

Attachment A



REPORT

To: Abbotsford/Mission Water & Sewer Commission (WSC)

From: Sabrina Grewal, Manager, Financial Planning & Accounting (Abbotsford)

Date: February 22, 2022

Subject: 2022 Financial Plan Carry Forward Amendment

File: 1830-01

Report No.: JSSC 11-2022

Attachments: Appendix A – List of 2021 Capital Carry Forward Projects
Appendix B – 2022 Amended Abbotsford/Mission Water Capital Plan
Appendix C – 2022 Amended JAMES Capital Plan

WATER & SEWER COMMISSION (WSC) RECOMMENDATION

THAT Report No. JSSC 11-2022, dated February 22, 2022, from the Manager, Financial Planning & Accounting regarding 2021 carryforwards and the 2022 amendments be recommended for approval to the City of Abbotsford and City of Mission Councils, as required.

PURPOSE

Approval of the attached financial plan amendments will adjust the 2022 capital and operating plans.

BACKGROUND

Projects (operating and capital) from 2021, which are still in progress at the end of the year, have their remaining budget added to the 2022 budget via amendment. Now that full information on 2021 expenditures is available, these carryforwards are proposed for the 2022 budget.

DISCUSSION / ANALYSIS

Operating

Operating carry forwards being requested from 2021 to 2022 are shown below. These are only due to expenditure timing differences; no overall budgets have been increased. For example, where expenditures in 2021 ended the year less than originally projected, the budget in 2022 is

being increased to reflect that same expenditures previously expected to occur in 2021. Some work that was expected to start in 2021 but did not will now have budget carried forward to 2022 as well.

The following tables summarize the revised municipal contribution for water and sewer operating budgets after inclusion of the carry forward expenses:

Summary of 2022 Revised Operating Budget Expenses (in thousands)

	Amount
Original Water 2022 Municipal Contribution	\$ 5,716
Rebate Program - Water Efficiency Plan	\$ 30
Toilet Rebates - Water Shortage Response Plan	76
Washer Rebates - Water Shortage Response Plan	44
	\$ 150
AMENDED Water 2022 Municipal Contribution	\$ 5,866

	Amount
Original JAMES 2022 Municipal Contribution	\$ 4,923
Outfall Pipe Survey Monitoring	\$ 10
Engineering Studies	51
Effluent, Outfall Monitoring	66
Mechanical Maintenance	94
	\$ 221
AMENDED JAMES 2022 Municipal Contribution	\$ 5,144

Capital

A list of 2021 capital projects to be carried forward to 2022 is shown in Appendix A. This list contains projects with expenditure timing differences only - no project budgets being carried forward have been increased.

The previously approved 2022 water capital budget \$6.94 million will be adjusted for the carryforwards \$4.33 million, for a total of \$11.27 million. The previously approved 2022 sewer capital budget \$3.98 million will also be adjusted for the carryforwards \$6.96 million, bringing the total amount to \$10.94 million.

Appendices B and C summarize the 2022 amended water and sewer capital budgets.

FINANCIAL IMPLICATIONS

The proposed amendments reflect timing of expenditure differences only. The balance of changes do not increase the capital funding requirements for planned capital work beyond what has previously been approved by the Commission.

APPROVED

By skgrewal at 12:11 pm, Feb 22, 2022

Sabrina Grewal, CPA
Manager of Financial Planning & Accounting
Abbotsford

APPROVED

By kbasatia at 9:34 am, Mar 03, 2022

Komal Basatia, CPA, CGA
General Manager, Finance & Procurement
Abbotsford

APPROVED

By risaac at 9:14 am, Mar 03, 2022

Rob Isaac, P.L.Eng.
General Manager of Engineering
and Regional Utilities, Abbotsford

APPENDIX A
List of 2021 Capital Carryforward Projects

	2021 Revised Budget (A)	2021 Actual Spending (B)	Carryforward Request (C) = A - B (rounded)
Aging Asset R&R - Townline Wellfield Renewal	1,745,000	115,589	1,629,000
Dickson Dam Remediation	500,000	-	500,000
AC & PCCP Transmission Main Condition Assessment	350,000	-	350,000
Transmission Main Appurtenances Condition Assessment	200,000	-	200,000
Norrish WTP Membrane System Feed Flow Control Study	200,000	-	200,000
System pH Control Planning Studies & Conceptual Designs	250,000	57,074	193,000
Seismic Study and Design Guidelines	250,000	-	125,000
Chloramination Monitoring Analyzers Installation	125,000	7,553	117,000
Norrish WTP SCADA Upgrade to VTScada	112,000	957	111,000
Maclure Watermain ICCP System	101,000	-	101,000
ICCP system repairs	100,000	-	100,000
Emergency Response Plan Update	100,000	-	100,000
Infrastructure Renewal - Marshall Wells	102,000	19,808	82,000
Norrish WTP SSF #3 & 4 Flowmeter Replacement	75,000	-	75,000
Update Joint Water Master Plan	63,000	6,900	56,000
Norrish Creek Intake Removal and Gravel Extraction	937,000	117,883	50,000
Norrish WTP Elec/GE PLC Architecture Review and Upgrade	50,000	-	50,000
Maclure Cell No. 1 Condition Assessment	50,000	-	50,000
Norrish Crown Tenure Application Support	50,000	-	50,000
Water Quality Program Review (Shared Project)	50,000	-	50,000
Water Supply Expansion - Planning, approvals and design	111,000	74,975	36,000
Pickup, Jointwater JW214 - 09 Ford Ranger	33,000	-	33,000
Pickup Truck 6 - Replacement	27,000	-	27,000
Pickup Truck 3 - Replacement	20,000	-	20,000
SCADA Radio & Network Switches Upgrade JW (Shared)	80,000	63,821	16,000
Electrical Arc Flash Safety Joint Water(Shared Project)	15,000	2,463	13,000
Water	\$ 5,696,000	\$ 467,025	\$ 4,334,000
General, Miscellaneous Repairs to Concrete Tanks and Channels - 2021	2,112,000	150,198	1,962,000
Matsqui Dyke Sinkhole - Full Repair	1,150,000	71,011	1,079,000
General, Clarifier #1 Process Mechanism	880,000	81,444	799,000
JAMES Plant Biogas Upgrader	6,370,000	-	637,000
Electrical, Add 500 kW Standby Generator #2	617,000	76,068	541,000
General, Asset Replacement	381,000	-	381,000
JAMES Plant Office Roof Replacement	324,000	-	324,000
Biosolids Management Plan	315,000	69,336	246,000
General, Asset Repl (Misc-Primary Eff Pump, Biofilter main duct, Clarif #1 misc)	378,000	-	189,000
General, Asset Replacement (Grit Tanks# 1&2 - misc)	168,000	-	168,000
JAMES Plant Digester Room Air Handling Unit	105,000	691	104,000
General, Asset Replacement (TF #1 - Mechanical piping)	104,000	-	104,000
Condition Assessment for JAMES Plant assets (2020)	200,000	-	100,000
James WTP Water Ingress Repairs -new cladding to four buildings walls	386,000	-	100,000
General, Replace Building Roofs (2020)	73,000	5,100	68,000
JAMES Plant UV Bulb Replacement	140,000	73,285	67,000
Pickup, JointSW JS303 - 08 Ford F150	29,000	-	29,000
Pickup, JointSW JS305 - 10 Ford F150	24,000	-	24,000
General, Asset Repl (Misc. - Primary Effluent Pumps, Laboratory & Misc, MCC)	130,000	106,634	23,000
Building Condition Assessment	20,000	-	10,000
JAMES	\$ 13,906,000	\$ 633,767	\$ 6,955,000

Appendix B: 2022 Amended Abbotsford/Mission Water Capital Plan

Project Name		2022 WSC Approved Plan	2021 Total Carry Forward	2022 WSC Amended Plan	DCC Eligible
DCC Eligible					
AUTO - 2886	New Supply - Construction, Engineering Services and Commissioning	\$ 2,000,000	\$ -	\$ 2,000,000	100%
10487	CF: Update Joint Water Master Plan	-	56,000	56,000	50%
AUTO - 2882	CF: Water Supply Expansion - Planning, approvals and design	-	36,000	36,000	100%
Total DCC Eligible		2,000,000	92,000	2,092,000	
Non-DCC Eligible					
19P-4780	CF: Aging Asset R&R - Mt. Mary Ann Reservoir Crack Repairs	560,000	1,629,000	2,189,000	
18P-4398	CF: Norrish Creek Intake Removal	1,347,000	50,000	1,397,000	
AUTO - 3236	Joint Water Contingency	500,000	-	500,000	
20P-5333	CF: Dickson Dam Remediation	-	500,000	500,000	
21P-5777	CF: System pH Control Planning Studies & Conceptual Designs	250,000	193,000	443,000	
22P-6038	Eastern Wellfields Renewal	402,000	-	402,000	
18P-4556	Aging Asset R&R - Townline Wellfield Renewal	355,000	-	355,000	
21P-5751	CF: AC & PCCP Transmission Main Condition Assessment	-	350,000	350,000	
19P-5151	CF: Impressed Current Cathodic Protection (ICCP) System Repairs	200,000	100,000	300,000	
22P-6039	Cannell System Storage, Transmission, and Treatment Improvements	250,000	-	250,000	
10316	Aging Asset R&R - Norrish WTP Skimmer (20-yr cycle)	239,000	-	239,000	
21P-5748	Norrish WTP Chlorine Rotameter Replacement	200,000	-	200,000	
21P-5750	Transmission System Sample Station Upgrades	200,000	-	200,000	
19P-4839	CF: Norrish WTP Membrane System Feed Flow Control Study	-	200,000	200,000	
21P-5749	CF: Transmission Main Appurtenances Condition Assessment	-	200,000	200,000	
19P-4830	CF: Seismic Study and Design Guidelines	-	125,000	125,000	
21P-5745	CF: Chloramination Monitoring Analyzers Installation	-	117,000	117,000	
21P-5773	CF: Norrish WTP SCADA Upgrade to VTScada	-	111,000	111,000	
13P-0107	CF: Maclure Watermain ICCP System	-	101,000	101,000	
20P-5741	Cannell Watershed Studies as per 2020 WMP Update	100,000	-	100,000	
19P-4834	CF: Emergency Response Plan Update	-	100,000	100,000	
AUTO - 2869	CF: Infrastructure Renewal - Marshall Wells	-	82,000	82,000	
19P-4799	Aging Asset R&R - Pine Well Decommissioning	80,000	-	80,000	
19P-5162	Recalibration of Hydrogeological Model	75,000	-	75,000	
21P-5747	CF: Norrish WTP SSF #3 & 4 Flowmeter Replacement	-	75,000	75,000	
10312	Aging Asset R&R - Norrish WTP Dumper (20-yr cycle)	50,000	-	50,000	
22P-6044	Norrish WTP Clearwell Outlet Valve Actuator	50,000	-	50,000	
22P-6045	Norrish WTP SSF Filter Outlet Valve Upgrade	50,000	-	50,000	
20P-5742	CF: Maclure Cell No. 1 Condition Assessment	-	50,000	50,000	
20P-5739	CF: Norrish Crown Tenure Application Support	-	50,000	50,000	
21P-5772	CF: Norrish WTP Elec/GE PLC Architecture Review and Upgrade	-	50,000	50,000	
20P-5334	CF: Water Quality Program Review (Shared Project)	-	50,000	50,000	
12P-0125	CF: Pickup, Jointwater JW214 - 09 Ford Ranger	-	33,000	33,000	
19P-4829	Remote Communications for Norrish WTP	30,000	-	30,000	
13P-0111	CF: Pickup Truck 6 - Replacement	-	27,000	27,000	
14P-0087	CF: Pickup Truck 3 - Replacement	-	20,000	20,000	
21P-5771	CF: SCADA Radio & Network Switches Upgrade JW (Shared)	-	16,000	16,000	
21P-5770	CF: Electrical Arc Flash Safety Joint Water(Shared Project)	-	13,000	13,000	
Total Non-DCC Eligible		4,938,000	4,242,000	9,180,000	
Total		\$ 6,938,000	\$ 4,334,000	\$ 11,272,000	

Appendix C: 2022 Amended JAMES Plant Capital Plan

Project Name		2022 WSC Approved Plan	2021 Total Carry Forward	2022 WSC Amended Plan	DCC Eligible
DCC Eligible					
10133	Electrical, Allowance for SCADA and Electrical Upgrades	\$ 362,000	\$ -	\$ 362,000	37%
19P-4763	CF: Biosolids Management Plan	-	246,000	246,000	50%
10130	CF: Electrical, Add 500 kW Standby Generator #2	-	541,000	541,000	47%
Total DCC Eligible		362,000	787,000	1,149,000	
Non-DCC Eligible					
21P-6613	CF: General, Miscellaneous Repairs to Concrete Tanks and Channels - 2021	-	1,962,000	1,962,000	
18P-4550	Trickling Filter Media (cell 4)	1,910,000	-	1,910,000	
20P-5446	CF: Matsqui Dyke Sinkhole - Full Repair	-	1,079,000	1,079,000	
AUTO - 2783	CF: General, Clarifier #1 Process Mechanism	-	799,000	799,000	
21P-5947	CF: JAMES Plant Biogas Upgrader	-	637,000	637,000	
10197	General, Misc Repairs to Concrete Tanks and Channels	528,000	-	528,000	
21P-5856	Joint Sewer Contingency	500,000	-	500,000	
10187	CF: General, Asset Replacement	-	381,000	381,000	
AUTO - 3208	Solids Contact Tank Cleaning and Diffuser Replacement	350,000	-	350,000	
22P-6704	CF: JAMES Plant Office Roof Replacement	-	324,000	324,000	
10335	Odour, Replacement of Biofilter Media	307,000	-	307,000	
AUTO - 2810	CF: General, Asset Repl (Misc-Primary Eff Pump, Biofilter main duct, Clarif #1 misc)	-	189,000	189,000	
AUTO - 2784	CF: General, Asset Replacement (Grit Tanks# 1&2 - misc)	-	168,000	168,000	
AUTO - 2790	CF: General, Asset Replacement (TF #1 - Mechanical piping)	-	104,000	104,000	
21P-6028	CF: JAMES Plant Digester Room Air Handling Unit	-	104,000	104,000	
21P-5940	CF: Condition Assessment for JAMES Plant assets (2020)	-	100,000	100,000	
20P-5544	CF: James WTP Water Ingress Repairs - new cladding to walls	-	100,000	100,000	
21P-5939	CF: General, Replace Building Roofs (2020)	-	68,000	68,000	
21P-6695	CF: JAMES Plant UV Bulb Replacement	-	67,000	67,000	
10220	CF: Pickup, JointSW JS303 - 08 Ford F150	-	29,000	29,000	
20P-5503	Wastewater Sampler Replacement - Five Years	25,000	-	25,000	
10202	CF: Pickup, JointSW JS305 - 10 Ford F150	-	24,000	24,000	
19P-5291	CF: General, Asset Repl (Misc. - Primary Effluent Pumps, Laboratory, MCC)	-	23,000	23,000	
AUTO - 3251	CF: Building Condition Assessment	-	10,000	10,000	
Total Non-DCC Eligible		3,620,000	6,168,000	9,788,000	
Total		\$ 3,982,000	\$ 6,955,000	\$ 10,937,000	