276,000				276,000
Additional Projects	164,000				164,000
Reimbursable Projects	25,000				25,000
Vehicle Lift Replacement	80,000				80,000
Digital Radio Replacement	125,000				125,000
Silvis Road Repair	75,000				75,000
Electric Division Total	5,903,150				5,903,150

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program 2023 Capital Budget											
Department/Division/Project	Revenues/ Reserves	Grants	Other	Revenue Bonds	2023 Total						
Telecommunications Division											
Normal Growth and Repair - Buildings	50,000				50,000						
Normal Growth and Repair - CO Switching	700,000				700,000						
Normal Growth and Repair - Copper Cable	25,000				25,000						
Normal Growth and Repair - Fiber Cable	150,000				150,000						
Normal Growth and Repair - CO Transmission	150,000				150,000						
Normal Growth and Repair - Expansion	25,000				25,000						
Normal Growth and Repair - Provisioning	10,000				10,000						
Fiber to the Home	462,000				462,000						
Remote Cabinets for Advanced Services	50,000				50,000						
Core Network Upgrade	100,000				100,000						
Server Environment	400,000				400,000						
Multi-Dwelling Unit Project	240,000				240,000						
Operating Equipment	100,000				100,000						
PC Hardware & Software	60,000				60,000						
Power Expansion/Reclamation	100,000				100,000						
Visual Mapping Software	10,000				10,000						
Network Monitoring	100,000				100,000						
Vehicle Acquisition	350,000				350,000						
Security	100,000				100,000						
Headend Expansion	25,000				25,000						
Video Set Top Boxes	25,000				25,000						
4G/LTE	300,000				300,000						
Hosted	250,000				250,000						
Wi-Fi	50,000				50,000						
Internet Expansion	50,000				50,000						
KetchCan1 Subsea Cable Repair	676,500				676,500						
Telecommunications Division Total	4,558,500				4,558,500						

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program 2023 Capital Budget												
	Revenues/			Revenue	2023							
Department/Division/Project	Reserves	Grants	Other	Bonds	Total							
Water Division												
Filtration Facility-Preliminary Preparation Tasks	200,000				200,000							
Water Meters - Business & Commercial Customers				851,520	851,520							
Pump Station Switchgear Improvements	27,500				27,500							
Utility Vehicles	75,000				75,000							
West Fairy Chasm Main Replacement	35,000				35,000							
Skyline Water Main Replacement	30,000				30,000							
Valve Boxes - Repair of Surrounding Pavement	110,000				110,000							
Water Distribution Grid Improvements	30,000				30,000							
Additional Projects	40,000				40,000							
Water Service Upgrade Program	15,000				15,000							
Backflow Prevention Program	15,000				15,000							
SCADA PLC Controllers	340,000				340,000							
UV Facility - UPS Battery Replacement	45,000				45,000							
Replace ClorTec Generating Cells	60,000				60,000							
Peterson Street Water Main Rebuild	374,000				374,000							
Water Division Total	1,396,500			851,520	2,248,020							
GRAND TOTAL	11,943,785			851,520	12,795,305							

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program Summary of Projects by Division - All Years

	Prior						Five Year	Project
Division/Project	Years	2023	2024	2025	2026	2027	Total	Total
Administration								
Financial & Accounting Information System Implementation	438,992	20,000					20,000	458,992
Administration Total	438,992	20,000					20,000	458,992
	430,332	20,000					20,000	400,992
Sales, Marketing & Customer Service								
Vehicle Acquisition		65,635					65,635	65,635
Sales, Marketing & Customer Service Total		65,635					65,635	65,635
Electric Division								
Beaver Falls Relicensing	615,000	30,000	30,000				60,000	675,000
Generator Rewind & Repair				650,000	700,000		1,350,000	1,350,000
Ketchikan Tunnel Penstock Valves Replacement	100,000	50,000	250,000				300,000	400,000
Bailey Generator No. 4 Wartsilia PLC Upgrade		115,000					115,000	115,000
Generation Equipment Planning, Cleaning & Testing	191,395	50,000	50,000				100,000	291,395
Whitman Tailrace Modification	36,291	200,000					200,000	236,291
Diesel Generation Modernization	120,000	60,000					60,000	180,000
Bailey Exhaust Stack Re-Coating		55,000	35,000				90,000	90,000
Bailey Unit No. 1 Rehabilitation	15,835					850,000	850,000	865,835
Bailey Generator Radiator Replacement		40,000	300,000	050.000			340,000	340,000
Beaver Falls Governor Upgrade				250,000			250,000	250,000
Silvis Shaft & Turbine Overhaul			200,000	750,000	200,000	200.000	750,000	750,000
Ketchikan Lakes Project Relicensing	105 000	1 272 150	300,000	300,000	300,000	300,000	1,200,000	1,200,000
Beaver Falls Switch Gear Replacement	105,000	1,372,150		40,000	400.000		1,372,150	1,477,150 440,000
Silvis Tunnel Valve Replacement			100.000	40,000	400,000		440,000	
Penstock Inspections Whitman Dam Crack Repair		30.000	100,000 50,000				100,000 80,000	100,000 80,000
Whitman Incubation Pipe Flow Meter		50,000	50,000				50,000	50,000
Bailey Title V Renewal		50,000	30,000				30,000	30,000
Ketchikan Lakes Utilities	30,000	195,000	100,000				295,000	325,000
Ketchikan International Airport & Pennock Island Upgrade	295,000	360,000	300,000	25,000			685,000	980,000
Feeder Protective Relay Upgrades	50,000	50,000	50,000	50,000	50,000	50,000	250,000	300,000
Battery Systems & Chargers	96.000	76,000	46,000	50,500	50,500	50,500	273,500	369,500
Transformer Purchase	00,000	100,000	155,000	175,000	175,000	175,000	780,000	780,000
AMI, Meters and Meter Replacement Parts		200,000	185,000	125,000	125,000	125,000	760,000	760,000
34.5 kV Tie Breaker and Relay Spares		,		105,000			105,000	105,000
Transmission & Distribution Line Maintenance		400,000		500,000		500,000	1,400,000	1,400,000
Port West Substation Reconfiguration & Site Mod.		100,000		- ,			100,000	100,000
System Sectionalizers		100,000	100,000	100,000			300,000	300,000
Bailey Mooring Dolphin Replacement		110,000		-			110,000	110,000
Beaver Falls Powerhouse Exterior	36,070	750,000					750,000	786,070

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program Summary of Projects by Division - All Years

	Prior						Five Year	Project
Division/Project	Years	2023	2024	2025	2026	2027	Total	Total
Electric Division (continued)								
Vehicles & Moving Equipment		665,000	450,000	100,000	150,000	350,000	1,715,000	1,715,000
Operating Equipment		276,000	300,000	300,000	300,000	300,000	1,476,000	1,476,000
Additional Projects		164,000	164,000	164,000	164,000	164,000	820,000	820,000
Reimbursable Projects		25,000	25,000	25,000	25,000	25,000	125,000	125,000
Bailey Fuel Tank Painting			100,000				100,000	100,000
Vehicle Lift Replacement		80,000					80,000	80,000
Digital Radio Replacement		125,000					125,000	125,000
Silvis Road Repair		75,000					75,000	75,000
Electric Division Total	1,690,591	5,903,150	3,120,000	3,709,500	2,439,500	2,889,500	18,061,650	19,752,241
Telecommunications Division								
Normal Growth and Repair - Buildings		50,000	50,000	50.000	50,000	50.000	250.000	250,000
Normal Growth and Repair - CO Switching		700,000	100,000	75,000	75,000	75,000	1,025,000	1,025,000
Normal Growth and Repair - Copper Cable		25,000	25,000	25,000	25,000	25,000	125,000	125,000
Normal Growth and Repair - Fiber Cable		150,000	100,000	100,000	100,000	100,000	550,000	550,000
Normal Growth and Repair - CO Transmission		150.000	200,000	200.000	250,000	300,000	1,100,000	1,100,000
Normal Growth and Repair - Expansion		25,000	30,000	35,000	35,000	35,000	160,000	160,000
Normal Growth and Repair - Provisioning		10,000	10,000	150,000	50,000	50,000	270,000	270,000
Fiber to the Home		462,000	100,000	100,000	100,000	100,000	862,000	862,000
Remote Cabinets for Advanced Services		50,000	50,000	50,000	50,000	75,000	275,000	275,000
Core Network Upgrade		100,000	1,000,000	750,000	750,000	250,000	2,850,000	2,850,000
Server Environment		400.000	100,000	100,000	100,000	200,000	900,000	900,000
Multi-Dwelling Unit Project		240,000	200,000	200,000	200,000	200,000	1,040,000	1,040,000
Operating Equipment		100,000	50,000	50,000	50,000	100,000	350,000	350,000
PC Hardware & Software		60.000	60,000	60,000	60,000	65,000	305,000	305,000
Power Expansion/Reclamation		100,000	50,000	50,000	50,000	50,000	300,000	300,000
Visual Mapping Software		10,000	50,000	25,000	25,000	25,000	135,000	135,000
Network Monitoring		100,000	100,000	100,000	100,000	100,000	500,000	500,000
Vehicle Acquisition		350,000	100,000	50,000	50,000	50,000	600,000	600,000
Security	223.511	100.000	100,000	100,000	150,000	300,000	750,000	973,511
Headend Expansion	220,011	25,000	15,000	15,000	25,000	25,000	105,000	105,000
Video Set Top Boxes		25,000	25,000	25,000	20,000	20,000	75,000	75,000
4G/LTE		300.000	100.000	100.000	100,000	100.000	700,000	700,000
Microwave		000,000	20,000	20,000	100,000	100,000	40,000	40,000
Hosted		250,000	150,000	100,000	100,000	100,000	700,000	700,000
Wi-Fi		50,000	50,000	50,000	65,000	75,000	290,000	290,000
Internet Expansion		50,000	100,000	200,000	200,000	600,000	1,150,000	1,150,000
KetchCan1 Subsea Cable Repair		676,500	100,000	200,000	200,000	000,000	676,500	676,500
Telecommunications Division Total	223,511	4,558,500	2,935,000	2,780,000	2,760,000	3,050,000	16,083,500	16,307,011
	220,011	4,000,000	2,000,000	2,100,000	2,100,000	0,000,000	10,000,000	10,007,011

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program Summary of Projects by Division - All Years

Division/Project	Prior Years	2023	2024	2025	2026	2027	Five Year Total	Project Total
Water Division								
Filtration Facility - Preliminary Preparation Tasks	562,015	200,000	200,000				400,000	962,015
Water Meters - Business & Commercial Customers	398,480	851,520	250,000				1,101,520	1,500,000
Pump Station Switchgear Improvements	30,250	27,500	28,500		30,000		86,000	116,250
Utility Vehicles		75,000		160,000		112,000	347,000	347,000
West Fairy Chasm Replacement		35,000				550,600	585,600	585,600
Skyline Water Main Replacement		30,000				360,800	390,800	390,800
Valve Boxes - Repair of Surrounding Pavement		110,000	50,000	50,000	50,000	50,000	310,000	310,000
Water Distribution Grid Improvements		30,000	30,000	30,000	30,000	30,000	150,000	150,000
Additional Projects		40,000	40,000	40,000	40,000	40,000	200,000	200,000
Water Service Upgrade Program		15,000	15,000	15,000	15,000	15,000	75,000	75,000
Backflow Prevention Program		15,000	15,000	15,000	15,000	15,000	75,000	75,000
SCADA PLC Controllers	256,500	340,000	345,000				685,000	941,500
UV Facility - UPS Battery Replacement		45,000					45,000	45,000
Replace ClorTec Generating Cells		60,000	61,500	42,000	43,000		206,500	206,500
Peterson Street Water Main Rebuild		374,000					374,000	374,000
Woodland Ave Utility Improvements				40,000		430,000	470,000	470,000
Harris Street Utility Improvements				35,000		2,000,000	2,035,000	2,035,000
Replace Tongass Ave/Water Street Suspended Water Main			245,000		1,230,000		1,475,000	1,475,000
Highlands Reservoir Property Acquisition			300,000				300,000	300,000
Second Ave Main Replacement			60,000			1,300,800	1,360,800	1,360,800
Evergreen Ave Main Replacement			25,000			440,000	465,000	465,000
Denali Ave Main Replacement			30,000			512,000	542,000	542,000
Water Division Total	1,247,245	2,248,020	1,695,000	427,000	1,453,000	5,856,200	11,679,220	12,926,465
TOTAL	3,600,339	12,795,305	7,750,000	6,916,500	6,652,500	11,795,700	45,910,005	49,510,344

Sum	2023 - 2027 C	hikan Public Util apital Improvem cts by Funding \$	ent Program	ears			
Division/Project	Prior Years	Revenue Generating Fund	Grants	Other	Revenue Bonds	State Drinking Water Loan Fund	Total
Administration							
Financial & Accounting Information System Implementation	438,992	20,000					458,992
Administration Total	438,992	20,000					458,992
Sales, Marketing & Customer Service							
Vehicle Acquisition		65,635					65,635
Sales, Marketing & Customer Service Total		65,635					65,635
Electric Division							
Beaver Falls Project Relicensing	615,000	60,000					675,000
Generator Rewind & Repair	0.0,000	1,350,000					1,350,000
Ketchikan Tunnel Penstock Valves Replacement	100,000	300,000					400,000
Bailey Generator No. 4 Wartsilia PLC Upgrade	,	115,000					115,000
Generation Equipment Planning, Cleaning & Testing	191,395	100,000					291,395
Whitman Tailrace Modification	36,291	200,000					236,291
Diesel Generation Modernization	120,000	60,000					180,000
Bailey Exhaust Stack Re-Coating	-	90,000					90,000
Bailey Unit No. 1 Rehabilitation	15,835	850,000					865,835
Bailey Generator Radiator Replacement		340,000					340,000
Beaver Falls Governor Upgrade		250,000					250,000
Silvis Shaft & Turbine Overhaul		750,000					750,000
Ketchikan Lakes Project Relicensing		1,200,000					1,200,000
Ketchikan Beaver Falls Switch Gear Replacement	105,000	1,372,150					1,477,150
Silvis Tunnel Valve Replacement		440,000					440,000
Penstock Inspections		100,000					100,000
Whitman Dam Crack Repair		80,000					80,000
Whitman Incubation Pipe Flow Meter		50,000					50,000
Bailey Title V Renewal		30,000					30,000
Ketchikan Lakes Utilities	30,000	295,000					325,000
Ketchikan International Airport & Pennock Is. Upgrade	295,000	685,000					980,000
Feeder Protective Relay Upgrades	50,000	250,000					300,000
Battery Systems and Chargers	96,000	273,500					369,500
Transformer Purchases		780,000					780,000
AMI, Meters and Meter Replacement Parts		760,000					760,000
34.5 kV Tie Breaker and Relay Spares		105,000					105,000
Transmission & Distribution Line Maintenance Port West Substation Reconfiguration & Site Mod.		1,400,000 100,000					1,400,000
System Sectionalizers		300,000					100,000 300,000
System Sectionalizers		300,000					300,000

Su	2023 - 2027 C	hikan Public Util apital Improvem cts by Funding S	ent Program	ears			
Division/Project	Prior Years	Revenue Generating Fund	Grants	Other	Revenue Bonds	State Drinking Water Loan Fund	Total
Electric Division (continued) Bailey Mooring Dolphin Replacement Beaver Falls Powerhouse Exterior Vehicles & Moving Equipment Operating Equipment Additional Projects Reimbursable Projects Bailey Fuel Tank Painting Vehicle Lift Replacement Digital Radio Replacement	36,070	110,000 750,000 1,715,000 1,476,000 820,000 125,000 100,000 80,000 125,000					110,000 786,070 1,715,000 1,476,000 820,000 125,000 100,000 80,000 125,000
Silvis Road Repair Electric Division Total	1,690,591	75,000 18,061,650					75,000 19,752,241
Telecommunications DivisionNormal Growth and Repair - BuildingsNormal Growth and Repair - CO SwitchingNormal Growth and Repair - Copper CableNormal Growth and Repair - Fiber CableNormal Growth and Repair - CO TransmissionNormal Growth and Repair - CO TransmissionNormal Growth and Repair - ExpansionNormal Growth and Repair - ProvisioningFiber to the HomeRemote Cabinets for Advanced ServicesCore Network UpgradeServer EnvironmentMulti-Dwelling Unit ProjectOperating EquipmentPC Hardware & SoftwarePower Expansion/ReclamationVisual Mapping SoftwareNetwork MonitoringVehicle AcquisitionSecurityHeadend ExpansionVideo Set Top Boxes4G/LTEMicrowaveHosted	223,511	$\begin{array}{c} 250,000\\ 1,025,000\\ 125,000\\ 550,000\\ 1,100,000\\ 270,000\\ 862,000\\ 275,000\\ 2,850,000\\ 900,000\\ 1,040,000\\ 350,000\\ 305,000\\ 305,000\\ 305,000\\ 305,000\\ 305,000\\ 305,000\\ 105,000\\ 750,000\\ 105,000\\ 750,000\\ 750,000\\ 700,000\\ 40,000\\ 700,000\end{array}$					250,000 1,025,000 125,000 550,000 1,100,000 270,000 862,000 275,000 2,850,000 900,000 1,040,000 350,000 305,000 305,000 500,000 973,511 105,000 75,000 700,000 40,000

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program Summary of Projects by Funding Source - All Years											
Division/Project	Prior Years	Revenue Generating Fund	Grants	Other	Revenue Bonds	State Drinking Water Loan Fund	Total				
Telecommunications Division (continued)											
Wi-Fi		290.000					290.000				
Internet Expansion		1,150,000					1,150,000				
KetchCan1 Subsea Cable Repair		676,500					676,500				
Telecommunications Division Total	223,511	16,083,500					16,307,011				
Water Division											
Filtration Facility - Preliminary Preparation Tasks	562.015	400.000					962.015				
Water Meters - Business & Commercial Customers	398,480	250,000				851,520	1,500,000				
Pump Station Switchgear Improvements	30,250	86,000				001,020	116,250				
Utility Vehicles	00,200	347,000					347,000				
West Fairy Chasm Main Replacement		35,000	275,300			275,300	585,600				
Skyline Water Main Replacement		30,000	180,400			180,400	390,800				
Valve Boxes - Repair of Surrounding Pavement	10,000	300,000	,			,	310,000				
Water Distribution Grid Improvements		150,000					150,000				
Additional Projects		200,000					200,000				
Water Service Upgrade Program		75,000					75,000				
Backflow Prevention Program		75,000					75,000				
SCADA PLC Controllers	256,500	685,000					941,500				
UV Facility - UPS Battery Replacement		45,000					45,000				
Replace ClorTec Generating Cells		206,500					206,500				
Peterson Street Water Main Rebuild		374,000					374,000				
Woodland Ave Utility Improvements		40,000	215,000			215,000	470,000				
Harris Street Utility Improvements		35,000	1,000,000			1,000,000	2,035,000				
Replace Tongass Ave/Water St. Suspended Water Main		245,000	615,000			615,000	1,475,000				
Highlands Reservoir Property Acquisition			150,000			150,000	300,000				
Second Avenue Main Replacement		60,000	650,400			650,400	1,360,800				
Evergreen Ave. Main Replacement		25,000	220,000			220,000	465,000				
Denali Ave. Main Replacement	4 057 045	30,000	256,000			256,000	542,000				
Water Division Total	1,257,245	3,693,500	3,562,100			4,413,620	12,926,465				
TOTAL	3,610,339	37,924,285	3,562,100			4,413,620	49,510,344				

		2023 - 20	Ketchikan F)27 Capital I	mprovemer	nt Program							
Department: General Manager												
				dopted 202	3		Projected R	equirement	s			
Project Title	Priority	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project		
Financial & Accounting Information System Implementation	1	438,992	20,000		20,000					458,992		
Total		438,992	20,000		20,000					458,992		
			Adopted 2023				Projected Requirements					
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project		
Revenue Generating Fund		438,992	20,000		20,000					458,992		
Total		438,992	20,000		20,000					458,992		

Department: KPU General Manager		Project Priority: 1						ber:		
Project Title: Financial & Accounting Information System Implementation Start Date: 01/07 Estimated Project Cost: Description: 12/23 Design Land/Right-of-Way The City awarded a contract to New World Systems for the acquisition of new financial and accounting information system and began implementation in September 2011. Finance is requesting that remaining funds that have been appropriated for this project Gonsultation Construction Finance Department's efforts during critical phases of the continuing implementation process. Scheduled for completion in 2023 is financial reporting, electronic personnel action forms and e-suites. The cost of this project is being funded equally by General Government and KPU. End Date: 01/07								ntation Services	51,975 391,517 15,500 458,992	
0	Fund	Prior	Reappro-	Adopted 2023 New		0004		equirements	0007	Total
Source of Funds Revenue Generating Fund	No.	Years 438,992	priated 20,000	Funding	Total 20,000	2024	2025	2026	2027	Project
Total		438,992	20,000		20,000					458,992

	D	2023 - 20	Ketchikan P 127 Capital Ir Iles, Marketii	nprovement	Program	e				
			A	dopted 2023	3		Projected R	equirement	S	
Project Title	Priority	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
REGULATED Vehicle Acquisition	1			65,635	65,635					65,635
Total				65,635	65,635					65,635
				Adopted 2023	6		Projected R	equirements		
Source of Funds		Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund				65,635	65,635					65,635
Total				65,635	65,635					65,635

Division: Sales, Marketing and Customer Serv	/ice	Project Pri	ority:	1		Project Nu	mber:		
Project Title: Vehicle Acquisition		Start Date:		01/23			Project Cos	st:	
		End Date:		12/23		Design	<i></i>		
Description:	of aging vahialas	to provent a	waaaaiya m	aintananaa	aata and	Land/Right-	ot-way n Managem	ont	
This capital project funds the replacement breakdowns affecting KPU's ability to meet						Constructio	•	ent	
Division's vehicle for its expanding video cont accomodate modern equipment. The project i	ent program is beyo	ond cost effe	ctive repair a	and lacks the	ability to	Equipment Other			65,638
wrap, and transport to KTN.						Project Tota	al		65,635
	Prior	Reappro-	Adopted 202 New	3		Projected R	equirement		Total
Source of Funds	Years	priated	E						
	i eai s	priateu	Funding	Total	2024	2025	2026	2027	
	Tears	priateu	65,635	Total 65,635	2024	2025	2026	2027	Project 65,635
		phated	•		2024	2025	2026	2027	
		priated	•		2024	2025	2026	2027	
		priated	•		2024	2025	2026	2027	
			•		2024	2025	2026	2027	
			•		2024	2025	2026	2027	
			•		2024	2025	2026	2027	
Revenue Generating Fund			•		2024	2025	2026	2027	

			chikan Publi							
	:		Capital Impro Division: El	ovement Prog ectric	gram					
				Adopted 2023	3		Projected R	Requirements		
		Prior	Reappro-	New						Total
Project Title	Priority	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Generation (Hydro and Diesel) Projects										
Beaver Falls Relicensing	1	615,000		30,000	30,000	30,000				675,000
Generator Rewind & Repair	2	010,000		00,000	00,000	00,000	650,000	700,000		1,350,000
Ketchikan Tunnel Penstock Valves Replacement	3	100,000	50,000		50,000	250,000	,	,		400,000
Bailey Generator No. 4 Wartsila PLC Upgrade	4		115,000		115,000					115,000
Generator Equipment Planning, Cleaning & Testing	6	191,395	50,000		50,000	50,000				291,395
Whitman Tailrace Modification	12	36,291		200,000	200,000					236,291
Diesel Generation Modernization	13	120,000	60,000		60,000					180,000
Bailey Exhaust Stack Re-Coating	16		25,000	30,000	55,000	35,000				90,000
Bailey Unit No. 1 Rehabilitation	17	15,835							850,000	865,835
Bailey Generator Radiator Replacement	22			40,000	40,000	300,000				340,000
Beaver Falls Governor Upgrade	23						250,000			250,000
Silvis Shaft & Turbine Overhaul	24						750,000			750,000
Ketchikan Lakes Project Relicensing	25 30	105 000	4 070 450		4 070 450	300,000	300,000	300,000	300,000	1,200,000
Beaver Falls Switch Gear Replacement Silvis Tunnel Valve Replacement	30 31	105,000	1,372,150		1,372,150		40,000	400,000		1,477,150 440,000
Penstock Inspections	32					100,000	40,000	400,000		100,000
Whitman Dam Crack Repair	33			30.000	30.000	50.000				80.000
Whitman Incubation Pipe Flow Meter	34			50,000	50,000	30,000				50,000
Bailey Title V Renewal	35			00,000	00,000	30,000				30,000
Transmission and Distribution Projects										
Ketchikan Lakes Utillites	5	30,000	95,000	100.000	195,000	100,000				325,000
Ketchikan International Airport & Pennock Island Upgra	8	295,000	235,000	125,000	360,000	300,000	25,000			980,000
Feeder Protective Relay Upgrades	9	50,000	50,000		50,000	50,000	50,000	50,000	50,000	300,000
Battery Systems & Chargers	10	96,000		76,000	76,000	46,000	50,500	50,500	50,500	369,500
Transformer Purchases	18			100,000	100,000	155,000	175,000	175,000	175,000	780,000
AMI, Meters and Meter Replacement Parts	19			200,000	200,000	185,000	125,000	125,000	125,000	760,000
34.5 kV Breaker and Relay Spares	26						105,000			105,000
Transmission & Distribution Line Maintenance	36			400,000	400,000		500,000		500,000	1,400,000
Port West Substation Reconfiguration & Site Mod.	37			100,000	100,000					100,000
System Sectionalizers	38			100,000	100,000	100,000	100,000			300,000
General Plant Projects										
Bailey Mooring Dolphin Replacement	7		110,000		110,000					110,000
Beaver Falls Powerhouse Exterior	11	36,070	750,000		750,000					786,070
Vehicles & Moving Equipment	14			665,000	665,000	450,000	100,000	150,000	350,000	1,715,000
Operating Equipment	15			276,000	276,000	300,000	300,000	300,000	300,000	1,476,000
Additional Projects	20			164,000	164,000	164,000	164,000	164,000	164,000	820,000
Reimbursable Projects	21			25,000	25,000	25,000	25,000	25,000	25,000	125,000
Bailey Fuel Tank Painting	27					100,000				100,000
Vehicle Lift Replacement	28			80,000	80,000					80,000
Digital Radio Replacement Silvis Road Repair	29 39			125,000 75,000	125,000 75,000					125,000 75,000
Silvis Road Repair	39			75,000	75,000					75,000
Total		1,690,591	2,912,150	2,991,000	5,903,150	3,120,000	3,709,500	2,439,500	2,889,500	19,752,241
				Adopted 2023	3		Projected R	Requirements		
Source of Funde		Prior	Reappro-	New		2024		2026	2027	Total Project
Source of Funds Revenue Generating Fund		Years 1,690,591	priated 2,912,150	Funding 2,991,000	Total 5,903,150	3,120,000	2025 3,709,500	2,439,500	2027 2,889,500	Project 19,752,241
Total		1,690,591	2,912,150	2,991,000	5,903,150	3,120,000	3,709,500	2,439,500	2,889,500	19,752,241
Iotai		1,090,091	2,312,100	2,331,000	5,505,150	3,120,000	3,709,000	2,409,000	∠,009,000	13,132,241

Division: Electric			Project Prio	ority:	1		Project Nur	nber:		
Project Title: Beaver Falls Relicens	ing		Start Date: End Date:		01/18 12/24			Project Cost:	:	675 000
Description: The Beaver Falls Hydroelectric P (FERC) for a term of 30 years. K began the process in 2018 with de Intent (NOI) that was filed in 2019.	PU's current I evelopment of	sed through icense expir a Prelimina	n the Federa res in 2024. rry Applicatio	To renew it n Document	egulatory Co s FERC licer (PAD), with	nse, KPU Notice of	Design Land/Right-c Constructior Constructior Equipment Other	n Managemer	nt	675,000
final license application is due in 2 regulatory work, studies and survey variable and are dependent upon is	022. The foll ys to respond	lowing proce to FERC ge	ess will requi enerated requi consultation p	ire professior uests. Relice process.	nal services f nsing costs a	for FERC	Project Tota	I		675,000
			A	Adopted 2023	3		Projected R	equirements	;	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		615,000		30,000	30,000	30,000				675,000
				1						

Division: Electric			Project Pric	ority:	2		Project Nun	nber:		
Project Title: Generator Rew	ind & Renair		Start Date:	-	01/25		Estimated F	Project Cost:		
Froject fille. Generator New	ind & Repair		End Date:		12/26		Design	Toject Cost.		50,000
Description:							Land/Right-o	of-Way		,
Typical life expectancy for general a major concern. They are a powerhouse fires. This budget testing and inspection. Silvis: Unit No. 1 (1968) Beaver Falls: Unit No. 1 (2014), Ketchikan: Unit No. 3 (2015),	t an elevated ris is to provide fund Unit No. 3 (2018,	k of failur ling for two and Unit N	e causing lo rewinds and o. 4 (2018)	oss of gener	ation and/or	potential	Construction Construction Equipment Other Project Tota	1	nt	800,000 450,000 50,000 1,350,000
			4	Adopted 202	3		Projected R	equirements	;	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund							650,000	700,000		1,350,000
Total							650,000	700,000		1,350,000

Division: Electric		Project Prior	ity:	3		Project Num	ber:		
Project Title: Ketchikan Tunnel Penstock Valv	ves Replacement	Start Date: End Date:		01/13 12/24		Estimated Pr Design	oject Cost:		125,000
Description:						Land/Right-of	-Way		
The three gate valves on the penstocks at the nearing the end of their reliable service life. The valves are embedded in concrete tunnel provides the City's only potable water and replacement of the valves will be coordin	They must be capa e and will be diffic supply, it cannot b	able of closing ult to remove o be drained durii	under flow and r to replace du ng the work. T	d are critical to ue to their locat The assessmer	penstock tion. As the nt, design	Construction Construction Equipment Other Project Total	Management		175,000 100,000 400,000
service, slated for 2023.		Γ	Adapted 2022		1	Decidente d			T
	Prior	Reappro-	Adopted 2023 New	5		Projected R	equirements		Total
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund	100,000	50,000		50,000	250,000				400,000
Total	100,000	50,000		50,000	250,000				400,000

Division: Electric			Project Pric	ority:	4		Project Nur	nber:		
Project Title: Bailey Generator	No. 4 Wartsila I	PLC	Start Date:		01/22		Estimated I	Project Cost:		
Upgrade			End Date:		12/23		Design			20,000
Description:							Land/Right-			10.00
The BAG4 PLC and I/O hardware	are past end of	life and bey	ond legacy s	support. This	project will u	pdate the	Construction	n Management	t	10,000
generator to a modern PLC and I/							Equipment	1		75,000
engineering services, planning						ient, the	Other			10,000
demolition/installation of equipmer	nt, factory accep	tance testir	ig (FAT) and	commissioni	ng.		Project Tota	I		115,000
	Fund	Prior	-	Adopted 202 New	3		Projected R	equirements		Total
Source of Funds	Fund No.	Prior Years	Reappro- priated	-	3 Total	2024	2025	2026	2027	Total Project
Source of Funds			Reappro-	New		2024			2027	Project
			Reappro- priated	New	Total	2024			2027	Project
			Reappro- priated	New	Total	2024			2027	Project
			Reappro- priated	New	Total	2024			2027	Project
			Reappro- priated	New	Total	2024			2027	Project
			Reappro- priated	New	Total	2024			2027	Project
			Reappro- priated	New	Total	2024			2027	Project
			Reappro- priated	New	Total	2024			2027	

Division: Electric			Project Pric	ority:	5		Project Nur	nber:		
Project Title: Ketchikan Lakes Ut	tilities		Start Date: End Date:		01/22 12/24		Estimated I Design	Project Cost	:	
Description: This project provides funding to inst including Fawn Lake, Ketchikan Lak provided by solar panels and small Further work includes, but is not lim optic communications for lake level	kes and to the back-up gener nited to, the ins	Granite Bas rators, with c	tions to the K in area. Pow	ver at these s	es hydro proj ites is curren line of site ar	tly ntennas.	Land/Right-	า Manageme า	nt	325,000 325,000
			A	Adopted 2023	3		Projected R	equirements	6	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Source of Funds Revenue Generating Fund							-	-		

Division: Electric		Project Prior	ity:	6		Project Num	ber:		
Project Title: Generation Equipment Planning, C	leaning & Testing	Start Date: End Date:		01/14 12/24		Estimated Pr Design/Licens	•		
Description:						Land/Right-of Construction I	-Way		
This project provides for comprehensive tests equipment. Detailed cleaning and generato equipment, contracted work may be necess rewinds and other major generator work. This testing and required equipment in the KPU ge	or repairs are neces ary. This work is s budget is to prov	essary. Due t s essential in	to the scope of developing an	of this work a n updated pla	nd required n for future	Construction Equipment Other	vanagement		291,395
						Project Total			291,395
			Adopted 2023	3		Projected R	equirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund	191,395	50,000		50,000	50,000				291,395

Division: Electric			Project Pric	ority:	7		Project Nur	nber:		
Project Title: Bailey Mooring Dol	ohin Replacem	nent	Start Date: End Date:		01/22 12/23		Estimated I Design	Project Cost	:	30,000
Description:			Ella Dale.		12/23		Land/Right-	•		30,000
Fuel is delivered to the Bailey Powe is of wood pile construction and at the Project costs include installation of t	e end of its us	seful life. T	his project wi	ll replace it w	ith a steel pil	e cluster.	Construction Construction Equipment Other	n Manageme n	nt	80,000
other associated costs.							Project Tota	l		110,000
			4	Adopted 202	3		Projected R	equirement	S	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			110,000		110,000					110,000
Total			110,000		110,000					110,000

Division: Electric		Project Priori	ty:	8		Project Numb	er:		
Project Title: Ketchikan International Air	port								
and Pennock Island Upgr	ade	Start Date:		01/12		Estimated Pro	oject Cost:		
		End Date:		12/25		Design/License	е		50,000
Description:						Land/Right-of-	Way		
The existing armored submarine electric						Construction M	lanagement		
mid-1970s). The armoring has also begin						Construction			430,000
beach landing. The cable originates beh Ketchikan Shipyard, Taquan Air, Carlanr						Equipment Other			500,000
1970s damaged the original KIA cable.						Other			
State and the Borough, to install a new a	armored cable beginr	ning at a location	on near the airp	oort ferry		Project Total			980,000
terminal. Preliminary uplands work bega					ng with	i reject retar			000,000
continued uplands work and material. The ferry terminal project progresses.	he new cable is prog	rammed for ins	stallation in 202	24 as the State	's airport				
leny terminal project progresses.									
			Adopted 2023			Projected Re	quirements		
	Prior	Reappro-	New				•		
Source of Funds									Total
	Years	priated	Funding	Total	2024	2025	2026	2027	Total Project
			Ŭ		-		2026	2027	Project
Revenue Generating Fund	Years 295,000	priated 235,000	Funding 125,000	Total 360,000	2024 300,000	2025 25,000	2026	2027	
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project
			Ŭ		-		2026	2027	Project

Division: Electric		Project Pric	ority:	9		Project Nun	nber:		
Project Title: Feeder Protective Relay Upgr	rades	Start Date:		01/22			Project Cost:		
Description:		End Date:		12/27		Design Land/Right-c	of-Way Management		20,000
Feeder protective relays are at end-of-life a protection, fault locating, event analysis,	and other system	n protection.	This proje			Construction Equipment	•	L	270,000
engineering, equipment, installation, and te	esting for twenty-tw	o (22) relays.				Other			10,000
						Project Total	l		300,000
F	- Fund Prior		Adopted 202 New	3		Projected Re	equirements		Total
	Fund Prior No. Years	A Reappro- priated	Adopted 202 New Funding	3 Total	2024	Projected Re 2025	equirements 2026	2027	Total Project
		Reappro-	New					2027 50,000	
Source of Funds	No. Years	Reappro- priated	New	Total	2024	2025	2026		Project
Source of Funds	No. Years	Reappro- priated	New	Total	2024	2025	2026		Project
Source of Funds	No. Years	Reappro- priated	New	Total	2024	2025	2026		Project

Division: Electric		Project Pric	ority:	10		Project Nur	nber:		
Project Title: Battery Systems and Charge	rs	Start Date: End Date:			Estimated I Design	:			
Description: There are ten battery systems and charge substations. Eight will be approaching end		e KPU Electr				Land/Right-	n Managemei	nt	
failure will compromise system reliability. T funding will replace one of these systems.						Equipment Other			369,500
						Project Tota			369,500
		l l	Adopted 202	3		Projected R	equirements		
	Fund Prior No. Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund	96,000		76,000	76,000	46,000	50,500	50,500	50,500	369,500
Total	96,000		76,000	76,000	46,000	50,500	50,500	50,500	369,500

Division: Electric		Project Priori	ty:	11		Project Num	ber:		
Project Title: Beaver Falls Powerhouse Exter		Start Date: End Date:		01/13 12/23		Estimated Pr Design	oject Cost:		10,000
Description:						Land/Right-of	•		,
The exterior of the Beaver Falls Powerhouse Signs of water intrusion into the concrete wal evaluation of the building structure, an enviro	ls and structure nmental evalua	e are apparent ation, creation	. This project of plans and s	will entail an e pecifications for	engineering	Construction I Construction Equipment Other	Management		776,070
removal and disposal, concrete/structural repa	airs, a new coat	ting system and	d required con	tractual work.		Project Total			786,070
	Prior	Reappro-	Adopted 2023 New	8		Projected R	equirements		Total
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund	36,070	750,000		750,000					786,070
Total	36,070	750,000		750,000					786,070

Division: Electric			Project Prio	ority:	12		Project Nur	nber:		
Project Title: Whitman Tailrace	Modification		Start Date:		01/20			Project Cost:		
Description:			End Date:		12/23		Design Land/Right-	of-Way		36,291
The Whitman Hydroelectric Projec that has shown fish to be strand adequate to eliminate fish strandin to monitor it. Additional structure	led during nor g. In 2019, KP	mal operati U made mo	ons. Operat	tional adjust	nents have channel and o	not been continues	Construction Construction Equipment Other	า Managemer า	nt	200,000
to monitor it. Additional structur consultation and approval by fisher				ie nature of	which are s		Project Tota	I		236,291
			Δ	dopted 202	3		Projected R	equirements		
	Fund	Prior	Reappro-	Adopted 2023 New			-	equirements		Total
Source of Funds	Fund No.	Prior Years			3 Total	2024	Projected R 2025	equirements 2026	2027	Total Project
Source of Funds Revenue Generating Fund		-	Reappro-	New		2024	-	-		
		Years	Reappro-	New Funding	Total	2024	-	-		Project
		Years	Reappro-	New Funding	Total	2024	-	-		Project
		Years	Reappro-	New Funding	Total	2024	-	-		Project

Division: Electric			Project Pric	ority:	13		Project Nur	nber:		
Description: Maintaining reliable diesel generation and transmission-line outages is ex- architecture and engineering consulta KPU Electric's existing diesel genera The evaluation will identify and reco- include limitations and vulnerabilities redundancy; evaluation of future syst power sources; and recommendation capacity, locations, fuel supplies, air	laintaining reliable diesel generation capacity for times of high-loads, low reservoir levels and hydroelectric nd transmission-line outages is extremely important for the integrity of Ketchikan's electrical grid. An rchitecture and engineering consultant specializing in diesel generation and facilities will be hired to evaluate PU Electric's existing diesel generation capabilities at Bailey Power Plant and North Pt. Higgins Substation. he evaluation will identify and recommend solutions for existing and future reliability. Items to address iclude limitations and vulnerabilities of the existing infrastructure; determination of what is needed for existing edundancy; evaluation of future system growth without the immediate ability to add new hydropower or other ower sources; and recommendations for solutions and options encompassing additional diesel generation apacity, locations, fuel supplies, air quality permits, conceptual designs and budgetary estimates for detailed esign and construction options of those solutions.									180,000 180,000
			A	Adopted 202	3		Projected R	equirement	S	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		120,000	60,000		60,000					180,000
Total		120,000	60,000		60,000					180,000

Division: Electric		Project Prior	ity:	14		Project Numb	ber:		
Project Title: Vehicles & Moving Equipment		Start Date: End Date:		01/23 12/27		Estimated Pro	oject Cost:		
Description:						Land/Right-of-	Way		
This project is for the purchase of one (1) used exc maintain an efficient and safe operating fleet, vehic						Construction N	Management		
following is a schedule of the vehicles to be purcha				ni a regular cyc		Construction Equipment			1,715,000
Purchase: 1) Mid-Size 20.000lb Rubber Track Excavator - est	timated \$100.00	0				Other			.,,
2) Digger/Derrick Insulated Boom Truck - estimated	d \$450,000					Project Total			1,715,000
 3) 3/4-Ton Work Truck with Serviice Body - estima 4) Propane Forklift - estimated \$50,000 	ted \$65,000								
Replaces:									
1) 2007 Kubota U-45 12,000lb Mini-Excavator #18 2) 1998 Simon-Telelect Digger/Derrick #184-97	3-57								
3) 2003 Ford F-250 #185-61									
Projections: 2024 Replace 2003 large bucket truck #185-59 \$4	50.000								
2025 Replace small work truck(s)/van(s) \$100,000)								
2026 Replace 2017 small bucket truck #186-15 \$1 2027 Replace 2014 large bucket truck #186-06 \$3									
			Adopted 2023			Projected R	equirements		
	Prior	Reappro-	New						Total
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund			665,000	665,000	450,000	100.000	150,000	350,000	1,715,000
- J			,	,	,	,	,	,	, _,
Total			665,000	665,000	450,000	100,000	150,000	350,000	1,715,000

Division: Electric		Project Priority:			15		Project Numl	ber:		
Project Title: Operating Equipment		Start Date:			01/23		Estimated Pr	oject Cost:		
		End Date:			12/27		Design			
Description:							Land/Right-of-	-Way		
This capital account provides for the purchase of ne electrical service.	w or replacem	ent equipment use	d for the op	peration	and maintena	nce of	Construction I Construction	Vanagement		
1) Substation and Powerhouse Electronic Meters. Re	elays and Cont	trol Equipment	\$ 25	5,000			Equipment			1,476,000
2) Recording Equipment			\$ 10	0,000			Other			
3) New Test/Indication/Recording Equipment, Repair	r & Recalibratio	on	\$ 30	0,000			Project Total			1,476,000
4) Meters, Probes, Hand Tools, Radios			\$ 25	5,000						
5) Customer Current & Potential Transformers			\$ 50	0,000						
6) Generation and Powerhouse Spare Parts			\$ 65	5,000						
7) Spare Powerhouse Generator Breakers			\$ 15	5,000						
8) Control Equipment Upgrades			\$ 25	5,000						
9) SCADA Critical Parts			\$ 10	0,000						
10) Radio Replacement/Parts			\$ 10	0,000						
11) Flail Mower for Kubota			\$ 1 1	1,000						
			Adopted 2	023			Projected R	equirements		
	Prior	Reappro-	Nev							Total
Source of Funds	Years	priated	Fundi		Total	2024	2025	2026	2027	Project
										,
Revenue Generating Fund			276	6,000	276,000	300,000	300,000	300,000	300,000	1,476,000
Total			276	6,000	276,000	300,000	300,000	300,000	300,000	1,476,000

Division: Electric		Project Prior	ity:	16		Project Num	ber:		
Project Title: Bailey Exhaust Stack Re-Coating]	Start Date: End Date:		01/23 12/24		Estimated Pr Design/Licens Land/Right-of	se		25,000
Description: This project is to sandblast and paint all four corrosion coating. These efforts will mitigate fi and/or replacement. Work in development undertake the work in 2023 and 2024.	urther corrosio	on that may othe	erwise lead to	eventual high	cost repairs	Construction I Construction Equipment Other			65,000
						Project Total			90,000
			Adapted 2022	1		Drois stad D			
	Prior	Reappro-	Adopted 2023 New			Projected R	equirements	1	Total
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund			55,000	55,000	35,000				90,000
Total		1	55.000	55.000	35.000		İ		90.000

Division: Electric			Project Pric	ority:	17		Project Nu	nber:		
Project Title: Bailey Unit No. 1 Reha	abilitation		Start Date: End Date:		01/19			Project Cost	:	
Description: Bailey Generator No. 1 (BAG1) was main bearing failure, which caused e of the turbocharger, fuel delivery sys connecting rods, pistons, bearings may require additional funding if over	extensive dan stem and eng and related c	nage to the p ine compone components.	ring operation powertrain. T ents including The estimat	This project w g injectors, m te assumes o	ill fund the re ain journals, onsite work.	l suffered a ehabilitation crankshaft,	Design Land/Right- Construction Construction Equipment Other Project Tota	n Manageme n	nt	325,000 540,835 865,835
				Adopted 202	3		Projected R	equirements	6	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		15,835							850,000	865,835
Total		15,835							850,000	865,835

Division: Electric		Project Prior	ity:	18		Project Numb	ber:		
Project Title: Transformer Purchase		Start Date:1/23Estimated Project Cost:End Date:12/27Design							
Description:						Land/Right-of-			
This capital account funds the routine and pre						Construction N Construction	Management		
mounted transformers throughout the system. price of metals.	Projected inc	creases are an	ticipated due to	o the expected	d rise in the	Equipment Other			830,000
						Project Total			830,000
			Adopted 2023			Projected Re	equirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			100,000	100,000	155,000	175,000	175,000	175,000	780,000
Total			100,000	100,000	155,000	175,000	175,000	175,000	780,000

Division: Electric			Project Pric	ority:	19		Project Nun	nber:					
Project Title: AMI, Meters and M	leter Replacerr	nent Parts	Start Date: End Date:		01/23 12/27		Estimated F	Project Cost:					
Description: The division continues phasing in t			available adva		ng functions,		Land/Right-o	n Managemer	nt				
automated billing. This project fun- hardware. This project also funds commercial meters that are on a 20	validating met	ering syste	m accuracy a	and replacem			Equipment Other	1		810,000 810,000			
commercial meters that are on a 20 year replacement schedule (or 5% per year)													
	Adopted 2023								Projected Requirements				
	Fund	Prior	-	Adopted 2023	3		Projected R	equirements		Total			
Source of Funds	Fund No.	Prior Years	A Reappro- priated	Adopted 2023 New Funding	3 Total	2024	Projected Ro 2025	equirements 2026	2027	Total Project			
Source of Funds Revenue Generating Fund		-	Reappro-	New			-	-		Project			
		-	Reappro-	New Funding	Total	2024	2025	2026	2027	Project			
		-	Reappro-	New Funding	Total	2024	2025	2026	2027	Project			
		-	Reappro-	New Funding	Total	2024	2025	2026	2027				

Project Title: Additional Projects Start Date: End Date: 01/23 12/27 Estimated Project Cost: Design Land/Right-of-Way Construction Management Construction Management Cons	Division: Electric		Project Priori	ity:	20		Project Numb	oer:		
Construction Management Construction br>Other Project Total 820.000 Total Prior Years Adopted 2023 Projected Requirements Funding Total 2024 2025 2026 2027 Project Project Revenue Generating Fund I 164,000 I	Project Title: Additional Projects							oject Cost:		
Now Prior Years New 2026 2026 2027 Total Project Revenue Generating Fund Image: Colspan="6">Image: Colspan="6" Image: Colspan=""6" Image: Colspa=""6" Image: Colspan="6" Imag	This project represents funds for materials an perform in 2023. Examples of additional pro transformers, upgrading existing transformer	ojects include rs and bank	nidentified jobs the installations and upgrad	on of new tra ing secondary	on will be call nsformers and lift poles. T	d banks of	Land/Right-of- Construction N Construction Equipment Other	-		
Revenue Generating Fund 164,000 164,000 164,000 164,000 164,000 820,000	Source of Funds		Reappro-	New		2024	Projected Re	-	2027	Total
				Ŭ		164,000	164,000	164,000	164,000	820,000

Division: Electric		Project Prior	ity:	21		Project Numb	ber:		
Project Title: Reimbursable Projects		Start Date: End Date:		01/23 12/27		Estimated Pro	oject Cost:		
Description: This capital account represents funds for mat						Land/Right-of- Construction N Construction	,		
request of outside agencies and customers damage repairs to the electrical system re- expectation is that such work will be reimburg	sulting from a sed 100%. Thi	ccidents, negl s CIP provides	igence and va	andalism. Th	e division's	Equipment Other Project Total			125,000 125,000
transformer accounts to be replenished due to	customer proj								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Duinu		Adopted 2023			Projected R	equirements		Tatal
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			25,000	25,000	25,000	25,000	25,000	25,000	125,000
Total			25,000	25,000	25,000	25,000	25,000	25,000	125,000

						_			
Division: Electric		Project Prior	ity:	22		Project Num	ber:		
Project Title: Bailey Generator Radiator Rep	lacement	Start Date:		1/23		Estimated Pr	•		
Description:		End Date:		12/24		Design/Licens Land/Right-of			40,000
·			44	Construction					
	radiators for Bailey Generator No. 3 (BAG3) and No. 4 (BAG4) continually develop leaks in the core, tting and removing parts of the radiator system. Increased generator usage and subsequent increased								60,000
maintenance of the cooling system may resu radiators and cooling systems It may be pos	plete	Equipment Other			240,000				
replacement. 2023 funding allows for inspec specifications (if necessary).			340,000						
			Adopted 2023			Projected R	equirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	Total Project		
Source of Funds	Tears	priateu	runung	TOtal	2024	2023	2026	2027	FTOJECI
Revenue Generating Fund			40,000	40,000	300,000				340,000
Total			40,000	40,000	300,000				340,000

Division: Electric		Project Prior	ity:	23	i	Project Num	per:			
Project Title: Beaver Falls Governor Upgrade Description:		Start Date: End Date:		01/25 12/25		Estimated Pr Design Land/Right-of	50,000			
KPU Electric's hydro systems lack provision f sometimes occurs during outages and restor isoc/droop governor operation for Beaver Falls		Construction I Construction Equipment Other Project Total	Management		175,000 25,000 250,000					
			Adopted 2023	3		Projected Requirements				
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project	
Revenue Generating Fund					250,000			250,000		
Total						250.000			250.000	

Division: Electric			Project Pric	ority:		Project Num	nber:			
Project Title: Silvis Shaft & Turbine	Overhaul		Start Date:		01/25		Estimated P	Project Cost:		
Description:			End Date:		12/25		Design Land/Right-c	of Wov		50,00
-							•	Management	t	
The original turbine has had nume bearing surfaces require machine							Construction	-		
components require upgrades. Thi						ner major	Equipment Other			650,00 50,00
							Project Total			750,00
			-			1				1
	Fund	Prior	Reappro-	Adopted 2023 New	3		Projected Re	equirements		Total
Source of Funds	Fund No.	Prior Years	-		3 Total	2024	Projected Re 2025	equirements 2026	2027	
		-	Reappro-	New		2024			2027	Projec
		-	Reappro-	New		2024	2025		2027	Projec
		-	Reappro-	New		2024	2025		2027	Projec
		-	Reappro-	New		2024	2025		2027	Projec
		-	Reappro-	New		2024	2025		2027	Projec
Source of Funds Revenue Generating Fund		-	Reappro-	New		2024	2025		2027	Total Project 750,00

Division: Electric				Project Nun	nber:					
Project Title: Ketchikan Lakes Project	ct Relicensing	1	Start Date:		01/24			Project Cost	:	
Description:			End Date:		12/30		Design Land/Right-o	of-Wav		1,100,000
The Ketchikan Lakes Hydroelectric F (FERC) for a term of 30 years. KPU' begin the process in 2024 with devel Intent (NOI) in 2025. Following NEP application is due in 2028. This proc and surveys. Relicensing costs are h consultation process.	's current lice opment of a F A and tribal c cess will requi	nse expires Preliminary onsultation re professio	s in 2030. To Application D s, and comple onal services	renew its FE locument (PA etion of studio for FERC rec	RC license, I AD), and file I es, a final lice julatory work	KPU must Notice of ense , studies	•	n Managemei n	nt	100,000 1,200,000
			A	Adopted 202	3		Projected R	equirements	\$	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund						300,000	300,000	300,000	300,000	1,200,000
Total						300,000	300,000	300,000	300,000	1,200,000

Division: Electric			Project Pric	ority:	26		Project Nur	nber:		
 Project Title: 34.5 kV Breaker and Description: 34.5kV (38kV) Recloser with consubstation. These are critical component. 	ntrol cables a			l in the tran	01/25 12/25 smission sy		Estimated Project Cost: Design Land/Right-of-Way Construction Management Construction			5,000
substation. These are childar comp	ments for sys	tem section	anzing and is				Equipment Other Project Tota	I		100,000 105,000
	_			Adopted 202	3		Projected R	equirements		-
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund							105,000			105,000
Total							105,000			105,000

Division: Electric		Project Prior	ity:	27		Project Num	ber:		
Project Title: Bailey Fuel Tank Painting Description:		Start Date: End Date:		1/25 12/25		Estimated Project Cost: Design Land/Right-of-Way			
Bailey 210,000 gallon fuel tank pressure wash diameter.	all and 30' in	Construction I Construction Equipment Other Project Total			100,000 100,000				
			Adopted 2023	8		Projected R	equirements	-	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund					100,000				100,000
Total					100.000				100.000

Divisions Electric			·			Ducies			
Division: Electric		Project Priori	ity:	28		Project Num	ber:		
Project Title: Vehicle Lift Replacement		Start Date:		1/23		Estimated Pr	oject Cost:		
		End Date:		12/23		Design			
Description:						Land/Right-of			
The existing stationary 4-post vehicle lift has weigh 18,000 pounds. The intent is to purcha							Management		
pounds.	ise a set of to	ur (4) mobile w	neer mis with a	capacity of at		Equipment			80,000
						Other			00,000
						Project Total			80,000
									-
			Adopted 2023			Projected R	equirements	1	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
	Tears	priated	Funding	Totai	2024	2025	2020	2027	Flojeci
Revenue Generating Fund			80,000	80,000					80,000
-									
Total			80,000	80,000					80,000

Division: Electric			Project Pric	ority:	29		Project Nur	nber:		
Project Title: Digital Radio System U	Jpgrades		Start Date: End Date:		01/23 12/23		Estimated I	Project Cost	:	15,000
			t safety tool wł	ty tool when maintaining utility equipment. This ystem has coverage issues and uses multiple					nt	13,000
channels for communication. The up	graded system	will improve	e island-wide o	coverage and	migrate to a	single use	Equipment Other Project Tota	ıl		100,000 10,000 125,000
			A	Adopted 202	3		Projected R	equirements	S	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund				125,000	125,000					125,000
Total				405.000	405.000					405.000
Total			1	125,000	125,000			1	1	125,000

Division: Electric		Project Priori	ity:	30		Project Number:				
Project Title: Beaver Falls Switch Gear Repla	acement	Start Date:		01/17		Estimated Pr	oject Cost:			
		End Date:		12/23		Design/Licens	-		90,000	
Description:						Land/Right-of	,			
						Construction I		10,000		
	ne Beaver Falls powerhouse switchgear needs replacement and is an operating risk to the power plant. The disting equipment is 1940s vintage and beyond its reliable life. It has been identified as containing asbestos									
0 1 1 0	0	Construction Equipment			207,150 1,000,000					
materials, which will need to be abated d replacement/upgrade of the three (3) genera		Other			140,000					
years and requires engineering services, pla	panels, DC electrical equipment and modification of the control room. This is a major project requiring ar established scope of work and detailed work schedule. This project will be completed in phases over multiple years and requires engineering services, planning, plans and specifications, the procurement of equipment, the demolition/installation of equipment and commissioning.									
			Adopted 2023	}		Projected Requirements				
	Prior	Reappro-	New						Total	
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project	
Revenue Generating Fund	105,000	1,372,150		1,372,150					1,477,150	

Division: Electric	31		Project Nur	nber:						
Project Title: Silvis Tunnel Valve	Replacemen	t	Start Date: End Date:		01/25 12/26		Estimated I Design	Project Cost:		40,000
Description:	-								at	
The Silvis tunnel valve leaks badly and is no longer capable of shutting off water to the penstock and Silvi Powerhouse. This has implications for project safety and the ability to maintain the plant. Given the location of the valve in a tunnel at the top of a steep slope, this will be a challenging project.								า Managemer า	n	400,000
										440,000
	F	Datas		Adopted 202	3		Projected R	.		
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Funds										440,000
Total							40,000	400,000		440,000

Division: Electric			Project Priority:			32		mber:		
Project Title: Penstock Inspection	ons		Start Date: End Date:		01/24 12/24		Estimated Design	Project Cost	::	
Description: Comprehensive exterior and interior steel penstocks.	or inspections	of the c. 1				Land/Right-of-Way			100,000 100,000	
				Adopted 202	3		Projected R	equirements	s	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Funds						100,000				100,000
Total						100,000				100,000

Division: Electric	Project Nu	nber:								
Project Title: Whitman Dam Cra Description:	End Date: 12/24 Design Land/Right-of-Way Construction Management									30,000
Whitman Dam has several significant leaks, cracks and spalled areas, which, though not an immediate dam safety concern, need to be repaired to prevent deterioration over time. Repairs should be designed by a Professional Engineer and submitted to FERC prior to implementation. Construction Equipment Other Project Total									50,000	
							Project Tota	l		80,000
				Adopted 202	3		Projected R	equirements	3	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Funds				30,000	30,000	50,000				80,000
Total				30,000	30,000	50,000				80,000

Division: Electric			Project Pric	ority:	34		Project Nu	mber:		
Project Title: Whitman Incubatio	n Pipe Flow M	eter	Start Date: End Date:		01/23 12/23		Estimated I Design	Project Cost	:	10,000
Description: The FERC license for the Whitman Lal	ka Hudraalaatria	project requ		n of a flow mot		the	Land/Right-	of-Way n Manageme	nt	10,000
quantity of water delivered to the SSR/ meter, excavation and earthwork, SCA	AA fish hatchery.	. This proje	ct includes pur	chase and inst			Construction Equipment Other	ו		40,000
							Project Tota	I		50,000
			4	Adopted 2023	3		Projected R	equirements	5	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Funds				50,000	50,000					50,000

Division: Electric			Project Pric	ority:	35		Project Nur	nber:		
Project Title: Bailey Title V Rend	ewal		Start Date:		01/24		Estimated F	Project Cost	:	
Description:			End Date:		12/24		Design Land/Right-o	of-Way		
Bailey Powerhouse's air quality per for renewal. Failure to renew the p diesel generators.							Constructior Constructior Equipment Other Project Tota	1	nt	30,00 30,00
			4	Adopted 202	3		Projected R	equirements	3	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Funds						30,000				30,00
Total										

Division: Elect	ric			Project Prior	rity:	36		Project Nun	nber:		
Project Title: Description:	Transmission & Distribu Maintenance	tion Line		Start Date: End Date:		01/23 12/27		Estimated F Design Land/Right-c	Project Cost:		
The Electric Divis	sion maintains over 4,600 ut a means for engineering ass ded to augment KPU crews	sessments of ex	xisting poles,	engineering ar	nd design wor	k for replacem	ent of	•	n Managemer	ıt	1,500,000
								Project Total	I		1,500,000
					dopted 2023	3		Projected Re	equirements		
So	ource of Funds	Fund No.	Prior Years	A Reappro- priated	dopted 2023 New Funding	3 Total	2024	Projected Ro 2025	equirements 2026	2027	Total Project
So Revenue Gener				Reappro-	New			-			
				Reappro-	New Funding	Total		2025		2027	Project

Description: Land/Right-of-Way The Port West Substation reached end-of-life and has been partially removed from service. The substation will be reconfigured, loads sectionalized, and added to Bethe Substation as a new feeder, feeder No. 3. Land/Right-of-Way Construction Management Construction 20,000 Equipment 65,000 Other 5,000 Project Total 100,000 Equipment 65,000 Other 5,000 Project Total 100,000 Fund Prior Reappro- New priated Funding Total 2025 2026 2027 Project Project	Division: Electric			Project Pric	ority:	37		Project Nur	nber:		
Source of FundsFund No.Prior YearsReappro- priatedNew FundingTotal2024202520262027Total ProjectRevenue Generating FundsImage: State of the sta	Modification End Date: 12/23 Design Description: The Port West Substation reached end-of-life and has been partially removed from service. The substation will be reconfigured, loads sectionalized, and added to Bethe Substation as a new feeder, feeder No. 3. Design Land/Right-of-Way Construction Equipment Other Project Total									10,000 20,000 65,000 5,000 100,000	
Revenue Generating Funds 100,000 100,000 100,000	Source		-	Reappro-	New		2024				
				P							100,000

Division: Electric			Project Pric	ority:	38		Project Num	nber:		
Project Title: System Sectiona	alizers		Start Date:		01/23		Estimated P	roject Cost:		
Description:			End Date:		12/25		Design Land/Right-c	f Mov		30,000
This project provides funding for the and associated engineering studies.							•	Management	t	
Electric's distribution system, allowing							Equipment Other			260,000 10,000
							Project Total			300,000
										•
	Fund	Prior	Reappro-	Adopted 2023 New	3		Projected Re	equirements		Total
Source of Funds	Fund No.	Prior Years	-		3 Total	2024	Projected Re 2025	equirements 2026	2027	Total Project
Source of Funds Revenue Generating Funds			Reappro-	New				-	2027	
			Reappro-	New Funding	Total	2024	2025	-	2027	Project
			Reappro-	New Funding	Total	2024	2025	-	2027	Project
			Reappro-	New Funding	Total	2024	2025	-	2027	Project

Division: Electric			Project Pric	ority:	39		Project Nu	mber:		
Project Title: Silvis Road Repair			Start Date: End Date:		01/23 12/23		Estimated Design	Project Cost	:	
Description: Implement an engineered solution Silvis Lake, that otherwise could lim was hired in 2022 to develop plans.	it or complete		n issue on th		ess Road, alc		Land/Right- Constructio Constructio Equipment	n Manageme	nt	75,000
							Other Project Tota	al		75,000
				Adopted 202	3		Projected R	equirements	S	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Funds				75,000	75,000					75,000
Total			T	75,000	75,000		1	Ī		75,000

Ketchikan Public Utilities 2023 - 2027 Capital Improvement Program Division: Telecommunications										
	<u> </u>			dopted 202			Projected P	equirement	•	1
		Prior	Reappro-	New	.5	•			3	Total
Project Title	Priority	Years	priated	Funding	Total	2024	2025	2026	2027	Project
REGULATED										
Normal Growth and Repair - Buildings	1			50,000	50,000	50,000	50,000	50,000	50,000	250,000
Normal Growth and Repair - CO Switching	2			700,000	700,000	100,000	75,000	75,000	75,000	1,025,000
Normal Growth and Repair - Copper Cable	3			25,000	25,000	25,000	25,000	25,000	25,000	125,000
Normal Growth and Repair - Fiber Cable	4		50,000	100,000	150,000	100,000	100,000	100,000	100,000	550,000
Normal Growth and Repair - CO Transmission	5			150,000	150,000	200,000	200,000	250,000	300,000	1,100,000
Normal Growth and Repair - Expansion	6			25,000	25,000	30,000	35,000	35,000	35,000	160,000
Normal Growth and Repair - Provisioning	7			10,000	10,000	10,000	150,000	50,000	50,000	270,000
Fiber to the Home	8		212,000	250,000	462,000	100,000	100,000	100,000	100,000	862,000
Remote Cabinets for Advanced Services	9			50,000	50,000	50,000	50,000	50,000	75,000	275,000
Core Network Upgrade	10			100,000	100,000	1,000,000	750,000	750,000	250,000	2,850,000
Server Environment	11			400,000	400,000	100,000	100,000	100,000	200,000	900,000
Multi-Dwelling Unit Projects	12		20,000	220,000	240,000	200,000	200,000	200,000	200,000	1,040,000
Operating Equipment	13		-,	100,000	100,000	50,000	50,000	50,000	100,000	350,000
PC Hardware & Software	14			60,000	60,000	60,000	60,000	60,000	65,000	305,000
Power Expansion/Reclamation	15			100,000	100,000	50,000	50,000	50,000	50,000	300,000
Visual Mapping Software	16			10,000	10,000	50,000	25,000	25,000	25,000	135,000
Network Monitoring	17			100,000	100,000	100,000	100.000	100,000	100,000	500,000
Vehicle Acquisition	18			350,000	350,000	100,000	50,000	50,000	50,000	600,000
Security	10	223,511		100,000	100,000	100,000	100,000	150,000	300,000	973,511
NON-REGULATED	10	220,011		100,000	100,000	100,000	100,000	100,000	000,000	575,511
Headend Expansion	20			25.000	25.000	15.000	15.000	25,000	25,000	105,000
Video Set Top Boxes	21			25,000	25,000	25,000	25,000	20,000	20,000	75,000
4G/LTE	22			300,000	300,000	100,000	100,000	100,000	100,000	700,000
Microwave	22			300,000	300,000	20,000	20,000	100,000	100,000	40,000
Hosted	23			250,000	250,000	150,000	100,000	100,000	100,000	700,000
WiFl	24 25			250,000	250,000	50,000	50,000	65,000	75,000	290,000
Internet Expansion	25 26			50,000	50,000	100,000	200,000	200,000	600,000	290,000
•	26 27		676,500	50,000	· ·	100,000	200,000	200,000	000,000	
KetchCan1 Subsea Cable Repair	21		070,000		676,500					676,500
Total		223,511	958,500	3,600,000	4,558,500	2,935,000	2,780,000	2,760,000	3,050,000	16,307,011
					•		Duele start D			
		Prior		Adopted 202 New	ა 		Projected R	equirements	1	Tatal
Source of Funds		Years	Reappro- priated	Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		223,511	958,500	3,600,000	4,558,500	2,935,000	2,780,000	2,760,000	3,050,000	16,307,011
Total		223,511	958,500	3,600,000	4,558,500	2,935,000	2,780,000	2,760,000	3,050,000	16,307,011

Division: Telecommunications		Project Pri	ority:	1		Project Num	nber:		
Project Title: Normal Growth and Repair - Buildings		Start Date: End Date:		01/23 12/27		Estimated P Design	-	:	
Description: This capital account provides funding for improve replacement of lighting fixtures and installation of division will make significant repairs to the truck barr	f building alar	ms or relate	d security it	ems. Additi	onally, the	Land/Right-c Construction Construction Equipment Other	Managemer	nt	250,000
						Project Total	I		250,000
			dopted 202	3		Projected Re	quirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			50,000	50,000	50,000	50,000	50,000	50,000	250,000
									230,000

Division: Telecommunications		Project Price	ority:	2		Project Nun	nber:		
Project Title: Normal Growth and Repair - Central Office	e	Start Date:		01/23		Estimated F	Project Cost	:	
Switching		End Date:		12/27		Design	<i></i>		
Description:						Land/Right-o	•	at	
This capital account provides funding for reliability upg					d for the	Construction Construction	•	IL	
division's telecommunications switching and voice over least cost routing and fraud detection, as well as to ensu					ennance	Equipment Other	,		1,025,000
Additionally, this budget item purchases one new softsw	vitch to repla	ace the end-o	f-life T7000 d	class 5 switcl	h in 2023	Project Tota	I		1,025,000
to work in tandem with the Broadworks feature softswito border controllers with newer hardware and software platforms.									
	T	A	dopted 202	3	F	Proiected Re	auirements		
	Prior	A Reappro-	Adopted 202 New	3		Projected Re	equirements		Total
Source of Funds	Prior Years		New Funding	Total	2024	2025	2026	2027	Project
Source of Funds Revenue Generating Fund	_	Reappro-	New				•		

Division: Telecommunications		Project Price	ority:	3		Project Nun	nber:		
Project Title: Normal Growth and Repair - Copper C	able	Start Date:		01/23		Estimated F	Project Cost:	:	
		End Date:		12/27		Design	5 \ \ \ /		5,000
Description:						Land/Right-c	•	at	
This capital account provides funding for the replac	comont of data	riorated cable	and constr	ruction of mi	nor cablo	Construction	-	n	50.000
projects, including line extensions. This capital account					hardware	Equipment			70,000
required to reconnect to poles replaced by the Electric	ic Division. The	e copper plant	, while decrea			Other			
aging and will need maintenance work to keep function	oning optimally	over the next	10 years.			Project Total			125,000
		Δ	dopted 2023	3		Proiected Re	auirements		
	Prior	Reappro-	Adopted 2023 New			Projected Re			Total
Source of Funds	Prior Years		New Funding	Total	2024	2025	2026	2027	Project
Source of Funds Revenue Generating Fund		Reappro-	New			-			
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project

Project Title: Normal Growth and Repair - Fiber Cable Description: This capital account provides funding for additional fiber optic r fiber projects necessary for the efficient operation of the Utility labor for continued installation of fiber service drops for custom reach 1Gbps and beyond to 10Gbps copper circuits will no longe	. This capital a ners who order h	ness data cir ccount also i igh bandwidt	ncludes mat		Estimated F Design Land/Right-c Construction	of-Way		11,000
This capital account provides funding for additional fiber optic r fiber projects necessary for the efficient operation of the Utility labor for continued installation of fiber service drops for custom	network for busi . This capital a ners who order h	ccount also i igh bandwidi	cuits includir ncludes mat		Land/Right-o	•		11,000
This capital account provides funding for additional fiber optic r fiber projects necessary for the efficient operation of the Utility labor for continued installation of fiber service drops for custom	. This capital a ners who order h	ccount also i igh bandwidi	ncludes mat		•	•		
fiber projects necessary for the efficient operation of the Utility labor for continued installation of fiber service drops for custom	. This capital a ners who order h	ccount also i igh bandwidi	ncludes mat		Construction		nt	
labor for continued installation of fiber service drops for custom	ners who order h	igh bandwidt		oriale and	Construction	-		302,500
					Equipment			236,500
					Other			
					Project Total			550,000
Prio		New	T ()	0004			0007	Total
Source of Funds Year		Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund	50,000	100,000	150,000	100,000	100,000	100,000	100,000	550,000
Total	50,000	100,000	150,000	100,000	100,000	100,000	100,000	550,000

Division: Telecommunications		Project Pri	ority:	5		Project Nur	nber:		
Project Title: Normal Growth and Repair - CO Transm	ission	Start Date:		01/23		Estimated I	Project Cos	t:	
Description:		End Date:		12/27		Design Land/Right-o	of May		
This capital account provides funding for the purchase Devices (NIDS) and Optical Network Terminals (ONTS optic cable; internal network fiber ports; network transf with new private line services including digital data se migration off the division's legacy platforms, which are both Optical and VDSL services. In 2025 the Total Ac need to implement a new FTTH platform. Furthermore power necessary to keep this network equipment running	S) required mission elec service, opti e no longer ccess Adtra e this accou	to deliver ser stronics neces cal wide area supported, to n platform wil	vice to custo sary to serve a network, T the standard Il likely be el	omers served e business d 1s, etc.; fini d Adtran pla nd-of-life, so	d via fiber customers ishing the tforms for KPU will	Construction Construction Equipment Other Project Tota	า Manageme า	ent	88,000 1,012,000 1,100,000
		A	dopted 202	3		Projected Re	quirements	6	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			150,000	150,000	200,000	200,000	250,000	300,000	1,100,000
Total			150,000	150,000	200,000	200,000	250,000	300,000	1,100,000

This capital account provides funding to upgrade, maintain and	Start Date: End Date:		01/23		Estimated P	rainat Cast		
This capital account provides funding to upgrade, maintain and	End Date: 12/27				Estimated Project Cost: Design Land/Right-of-Way			
This capital account provides funding to upgrade, maintain and expand the division's "off island" connections, ensuring reliable services are provided to underserved, outlying areas. This project utilizes both wireless and fiber technologies to provide services to remote areas.								
		Adopted 2023			Projected Re	quirements		
Prio Source of Funds Yea		New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		25,000	25,000	30,000	35,000	35,000	35,000	160,000

Division: Telecommunications		Project Price	ority:	7		Project Nu	nber:		
Project Title: Normal Growth and Repair - Provisioning Description:		Start Date: End Date:		01/23 12/27		Design	Project Cost: of-Way		72,900
This capital account provides funding for the introduction, upgrade, automation and integration of systems necessary to promote the enhancement of the customer service and support experience. In 2025, efforts will begin to attempt to replace the division's trouble ticketing software with a new up-to-date system.									
			dopted 202	3		Projected R	equirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			10,000	10,000	10,000	150,000	50,000	50,000	270,000
Total			10,000	10,000	10,000	150,000	50,000	50,000	270,000

Division: Telecommunications		Project Prie	ority:	8		Project Nur	nber:		
Project Title: Fiber to the Home		Start Date:		01/23			Project Cost	t:	04 550
Description:		End Date:		12/27		Design Land/Right-	of-Way		21,550
This capital account provides funding for contract la to homes, businesses and multi-dwelling units throu to look into providing fiber into outlying, underserved	ughout Ketchika		Construction Construction Equipment Other	n Manageme n	nt	323,250 517,200			
	ig is preparing a large fiber overlay project for Ward Cove that will also address fiber shortages in the I d and Sunset Drive areas. Funding from 2022 will be reappropriated in order to provide a sufficie								862,000
		-	dopted 202	3		Projected Re	quirements	;	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		212,000	250,000	462,000	100,000	100,000	100,000	100,000	862,000
Total		212,000	250,000	462,000	100,000	100,000	100,000	100,000	862,000

Division: Telecommunications		Project Prie	ority:	9		Project Num	ber:		
Project Title: Remote Cabinets for Advanced Services	3	Start Date: End Date:		01/23 12/27		Estimated Pr Design	-		6,875
This project also equips RSC's with remote monitoring	account provides funding for the maintenance and/or replacement of remote switching cabinets (RSC). also equips RSC's with remote monitoring sensors, ensuring technicians can remotely detect proper ior to failure. This account also funds the out-of-band network back to the Central Office. Over the rrs several remote cabinets need to be replaced.								20,625 247,500 275,000
			dopted 202	3		Projected Re	quirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			50,000	50,000	50,000	50,000	50,000	75,000	275,000
Total			50,000	50,000	50,000	50,000	50,000	75,000	275,000

Division: Telecommunications		Project Pric	ority:	10		Project Nur	nber:		
Project Title: Core Network Upgrade		Start Date: End Date:	-	01/23 12/27		Estimated I	Project Cost	t:	
Lend Date: 12/27 Design Description: This capital account provides funding for the expansion of the existing core to add additional resiliency and diversity to key components. The current core of the network reaches end-of-life 2023-2025 depending on various types of hardware, and there is an effort in 2024 to move the network from a 10G to a 100G backbone. Land/Right-of-Way Construction Management Construction Equipment Other Project Total								ent	2,565,000 142,500 2,707,500
		Α	dopted 202	3		Projected Re	equirements	6	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			100,000	100,000	1,000,000	750,000	750,000	250,000	2,850,000

Division: Telecommunications		Project Prie	ority:	11		Project Nur	nber:		
Project Title: Server Environment		Start Date:		01/23		Estimated I	Project Cost	t:	
		End Date:		12/27		Design			22,500
Description:						Land/Right-	of-Way n Manageme	ont	
This capital account provides funding for the grow virtualized server environment. This allows the d						Construction	-		22,500
the physical footprint and reducing overall power c						Equipment	855,000		
	nology to supplement the division's hosted datacenter service offerings and offer cloud based service								
									900,000
			dopted 202	3		Projected Re	equirements	5	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			400,000	400,000	100,000	100,000	100,000	200,000	900,000

Division: Telecommunications		Project Prie	ority:	12		Project Nur	nber:		
Project Title: Multi-Dwelling Unit Project		Start Date:		01/23		Estimated I	Project Cost	t:	
Description:		End Date:		12/27		Design Land/Right-	of-Wav		26,000
						Construction		ent	
This capital account provides funding for the of triple-play services to the 40% of KPU cu						Construction	า		26,000
the need to run multiple fibers into multi-d	welling units). This pr	oject will elir	Equipment Other	988,000					
install and maintain the per each fiber electro	onics required for multi	Project Tota	l		1,040,000				
	Prior	A Reappro-	Adopted 202 New	3		Projected Re	equirements	5	Total
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund		20,000	220,000	240,000	200,000	200,000	200,000	200,000	1,040,000
Total		20,000	220,000	240,000	200,000	200,000	200,000	200.000	1,040,000

Division: Telecommunications		Project Prie	ority:	13		Project Nu	mber:			
Project Title: Operating Equipment		Start Date:		01/23			Project Cos	t:		
End Date: 12/27 Design Description: Land/Right-of-Way This capital account provides funding for the test equipment utilized by KPU technicians to test, repair and install high speed data and voice circuits, particularly as it relates to KPU's expanded fiber optic network and 4G networks. A higher expenditure in 2023 involves the purchase of a 100G test set which is considerably more expensive but necessary to pre-qualify subsea fiber circuits the division might sell to a larger customer that would expect proof of capability. As the division sells more capacity over our subsea fiber expectations are that KPU will need to invest more in high-end test equipment. 35 Adopted 2023 Projected Requirements 35										
		L A	Adopted 202	3	I	Projected R	equirements	6		
· · ·	Prior	Reappro-	New						Total	
Source of Funds Revenue Generating Fund	Years	priated	Funding 100,000	Total 100,000	2024 50,000	2025 50,000	2026 50,000	2027 100,000	Project 350,000	
Total			100,000	100,000	50,000	50,000	50,000	100,000	350,000	

Division: Telecommunications		Project Price	ority:	14		Project Nu	mber:		
Project Title: PC Hardware and Software		Start Date: End Date:		01/23 12/27		Estimated Design	Project Cos	t:	
Description:				,		Land/Right-	of-Way		
This capital account funds replacement of outdated of Private Branch Exhange (PBX, business phone), Outsi administrative staff.	ide Plant, C	entral Office	Network Te	chnicians, ar	nd	Construction Construction Equipment Other Project Tota		ent	305,000 305,000
6E services which provide more than 1Gbps over wire	der to remain competitive KPU will be rolling out symmetrical 2.5Gbps and 5Gbps and managed wifi ervices which provide more than 1Gbps over wireless. And KPU will resell WebEx services in 2023 h will require our PBX staff to support and maintain both windows and apple ecosystems fluently.								000,000
		-	Adopted 202	23		Projected R	equirements	\$	
Source of Funds	Prior Years	Reappro- priated	New	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund	Tedis	priateu	Funding 60,000	60.000	60.000	60.000	60.000	65.000	305,000
			00,000				00,000	00,000	000,000
Total			60,000	60,000	60,000	60,000	60,000	65,000	305,000

Division: Telecommunications		ority:	15		Project Nun	nber:					
Project Title: Power Expansion/Reclamation		Start Date: End Date:		01/23 12/27		Estimated F	Project Cost:	:	7,500		
Description: This capital account provides funding for the expa				ng or reclam		Land/Right-o	of-Way ı Managemer	nt	,		
	oment. KPU's North Point Higgins remote generator needs to be replaced in Intain Point remote where our subsea fiber terminates locally.						Construction Equipment Other				
									300,000		
	Prior	A Reappro-	Adopted 202	3		Projected Re	equirements		Total		
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project		
Revenue Generating Fund			100,000	100,000	50,000	50,000	50,000	50,000	300,000		

Division: Telecommunications		Project Price	ority:	16		Project Nun	nber:		
Project Title: Visual Mapping Software		Start Date: End Date:		01/23 12/27		Estimated P Design	-	:	
Description: This capital account provides funding to enhance distribute inside and outside plant design at a enhancements and labor to ensure the system is p 2024 shows additional effort to update and enhancempleted in 2023.	the physical a properly audited	and logical I I and meeting	evels. Futur the needs o	re funding p of division cu	procures stomers. audited	Land/Right-c Construction Construction Equipment Other Project Total	Managemer	nt	16,200 49,950 68,850 135,000
		A	Adopted 202	3		Projected Re	quirements		
Source of Funds	Prior Years	A Reappro- priated	Adopted 2023 New Funding	3 Total	2024	Projected Re 2025	equirements 2026	2027	Total Project
Source of Funds Revenue Generating Fund		Reappro-	New						Total Project 135,000
		Reappro-	New Funding	Total	2024	2025	2026	2027	Project

Division: Telecommunications		Project Prie	ority:	17		Project Nu	mber:		
Project Title: Network Monitoring Start Date: 01/23 Estimated Project Cost: Description: 12/27 Design Land/Right-of-Way This capital account provides funding for the purchase of hardware and software critical to enhancing the monitoring and complete visibility of the KPU network for the purposes of resolving customer issues quickly and putting the network in a place where a variety of monitoring products can be deployed to identify threats. Estimated Project Cost: Design Mathematical description: Use of the purposes of resolving customer issues quickly and putting the network in a place where a variety of monitoring products can be deployed to identify threats. Description: Construction Mathematical description: Adopted 2023 Projected Requirements									
	Prior	A Reappro-	dopted 202 New	3		Projected R	equirements	6	Total
Source of Funds	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund			100,000	100,000	100,000	100,000	100,000	100,000	500,000
Total			100,000	100,000	100,000	100,000	100,000	100,000	500,000

Division: Telecommunications	ns Project Priority: 18						nber:		
Project Title: Vehicle Acquisition		Start Date: End Date:		01/23 12/27		Estimated I Design	Project Cost	:	
Description: This capital account funds replacement of aging veh affecting KPU Telecom's ability to meet customer d need to be replaced over the next few years. C replaced in 2023. Additionally several service veching	lemands. Sev One bucket tr	ent excessive veral of the di uck experien	ivision's buck liced and eng	e costs and b et trucks are gine failure a	aging and and will be ed.	Land/Right- Constructior	n Manageme n	nt	600,000 600,000
	Prior		Adopted 202 New	3	F	Projected Re	equirements		Total
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Source of Funds Revenue Generating Fund	_	Reappro-	New				•		

Division: Telecommunications			Project Pric	ority:	19		Project Nun	nber:		
Project Title: Security			Start Date: End Date:		01/22 12/27		Estimated F Design	Project Cost:	:	107,086
Description:			Enu Date.		12/21		Land/Right-of-Way Construction Management			
This capital account provides funding for the threats in detecting and preventing the division							Construction	0	nt	
Detecting and responding to cyberattacks in network. Security is increasingly an issue in	real-time re	equires a sp	ecialized set	of analytical	software to p	rotect the	Equipment Other			866,425
network when the division moves to a 100G b					norease io p		Project Total			973,511
				Adopted 202	3		Projected Re			
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		223,511	priatou	100,000	100,000	100,000	100,000	150,000	300,000	973,511
Total		223,511		100,000	100,000	100.000	100,000	150,000	300,000	973,511

Division: Telecommunications	TelecommunicationsProject Priority:20						mber:		
Project Title: Headend Expansion		Start Date: End Date:		01/23 12/27		Estimated I Design	Project Cos	t:	525
Description:		End Date.		12/21		Land/Right-			525
This capital account provides funding for the maintena division phases out delivering IPTV.	ance of the V	'ideo Distribut	ion platform	in the Heade	nd as the	Construction Construction Equipment Other Project Tota		ent	5,250 99,225 105,000
		A	Adopted 202	3		Projected Re	equirements	6	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			25,000	25,000	15,000	15,000	25,000	25,000	105,000
Total			25,000	25,000	15,000	15,000	25,000	25,000	105,000

Division: Telecommunications		Project Pri	ority:	21		Project Nur	nber:		
Project Title: Video Set Top Boxes		Start Date: End Date:		01/23 12/27		Estimated I	Project Cos	it:	
Description: This capital account funds the purchase of custome television service. This account also funds the purc time shifted television. The future of video deliver requirements are only based on the assumption that	o provide	provide Equipment 75							
			Adopted 202	3		Projected Re	quirement	s	
Source of Funds	Prior Years	Reappro- priated	Adopted 202 New Funding	Total	1 2024	2025	equirements 2026	s 2027	Total Project
Source of Funds Revenue Generating Fund	_	Reappro-	New			-	•		

Division: Telecommunications		Project Pric	ority:	22		Project Nur	nber:		
Project Title: 4G/LTE		Start Date: End Date:		01/23 12/27		Estimated I Design	Project Cos	t:	7,000
Description:		Lifu Date.		12/21		Land/Right-	•		7,000
This capital account provides continued funding to of the division's 4G/LTE network is unclear but futur a potential 5G future. A new capacity cell site dow goals for 2023. Over the next two years several site	e estimates incl ntown and repla	ude the replac acement of en	ement of exis d of life batte	ting nodes ba	ased upon	Construction Construction Equipment Other Project Tota	n	nt	105,000 588,000 700,000
			Adopted 2023	3		Projected Re	equirements	3	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			300,000	300,000	100,000	100,000	100,000	100,000	700,000
Total			300,000	300,000	100,000	100,000	100,000	100,000	700,000

Division: Telecommunications		Project Pric	ority:	23		Project Nu	mber:		
Project Title: Microwave		Start Date:		01/27			Project Cos	t:	100
Description:		End Date:		12/27		Design Land/Right-	of-Way		400
This capital account provides continued funding to o Canada. As the division enhances fiber redundancy 2026 or 2027.	construct, ex off-island th	pand and ma e NEC micro	aintain KPU's wave system	microwave will likely be	system to e retired in	Construction Construction Equipment Other Project Tota		ent	6,000 33,600 40,000
			Adopted 202	3		Projected R	equirement	s	
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund					20,000	20,000			40,000
Total					20,000	20,000			40,000

Division: Telecommunications		Project Pri	ority:	24		Project Nun	nber:		
Project Title: Hosted		Start Date: End Date:		01/23 12/27		Estimated F Lab System	Project Cost:		105,000
Description:						Jazz			105,000
This capital account provides funding to upgrade, mainta Platforms. In 2023, there will be an effort to acquire a s lab to test new features and Webex software. Further switches that are serving a large number of our hosted ip	eparate red rmore, an e	undant broad effort will be	dworks switch t	that can also	serve as a	Licenses	I		161,000 224,000 105,000 700,000
	Prior	Deennro	Adopted 2023 New			Projected Re	equirements		Total
Source of Funds	Years	Reappro-	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund			250,000	250,000	150,000	100,000	100,000	100,000	700,000
Total			250,000	250,000	150,000	100,000	100,000	100,000	700,000

Division: Telecommunications		Project Pric	ority:	25		Project Num	nber:		
Project Title: WiFi		Start Date: End Date:		01/23 12/27		Estimated P Design	roject Cost:		7,250
Description:						Land/Right-o	f-Way Managemen	+	
This capital account funds the ability for KPU to depl WiFi services for local and transient customers. This customers who are difficult to serve using wired conne the industry the division will need to respond with an	account also ectivity. WiFi	funds efforts is a fast grow	to make WiFi ving technology	available to and to keep	residential pace with	Construction Equipment Other Project Total	-	L	58,000 224,750 290,000
best service including managed WiFi.						,			,
			Adopted 2023			Projected Re	quirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			50,000	50,000	50,000	50,000	65,000	75,000	290,000
1	1					1			

Division: Telecommunications		Project Prior	rity:	26		Project Numb	er:		
Project Title: Internet Expansion		Start Date: End Date:		01/23 12/27		Estimated Pro	ject Cost:		109,000
Description: This capital account provides funding for the grant transport networks providing broadband to the dricincuits and capacity to migrate the internet links be necessary in the future. In 2027, we will likely Point.	livision's non-reg to 100G, subsea	ulated custome fiber optical e	ers. As the c quipment ma	livision sells su intenance and	ubsea fiber growth will	Land/Right-of-\ Construction M Construction Equipment Other Project Total	•		135,000 906,000 1,150,000
			Adopted 202	3		Projected Reg	uirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund - Growth			50,000	50,000	100,000	200,000	200,000	600,000	1,150,000
Total			50,000	50,000	100,000	200,000	200,000	600,000	1,150,000

Division: Telecommunications		Project Prior	rity:	27		Project Numb	er:		
Project Title: KetchCan1 Subsea Cable Repair		Start Date: End Date:		01/23 12/27		Estimated Pro	oject Cost:		
Description:		Lifu Date.		12/21		Land/Right-of-			
This capital account provides funding for the eme become damaged. The North America Zone Maint 2022 and authorizes this annual appropriation. Fund	enance Autho	ority Agreemen	t was approv	ed by the City	/ Council in	Construction N Construction Equipment Other	lanagement		676,500
funds will be reappropriated each budget year.						Project Total			676,500
			Adopted 202	3		Projected Re	quirements		
Source of Funds	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund - Growth	Touro	676,500	i unung	676,500	2024	2020	2020	2027	676,500
Total		676.500		676,500					676,500
I OTAI		0/0,500		0/0,500		1			0/0,500

			tchikan Pub ' Capital Imp	olic Utilities provement Pr	ogram					
			Division:	Water						
				Adopted 202	3		Projected R	equirements		
Project Title	Priority	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Filtration Facility - Preliminary Preparation Tasks	1	562,015	35,319	164,681	200,000	200,000				962,015
Water Meters - Business & Commercial Customers	2	398,480	641,136	210,384	200,000 851,520	200,000				1,500,000
Pump Station Switchgear Improvements	2	396,460	041,130	210,384	27,500	250,000		30.000		1,500,000
Utility Vehicles	4	30,230	75,000	27,500	75,000	20,500	160,000	30,000	112,000	347,000
West Fairy Chasm Replacement	4 5		,	20,000	,		160,000		550,600	585,600
Skyline Water Main Replacement	5 6		15,000 10,000	20,000 20,000	35,000 30,000				550,600 360,800	585,600 390,800
Valve Boxes - Repair of Surrounding Pavement	0 7		50,000	20,000	30,000	50,000	50,000	50.000	50,000	390,800 310,000
Water Distribution Grid Improvements	8		50,000	30,000	30,000	50,000 30,000	50,000 30,000	50,000 30,000	30,000 30,000	310,000
Additional Projects	о 9			40,000	30,000 40,000	30,000 40,000	40,000	40,000	40,000	200,000
Water Service Upgrade Program	9 10			40,000	40,000 15,000	40,000 15,000	40,000	40,000	40,000 15,000	200,000 75,000
Backflow Prevention Program	10			15,000	15,000	15,000	15,000	15,000	15,000	75,000
SCADA PLC Controllers	12	256,500		340,000	340,000	345,000	15,000	15,000	15,000	941,500
UV Facility - UPS Battery Replacement	12	250,500		45,000	45,000	345,000				941,500 45,000
Replace ClorTec Generating Cells	13			45,000 60,000	45,000 60,000	04 500	40,000	42,000		,
Peterson Street Water Main Rebuild	14 15			374,000	374,000	61,500	42,000	43,000		206,500 374,000
Woodland Ave Utility Improvements	15			374,000	374,000		40.000		420.000	470,000
Harris Street Utility Improvements	10						40,000 35,000		430,000 2,000,000	2,035,000
Replace Tongass Ave/ Water Street Suspended Water Main	17					245.000	35,000	1 220 000	2,000,000	
Highlands Reservoir Property Acquisition	10					245,000 300,000		1,230,000		1,475,000 300,000
Second Ave Main Replacement	20					,			4 200 000	,
	20 21					60,000			1,300,800	1,360,800
Evergreen Ave Main Replacement						25,000			440,000	465,000
Denali Ave Main Replacement	22					30,000			512,000	542,000
Total		1,247,245	826,455	1,421,565	2,248,020	1,695,000	427,000	1,453,000	5,856,200	12,926,465
	I I	,,		.,,	.,= , = 0	,,	,	.,,	-,,00	_,,
				Adopted 202	3		Projected R	equirements		
Source of Funda		Prior	Reappro-	New	Total	2024	2025	2026	2027	Total Project
Source of Funds Revenue Generating Fund		Years 848.765	priated 185.319	Funding	Total 1,396,500	2024 1,395,000	2025 427.000	2026	2027	Project
Revenue Generating Fund Revenue Bonds - ADWF Loan		,	,	1,211,181		1,395,000	427,000	223,000	262,000	4,552,265 1,250,000
Proposed ADWF Loan		398,480	641,136	210,384	851,520	150.000		645 000	0 707 400	
Proposed ADWF Loan Proposed State 50% Municipal Assistance Funding						150,000 150,000		615,000 615,000	2,797,100 2,797,100	3,562,100 3,562,100
r roposed state so // municipal Assistance Funding						130,000		015,000	2,131,100	3,302,100
		1,247,245	826,455	1,421,565	2,248,020	1,695,000	427,000	1,453,000	5,856,200	12,926,465

ary Preparation	n Tasks	Start Date:		01/20			Project Cost:		
tershed Control P as set out by the national drinking w by the municipal property ownershi ts have been comp d their reviews of e transmittal of thes ns during their indi	rogram, a Sou EPA, and a re vater regulatic attorney with ip that has bee bleted and deli each of these A se documents vidual reviews	ting Ketchikan a irce Water Qua eport demonstr- ons. The fifth tr support as nee en questioned e ivered to ADEC Action Items and to the EPA Regions or requests for	lity Study, a Wa ating how Ketc ask, Consolidate eded provided t arlier by the EP well before the d updates incor on 10 Administe supplementant	ted Alternative ater Treatment hikan's present ed Ownership S by Perkins Coie, A. COBC specified porating their co rator for the EP/ y information at	Report, and disinfection status of the a legal firm date of omments A's review.	Land/Right-c Construction Construction Equipment Other	Managemen	t	962,015 962,015
		A	dopted 2023	3		Projected Re	equirements		
Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
	562,015	35,319	164,681	200,000	200,000				962,015
	tershed Control P as set out by the national drinking v by the municipal property ownersh ts have been comp d their reviews of e transmittal of thes is during their indi er an extended an Fund	tershed Control Program, a Sou as set out by the EPA, and a re- national drinking water regulatio by the municipal attorney with property ownership that has been ts have been completed and del d their reviews of each of these A transmittal of these documents as during their individual reviews er an extended amount of time, Fund No. Prior Years	tershed Control Program, a Source Water Qua as set out by the EPA, and a report demonstr national drinking water regulations. The fifth t by the municipal attorney with support as nee property ownership that has been questioned e ts have been completed and delivered to ADEC d their reviews of each of these Action Items and transmittal of these documents to the EPA Regi- ns during their individual reviews or requests for er an extended amount of time, perhaps anothe Fund Prior No. Years Priated	or professional services supporting Ketchikan attaining a Limit tershed Control Program, a Source Water Quality Study, a Wa as set out by the EPA, and a report demonstrating how Ketch hational drinking water regulations. The fifth task, Consolidate by the municipal attorney with support as needed provided be property ownership that has been questioned earlier by the EPA ts have been completed and delivered to ADEC well before the d their reviews of each of these Action Items and updates incor- transmittal of these documents to the EPA Region 10 Administr ns during their individual reviews or requests for supplementary er an extended amount of time, perhaps another year or more. Fund Prior Reappro- No. Years Priated Funding	or professional services supporting Ketchikan attaining a Limited Alternative tershed Control Program, a Source Water Quality Study, a Water Treatment as set out by the EPA, and a report demonstrating how Ketchikan's present hational drinking water regulations. The fifth task, Consolidated Ownership S by the municipal attorney with support as needed provided by Perkins Coie, property ownership that has been questioned earlier by the EPA. Its have been completed and delivered to ADEC well before the COBC specified d their reviews of each of these Action Items and updates incorporating their c transmittal of these documents to the EPA Region 10 Administrator for the EPA is during their individual reviews or requests for supplementary information at er an extended amount of time, perhaps another year or more. Fund Prior Reappro- No. Years Priated Funding Total	or professional services supporting Ketchikan attaining a Limited Alternative to Filtration tershed Control Program, a Source Water Quality Study, a Water Treatment Report, and as set out by the EPA, and a report demonstrating how Ketchikan's present disinfection hational drinking water regulations. The fifth task, Consolidated Ownership Status of the by the municipal attorney with support as needed provided by Perkins Coie, a legal firm property ownership that has been questioned earlier by the EPA. Its have been completed and delivered to ADEC well before the COBC specified date of d their reviews of each of these Action Items and updates incorporating their comments transmittal of these documents to the EPA Region 10 Administrator for the EPA's review. Its during their individual reviews or requests for supplementary information about these er an extended amount of time, perhaps another year or more. Fund Prior Reappro-New No. Years Priated Funding Total 2024	Adopted 2023Projected ReFundProjected ReAdopted 2023Projected Re	or professional services supporting Ketchikan attaining a Limited Alternative to Filtration tershed Control Program, a Source Water Quality Study, a Water Treatment Report, and as set out by the EPA, and a report demonstrating how Ketchikan's present disinfection hational drinking water regulations. The fifth task, Consolidated Ownership Status of the by the municipal attorney with support as needed provided by Perkins Coie, a legal firm property ownership that has been questioned earlier by the EPA. ts have been completed and delivered to ADEC well before the COBC specified date of d their reviews of each of these Action Items and updates incorporating their comments transmittal of these documents to the EPA Region 10 Administrator for the EPA's review. hs during their individual reviews or requests for supplementary information about these er an extended amount of time, perhaps another year or more. Fund Prior No. Years Priated Funding Total 2024 2025 2026	Adopted 2023Projected RequirementsFund Prior YearsAdopted 2023Projected Requirements

Division: Water Project Priority: 2 Project Number: Comb 2018 001 Project Title: Water Meters - Business & Commercial Customers Start Date: 01/18 Estimated Project Cost: Description: 12/24 Design As it stands now, achieving the original goal of having all of the remaining approximately 225 unmetered businesses, commercial buildings, and large residential apartment complexes fully metered before the end of 2022 Progress has been at a standstill during 2022 as the continuing cornavirus pandemic has severely affected suppress has been at a standstill during 2022 as the continuing cornavirus pandemic has severely affected suppress has been at a standstill during super value meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully metional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Total Revenue Generating Fund Revenue Bonds - ADWF Loan 398,480 641,136 210,384 851,520 250,000 1,250,000										
Commercial CustomersEnd Date:12/24Design Land/Right-of-WayDescription:As it stands now, achieving the original goal of having all of the remaining approximately 225 unmetered businesses, commercial buildings, and large residential apartment complexes fully metered before the end of 2022 is simply no longer feasible and as a result, completion of this project is now very likely delayed into late 2023. Progress has been at a standstill during 2022 as the continuing coronavirus pandemic has severely affected material deliveries for both water meters as well as the radio-frequency nodes that allow them to electronically communicate and transmit information to KPU's electric meters. The promised delivery date of KPU's October 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code.Projected Requirements TotalTotalReappro- priatedNew priatedTotal2024202520262027ProjectRevenue Generating Fund1250,000250,000250,000250,000	Division: Water		Project Prior	rity:	2		Project Nur	nber: Comb	2018 001	
Description: As it stands now, achieving the original goal of having all of the remaining approximately 225 unmetered businesses, commercial buildings, and large residential apartment complexes fully metered before the end of 2022 is simply no longer feasible and as a result, completion of this project is now very likely delayed into late 2023. Progress has been at a standstill during 2022 as the continuing coronavirus pandemic has severely affected 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024. the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Total Revenue Generating Fund Image: Project Projected Requirements 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 2020 1,500,000 Maddition, before this entire project becomes fully operational in 2024. the 2016 New Projected Requirements 1,500,000 Image: Projected Requirements Total Revenue Generating Fund Image: Project Projected Requirements Funding Total 2024 2025 2026 2027 Project	Project Title: Water Meters - Business &		Start Date:		01/18		Estimated I	Project Cos	t:	
As it stands now, achieving the original goal of having all of the remaining approximately 225 unmetered businesses, commercial buildings, and large residential apartment complexes fully metered before the end of 2022 is simply no longer feasible and as a result, completion of this project is now very likely delayed into late 2023. Progress has been at a standstill during 2022 as the continuing coronavirus pandemic has severely affected material deliveries for both water meters as well as the radio-frequency nodes that allow them to electronically communicate and transmit information to KPU's electric meters. The promised delivery date of KPU's October 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Projected Requirements Total Revenue Generating Fund Question Project 2025 2026 2027 Project	• • • • • • • • • • • • • • • • • • • •		End Date:		12/24		•			
businesses, commercial buildings, and large residential apartment complexes fully metered before the end of 2022 is simply no longer feasible and as a result, completion of this project is now very likely delayed into late 2023. Progress has been at a standstill during 2022 as the continuing coronavirus pandemic has severely affected material deliveries for both water meters as well as the radio-frequency nodes that allow them to electronically communicate and transmit information to KPU's electric meters. The promised delivery date of KPU's October 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Source of Funds Prior Reappro- New Priot Years Projected Requirements Revenue Generating Fund Construction Long Construc	1						0	,		
is simply no longer feasible and as a result, completion of this project is now very likely delayed into late 2023. Progress has been at a standstill during 2022 as the continuing coronavirus pandemic has severely affected material deliveries for both water meters as well as the radio-frequency nodes that allow them to electronically communicate and transmit information to KPU's electric meters. The promised delivery date of KPU's October 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Source of Funds Prior Reappro- Priated Prior Revenue Generating Fund								•	ent	1 250 000
Progress has been at a standstill during 2022 as the continuing coronavirus pandemic has severely affected material deliveries for both water meters as well as the radio-frequency nodes that allow them to electronically communicate and transmit information to KPU's electric meters. The promised delivery date of KPU's October 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Total Prior Reappro- New 2024 2025 2026 2027 Project Revenue Generating Fund Image: Source of Funds Years Funding Total 250,000 250,000	is simply no longer feasible and as a result,	completion of thi	is project is n	now very likely	delayed into	late 2023.	-	1		1,230,000
Project Total 1,500,000 2020 order of additional nodes continues to slip drastically with the vendor's latest estimate for shipment now December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Total Prior Reappro- New 2024 2025 2026 2027 Project Revenue Generating Fund Image: Colspan="4">Image: Colspan="4">Image: Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="							Other			250,000
December 2022. Consequently, the next water meter installation contract cannot be issued until an adequate supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Prior Prior Reappro- New Projected Requirements Total Source of Funds Years Priated Funding Total 2024 2025 2026 2027 Project Revenue Generating Fund Image: State of the s							Project Tota	I		1,500,000
supply of nodes has finally arrived and installed to confirm that each new water meter is fully functional. In addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Projected Requirements Total Prior Prior Reappro- New Total 2024 2025 2026 2027 Project Revenue Generating Fund Image: Study S										
addition, before this entire project becomes fully operational in 2024, the 2016 Water/ Wastewater Rate Study will need to be updated or a new study commissioned as well as amendments made to the Ketchikan Municipal Code. Matche dots Projected Requirements Projected Requirements Total Source of Funds Years Priated Funding Total 2024 2025 2026 2027 Project Revenue Generating Fund Image: Source of Funds										
Adopted 2023 Projected Requirements Prior Reappro- New Projected Requirements Total Source of Funds Years Priated Funding Total 2024 2025 2026 2027 Project Revenue Generating Fund Image: Source of Funds Image: Source of Funds <t< td=""><td>addition, before this entire project becomes fu</td><td>ully operational in</td><td>2024, the 20</td><td>16 Water/ Wa</td><td>stewater Rate</td><td>Study will</td><td></td><th></th><td></td><td></td></t<>	addition, before this entire project becomes fu	ully operational in	2024, the 20	16 Water/ Wa	stewater Rate	Study will				
Prior Source of FundsPrior YearsReappro- priatedNew FundingTotal2024202520262027Total ProjectRevenue Generating Fund	need to be updated or a new study commission	oned as well as ar	mendments m	nade to the Ket	tchikan Munici	pal Code.				
Prior Source of FundsPrior YearsReappro- priatedNew FundingTotal2024202520262027Total ProjectRevenue Generating Fund										
Prior Source of FundsPrior YearsReappro- priatedNew FundingTotal2024202520262027Total ProjectRevenue Generating Fund										
Revenue Generating Fund 250,000 250,000 250,000			A	Adopted 2023	3		Projected R	equirement	S	
		Prior		· ·	3		Projected R	equirement	s	Total
	Source of Funds		Reappro-	New		2024				
			Reappro-	New		-				Project
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000
Total 398,480 641,136 210,384 851,520 250,000 1,500,000	Revenue Generating Fund	Years	Reappro- priated	New Funding	Total	-				Project 250,000

Division: Water			Project Prio	ority:	3		Project Nur	nber:		
Project Title: Pump Station Switch Description: Each pump station will be upgraded in with the Baranof Zone to be followed b KPU's pump stations have been in ser motor starters rely on moving contact electric currrent encounters some res reservoir slowly but continually degra contactors, direct replacement contact each pump station is proposed to have Solid-state soft motor starters have a s power losses, and cost about half as m	ndividually in or y the Confidence vice between 2 ors to supply e istance which des the contact ors are become both mechanic mooth accelera	der of highes ce Zone in 20 5 to 34 years electricity to th causes some ctor mechani ing very diffic cal motor star tion to full sp	223. All of the s and are well he pump moto e heat. Over sms. Consid cult to find an rters replaced eed, have no	e mechanical n overdue for a or and the sur time, starting dering the age id may becom with modern,	notor starters n upgrade. M dden in-rush o the pumps to of our exist e impossible. solid-state so	in each of Mechanical of starting o refill the ting motor Instead, ft starters.	Design Land/Right-o	n Managemei n		5,000 111,250 116,250
Source of Funds	Fund No.	Prior Years	A Reappro- priated	Adopted 2023 New Funding	3 Total	2024	Projected R	equirements 2026	2027	Total Project
Revenue Generating Fund		30,250	priated	27,500	27,500	28,500	2023	30,000	2021	116,250
Total		30,250		27,500	27,500	28.500		30.000		116,250

Division: Water			Project Pric	ority:	4		Project Nun	nber:		
Project Title: Utility Vehicles			Start Date:		01/23		Estimated F	Project Cost:	:	
Description:			End Date:		12/27		Design Land/Right-c	of-Way		
Vehicle 66, the single axle dump truck join old, it is reaching the end of its useful ser							Construction	n Managemer	nt	
division's 2022 CIP Budget for \$98,000, infationary escalation clauses also attache	KPU was unable	to obtain any	y firm price quo	tes without ha	ving completely	y undefined	Construction Equipment	1		347,000
Assuming that inflationary pressures are main truck for about \$160,000 at that time,							Other Project Total	1		347,000
reappropriated for 2023 for the purchase o frame badly rusted. Similarly, the oldest divisions was purchased in 2007. Supreme the end of its useful service life. A replac allowance of 2.5% annual inflation until 202	of the two smal ely useful in tight cement small bac	I Kubota rubb situations whe khoe from a I	er tracked back ere a large, rubb local vendor is e	choes that are er-tired backhoo estimated to co	also jointly sha e won't fit, it too	ared by the is reaching				011,000
				dopted 202	3		Projected Re	equirements	;	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund			75,000		75,000		160,000		112,000	347,000
Total			75,000		75,000		160,000		112,000	347,000

Division: Water			Project Prior	rity:	5		Project Nu	mber:		
Project Title: West Fairy Chasm Main Re	placement		Start Date: End Date:		01/23 12/27		Estimated Design	Project Cost	t:	35,000
Description:							Land/Right-	of-Way		,
This 8-inch ductile iron main was installed occurs. Unlike electrolytic corrosion that u and most conductive; in this case, the end	isually creates fail tire surface of the	irly small pits a e pipe was ba	along the bottor adly pitted. The	m of the pipe v e soil layer are	where the soils	s are moist was black	Construction Construction Equipment	n Manageme n	ent	550,600
from dissolved iron and smelled slightly o contains quite a bit of iron pyrite (fools go <i>Thiobacillus</i> bacteria which generate their chemically corrodes the iron pipe. Subset similar pitting and the ductile iron sewer r replaced with non-corrodible HDPE plastic	ld) which is actua energy through o quent repairs mao nains are very lik	ally iron disulfi oxidizing the ir ide in 2017 an kely in the sar	ide. Pyrites rea on with a side nd 2022 near th me condition.	acting with ox effect of produ le Black Bear The entire 72	ygen and wate ucing sulfuric a intersection ha 0 foot section	er will form acid, which ave shown should be	Other Project Tota	al		585,600
			ang aranabio i							
would be a joint venture between Public V improvement projects contributing to the ever become available again, this would maximum points. It would also require v granted, construction could begin in 2027.	combined design be a likely proje oter approval to	contract with ect that is alre	a single firm. ady designed	Should Munic and has rece	ipal Assistand ived ADEC a	ce Funding				
improvement projects contributing to the ever become available again, this would maximum points. It would also require v	combined design be a likely proje oter approval to	contract with ect that is alre	a single firm. ady designed an agreements	Should Munic and has rece	ipal Assistance ived ADEC ap inder of the fu	ce Funding pproval for unding. If	Projected R	equirement	S	
improvement projects contributing to the ever become available again, this would maximum points. It would also require v	combined design be a likely proje oter approval to	contract with ect that is alre	a single firm. ady designed an agreements	Should Munic and has rece for the remai	ipal Assistance ived ADEC ap inder of the fu	ce Funding pproval for unding. If	Projected R 2025	equirements	s 2027	Total Project
improvement projects contributing to the ever become available again, this would maximum points. It would also require v granted, construction could begin in 2027.	combined design be a likely proje oter approval to Fund No.	a contract with ect that is alre enter into loa Prior	a single firm. eady designed an agreements Reappro-	Should Munic and has rece for the remain Adopted 202 New	sipal Assistance ived ADEC a inder of the fu 3	ce Funding pproval for unding. If	-			

			Project Price	ority:	6		Project Nu	mber:		
Project Title: Skyline Water Main Replace	cement		Start Date:		01/22		Estimated	Project Cost	:	
-			End Date:		12/26		Design	<i></i>		30,000
Description: The 560-foot ductile-iron 8-inch water line ser	rving Skyline	Condominiu	ims is an linus	sual propositio	n It is not ins	stalled in a	Land/Right-	of-Way n Managemei	ot	
dedicated right-of-way but rather through a	series of ea	asements that	at begin by pa	assing through	the side yar	d of 1111	Construction	0	ii.	360,800
Jackson, then across Skyline Condominium's it too is continuing to fail due to electrolytic or							Equipment			
non-corrodible HDPE plastic pipe. There is n	no present fui	nding availa	ble for its repla	acement but if	there were, it	t would be	Other Broject Tete			200 900
designed in 2023 along with each of these for with a single firm. Should Municipal Assistant	2 1		,	0	0		Project Tota	11		390,800
already designed and has received ADEC ap	oproval for ma	aximum poir	nts. It would al	lso require vot						
loan agreements for the remainder of the fund	ding. If grar	nted, constru	ction could be	gin in 2027.						
	T		A	Adopted 202	3		Projected R	equirements	1	
					-				•	
	Fund	Prior	Reappro-	New						Total
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
			priated	Funding		2024	2025	2026	2027	Project
Revenue Generating Fund	No.			-	Total 30,000	2024	2025	2026	2027 180,400	Project 30,000
	No.		priated	Funding		2024	2025	2026	-	Project
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		priated	Funding		2024	2025	2026	180,400	Project 30,000 180,400
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		priated	Funding		2024	2025	2026	180,400	Project 30,000 180,400
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		priated	Funding		2024	2025	2026	180,400	Project 30,000 180,400
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		priated	Funding		2024	2025	2026	180,400	Project 30,000 180,400
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		priated	Funding		2024	2025	2026	180,400	Project 30,000 180,400
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		priated	Funding		2024	2025	2026	180,400	Project 30,000 180,400

Division: Water			Project Pric	ority:	7		Project Nur	nber:		
Project Title: Valve Boxes - Repair of Su	rrounding Pave	ement	Start Date:		01/23					
			End Date:		12/27		Design	6) N /		
Description:							Land/Right-o		nt	310,000
In order for the Water Division to respo streets, it must have ready access throug							Construction	-		510,000
the street. In the 7-year period before 2	020, when rep	avement o	f an asphalt :	street occurr	ed, all cast-	iron valve	Equipment			
boxes were first lowered below the finishe							Other			240.000
the new asphalt, the valve box raised to the Unfortunately, the resultant compaction w							Project Tota	I		310,000
During the next subfreezing winter seaso	on, this became	e ice which	expanded an	nd caused th	ne asphalt di	amond to				
crack and fail. While concrete diamonds or eroded by traffic, it caused snow plow p										
cutting these diamonds and instead bring										
For the earlier failing asphalt diamonds, k	Ketchikan need									
This project began repairing the failed as will be continued in subsequent years	sphalt diamond	ls around v								
This project began repairing the failed as will be continued in subsequent years.	sphalt diamond	ls around v								
	sphalt diamond	ls around v								
			alve boxes d	uring 2022's	repaving se	ason and	Projected Re	equirements	5	
will be continued in subsequent years.	Fund	Prior	alve boxes d	uring 2022's dopted 202 New	repaving se	ason and	-	•		Total
			alve boxes d	uring 2022's	repaving se	ason and	Projected Re 2025	equirements 2026	2027	Total Project
will be continued in subsequent years.	Fund	Prior	alve boxes d	uring 2022's dopted 202 New	repaving se	ason and	-	•		
will be continued in subsequent years. Source of Funds	Fund	Prior	A Reappro- priated	uring 2022's Adopted 202 New Funding	repaving se 3 Total	ason and [2025	2026	2027	Project
will be continued in subsequent years. Source of Funds	Fund	Prior	A Reappro- priated	uring 2022's Adopted 202 New Funding	repaving se 3 Total	ason and F 2024	2025	2026	2027	Project
will be continued in subsequent years. Source of Funds	Fund	Prior	A Reappro- priated	uring 2022's Adopted 202 New Funding	repaving se 3 Total	ason and F 2024	2025	2026	2027	Project
will be continued in subsequent years. Source of Funds	Fund	Prior	A Reappro- priated	uring 2022's Adopted 202 New Funding	repaving se 3 Total	ason and F 2024	2025	2026	2027	Project
will be continued in subsequent years. Source of Funds	Fund	Prior	A Reappro- priated	uring 2022's Adopted 202 New Funding	repaving se 3 Total	ason and F 2024	2025	2026	2027	Project

Division: Water			Project Prie	ority:	8		Project Nur	nber:		
Project Title: Water Distribution Grid Imp Description: Each year in conjunction with the work of or repairs to improve the municipal water system	other agencies, tl			ented with op		undertake	Design Land/Right- Construction Construction Equipment Other Project Tota	n Manageme n	nt	150,000 150,000
	Fund	Prior	A Reappro-	dopted 202 New	3		Projected Ro	equirements	;	Total
Source of Funds	No.	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund				30,000	30,000	30,000	30,000	30,000	30,000	150,000

Division: Water			Project Prie	ority:	9		Project Nur	nber:		
Project Title: Additional Projects			Start Date:		01/23		. .			
Description: This account provides for the cost of fire hypextensions and are then incorporated into the or installing new valve boxes in City streets winot yet been selected for asphalt paving in ongoing initiative of the division to make increase other community projects.	e municipal water /hen Public Works 2023, there will	system. Thi s' annual rep be paving s	is account also aving projects cheduled for r	o provides a s occur. Althou next year. Th	ource of fund ugh specific st nis project ha	s for repair reets have s been an	Design Land/Right-d Construction Construction Equipment Other Project Tota	า Manageme า	nt	200,000 200,000
			A	dopted 202	3		Projected Re	equirements	6	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund				40,000	40,000	40,000	40,000	40,000	40,000	200,000

			Project Price	ority:	10		Project Nur	nber:		
Project Title: Water Service Upgrade Pro	ogram		Start Date:		01/23					
			End Date:		12/27		Design			
Description:							Land/Right-	of-Way n Manageme	nt	
The water service upgrade program was init	tiated in 1997, ar	nd has been	an ongoing d	livision initiativ	e to allow a i	number of	Construction	•	111	75.000
residents to upgrade their individual water Numerous water services, from the main to the							Equipment			-,
the work and inspection by the division, this p	rogram allows the	e customer to	provide cost	documentatior	and receive	a grant-in-	Other			75 000
aid. \$500 is available for work undertaken or right-of-way. As a result of homeowners partic							Project Tota	1		75,000
the right-of-way as long as they are not cause										
			A	dopted 2023	3		Projected Re	equirements	5	
	Fund	Prior	Reappro-	New						Total
Source of Funds	No.	Years	priated	Funding	T		~~~=	0000		
				Tunung	Total	2024	2025	2026	2027	Project
Revenue Generating Fund						-			-	
Revenue Generating Fund				15,000	1 0tal 15,000	2024 15,000	2025 15,000	15,000	2027 15,000	Project 75,000
Revenue Generating Fund						-			-	
Revenue Generating Fund						-			-	
Revenue Generating Fund						-			-	
Revenue Generating Fund			P			-			-	,
Revenue Generating Fund			P			-			-	,
Revenue Generating Fund			P			-			-	,
Revenue Generating Fund			P			-			-	,

Division: Water			Project Price	ority:	11		Project Nun	nber:		
Project Title: Backflow Prevention Progr	am		Start Date: End Date:		01/23 12/27		Design			
Description:							Land/Right-o	of-Way		
This grant-in-aid program was establish businesses to install backflow preventer continue offering this program in 2022 w mandated cross-connection control regula	rs to help protect vith an increased	ct the muni d reimburse	cipal water s ment amount	system. The t. This progra	division pro am is part of	poses to f ADEC's	Construction Construction Equipment Other		nt	75,000
Until 2001, Ketchikan's lack of adoption a installations to be constructed within the problem. They cannot be tested and the main is isolated and drained for repairs. 2012 Uniform Plumbing Code 603.5.15 preventer installation that would benefit fi has not provided much incentive for busi	and enforcement e City. Older sp ey leak contamin Currently, at lea 5 which made b rom this program	t of the Unif prinkler sys nated water ast 19 syste packflow pr n to become	orm Plumbing tems with ju- r into the mu ems, all insta otection mar e compliant.	g Code allowe st a single c inicipal syster illed before K ndatory, are The program	ed many sub heck are a m any time t etchikan add in need of as previousl	standard particular he water opted the backflow y offered	Project Tota	I		75,000
of the program was in 2017. In an effort water system, reimbursement to the pro preventer, or \$3,000, whichever is the les	t to encourage b operty owner is									
of the program was in 2017. In an effort water system, reimbursement to the pro-	t to encourage b operty owner is		d to 50% of	the installed	cost of the	backflow	Projected Re	auirements	s	
of the program was in 2017. In an effort water system, reimbursement to the pro-	t to encourage b operty owner is		d to 50% of		cost of the	backflow	Projected Re 2025	equirements 2026	2027	Total Project
of the program was in 2017. In an effort water system, reimbursement to the pro preventer, or \$3,000, whichever is the les	t to encourage b operty owner is sser. Fund	now limited	d to 50% of A Reappro-	the installed Adopted 2023 New	cost of the	backflow F	-			
of the program was in 2017. In an effort water system, reimbursement to the pro- preventer, or \$3,000, whichever is the les Source of Funds	t to encourage b operty owner is sser. Fund	now limited	d to 50% of A Reappro-	the installed Adopted 2023 New Funding	Total	backflow F 2024	2025	2026	2027	Project

Division: Water			Project Pric	ority:	12		Project Nur	nber: 5400 2	2020 006	
Project Title: SCADA PLC Controll	ers		Start Date:		01/21		Estimated F	Project Cost	:	
-			End Date:		12/24		Design	-		
Description:							Land/Right-	of-Way		
Collectively, KPU has three Allen-Brachlorination Plant, and the Ammonia specific critical components within KP 21-03 - Cyber Security Evaluation, the receiving any further factory support. input/output (I/O) modules. All of the PLC platform before KPU's supply of r	Addition Facilit U's complex, co is version of Al This includes no se critical PLC's	y. They are o mputer-contro len Bradley F longer maint s must quickly	each providing olled, disinfect PLCs, which w aining any inv y migrate to tl	g continuous tion process. vere introduce entory of spar he modern All	supervisory co As identified ir d in 2005, hav e parts or the	ntrol over n Contract ve ceased necessary	Construction Construction Equipment Other Project Tota		nt	941,500 941,500
Due to the world-wide effect of the Treatment UV Facility's (CP-100) PLC addition, there have also been signific estimated costs to upgrade the two re and upgrade the third and final PLC in	c has also been ant material cos maining PLCs tl	delayed and st inceases du hat are locate	l may not be o uring 2022 wh d in the Old C	completed bef hich are now re	ore the end of eflected in the	f 2022. In increased				
			A	Adopted 202	3		Projected R	equirements	5	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund		256,500		340,000	340,000	345,000				941,500

Division: Water			Project Pric	ority:	13		Project Nur	mber:		
Project Title: UV Facility - UPS Ba Description: Ketchikan's UV Disinfection Facility is a with potable water. Due to the critical n there is a separate, dedicated standby g of any electrical distribution failure. The to keep the programmable logic controll standby generator can automatically sta shouldn't exceed 5-6 years, regardless of batteries which offer the advantage of m protection comes at a cost as they unde finally results in battery cell failure and p replacement in 2023.	vital compone ature of this F jenerator and large battery ers (PLC's) op rt and come o of how or when ot containing a rgo repeated of	ent of our con acility and th uninterruptib bank that is t erating the L n-line. All U n the UPS is any sloshing charge/disch	e requirement le power suppl the UPS provid JV Facility for t IPS batteries h deployed, sinc liquid that migh arge cycles. C	that it be fully (UPS) suppl des all the elec- the short perior ave a limited so the they use se they use se the leak or drip.	operational at ying power in trical power n d needed until service life whi aled or mainte However, thi tion slowly occ	Ketchikan t all times, the event ecessary I the ich enance free s level of curs which	Design Land/Right-	n Manageme n		45,000 45,000
			A	Adopted 202	3		Projected R	equirement	s	
Source of Funds	Fund No.	Prior Years	Reappro- priated	New Funding	Total	2024	2025	2026	2027	Total Project
Revenue Generating Fund				45,000	45,000					45,000
Total				45,000	45,000					45,000

Division: Water			Project Prio	ority:	14		Project Nun	nber:		
Project Title: Replace ClorTec Ger	nerating Cells		Start Date:		01/23		Estimated F	Project Cost:		
			End Date:		12/26		Design			
Description:			414 1			00/	Land/Right-c		.4	
Since September 16, 2002, KPU has b hypochlorite disinfection solution. This							Construction	Managemer	IL	
current (DC) electricity onto the titani degradation also occurs to the titanium							Equipment			206,500
life of about 7 years. Fortunately, Ketc cells serving for 12 years, much longe	hikan's water is v	very soft with	minimal hardne	ess and bufferir	ng with the res	ult in initial	Other Project Total			206,500
which also uses the same design ClorT a total of 10 cells in service that will be building sufficient cell inventory that w machines. Each cell is estimated to co the subsequent years.	due for replacem	ent soon. Be rTech machi	eginning in 2023 ne to be re-equ h a 2.5% inflatio	3 with the two ol uipped every ye on allowance fo	der 3-cell mac ar followed by r purchases m	hines, start [,] the 2-cell ade during	Ducia etc.d.D.			I
	Fund	Prior	Reappro-	Adopted 2023 New			Projected Re	equirements		Total
Source of Funds	No.	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund										
				60,000	60,000	61,500	42,000	43,000		206,500
				60,000	60,000	61,500	42,000	43,000		206,500
				60,000	60,000	61,500	42,000	43,000		206,500
				60,000	60,000	61,500	42,000	43,000		206,500
				60,000	60,000	61,500	42,000	43,000		206,500

Division: Water			Project Prio	ority:	15		Project Nur	nber:		
Project Title: Peterson St. Water Ma	ain Rebuild		Start Date:		01/23		Estimated I	Project Cost	:	
			End Date:		12/23		Design			12,000
Description:							Land/Right-	•		
This January 2022, Peterson Street's manner with only 2-feet depth of cove only keep their water services unfroz	r, it depended c en but to also	on the adjace protect the	ent residences cast-iron main	using bleeders . Two of the	s during the w se residences	inter to not had been	Construction Construction Equipment	า Manageme า	nt	362,000
destroyed earlier due to fire and whe main also froze. There are no plans Project for both water and sewer repla any present funding available for the w	at the present cement with no	time to beg	in design of th plastic pipe for	he Peterson St the entire 280	treet Utility Im)-foot length. N	provement Nor is there	Other Project Tota	I		374,000
Public Works and the Water Division. this would be a prime project to have would also require voter approval to preliminary cost estimate of construction	already design enter into loai	ned, submittle n agreement	ed for ADEC a	approval, and g	gain maximum					
				dopted 2023	3		Projected R	equirements	6	
Source of Funds	Fund No.	Prior Years	A Reappro- priated	Adopted 2023 New Funding	3 Total	2024	Projected R 2025	equirements 2026	2027	Total Project
Source of Funds Revenue Generating Fund	Fund	Prior	Reappro-	New		2024		•		Project
	Fund	Prior	Reappro-	New Funding	Total	2024		•		Project
	Fund	Prior	Reappro-	New Funding	Total	2024		•		

Division: Water			Project Price	ority:	16		Project Num	nber:		
Project Title: Woodland Ave Utility Imp	provements		Start Date:		01/25		Estimated P	roject Cost:		
			End Date:		12/27		Design	-		40,000
Description:							Land/Right-o	•		
Woodland Avenue's cast-iron water main water main between Park Avenue and Nic replacing the remainder of this fragile, o	ckey Way was r Id 6-inch cast-i	eplaced in 1 ron water m	988. Since the ain with the ex	en, there has b xception of a	been no furthe 60-foot portio	er progress n installed	Construction Construction Equipment	Management	t	430,00
when Deermount Street was rebuilt in 19 and sewer replacement for the entire 9 available for its replacement but if there 9 There are no plans at the present time to should Municipal Assistance Funding e designed, submitted for ADEC approval agreements for the remainder of the fundi	950-foot length were, it would b o begin design ver become av and gain maxim	with non-co be a joint ver of the Wood vailable aga num points.	prrodible plasti nture between dland Avenue l in, this would t would also re	c pipe. There Public Works Utility Improve be a prime p equire voter ap	is no prese and the Wate ment Project. project to hav proval to ente	nt funding er Division. However, ve already er into loan	Other Project Total			470,000
	J J			dopted 202			Projected Re	quirements		
Source of Funds	Fund No.	Prior Years				2024	Projected Re 2025	equirements 2026	2027	Total Project
	Fund No.	Prior	A Reappro-	Adopted 2023 New	3				2027 215,000 215,000	

Division: Water			Project Pric	ority:	17		Project Nur	nber:		
Project Title: Harris Street Utility Impro	vements		Start Date:		01/25		Estimated F	Project Cost:		
			End Date:		12/27		Design	-		35,000
Description:				1 4000 0			Land/Right-	•		
Harris Street's 855 feet of cast-iron water no further progress replacing this fragile, c are long overdue for replacement with replacement but if there were, it would als	ld 6-inch cast- non-corrodible	iron water m e plastic pi	ain. Including be. There is	the corregate no present f	d metal pipe s unding availa	sewer, both Ible for its	Construction Equipment	า Managemer า	ιτ	2,000,000
Public Works' Streets Division is proposin Ketchikan Creek with a concrete structure Utility Improvement Project. However, sho prime project to have already designed, s voter approval to enter into loan agreement construction is included for 2027.	e, there are no uld Municipal A ubmittted for A	o plans at th Assistance F ADEC approv	e present time unding ever be val and gain m	e to begin de ecome availab naximum poin	sign of the Ha ble again, this ts. It would a	arris Street would be a Ilso require	Other Project Tota	I		2,035,000
			ļ	Adopted 202	3		Projected R	equirements		
-	Fund	Prior	Reappro-	New			-	•		Total
Source of Funds	No.	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund Proposed 50% State Municipal Assistar Proposed Revenue Bonds - ADWF Loa	•						35,000		1,000,000 1,000,000	35,000 1,000,000 1,000,000
Total							35,000		2,000,000	2,035,000

Division: Water			Project Prior	rity:	18		Project Nur	nber:		
Project Title: Replace Tongass/ Water	St. Suspended W	ater Main	Start Date:		01/24		Estimated I	Project Cost:		
			End Date:		12/26		Design			245,000
Description:							Land/Right-	•		
Installed in 1992, the 1680-feet of ductile St. viaducts is in poor condition. Submindividual galvanized suspension comport as flat slab sections. While the ductile in different matter at the flat slab roadward	nerged in salt wate onents. The concre ron pipe is readily	er during high ete roadway supported by	n tides, galvanic consists of both / galvanized pipe	corrosion ha precast cond e chairs atta	as degraded crete girder sp ched to the gi	many of the pans as well irders, it is a	Construction Equipment Other		I	1,230,00
segments between the individual pipe s necessary deflection where needed to waterfront buildings and fire hydrants ar to be replaced with modern, non-corrodi	supports that are f avoid other existing e in equally bad sh	fastened to th ng concrete	ne concrete flat structures unde	slab section or the viaduc	as well as p t. Services t	roviding the to individual	Project Tota	l		1,475,000
				dopted 202	3		Projected R	equirements		
Source of Funds	Fund No.	Prior Years	Ac Reappro- priated	dopted 202 New Funding	3 Total	2024	Projected R 2025	equirements 2026	2027	Total Project
Source of Funds Revenue Generating Fund Proposed ADWF Loan Proposed State 50% Municipal Assis	No.		Reappro-	New			-		2027	

Division: Water		Project Prior	rity:	19		Project Nur	nber:		
Project Title: Highlands Reservoir Property A	cquisition	Start Date:		01/24		Estimated F	Project Cost	:	
		End Date:		12/24		Design	-		
Description:						Land/Right-o	of-Way		300,000
protection for the surrounding residential area inc Copper Ridge Lane. Ketchikan's last remaining earthquake, nor can it be economically retrofitted w sources of wood-stave repair parts to be found friction, and when they collapse during a severe causing significant damage downstream. Although property at the same elevation needed to construct	g wood-stave re with additional sl d anywhere. Tl re earthquake, t igh discussions	eservoir built in hear protection. he individual woo hey will sudden began in 2015	1982 will n If damaged, oden staves a nly release 3 5 to acquire	there are no there are no are only held to 00,000 gallon the necessar	significant remaining together by is of water ry adjacent	Constructior Equipment Other Project Tota			300,000
the proposed price of \$270,000. Once purchas construction of a large, modern 650,000 gallon res 8-10 years before the project is complete, and con - 8 million.	sed, site investi servoir. The des	igations should sign and constru	begin in 202 Iction funding	25 before beg will take at le	ginning the ast another				
the proposed price of \$270,000. Once purchas construction of a large, modern 650,000 gallon res 8-10 years before the project is complete, and con	sed, site investi servoir. The des	igations should sign and constru begin around 20	begin in 202 Iction funding 028 with an e	25 before beg will take at lea xpected cost	ginning the ast another of about \$5	Proiected R	equirements	3	I
the proposed price of \$270,000. Once purchas construction of a large, modern 650,000 gallon res 8-10 years before the project is complete, and con	sed, site invest servoir. The des astruction would	igations should sign and constru begin around 20	begin in 202 Iction funding	25 before beg will take at lea xpected cost	ginning the ast another of about \$5	Projected R	equirements 2026	2027	Total Project

300,000

300,000

Total

Division: Water			Project Prior	rity:	20		Project Nur	nber:		
Project Title: Second Avenue Main Repl	lacement		Start Date:		01/24		Estimated I	Project Cost:	:	
			End Date:		12/27		Design			60,000
Description:							Land/Right-	of-Way		
Second Avenue's cast-iron water mains we Only the failing water and sewer portion bet has been no further progress replacing the been four further failures in the 1275-foot p sewer replacement with non-corrodible plass were, it would be a joint venture between these four utility improvement projects contr Assistance Funding ever become available received ADEC approval for maximum point remainder of the funding. If granted, constr	tween Madis e remainder portion betw stic pipe. The Public Work ributing to the le again, this ts. It would a	on and Adar of this fragil een Adams re is no pres s and the W e combined s would be also require	ns Streets was le, old 6-inch c and White Cliff sent funding ava /ater Division to design contract a likely project voter approval t	s replaced in 2 cast-iron wate ff and is long ailable for its to be designed t with a single t that is alre	2001. Since t overdue for replacement l d in 2024 wi firm. Should ady designed	hen, there here have water and out if there th each of Municipal d and has	Constructior Constructior Equipment Other Project Tota		nt	1,300,800 1,360,800
			Ac	dopted 202	3		Projected R	equirements	;	
-	Fund	Prior	Ac Reappro-	New			-	•		Total
- Source of Funds	Fund No.	Prior Years			3 Total	2024	Projected R 2025	equirements 2026	2027	Total Project
Source of Funds Revenue Generating Fund Proposed 50% State Municipal Assistanc Proposed Revenue Bonds - ADWF Loan	No.		Reappro-	New			-	•		

Division: Water			Project Price	ority:	21		Project Nu	mber:		
Project Title: Evergreen Ave. Main Replace	cement		Start Date:		01/24		Estimated	Project Cost	:	
-			End Date:		12/27		Design	c /		25,000
Description: Evergreen Avenue's 548-feet of water main be	etween Hill	l and Tower I	Roads was in	stalled in two	seaments: the	e first 281-	Land/Right-	ot-way n Managemei	nt	
feet of 6-inch cast-iron was installed in 1970 f	followed by	, the final 26	7-feet in ducti	le-iron in 1976	6. The cast-ii	on portion	Construction	•	n.	440,000
has been particularly troublesome with several replacement with non-corrodible plastic pipe.			0				Equipment			
it would be designed in 2024 along with other	utility imp	rovement pro	jects contribu	ting to the co	mbined desig	n contract.	Other Project Tota	,		465,000
Should Municipal Assistance Funding ever bec and has received ADEC approval for maximun							Project Tota	11		405,000
for the remainder of the funding. If granted, co						5				
			ļ	Adopted 202	3		Projected R	equirements	;	
	Fund	Prior	Reappro-	New			-			Total
Source of Funds	No.	Years	priated	Funding	Total	2024	2025	2026	2027	Project
Revenue Generating Fund						25,000				25,000
Proposed 50% State Municipal Assistance	Funding					20,000			220,000	220,000
Proposed Revenue Bonds - ADWF Loan	_								220,000	220,000
Total						25,000			440,000	465,000

Division: Water			Project Prior	rity:	22		Project Nur	nber:		
Project Title: Denali Ave. Main Replacer	ment		Start Date:		01/24		Estimated I	Project Cost	:	
			End Date:		12/27		Design			30,00
Description:							Land/Right-	•		
Denali Avenue's cast-iron 6-inch water main 1968 and completed in 1969. Like other cas been three failures. The 635-foot segment i pipe. There is no present funding available	st-iron mains is overdue fo	s, it is fragile or both wate	. In just this one r and sewer rep	ie block segr placement wi	nent, there ha th non-corrod	ve already ible plastic	Constructior Equipment	າ Managemer າ	nt	512,00
other utility improvement projects contributin ever become available again, this would be a maximum points. It would also require voter	ng to the co a likely proje	ombined des ect that is alr	sign contract. Sh eady designed a	hould Munic and has rece	pal Assistance	e Funding	Other Project Tota	I		542,00
	Fund	Drior		dopted 202	3		Projected R	equirements	;	Total
Source of Funds	Fund No.	Prior Years	Reappro-	dopted 202 New Funding	3 Total	2024	Projected R 2025	equirements 2026	2027	Total Projec
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		Reappro-	New			-	-		Projec 30,0 256,0
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		Reappro-	New		2024	-	-	2027 256,000	Projec 30,0 256,0
Revenue Generating Fund Proposed 50% State Municipal Assistance	No.		Reappro-	New		2024	-	-	2027 256,000	Projec 30,0 256,0
Source of Funds Revenue Generating Fund Proposed 50% State Municipal Assistance Proposed Revenue Bonds - ADWF Loan	No.		Reappro-	New		2024	-	-	2027 256,000	