

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW1101
Project Title:	EMERGENCY WATER SYS MATERIALS STORAGE FACILITIES
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Project will procure the design and construction of facilities to provide safe, secure, and sheltered storage of major emergency materials for waterworks, such as large-diameter valves, pipe repair components/couplings, replacement segments, etc.

Project Justification:
Critical infrastructure components needs to be readily available to effectively and efficiently repair waterworks infrastructure during emergencies and/or prior to catastrophic failure. Especially with large-diameter, specialty components, procurement is problematic due to long delivery times and lack of availability. Having stock on-hand and readily available provides a significant advantage for construction scheduling and installation. Large infrastructure components need to be protected from elements, contamination, and damage while in storage.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW1101 - EMERGENCY WATER SYS MATERIALS STORAGE FACILITIES

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3534
Project Title:	BOLER ROAD WATERMAIN REPLACEMENT (SANATORIUM RD TO RIVERSIDE)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
To replace the watermain on Boler Road from Oxford Street to Riverside Drive. New watermain required to replace existing which has surpassed its useful lifecycle. Coordinate with transportation project TS1350-1.

Project Justification:

EW3534 - BOLER ROAD WATERMAIN REPLACEMENT (SANATORIUM RD TO RIVERSIDE)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	0	0	228	0	228
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	0	0	1,917	1,917
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	0	0	228	1,917	2,145

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	0	0	-228	0	-228
FEDERAL GRANTS	0	0	0	0	0	0	0	0	0	0	0	0	-1,917	-1,917
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	0	0	0	-228	-1,917	-2,145
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	0	0	-228	-1,917	-2,145

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3573
Project Title:	HIGHBURY-HAMILTON INTERSECTION WATERMAIN REPLACEMENT
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
Replacement of watermain infrastructure within the limits of a planned Transportation project (TS1309 Intersection - Hamilton Rd/Highbury Avenue).

Project Justification:
Replacement of an important component of the City of London Water System that has reached the end of its useful life.

EW3573 - HIGHBURY-HAMILTON INTERSECTION WATERMAIN REPLACEMENT

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	242	0	0	0	242
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	2,228	0	0	2,228
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	242	2,228	0	0	2,470

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-242	-2,228	0	0	-2,470
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-242	-2,228	0	0	-2,470
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-242	-2,228	0	0	-2,470

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3577
Project Title:	SUNNINGDALE ROAD WATERMAIN REPLACEMENT (RICHMOND STREET TO ADELAIDE STREET)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
To construct valves and chamber on Sunningdale trunk watermain at Sunningdale/Adelaide and at a location east of Arva Trunk watermain as well as other minor improvements and replacements along the corridor. Timing to be in conjunction with planned Transportation road widening.

Project Justification:
To install valves and chambers on Sunningdale Road east of Arva-Huron Pipeline, and on Sunningdale Rd. at Adelaide St. in order to meet valving requirements to operate water system in conformance with current requirements.

EW3577 - SUNNINGDALE ROAD WATERMAIN REPLACEMENT (RICHMOND STREET TO ADELAIDE STREET)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	51	0	0	0	0	58	0	0	0	0	0	109
CONSTRUCTION	0	0	0	682	0	0	0	0	708	0	0	0	0	1,390
TOTAL EXPENDITURES	0	0	51	682	0	0	0	58	708	0	0	0	0	1,499

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
FEDERAL GRANTS	0	0	-51	-682	0	0	0	-58	-708	0	0	0	0	-1,499
SUB-TOTAL NON-RATE SUPPORTED	0	0	-51	-682	0	0	0	-58	-708	0	0	0	0	-1,499
TOTAL SOURCES OF FINANCING	0	0	-51	-682	0	0	0	-58	-708	0	0	0	0	-1,499

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3580
Project Title:	HURON STREET RIVER CROSSING REMEDIAL WORK
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
Have undertaken work to replace the existing 600mm trunk watermain under Thames River between Huron Street and Philip Aziz Avenue by means of underground horizontal directional drilling at a greater depth to protect the watermain from erosion at the Thames River. The ongoing project is to monitor the abundance of 600mm concrete watermain in the riverbed and the abandoned value chamber in the east bank of the river, and to remove them as necessary due to ongoing river erosion.

Project Justification:
Thames River erosion has undermined the existing watermain. Temporary measures to protect the existing watermain were taken in 2009 and require a permanent solution.

EW3580 - HURON STREET RIVER CROSSING REMEDIAL WORK

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3583
Project Title:	SPRINGBANK RESERVOIR 1 & 3 PROTECTIVE MEMBRANE
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
Replacement of the protective waterproof membrane on Springbank Reservoirs No. 1 & 3 that have reached the end of their useful life. The membrane guards against contamination of the potable water supply stored within the buried, reinforced concrete structures.

Project Justification:
Replacement of a critical infrastructure component of the City's water system that has reached the end of its useful life.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW3583 - SPRINGBANK RESERVOIR 1 & 3 PROTECTIVE MEMBRANE

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3617
Project Title:	SPRINGBANK #2 WATER RESERVOIR REPLACEMENT & EXPANSION
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
Replacement of the Springbank Reservoir Cell #2 which has reached the end of its useful life. The long term water storage EA confirmed the need for a new 100ml reservoir, at the location of the existing Springbank #2 reservoir.

Project Justification:
Replacement of a critical component of the City of London Water System that has reached the end of its useful life. The reservoir provides water storage to meet fire and emergency needs.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW3617 - SPRINGBANK #2 WATER RESERVOIR REPLACEMENT & EXPANSION

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3627
Project Title:	SCADA EQUIPMENT REPLACEMENT & UPGRADES
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
The planned replacement of existing SCADA equipment that controls the City of London's Water and Wastewater systems.

Project Justification:
To maintain computers and SCADA communications equipment that operate the City's water and wastewater systems.

EW3627 - SCADA EQUIPMENT REPLACEMENT & UPGRADES

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CONSTRUCTION	52	0	0	0	0	0	0	0	0	0	0	0	0	52
CITY RELATED	338	200	0	142	0	330	169	0	0	199	371	0	0	1,749
TOTAL EXPENDITURES	390	200	0	142	0	330	169	0	0	199	371	0	0	1,801

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
SUB-TOTAL RATE SUPPORTED	-390	-200	0	-142	0	-330	-169	0	0	-199	-371	0	0	-1,801
TOTAL SOURCES OF FINANCING	-390	-200	0	-142	0	-330	-169	0	0	-199	-371	0	0	-1,801

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3673
Project Title:	COMMISSIONERS ROAD (SPRINGBANK TO WONDERLAND) WATERMAIN REPLACEMENT
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
To replace the watermain on Commissioners Rd from Springbank Drive to Wonderland Road. New watermain required to replace existing system which has surpassed its useful life. Coordinated with Transportation Project TS1302-1 and TS1302-2 - Road Widening. These transportation projects currently scheduled for 2033 and 2036.

Project Justification:
Replacement of an important component of the City of London Water System that has reached the end of its useful life.

EW3673 - COMMISSIONERS ROAD (SPRINGBANK TO WONDERLAND) WATERMAIN REPLACEMENT

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	0	0	328	0	328
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	0	0	3,344	3,344
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	0	0	328	3,344	3,672

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	0	0	-328	-3,344	-3,672
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	0	0	0	-328	-3,344	-3,672
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	0	0	-328	-3,344	-3,672

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3708
Project Title:	TRUNK WATERMAIN VALVE CHAMBERS
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
To install new valves and chambers on Sunningdale Road on either side of Medway Creek in conjunction with transportation works.

Project Justification:
New valves at Medway Creek allow for the 900mm trunk watermain on Sunningdale Rd to be quickly and effectively isolated at the creek in the event of an emergency in line with modern standards. Improved valving will also improve operation of this watermain by reducing the distance between valves in this developing part of the City. The corrosion protection system on this watermain is nearing the end of its life and its refurbishment will extend the life of the watermain. Efficiencies are realized by coordinating this work with the upcoming transportation widening.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW3708 - TRUNK WATERMAIN VALVE CHAMBERS

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW110421
Project Title:	SOUTHEAST PUMPING STATION OPTIMIZATION & RENEWAL
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Annual program required for ongoing capital upgrades and replacements to major components at the Southeast Pumping Station facility: architectural, civil, structural, process, mechanical, electrical equipment, instrumentation and controls, etc.

Project Justification:
The program addresses progressive improvements to the Southeast Pumping Station facility, to ensure security of water supply to the City, and while continuing to meet Regulatory requirements and environmental factors, provide staff safety, support equipment longevity, and gain efficiencies as the water distribution system grows and equipment reaches the end of its useful life.

EW110421 - SOUTHEAST PUMPING STATION OPTIMIZATION & RENEWAL

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CITY RELATED	0	0	102	157	161	110	113	115	118	121	124	127	0	1,248
TOTAL EXPENDITURES	0	0	102	157	161	110	113	115	118	121	124	127	0	1,248

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	-102	-157	-161	-110	-113	-115	-118	-121	-124	-127	0	-1,248
SUB-TOTAL RATE SUPPORTED	0	0	-102	-157	-161	-110	-113	-115	-118	-121	-124	-127	0	-1,248
TOTAL SOURCES OF FINANCING	0	0	-102	-157	-161	-110	-113	-115	-118	-121	-124	-127	0	-1,248

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW161221
Project Title:	NON-RESIDENTIAL METERS & DEVICES
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Purchase of new water meters, valves and related equipment. Includes cost of meters for all new industrial, commercial and institutional development; individual metering of existing condominiums, and life cycle replacement as required. Ensures fair billing based on actual water consumption.

Project Justification:
Water by-law W-8 requires that all new residential, commercial, industrial and institutional water services be metered.

EW161221 - NON-RESIDENTIAL METERS & DEVICES

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
VEHICLE & EQUIPMENT	0	0	410	419	429	440	450	461	472	484	495	507	0	4,567
TOTAL EXPENDITURES	0	0	410	419	429	440	450	461	472	484	495	507	0	4,567

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-410	-419	-429	-440	-450	-461	-472	-484	-495	-507	0	-4,567
SUB-TOTAL RATE SUPPORTED	0	0	-410	-419	-429	-440	-450	-461	-472	-484	-495	-507	0	-4,567
TOTAL SOURCES OF FINANCING	0	0	-410	-419	-429	-440	-450	-461	-472	-484	-495	-507	0	-4,567

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW162721
Project Title:	RESIDENTIAL METER REPLACEMENT
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Residential water meter replacement strategy to sustain the renewal of meters that have surpassed their useful life. Also includes new water meter installations for Residential Development.

Project Justification:
In 2008 there was a 51,000 meter backlog (out of 105,000 in service). These meters surpassed their effective life and the compounded inaccuracies of the meters were resulting in \$1.2M in unaccounted for revenue per year. This program is systematically eliminating that revenue loss and ensures fair and accurate customer billings based on consumption.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW162721 - RESIDENTIAL METER REPLACEMENT

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CITY RELATED	0	0	1,229	1,258	1,288	1,319	1,351	1,384	1,417	2,660	2,723	2,789	0	17,418
TOTAL EXPENDITURES	0	0	1,229	1,258	1,288	1,319	1,351	1,384	1,417	2,660	2,723	2,789	0	17,418

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-1,229	-1,258	-1,288	-1,319	-1,351	-1,384	-1,417	-2,660	-2,723	-2,789	0	-17,418
SUB-TOTAL RATE SUPPORTED	0	0	-1,229	-1,258	-1,288	-1,319	-1,351	-1,384	-1,417	-2,660	-2,723	-2,789	0	-17,418
TOTAL SOURCES OF FINANCING	0	0	-1,229	-1,258	-1,288	-1,319	-1,351	-1,384	-1,417	-2,660	-2,723	-2,789	0	-17,418

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW340921
Project Title:	PUMPING STATIONS OPTIMIZATION & RENEWAL
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Ongoing annual maintenance and upgrades to the water pumping stations and bulk water stations.

Project Justification:
Addresses environmental factors, staff safety and efficiency as the water distribution system grows and equipment reaches the end of its useful life.

EW340921 - PUMPING STATIONS OPTIMIZATION & RENEWAL

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CONSTRUCTION	0	0	256	210	215	220	394	231	236	242	248	254	0	2,506
TOTAL EXPENDITURES	0	0	256	210	215	220	394	231	236	242	248	254	0	2,506

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-256	-210	-215	-220	-394	-231	-236	-242	-248	-254	0	-2,506
SUB-TOTAL RATE SUPPORTED	0	0	-256	-210	-215	-220	-394	-231	-236	-242	-248	-254	0	-2,506
TOTAL SOURCES OF FINANCING	0	0	-256	-210	-215	-220	-394	-231	-236	-242	-248	-254	0	-2,506

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW352521
Project Title:	WATERMAIN CORROSION PROTECTION PROGRAM
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
To implement, test and monitor corrosion protection on steel, concrete and ductile iron watermain s to prolong the lifespan of existing watermain s.

Project Justification:
A properly functioning corrosion protection system is needed to protect the integrity of the existing cast metallic and concrete watermain s.

EW352521 - WATERMAIN CORROSION PROTECTION PROGRAM

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	65	66	68	69	71	0	0	0	0	0	0	339
CONSTRUCTION	0	0	857	878	899	920	942	1,038	1,063	1,088	1,114	1,141	0	9,940
TOTAL EXPENDITURES	0	0	922	944	967	989	1,013	1,038	1,063	1,088	1,114	1,141	0	10,279

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-922	-944	-966	-990	-1,013	-1,038	-1,063	-1,088	-1,114	-1,141	0	-10,279
SUB-TOTAL RATE SUPPORTED	0	0	-922	-944	-966	-990	-1,013	-1,038	-1,063	-1,088	-1,114	-1,141	0	-10,279
TOTAL SOURCES OF FINANCING	0	0	-922	-944	-966	-990	-1,013	-1,038	-1,063	-1,088	-1,114	-1,141	0	-10,279

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW352621
Project Title:	ARVA PUMPING STATION OPTIMIZATION & RENEWAL
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
To undertake major pump and valve maintenance/ replacement. Equipment is 40 years old and requires ongoing repairs and/or is no longer performing effectively or efficiently.

Project Justification:
Addresses security of water supply to the City and increases facility efficiency of an important component of London's Water System.

EW352621 - ARVA PUMPING STATION OPTIMIZATION & RENEWAL

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	20	20	20	20	0	0	0	0	0	0	0	80
CONSTRUCTION	0	0	211	165	116	65	113	115	118	121	124	127	0	1,275
CITY RELATED	0	0	15	15	15	15	0	0	0	0	0	0	0	60
VEHICLE & EQUIPMENT	0	0	10	10	10	10	0	0	0	0	0	0	0	40
TOTAL EXPENDITURES	0	0	256	210	161	110	113	115	118	121	124	127	0	1,455

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-256	-210	-161	-110	-113	-115	-118	-121	-124	-127	0	-1,455
SUB-TOTAL RATE SUPPORTED	0	0	-256	-210	-161	-110	-113	-115	-118	-121	-124	-127	0	-1,455
TOTAL SOURCES OF FINANCING	0	0	-256	-210	-161	-110	-113	-115	-118	-121	-124	-127	0	-1,455

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW355221
Project Title:	EMPS OPTIMIZATION & RENEWAL
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Project required for the ongoing, annual Capital maintenance of London's components in the Elgin-Middlesex (London) Pumping Station at St. Thomas.

Project Justification:
Ongoing preventative maintenance is critical to proper operation, longevity, and function of the equipment.

EW355221 - EMPS OPTIMIZATION & RENEWAL

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CITY RELATED	0	0	128	52	81	275	56	58	59	60	62	63	0	894
TOTAL EXPENDITURES	0	0	128	52	81	275	56	58	59	60	62	63	0	894

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-128	-52	-81	-275	-56	-58	-59	-60	-62	-63	0	-894
SUB-TOTAL RATE SUPPORTED	0	0	-128	-52	-81	-275	-56	-58	-59	-60	-62	-63	0	-894
TOTAL SOURCES OF FINANCING	0	0	-128	-52	-81	-275	-56	-58	-59	-60	-62	-63	0	-894

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW356321
Project Title:	WATERMAIN REHABILITATION AND RELINING
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
Annual program for the rehabilitation of existing watermains through the City of London in order to improve flow capacity or restore service life to older cast iron watermains in order to provide safe, cost effective water supply.

Project Justification:
Watermain cleaning and lining is a cost effective method of rehabilitating and extending the useful life of existing watermains.

EW356321 - WATERMAIN REHABILITATION AND RELINING

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CONSTRUCTION	0	0	5,120	5,243	5,369	5,498	6,192	1,153	1,181	1,209	1,238	1,268	0	33,471
TOTAL EXPENDITURES	0	0	5,120	5,243	5,369	5,498	6,192	1,153	1,181	1,209	1,238	1,268	0	33,471

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-5,120	-5,243	-5,369	-5,498	-6,192	-1,153	-1,181	-1,209	-1,238	-1,268	0	-33,471
SUB-TOTAL RATE SUPPORTED	0	0	-5,120	-5,243	-5,369	-5,498	-6,192	-1,153	-1,181	-1,209	-1,238	-1,268	0	-33,471
TOTAL SOURCES OF FINANCING	0	0	-5,120	-5,243	-5,369	-5,498	-6,192	-1,153	-1,181	-1,209	-1,238	-1,268	0	-33,471

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW371721
Project Title:	WATERMAIN CONDITION INSPECTION AND MONITORING
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
Annual program to inspect existing watermains.

Project Justification:
Structural inspections provide condition information used to proactively schedule and prioritize maintenance, repairs, and life cycle renewal of the City of London's Water Systems and most critical watermains.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW371721 - WATERMAIN CONDITION INSPECTION AND MONITORING

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	200	200	200	0	0	0	0	0	0	0	0	600
CONSTRUCTION	0	0	568	586	605	825	844	865	885	907	928	951	0	7,964
TOTAL EXPENDITURES	0	0	768	786	805	825	844	865	885	907	928	951	0	8,564

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-768	-786	-805	-825	-844	-865	-885	-907	-928	-951	0	-8,564
SUB-TOTAL RATE SUPPORTED	0	0	-768	-786	-805	-825	-844	-865	-885	-907	-928	-951	0	-8,564
TOTAL SOURCES OF FINANCING	0	0	-768	-786	-805	-825	-844	-865	-885	-907	-928	-951	0	-8,564

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW376521
Project Title:	INFRASTRUCTURE RENEWAL PROGRAM - WATERMAINS
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	A. Rozentals

Project Description:
An annual program for replacement of watermain and water services as outlined in the Condition Assessment Program Needs Study. New watermain and water services required to replace existing systems which have surpassed their useful life. New water supply required to provide fire flows to the community. Coordinated with sewer project ES2414 Sewer Replacement Program.

Project Justification:
Replacement of components of City of London Water System that have reached the end of their useful life.

EW376521 - INFRASTRUCTURE RENEWAL PROGRAM - WATERMAINS

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	2,500	2,500	2,500	0	0	0	0	0	0	0	0	7,500
CONSTRUCTION	0	0	13,720	14,920	15,787	17,740	39,146	20,130	27,474	25,295	21,664	22,184	0	218,060
TOTAL EXPENDITURES	0	0	16,220	17,420	18,287	17,740	39,146	20,130	27,474	25,295	21,664	22,184	0	225,560

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-11,673	-11,651	-12,718	-12,633	-12,565	-18,404	-18,891	-18,022	-18,251	-19,133	0	-153,941
RESERVE FUND	0	0	-3,911	-5,025	-4,145	-3,682	-25,155	-359	-7,866	-5,848	-1,988	-1,626	0	-59,605
SUB-TOTAL RATE SUPPORTED	0	0	-15,584	-16,676	-16,863	-16,315	-37,720	-18,763	-26,757	-23,870	-20,239	-20,759	0	-213,546
FEDERAL GRANTS	0	0	-637	-743	-1,425	-1,425	-1,425	-1,367	-717	-1,425	-1,425	-1,425	0	-12,014
SUB-TOTAL NON-RATE SUPPORTED	0	0	-637	-743	-1,425	-1,425	-1,425	-1,367	-717	-1,425	-1,425	-1,425	0	-12,014
TOTAL SOURCES OF FINANCING	0	0	-16,221	-17,419	-18,288	-17,740	-39,145	-20,130	-27,474	-25,295	-21,664	-22,184	0	-225,560

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW383321
Project Title:	WATERMAIN CONSTRUCTION & REPAIRS
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Watermain replacements in conjunction with sewer and road replacements.

Project Justification:
Replacements determined by operating deficiencies. Aged pipe is often in deteriorated condition resulting in inadequate flow or reduced water quality.

EW383321 - WATERMAIN CONSTRUCTION & REPAIRS

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	50	50	50	0	0	0	0	0	0	0	0	150
CONSTRUCTION	0	0	462	474	487	550	563	576	590	604	619	634	0	5,559
TOTAL EXPENDITURES	0	0	512	524	537	550	563	576	590	604	619	634	0	5,709

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	-512	-524	-537	-550	-563	-576	-590	-604	-619	-634	0	-5,709
SUB-TOTAL RATE SUPPORTED	0	0	-512	-524	-537	-550	-563	-576	-590	-604	-619	-634	0	-5,709
TOTAL SOURCES OF FINANCING	0	0	-512	-524	-537	-550	-563	-576	-590	-604	-619	-634	0	-5,709

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW384221
Project Title:	LEAD AND COPPER WATER SERVICES REPLACEMENT
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Life Cycle Renewal
Project/Program Manager:	J. Simon

Project Description:
Ongoing program to replace lead and failed copper services. Recommendation from the Walkerton Inquiry Report states "lead service lines should be located and replaced over time with safer materials." This work has been incorporated into our Lead Service Replacement Program. Concurrent program to replace leaking copper services which have been found to prematurely fail.

Project Justification:
To align with the recommendations of the Walkerton Inquiry and ensure residents receive safe and secure drinking water.

EW384221 - LEAD AND COPPER WATER SERVICES REPLACEMENT

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CONSTRUCTION	0	0	1,536	1,573	1,611	1,649	1,689	1,729	1,771	1,813	1,857	1,901	0	17,129
TOTAL EXPENDITURES	0	0	1,536	1,573	1,611	1,649	1,689	1,729	1,771	1,813	1,857	1,901	0	17,129

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	0	0	0	0	0	0	0	-79	0	0	0	0	0	-79
RESERVE FUND	0	0	-1,536	-1,573	-1,611	-1,649	-1,689	-1,651	-1,771	-1,813	-1,857	-1,901	0	-17,051
SUB-TOTAL RATE SUPPORTED	0	0	-1,536	-1,573	-1,611	-1,649	-1,689	-1,730	-1,771	-1,813	-1,857	-1,901	0	-17,130
TOTAL SOURCES OF FINANCING	0	0	-1,536	-1,573	-1,611	-1,649	-1,689	-1,730	-1,771	-1,813	-1,857	-1,901	0	-17,130

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3314
Project Title:	TRUNK WATERMAIN & PUMPING STN GROWTH STUDY
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Study to examine growth needs in the low level and some high level areas of the City and make recommendations to the timing and need of multiple future growth projects.100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study.

EW3314 - TRUNK WATERMAIN & PUMPING STN GROWTH STUDY

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3584
Project Title:	POND MILLS (NEW-5B) (HWY 401 TO SOUTHDALE RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
New 400mm watermain along Pond Mills Rd from Hwy 401 to Southdale Rd. to accommodate growth. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study

EW3584 - POND MILLS (NEW-5B) (HWY 401 TO SOUTHDALE RD)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	652	0	0	0	652
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	6,008	0	0	6,008
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	652	6,008	0	0	6,660

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-652	0	0	0	-652
DEBENTURE	0	0	0	0	0	0	0	0	0	0	-6,008	0	0	-6,008
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-652	-6,008	0	0	-6,660
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-652	-6,008	0	0	-6,660

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3585
Project Title:	POND MILLS (NEW-5C) (WILTON GROVE TO HWY 401)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
New 400mm watermain along Pond Mills Rd from Hwy 401 to Wilton Grove Rd to accommodate growth. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study.

EW3585 - POND MILLS (NEW-5C) (WILTON GROVE TO HWY 401)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	256	0	0	0	256
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	2,355	0	0	2,355
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	256	2,355	0	0	2,611

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-256	0	0	0	-256
DEBENTURE	0	0	0	0	0	0	0	0	0	0	-2,355	0	0	-2,355
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-256	-2,355	0	0	-2,611
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-256	-2,355	0	0	-2,611

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3593
Project Title:	HYDE PARK PUMPING STATION UPGRADE
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To upgrade the Hyde Park Pumping Station to serve future growth in northwest London. Growth splits are consistent with the 2019 Development Charges Study. 100% Growth Related (100% DC Rate Supported).

Project Justification:
Growth in the Hyde Park and portions of the Fox Hollow community planning areas drive the need to upgrade the facility.

EW3593 - HYDE PARK PUMPING STATION UPGRADE

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3602
Project Title:	WONDERLAND RD WATERMAIN (14b) (BEAVERBROOK TO OXFORD ST W)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
New 600mm watermain on Wonderland Rd from Beaverbrook Rd to Oxford St W to accommodate growth. Must be aligned with Transportation projects (no restoration included).
46% Growth Related (46% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study.

EW3602 - WONDERLAND RD WATERMAIN (14b) (BEAVERBROOK TO OXFORD ST W)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	0	0	121	0	121
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	0	0	1,117	1,117
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	0	0	121	1,117	1,238

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	0	0	-65	-603	-668
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	0	0	0	-65	-603	-668
RESERVE FUND	0	0	0	0	0	0	0	0	0	0	0	-56	-514	-570
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	0	0	-56	-514	-570
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	0	0	-121	-1,117	-1,238

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3603
Project Title:	WONDERLAND RD WATERMAIN (14c) (OXFORD ST INTERSECTION)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
New 600mm watermain along Wonderland Road through the Oxford St W Intersection to accommodate growth. 46% Growth Related (46% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study

EW3603 - WONDERLAND RD WATERMAIN (14c) (OXFORD ST INTERSECTION)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	90	0	0	0	0	90
CONSTRUCTION	0	0	0	0	0	0	0	0	0	832	0	0	0	832
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	90	832	0	0	0	922

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	-49	-449	0	0	0	-498
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	-49	-449	0	0	0	-498
RESERVE FUND	0	0	0	0	0	0	0	0	-42	-383	0	0	0	-425
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	-42	-383	0	0	0	-425
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	-91	-832	0	0	0	-923

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3604
Project Title:	WONDERLAND RD WATERMAIN (14d) (OXFORD ST W TO RIVERSIDE)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
New 600mm watermain along Wonderland Road from Oxford St W to approximately 150m north of Riverside Dr to accommodate growth. 46% Growth Related (46% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW3604 - WONDERLAND RD WATERMAIN (14d) (OXFORD ST W TO RIVERSIDE)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	0	141	0	0	141
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	0	1,298	0	1,298
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	0	141	1,298	0	1,439

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	0	-76	-701	0	-777
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	0	0	-76	-701	0	-777
RESERVE FUND	0	0	0	0	0	0	0	0	0	0	-65	-597	0	-662
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	0	-65	-597	0	-662
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	0	-141	-1,298	0	-1,439

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3625
Project Title:	WONDERLAND RD WATERMAIN - EXETER TO HAMLYN (A21a)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct a new 400mm watermain on Wonderland between Hamlyn and Exeter Rd. 95% Growth Related (95% DC Rate Supported). Growth splits are consistent with the 2019 Development Charges Background Study.

Project Justification:
2019 Development Charges Background Study.

EW3625 - WONDERLAND RD WATERMAIN - EXETER TO HAMLYN (A21a)

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3654
Project Title:	ARVA PUMPING STATION UPGRADE
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Upgrades to the Arva Pumping Station, including pump replacements will be required as water demand increases. 50% Growth Related (50% DC Rate Supported). Growth splits are consistent with the 2019 Development Charges Background Study.

Project Justification:
To provide increased capacity at the Arva Pumping Station for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3654 - ARVA PUMPING STATION UPGRADE

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3657
Project Title:	VISCOUNT RD WATERMAIN - WONDERLAND TO ANDOVER (3001/ 3002)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To upsize the existing watermain to 450mm watermain on Viscount Rd between Wonderland Rd and Andover Dr. Project required to upgrade high level water supply. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with 2019 Development Charges Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3657 - VISCOUNT RD WATERMAIN - WONDERLAND TO ANDOVER (3001/ 3002)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	461	0	0	0	0	0	0	0	0	461
CONSTRUCTION	0	0	0	0	0	4,246	0	0	0	0	0	0	0	4,246
TOTAL EXPENDITURES	0	0	0	0	461	4,246	0	0	0	0	0	0	0	4,707

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	-461	-4,246	0	0	0	0	0	0	0	-4,707
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	-461	-4,246	0	0	0	0	0	0	0	-4,707
TOTAL SOURCES OF FINANCING	0	0	0	0	-461	-4,246	0	0	0	0	0	0	0	-4,707

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3658
Project Title:	WONDERLAND RD WATERMAIN - COMMISSIONERS TO VISCOUNT (3000)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To replace and upsize the existing 300mm and 400mm watermain on Wonderland Road (Westmount Pumping Station to Viscount Road) with 600mm watermain. Project required to upgrade high level water supply. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charges Study. Review timing in parallel with DC Master Plan Update.

Project Justification:
To provide increased capacity for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3658 - WONDERLAND RD WATERMAIN - COMMISSIONERS TO VISCOUNT (3000)

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3692
Project Title:	MEDWAY WATERMAIN (A1) (ARVA PS TO WONDERLAND RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct 1500mm watermains from the Arva Pumping Station to Wonderland Road. Trunk watermains required to supply future customers in north and west London. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with 2019 Development Charge Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3692 - MEDWAY WATERMAIN (A1) (ARVA PS TO WONDERLAND RD)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	572	0	0	0	0	0	0	0	0	0	572
CONSTRUCTION	0	0	0	0	0	5,397	0	0	0	0	0	0	0	5,397
TOTAL EXPENDITURES	0	0	0	572	0	5,397	0	0	0	0	0	0	0	5,969

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	-572	0	-397	0	0	0	0	0	0	0	-969
DEBENTURE	0	0	0	0	0	-5,000	0	0	0	0	0	0	0	-5,000
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	-572	0	-5,397	0	0	0	0	0	0	0	-5,969
TOTAL SOURCES OF FINANCING	0	0	0	-572	0	-5,397	0	0	0	0	0	0	0	-5,969

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3694
Project Title:	KILALLY ROAD WATERMAIN (A30) PHASE 2 (WEBSTER TO CLARKE RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Installation of a new 400mm watermain on Kilally Road from Highbury Avenue to Clarke Road. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charges Study.

Project Justification:
To provide increased capacity and servicing for the anticipated growth as documented in the 2019 Development Charges Background Study.

EW3694 - KILALLY ROAD WATERMAIN (A30) PHASE 2 (WEBSTER TO CLARKE RD)

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3711
Project Title:	WILTON GROVE WATERMAIN (NEW-4) (HUBREY RD TO POND MILLS RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Replace and upgrade the existing 300mm watermain to 400mm watermain between Hubrey Road and Pond Mills Road. 100% Growth (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charges Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3711 - WILTON GROVE WATERMAIN (NEW-4) (HUBREY RD TO POND MILLS RD)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	236	0	0	0	236
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	2,176	0	0	2,176
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	236	2,176	0	0	2,412

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-236	-2,176	0	0	-2,412
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-236	-2,176	0	0	-2,412
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-236	-2,176	0	0	-2,412

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3766
Project Title:	LONGWOODS (A20) WATERMAIN DINGMAN DR (WONDERLAND RD TO WHITE OAK RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct a 400mm watermain on Dingman Drive from Wonderland Road to White Oak Road. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
To prove increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3766 - LONGWOODS (A20) WATERMAIN DINGMAN DR (WONDERLAND RD TO WHITE OAK RD)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	736	0	0	0	0	0	0	0	736
CONSTRUCTION	0	0	0	0	0	0	0	6,948	0	0	0	0	0	6,948
TOTAL EXPENDITURES	0	0	0	0	0	736	0	6,948	0	0	0	0	0	7,684

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	-736	0	-6,948	0	0	0	0	0	-7,684
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	-736	0	-6,948	0	0	0	0	0	-7,684
TOTAL SOURCES OF FINANCING	0	0	0	0	0	-736	0	-6,948	0	0	0	0	0	-7,684

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3788
Project Title:	WESTERN ROAD WATERMAIN UPSIZING (PLATT'S LANE TO SARNIA RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Upgrading of existing watermain on Western Road from Platt's Lane to Sarnia Road to 400mm. 10% Growth Related (10% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study

EW3788 - WESTERN ROAD WATERMAIN UPSIZING (PLATT'S LANE TO SARNIA RD)

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3789
Project Title:	WONDERLAND WATERMAIN (A2) (MEDWAY RD TO CITY LIMIT)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct 1500mm watermains from Medway Road to the City Limit. Trunk watermains required to supply future customers in north and west London. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with 2019 Development Charge Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3789 - WONDERLAND WATERMAIN (A2) (MEDWAY RD TO CITY LIMIT)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	571	0	0	0	0	0	0	0	0	0	571
CONSTRUCTION	0	0	0	0	0	5,391	0	0	0	0	0	0	0	5,391
TOTAL EXPENDITURES	0	0	0	571	0	5,391	0	0	0	0	0	0	0	5,962

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	-571	0	0	0	0	0	0	0	0	0	-571
DEBENTURE	0	0	0	0	0	-5,391	0	0	0	0	0	0	0	-5,391
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	-571	0	-5,391	0	0	0	0	0	0	0	-5,962
TOTAL SOURCES OF FINANCING	0	0	0	-571	0	-5,391	0	0	0	0	0	0	0	-5,962

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3790
Project Title:	WONDERLAND WATERMAIN (A3) (CITY LIMIT TO SUNNINGDALE RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct 1500mm watermain from the City Limit to Sunningdale Rd. Trunk watermain required to supply future customers in north and west London. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with 2019 Development Charge Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3790 - WONDERLAND WATERMAIN (A3) (CITY LIMIT TO SUNNINGDALE RD)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	502	0	0	0	0	0	0	0	0	0	502
CONSTRUCTION	0	0	0	0	0	4,735	0	0	0	0	0	0	0	4,735
TOTAL EXPENDITURES	0	0	0	502	0	4,735	0	0	0	0	0	0	0	5,237

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	-502	0	-4,735	0	0	0	0	0	0	0	-5,237
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	-502	0	-4,735	0	0	0	0	0	0	0	-5,237
TOTAL SOURCES OF FINANCING	0	0	0	-502	0	-4,735	0	0	0	0	0	0	0	-5,237

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	ID2195
Project Title:	WATERMAIN INDUSTRIAL
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	M. Henderson

Project Description:
Water servicing of future light and general industrial land to provide an adequate inventory of large block 'shovel ready' land in strategic locations. Project coordinated with other ILDS servicing accounts (Internal Servicing-ID1150, Sanitary-ID1057, Storm-ID2090, SWM-ID2095 and External Transportation Servicing-ID2169). 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
Provide economic growth opportunities by servicing strategic lands to accommodate current and future industrial land requirements as per the City's 2014 Industrial Land Development Strategy. Scope and timing of individual projects is subject to land acquisition.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

ID2195 - WATERMAIN INDUSTRIAL

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	400	100	0	250	100	150	0	75	0	250	0	1,500	0	2,825
CONSTRUCTION	1,034	3,400	0	3,000	1,500	2,000	0	1,500	0	2,016	0	14,145	0	28,595
TOTAL EXPENDITURES	1,434	3,500	0	3,250	1,600	2,150	0	1,575	0	2,266	0	15,645	0	31,420

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	-1,434	-3,500	0	-3,250	0	0	0	-1,575	0	-2,266	0	0	0	-12,025
DEBENTURE	0	0	0	0	-1,600	-2,150	0	0	0	0	0	-15,645	0	-19,395
SUB-TOTAL NON-RATE SUPPORTED	-1,434	-3,500	0	-3,250	-1,600	-2,150	0	-1,575	0	-2,266	0	-15,645	0	-31,420
TOTAL SOURCES OF FINANCING	-1,434	-3,500	0	-3,250	-1,600	-2,150	0	-1,575	0	-2,266	0	-15,645	0	-31,420

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW331222
Project Title:	2024 WATER DEV CHARGE STUDY
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Background study to determine future watermain needs to service growth, including timing and growth splits for the 2024 Development Charge Background Study. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
Project is required to update the City's Water Master Plan completed over the last 5 years and identify future works to support growth (for the next 20 years). Project is also required to support the future Development Charge Study every 5 years as a result of the Development Charge Act.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW331222 - 2024 WATER DEV CHARGE STUDY

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW331227
Project Title:	2029 WATER DEV CHARGE STUDY
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Background study to determine future watermain needs to service growth, including timing and growth splits for the 2029 Development Charge Background Study. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
Project is required to update the City's Water Master Plan completed over the last 5 years and identify future works to support growth (for the next 20 years). Project is also required to support the future Development Charge Study every 5 years as a result of the Development Charge Act.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW331227 - 2029 WATER DEV CHARGE STUDY

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	354	0	0	0	0	354
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	354	0	0	0	0	354

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	-354	0	0	0	0	-354
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	-354	0	0	0	0	-354
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	-354	0	0	0	0	-354

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3625-2
Project Title:	LAMBETH PH 2 (A21b) WATERMAIN WONDERLAND RD (HAMLYN ST TO DINGMAN DR)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct 400mm watermain on Wonderland Rd from Hamlyn St to Dingman Dr. 95% Growth Related (95% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3625-2 - LAMBETH PH 2 (A21b) WATERMAIN WONDERLAND RD (HAMLYN ST TO DINGMAN DR)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	112	0	0	0	0	0	0	0	112
CONSTRUCTION	0	0	0	0	0	0	0	1,059	0	0	0	0	0	1,059
TOTAL EXPENDITURES	0	0	0	0	0	112	0	1,059	0	0	0	0	0	1,171

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	-6	0	-53	0	0	0	0	0	-59
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	-6	0	-53	0	0	0	0	0	-59
RESERVE FUND	0	0	0	0	0	-107	0	-1,006	0	0	0	0	0	-1,113
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	-107	0	-1,006	0	0	0	0	0	-1,113
TOTAL SOURCES OF FINANCING	0	0	0	0	0	-113	0	-1,059	0	0	0	0	0	-1,172

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3657-2
Project Title:	WESTMOUNT (3004) - ANDOVER DR (VISCOUNT TO ENSIGN DR)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To upsize watermainon Andover Drive from Viscount Road to Ensign Drive. Project required touprgrade high level water supply. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charges Study.

Project Justification:
To provide increased capacity and servicing for anticipated growth as documented in the 2019 Development Charges Background Study.

EW3657-2 - WESTMOUNT (3004) - ANDOVER DR (VISCOUNT TO ENSIGN DR)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	89	0	0	0	89
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	822	0	0	822
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	89	822	0	0	911

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-89	-822	0	0	-911
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-89	-822	0	0	-911
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-89	-822	0	0	-911

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3657-3
Project Title:	WESTMOUNT (3005) - ENSIGN DR (ANDOVER TO NOTRE DAME DR)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To upsize watermain on Ensign Drive fromAndover Drive to Notre Dame Drive. Project required to upgrade high level water supply. 100% GrowthRelated (100% DC Rate Supported).
Growth splits are consistent with the 2019 Development Charges Study.

Project Justification:
To provide increased capacity and servicing for anticipatedgrowth as documented in the Development Charges Background Study.

EW3657-3 - WESTMOUNT (3005) - ENSIGN DR (ANDOVER TO NOTRE DAME DR)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	176	0	0	0	176
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	1,620	0	0	1,620
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	176	1,620	0	0	1,796

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-176	-1,620	0	0	-1,796
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-176	-1,620	0	0	-1,796
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-176	-1,620	0	0	-1,796

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3657-4
Project Title:	WESTMOUNT (3006) - NOTRE DAME DR (ENSIGN TO BELMONT)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To upsize watermainon Notre Dame Drive from Ensign Drive to Belmont Drive. Project required toupgrade high level water supply. 100% Growth Related (100% DC Rate Supported).Growth splits are consistent with the 2019 Development Charges Study

Project Justification:
To provide increased capacity and servicing for anticipatedgrowth as documented in the Development Charges Background Study.

EW3657-4 - WESTMOUNT (3006) - NOTRE DAME DR (ENSIGN TO BELMONT)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	74	0	0	0	74
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	679	0	0	679
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	74	679	0	0	753

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-74	-679	0	0	-753
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-74	-679	0	0	-753
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-74	-679	0	0	-753

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW3666-2
Project Title:	WONDERLAND FEEDER WATERMAIN (A8a) (FANSHAWE PARK RD TO GAINSBOROUGH RD)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To construct a 750mm watermain north Fanshawe Park Road to Gainsborough Road. Project required to upgrade north London area water supply. 45% Growth Related (45% DC Rate Supported). Growth splits are consistent with 2019 Development Charges Study.

Project Justification:
To provide increased capacity and servicing to anticipated growth as documented in the 2019 Development Charges Background Study.

EW3666-2 - WONDERLAND FEEDER WATERMAIN (A8a) (FANSHAWE PARK RD TO GAINSBOROUGH RD)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	0	0	0	0	0	0	0	835	0	0	0	835
CONSTRUCTION	0	0	0	0	0	0	0	0	0	0	7,694	0	0	7,694
TOTAL EXPENDITURES	0	0	0	0	0	0	0	0	0	835	7,694	0	0	8,529

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	0	0	0	0	0	0	0	-459	-4,232	0	0	-4,691
SUB-TOTAL RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-459	-4,232	0	0	-4,691
RESERVE FUND	0	0	0	0	0	0	0	0	0	-376	-3,462	0	0	-3,838
SUB-TOTAL NON-RATE SUPPORTED	0	0	0	0	0	0	0	0	0	-376	-3,462	0	0	-3,838
TOTAL SOURCES OF FINANCING	0	0	0	0	0	0	0	0	0	-835	-7,694	0	0	-8,529

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW377219
Project Title:	WATER EFFICIENCY PROGRAM (2019-2023)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
To undertake a water efficiency strategy and to promote awareness of water issues. Water efficiency/conservation program is a requirement of the new Municipal Water Licensing Plan. 8% Growth related (8% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
Further education effort to promote wise use of water in all its form with the goal of delaying major future capital expenditures. Implementation of actual retrofit and habit changing programs will contribute to supporting economic growth and cost effective expansion of the City.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW377219 - WATER EFFICIENCY PROGRAM (2019-2023)

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW381819
Project Title:	WATERMAIN INTERNAL OVERSIZING SUBSIDY (2019-2023)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Funding source for watermain oversizing claims by land developers. Claims are to be paid in accordance with the current Development Charges By-law. Review and approval of these claims is provided by the Development Finance Division. 100% Growth Related (100% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
To support the provision of growth servicing within newly developed areas.

EW381819 - WATERMAIN INTERNAL OVERSIZING SUBSIDY (2019-2023)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CONSTRUCTION	89	89	91	93	95	98	100	102	105	107	110	113	1,004	2,196
TOTAL EXPENDITURES	89	89	91	93	95	98	100	102	105	107	110	113	1,004	2,196

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	-89	-89	-91	-93	-95	-98	-100	-102	-105	-107	-110	-113	-1,004	-2,196
SUB-TOTAL NON-RATE SUPPORTED	-89	-89	-91	-93	-95	-98	-100	-102	-105	-107	-110	-113	-1,004	-2,196
TOTAL SOURCES OF FINANCING	-89	-89	-91	-93	-95	-98	-100	-102	-105	-107	-110	-113	-1,004	-2,196

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW382319
Project Title:	WATERMAIN - BUILT AREA WORKS (2019-2023)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Program to build watermains to accommodate growth/intensification in the built area of the City. 56% Growth Related (56% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study

EW382319 - WATERMAIN - BUILT AREA WORKS (2019-2023)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	35	0	0	0	0	0	0	0	0	0	0	0	0	35
CONSTRUCTION	142	177	181	33	33	34	35	36	37	38	39	40	352	1,177
TOTAL EXPENDITURES	177	177	181	33	33	34	35	36	37	38	39	40	352	1,212

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	-78	-78	-80	-14	-15	-15	-15	-16	-16	-17	-17	-17	-156	-534
SUB-TOTAL RATE SUPPORTED	-78	-78	-80	-14	-15	-15	-15	-16	-16	-17	-17	-17	-156	-534
RESERVE FUND	-99	-99	-101	-18	-19	-19	-20	-20	-21	-21	-22	-22	-198	-679
SUB-TOTAL NON-RATE SUPPORTED	-99	-99	-101	-18	-19	-19	-20	-20	-21	-21	-22	-22	-198	-679
TOTAL SOURCES OF FINANCING	-177	-177	-181	-32	-34	-34	-35	-36	-37	-38	-39	-39	-354	-1,213

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW382519
Project Title:	WATERMAIN-STRATEGIC LINKS (2019-2023)
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Growth
Project/Program Manager:	A. Rozentals

Project Description:
Program to fund growth related water servicing improvements required in the built area of the City. 90% Growth Related (90% DC Rate Supported). Growth splits are consistent with the 2019 Development Charge Study.

Project Justification:
2019 Development Charges Study.

EW382519 - WATERMAIN-STRATEGIC LINKS (2019-2023)

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	80	0	0	0	0	0	0	0	0	0	0	0	0	80
CONSTRUCTION	341	421	431	441	66	68	70	71	73	75	77	78	698	2,910
TOTAL EXPENDITURES	421	421	431	441	66	68	70	71	73	75	77	78	698	2,990

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	-42	-42	-43	-44	-7	-7	-7	-7	-7	-7	-8	-8	-69	-298
SUB-TOTAL RATE SUPPORTED	-42	-42	-43	-44	-7	-7	-7	-7	-7	-7	-8	-8	-69	-298
RESERVE FUND	-379	-379	-388	-397	-60	-61	-63	-64	-66	-67	-69	-71	-628	-2,692
SUB-TOTAL NON-RATE SUPPORTED	-379	-379	-388	-397	-60	-61	-63	-64	-66	-67	-69	-71	-628	-2,692
TOTAL SOURCES OF FINANCING	-421	-421	-431	-441	-67	-68	-70	-71	-73	-74	-77	-79	-697	-2,990

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW1100
Project Title:	CMMS ENHANCEMENT PROGRAM
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	J. Simon

Project Description:
Enhancements and improvements to the Computerized Maintenance Management System (CMMS) to aide in the day-to-day functionality and usability for front line and office staff.

Project Justification:
Some CMMS functionality was not included in the initial implementation, and as staff become familiar with the CMMS new ideas and suggestions will come forward for improvements that can be made. CMMS will be a continually evolving tool to match and enhance how Operations functions day-to-day and the need to add and/or create new modules to meet our ever changing needs, both Operationally and Regulatory, will arise.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW1100 - CMMS ENHANCEMENT PROGRAM

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	100	0	105	0	110	0	115	0	121	0	127	0	678
TOTAL EXPENDITURES	0	100	0	105	0	110	0	115	0	121	0	127	0	678

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	-100	0	-105	0	-110	0	-115	0	-121	0	-127	0	-678
SUB-TOTAL RATE SUPPORTED	0	-100	0	-105	0	-110	0	-115	0	-121	0	-127	0	-678
TOTAL SOURCES OF FINANCING	0	-100	0	-105	0	-110	0	-115	0	-121	0	-127	0	-678

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW1102
Project Title:	LAMBETH RESERVOIR DEMOLITION
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	J. Simon

Project Description:
Demolition and decommissioning of the buried reservoir located at Lambeth Veterans Park.

Project Justification:
The reservoir is surrounded by commercial and residential properties, with the ground surface currently being used as a lawn bowling facility. It formerly served as a reservoir for the Lambeth Well, which has been decommissioned. The reservoir and plot of land are no longer required as part of the Drinking Water System, and are a liability to the Corporation.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW1102 - LAMBETH RESERVOIR DEMOLITION

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW1105
Project Title:	SOUTHWINDS RESERVOIR DEMOLITION
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	J. Simon

Project Description:
Demolition and decommissioning of the buried reservoir located at 3901 West Graham Place in Southwinds Subdivision.

Project Justification:
The reservoir structure abuts residential properties, and is also contiguous with Graham Place Park. It formerly served as a water treatment plant/reservoir for the Southwinds Subdivision development, which has been decommissioned and disconnected from the City's water distribution system. The reservoir structure and plot of land are no longer required as part of the Drinking Water System, with abandoned structure being a liability to the Corporation.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW1105 - SOUTHWINDS RESERVOIR DEMOLITION

Project Expenditure Details (in Thousands)

[illegible]

Project Sources of Financing Details (in Thousands)

[illegible]

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW1630
Project Title:	LEAK DETECTION PROGRAM
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	A. Rozentals

Project Description:
Program to develop a leak detection system that incorporates elements of water modelling, fire hydrant management, and billing audit confirmation to enhance the cost effectiveness of water service delivery. Will also include the pilot of new technologies or methods to be incorporated into grander operating program.

Project Justification:
Program projected to result in cost savings through leak reduction and efficiencies in day to day operations. May also identify infrastructure in need of retrofit, avoiding damages from unanticipated failures.

EW1630 - LEAK DETECTION PROGRAM

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	500	0	0	0	0	0	0	0	0	0	0	0	0	500
CONSTRUCTION	1,250	40	0	147	0	44	0	161	0	48	0	177	0	1,867
CITY RELATED	750	0	0	0	0	0	0	0	0	0	0	0	0	750
TOTAL EXPENDITURES	2,500	40	0	147	0	44	0	161	0	48	0	177	0	3,117

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	-2,500	-40	0	-147	0	-44	0	-161	0	-48	0	-177	0	-3,117
SUB-TOTAL RATE SUPPORTED	-2,500	-40	0	-147	0	-44	0	-161	0	-48	0	-177	0	-3,117
TOTAL SOURCES OF FINANCING	-2,500	-40	0	-147	0	-44	0	-161	0	-48	0	-177	0	-3,117

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW1632
Project Title:	CUSTOMER BILLING PROCESS VALIDATION PROGRAM
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	A. Rozentals

Project Description:
To perform audits and develop reporting by London Hydro for water billing. Reviews the customer billing process, exemptions and escalation policies. Updates process and policies to resolve customer experience pain points.

Project Justification:
Ensures revenues and consumption are tracked correctly and provides an avenue for recovery of revenues in the event of errors. Verifies that process and policies are effective.

If you require this information in an alternative format please contact budget@london.ca or call 519-661-4638.

EW1632 - CUSTOMER BILLING PROCESS VALIDATION PROGRAM

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	150	0	51	0	54	0	56	0	59	0	62	0	0	432
TOTAL EXPENDITURES	150	0	51	0	54	0	56	0	59	0	62	0	0	432

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
CAPITAL LEVY/RATES	-150	0	-51	0	-54	0	-56	0	-59	0	-62	0	0	-432
SUB-TOTAL RATE SUPPORTED	-150	0	-51	0	-54	0	-56	0	-59	0	-62	0	0	-432
TOTAL SOURCES OF FINANCING	-150	0	-51	0	-54	0	-56	0	-59	0	-62	0	0	-432

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW2405
Project Title:	WATER OPERATIONS VEHICLES & EQUIPMENT
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Operations
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	J. Simon

Project Description:
Purchase new vehicles to provide for planned growth of the water distribution system.

Project Justification:
Addresses environmental factors, staff safety, and efficiency as the water distribution system grows in size.

EW2405 - WATER OPERATIONS VEHICLES & EQUIPMENT

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
VEHICLE & EQUIPMENT	638	180	0	0	161	0	0	173	0	0	186	0	0	1,338
TOTAL EXPENDITURES	638	180	0	0	161	0	0	173	0	0	186	0	0	1,338

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	-638	-180	0	0	-161	0	0	-173	0	0	-186	0	0	-1,338
SUB-TOTAL RATE SUPPORTED	-638	-180	0	0	-161	0	0	-173	0	0	-186	0	0	-1,338
TOTAL SOURCES OF FINANCING	-638	-180	0	0	-161	0	0	-173	0	0	-186	0	0	-1,338

PROJECT DETAIL RECORD: 2021 CAPITAL BUDGET WITH FORECAST

Date: 2021/03/01

Project Number:	EW374321
Project Title:	EXTENSION OF WATER SERVICING TO BUILT-OUT AREAS
Entity:	Water
Service Program:	Environmental Services
Service Grouping:	Water
Service:	Water - Engineering
Service Area:	Environment & Engineering
Classification:	Service Improvement
Project/Program Manager:	A. Rozentals

Project Description:
Funding for the extension of services to unserved parts of the urban growth boundary. Priority is given to projects completed in accordance with the Local Improvements Act with remaining funding applied to extending servicing to unserved built-out areas.

Project Justification:
Program to extend servicing to the City's water system to built-out areas currently serviced by individual septic tank systems.

EW374321 - EXTENSION OF WATER SERVICING TO BUILT-OUT AREAS

Project Expenditure Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
DESIGN	0	0	32	32	32	32	32	32	32	32	32	32	0	320
CONSTRUCTION	0	0	173	178	183	188	193	199	204	210	216	222	0	1,966
TOTAL EXPENDITURES	0	0	205	210	215	220	225	231	236	242	248	254	0	2,286

Project Sources of Financing Details (in Thousands)

Budget Line Item	Prior Years	2020 Approved Budget	2021 Forecast	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast	2030 Forecast	2031 And Beyond	Total Budget
RESERVE FUND	0	0	-205	-210	-215	-220	-225	-231	-236	-242	-248	-254	0	-2,286
SUB-TOTAL RATE SUPPORTED	0	0	-205	-210	-215	-220	-225	-231	-236	-242	-248	-254	0	-2,286
TOTAL SOURCES OF FINANCING	0	0	-205	-210	-215	-220	-225	-231	-236	-242	-248	-254	0	-2,286