

**ERIE COUNTY WATER AUTHORITY**  
**INTEROFFICE MEMORANDUM**



October 24, 2018

To: Commissioners Schad, Carney and Jones

From: Robert J. Lichtenthal, Jr., Deputy Director

Subject: Attached 2019 Budget Documents

A handwritten signature in blue ink, appearing to be "R. Lichtenthal", is written over the "From:" line.

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Included with this memo is the Authority's 2019 Annual Budget for your consideration.

The final preparation of the Annual Budget includes the changes to the Capital Budget (additions) and the impact those changes had on the Operation & Maintenance Budget (Administrative Credits) as discussed during the Budget Hearings on October 16 and 18, 2019.

The adoption process consists of three separate resolutions which are supported by four separate documents. The first resolution will address the adoption of the Operation & Maintenance Budget. The second resolution will address the adoption of the Capital Budget. The third resolution authorizes the staff to file the Public Authority Reporting Information System (PARIS) Budget and Financial Plan. This report is supported by the Authority's Five Year Rate Projection Model. This Budget and Financial Plan, along with the posting of the adopted Operation & Maintenance and Capital Budget at the Authority's website, is due by November 1, 2018.

If you have any questions please contact me.



# ERIE COUNTY WATER AUTHORITY

## 2019 BUDGET

### Section

#### Operating and Maintenance Expense

- 1.1 Statement of Net Income Available for Capital Budget
- 1.2 Summary of Expenses by Major Object of Expenditure (Recap)
- 1.3 Summary of Expenses by Major Object of Expenditure (Detail)
- 1.4 Operating and Maintenance Expense by Unit

#### Capital

- 2.1 Statement of Resources & Summary of Appropriations for Year
- 2.2 Schedule of Appropriations (Detail)
- 2.3 Summary of Appropriations by Category

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Statement of Resources & Summary of Appropriations

	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<u>Resources:</u>					
REVENUE FUND:					
AVAIL FROM 2019 OPER.AND MAINT. BUDGET	18,193,038	4,057,530	22,250,568	14,625	22,265,193
OTHER FUNDS:					
CASH RESTRICTED FOR FUTURE CONSTR.	17,916,734	1,128,488	19,045,222	275,938	19,321,160
TOTAL RESOURCES:	36,109,772	5,186,018	41,295,790	290,563	41,586,353

Appropriations Summarized:

1010 Sturgeon Point Plant	961,400	586,400-	375,000	48,400	423,400
1015 Van De Water Plant	756,506	232,000-	524,506	0	524,506
1020 Control Operations	354,100	0	354,100	0	354,100
1025 Instrumentation	455,766	0	455,766	0	455,766
1030 Water Quality Assurance	40,000	0	40,000	0	40,000
1090 Transportation & Auto Equip	529,500	0	529,500	0	529,500
2020 UFPO	60,000	0	60,000	0	60,000
2090 Distribution Mains	1,600,000	0	1,600,000	0	1,600,000
2510 Eng/Const Sturgeon Point	700,000	653,000	1,353,000	0	1,353,000
2520 Eng/Const Control	7,030,000	1,300,000-	5,730,000	139,625	5,869,625
2590 Eng/Const Distribution Mains	9,180,000	140,000	9,320,000	0	9,320,000
2595 Eng/Const Transmission Mains	9,380,000	5,880,000	15,260,000	0	15,260,000
3070 Facilities	857,500	0	857,500	0	857,500
4040 Meter Shop	2,317,655	343-	2,317,312	0	2,317,312
8525 Information Technology	1,984,883	636,761	2,621,644	0	2,621,644
<b>Total Appropriations:</b>	<b>36,207,310</b>	<b>5,191,018</b>	<b>41,398,328</b>	<b>188,025</b>	<b>41,586,353</b>

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 Excess (Deficit) of Resources Over Appropriations

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	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 1010 Sturgeon Point Plant</b>						
CAT.: EQUIP Equipment						
101363	PLC UPGRADES N	363,000	363,000-	0	0	0
	PLC HARDWARE INSTALLED 1995 IS OBSOLET AND IS HAS NO TECHNICAL SUPPORT. PLC UPGRADING ALLOWS FOR IMPROVED NETWORKING WITH SCADA Estimated Useful Life: 10 Years					
101377	REPLACEMENT HIGH SERVICE PU N	175,000	0	175,000	0	175,000
	REPLACEMENT OF HIGH SERVICE 4 OR 5. PUMP REPLACMENT AND MOTOR REBUILD. SCHEDULING ONE PUMP PER YEAR. Estimated Useful Life: 20 Years					
101378	FLASH MIXERS (4) N	45,000	45,000-	0	0	0
	REPLACE THE MIXING SHAFT IN EACH FLASH MIXER Estimated Useful Life: 10 Years					
101379	HIGH SERVICE CONE VALVES N	50,000	0	50,000	0	50,000
	CONE VALVES HIGH SERVICE ARE #2 AND #7 Estimated Useful Life: 15 Years					
101380	SAFETY PERMANENT EYEWASH/SH D	55,000	0	55,000	0	55,000
	INSTALL EYEWASH AND SHOWER UNITS TO MEET OSHA / PESH OSHA REQUIRES WATER BE A TEPID SUPPLY Estimated Useful Life: 25 Years					
101398	HACH TURBIDITMETERS N	95,000	0	95,000	0	95,000
	HACH 1720E TURBIDIMETERS BE OBOSOLET, WITH NO TECHNICAL SERVICE NOR MAINTENACE. TURBIDIMETERS ARE REQUIRED BY NYSDOH AND EPA TO MEET TURBIDITY RULE Estimated Useful Life: 15 Years					
101407	PILOT PLANT UPGRADE D	75,000	75,000-	0	0	0
	PLACE PILOT PLANT SERVICE FOR JOINT STUDIES REQUIRES UPGRADING INSTRUMENTS, CHEMICAL PUMPS AND SCADA PLC AND PROGRAM Estimated Useful Life: 15 Years					
CAT.: LAND Land						
101284	RESIDUAL PROCESS AND LAGOON N	48,400	48,400-	0	48,400	48,400
	LAGOON DEWATERING AND SLUDGE STORAGE REQUIRES RE-DESIGN SLUDGE PROCESS -DEWATERING. ENGINEERING DESIGN Estimated Useful Life: 50 Years					
CAT.: STRCT Buildings&Structures						
101364	FILTER CEILING REPLACEMENT D	55,000	55,000-	0	0	0
	DESIGN, REPLACEMENT NTERIOR CEILING IN THE FILTER AREA AND IMPROVE VENTILATION Estimated Useful Life: 20 Years					

Erie County Water Authority  
Preliminary and Annual Capital Budget - 2019  
Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
Unit: 1010 Sturgeon Point Plant					
TOTAL Sturgeon Point Plant	961,400	586,400-	375,000	48,400	423,400
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Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET	
<b>Unit: 1015 Van De Water Plant</b>						
CAT.: EQUIP Equipment						
101299	SECURITY IMPROVMENTS VDW RA D	122,870	90,000	212,870	0	212,870
	REPLACE VDW RAW WATER GATE.WITH AUTOMATED OPERATOR,CAMERAS, CALL BOX.. Estimated Useful Life: 20 Years					
101382	SCISSOR LIFT N	20,000	0	20,000	0	20,000
	SCISSOR LIFT IS USED REACH PLANT VALVES AND LIGHTING Estimated Useful Life: 25 Years					
101383	PLC UPGRADE D	290,000	290,000-	0	0	0
	PLANT PLC HARDWARE IS 15 YEARS OLD, EQUIPMENT IS OBSOLET AND LACKS TECHNICAL SUPPORT.TECHNICAL SUPPORT. PLC UPGRADING ALLOWS FOR IMPROVED NETWORKING WITH SCADA SYSTEMS Estimated Useful Life: 15 Years					
101399	HACH TURBIDIMETERS N	95,000	0	95,000	0	95,000
	HACH 1720E TURBIDIMETERS BE OBOSOLET, WITH NO TECHNICAL SERVICE NOR MAINTENACE. TURBIDIMETERS ARE REQUIRED BY AND EPA TO MEET TURBIDITY RULE Estimated Useful Life: 15 Years					
101405	POTASIUM PERMANGNATE MIXERS N	22,000	0	22,000	0	22,000
	TWO POTASSIUM PERMANGNATE MIXERS ARE 35+ YEARS. REPLACEMENTS NEEDED Estimated Useful Life: 35 Years					
101406	RAW WATER AND HIGH SERVICE N	32,000	32,000-	0	0	0
	CRANES NEED REPLACING WITH VFD AND CONTROLS Estimated Useful Life: 30 Years					
101415	SAFETY PERMANENT EYEWASH/SH D	55,000	0	55,000	0	55,000
	INSTALL EYEWASH AND SHOWER UNITS TO MEET OSHA / PESH OSHA REQUIRES WATER BE A TEPID SUPPLY Estimated Useful Life: 25 Years					
CAT.: STRCT Buildings&Structures						
101244	SLUDGE PLANT STUDY N	119,636	0	119,636	0	119,636
	VAN DE WATER SLUDGE PLANT IS NEARING 40 YEARS OF SERVICE. EQUIPMENT. THE SLUDGE PRESS, FILTER PAK COMPRESSOR, AND PUMPS REQUIRE MAJOR UPGRADES. A STUDY IS TO EVALUATE NEW TECHNOLOGY FOR PROCESSING SLUDGE RESIDUALS PRODUCE FROM THE TREATMENT OF DRINKING WATER. Estimated Useful Life: 40 Years					
<b>TOTAL Van De Water Plant</b>		<b>756,506</b>	<b>232,000-</b>	<b>524,506</b>	<b>0</b>	<b>524,506</b>

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 1020 Control Operations</b>					
CAT.: EQUIP Equipment					
101371	71,200	0	71,200	0	71,200
REPLACE P1 & P2 AT EAST AUR N REPLACE GOULD MODEL 3405 (OBSOLETE) WITH GOULD MODEL 3410 PUMPS INCLUDING MOTOR AND BASEAT EAST AURORA PUMPING STATION: Estimated Useful Life: 20 Years					
101372	91,800	0	91,800	0	91,800
REPLACE CLARK STATION P2 & N REPLACE TWO PUMPS AND MOTORS AT CLARK PUMPING STATION: 4907 CLARK STREET, HAMBURG, NY 14075. EXISTING PUMP MODEL IR 8LR-14A Estimated Useful Life: 20 Years					
101373	98,000	0	98,000	0	98,000
CL2 SYS AT PIH.SCALES AT OT N INSTALL CHLORINE BOOSTER STATION AT PIPELINE HILL PUMPING S TATION. ADD DAY TANK SCALE AND WEIGHT INDICATOR FOR G ARTMAN AND WOHLHUETER CHLORINE ADDITION SYSTEMS. ADD SCALE A ND ULTRASONIC LIQUID LEVEL TRANSMITTER FOR TREVETT CHLORINE ADDITION SYSTEM. Estimated Useful Life: 20 Years					
101374	14,700	0	14,700	0	14,700
REPLACE TREVETT TANK RECIRC N REPLACE TREVETT TANK WATER RECIRCULATION SYSTEM LOCATED NEAR 10062 TREVETT ROAD CONCORD NY Estimated Useful Life: 20 Years					
101375	19,400	0	19,400	0	19,400
4IH SUBMERSIBLE TANK RECIRC N INSTALL SOLAR SUBMERSIBLE TANK RECIRCULTING PUMP WITH ELECTRICAL AND CONTROL AT PINE HILL TANK. Estimated Useful Life: 20 Years					
101376	59,000	0	59,000	0	59,000
TANK CIRCULATING SYS GART/ N INSTALL A RECIRCULATING PUMP WITH STARTER, SS PIPING, HEAT TRACE AND INSULATION AT GARTMAN AND EAST AURORA PUMPING STATIONS. Estimated Useful Life: 20 Years					
<b>TOTAL Control Operations</b>	<b>354,100</b>	<b>0</b>	<b>354,100</b>	<b>0</b>	<b>354,100</b>

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 1025 Instrumentation</b>					
CAT.: EQUIP Equipment					
101365	HHS PUMP 1, 2, &3 VFD UPGRA N	142,876	0	142,876	142,876
	EXISTING ALTIVAR 58 VFD'S ARE OBSOLETE & DESIGN DOES NOT MEET CURRENT ECWA VFD STANDARD DESIGN. UPGRADE EXISTING DRIVE CABINETS TO CURRENT DESIGN INCLUDING LATEST ALTIVAR 630 VFD'S. Estimated Useful Life: 10 Years				
101366	HHS AUTOMATIC TRANSFER SWIT N	120,078	0	120,078	120,078
	INSTALL AUTOMATIC TRANSFER SWITCH (ATS) TO CONNECT TO EXISTING 300KW PORTABLE GENERATOR TO ENABLE AUTOMATIC ELECTRIC POWER BACKUP. INSTALLATION WILL ALLOW FOR INSTALLATION OF FUTURE PERMANENT GENERATOR. Estimated Useful Life: 20 Years				
101367	AURORA PS GEN & AUTO XFER S N	48,062	0	48,062	48,062
	DUE TO THE LACK OF DOWNSTREAM STATIC WATER PRESSURE, UPON LOSS OF ELECTRIC POWER, CUSTOMERS SERVED BY THIS STATION IMMEDIATELY LOSE WATER PRESSURE. THIS SITUATION PERSISTS UNTIL ECWA PERSONNEL CAN GET ON LOCATION TO MANUALLY CONNECT A PORTABLE GENERATOR. PROPOSED INSTALLATION OF AN ATS AND GENERATOR WILL AUTOMATE THIS PROCESS AND KEEP CUSTOMERS IN SERVICE. Estimated Useful Life: 20 Years				
101368	ELLIS PS GEN & AUTO XFER SW N	40,719	0	40,719	40,719
	DUE TO THE LACK OF DOWNSTREAM STATIC WATER PRESSURE, UPON LOSS OF ELECTRIC POWER, CUSTOMERS SERVED BY THIS STATION IMMEDIATELY LOSE WATER PRESSURE. THIS SITUATION PERSISTS UNTIL ECWA PERSONNEL CAN GET ON LOCATION TO MANUALLY CONNECT A PORTABLE GENERATOR. PROPOSED INSTALLATION OF AN ATS AND GENERATOR WILL AUTOMATE THIS PROCESS AND KEEP CUSTOMERS IN SERVICE. Estimated Useful Life: 20 Years				
101369	STURGEON POINT - LIGHTING U N	54,686	0	54,686	54,686
	UPGRADE THE EXISTING LIGHTING TO LED Estimated Useful Life: 10 Years				
101370	VAN DE WATER-LIGHTING UPGRA N	49,345	0	49,345	49,345
	RAW WATER, HIGH BAY LIGHTING, FLOCCULATION LIGHTING UPGRADE TO LED. Estimated Useful Life: 10 Years				
<b>TOTAL Instrumentation</b>		<b>455,766</b>	<b>0</b>	<b>455,766</b>	<b>455,766</b>



Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 1030 Water Quality Assurance</b>					
CAT.: EQUIP Equipment					
101269	40,000	0	40,000	0	40,000
	WATER QUALITY MONITORING EQ I MULTIPARAMETER WATER QUALITY EQUIPMENT PANELS TO MONITOR AND OPTIMIZE SYSTEM CORROSION CONTROL THROUGH ENHANCED SCADA, REAL-TIME MONITORING AND DATA COLLECTION AT 12 PUMP STATIONS IN THE DISTRIBUTION SYSTEM.INCLUDES INSTALLATION COSTS. Estimated Useful Life: 10 Years				
<b>TOTAL Water Quality Assurance</b>	<b>40,000</b>	<b>0</b>	<b>40,000</b>	<b>0</b>	<b>40,000</b>

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Erie County Water Authority  
Preliminary and Annual Capital Budget - 2019  
Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 1090 Transportation &amp; Auto Equip</b>					
CAT.: VEHCL Autos & Trucks					
101384 VEHICLE 008 N	75,000	0	75,000	0	75,000
REPLACE 2012 CLASS IV MAINTENANCE TRUCK WITH SERVICE BODY USED BY PRODUCTION MAINTENANCE UNIT WITH SIMILAR VEHICLE Estimated Useful Life: 7 Years					
101385 VEHICLE 061 N	142,000	0	142,000	0	142,000
REPLACE 2009 INTERNATIONAL LINE TRUCK USED BY LINE MAINTENANCE W/ SIMILAR VEHICLE Estimated Useful Life: 10 Years					
101386 VEHICLE 063 N	32,000	0	32,000	0	32,000
REPLACE 2011 FORD E150 PASSENGER VAN USED BY VDW CREW WITH SIMILAR VEHICLE Estimated Useful Life: 7 Years					
101387 VEHICLE 068 N	70,000	0	70,000	0	70,000
REPLACE 2013 CLASS IV MAINTENANCE TRUCK W/ SERVICE BODY AND CRANE USED BY THE METER SHOP WITH SIMILAR VEHICLE Estimated Useful Life: 6 Years					
101388 VEHICLE 069 N	70,000	0	70,000	0	70,000
REPLACE 2013 CLASS IV MAINTENANCE TRUCK W/SERVICE BODY AND CRANE USED BY THE HYDRANTS AND VALVES UNIT WITH SIMILAR VEHICLE Estimated Useful Life: 6 Years					
101389 VEHICLE 702 N	32,000	0	32,000	0	32,000
REPLACE 2010 FELLING FT-30 TRAILER USED BY LINE MAINTENANCE WITH SIMILAR VEHICLE Estimated Useful Life: 8 Years					
101390 VEHICLE 711 N	15,000	0	15,000	0	15,000
REPLACE 2000 KAUFMAN UTILITY TRAILER USED BY PRODUCTION MAINTENANCE DEPARTMENT WITH SIMILAR VEHICLE Estimated Useful Life: 15 Years					
101391 VEHICLE 600 D	6,000	0	6,000	0	6,000
TRADE 2018 BOBCAT EXCAVATOR USED BY LINE MAINTENANCE FOR SIMILAR VEHICLE Estimated Useful Life: 15 Years					
101392 VEHICLE 903 D	4,500	0	4,500	0	4,500
TRADE 2018 BOBCAT TRACK LOADER USED BY PRODUCTION MAINTENANCE UNIT FOR SIMILAR VEHICLE Estimated Useful Life: 15 Years					
101393 VEHICLE 712 N	18,000	0	18,000	0	18,000
ADD TO FLEET A 16' ENCLOSED BOX TRAILER FOR USE IN THE PRODUCTION MAINTENANCE UNIT. THIS TRAILER WILL BE PREPARED WITH EQUIPMENT AND TOOLS NECESSARY TO RESPOND AND REACT QUICKLY TO ECWA EMERGENCIES. Estimated Useful Life: 10 Years					

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 1090 Transportation &amp; Auto Equip</b>						
101394 VEHICLE 803	N	65,000	0	65,000	0	65,000
ADD TO FLEET A FORK LIFT FOR USE IN THE SERVICE CENTER. STURGEON POINT CURRENTLY USES A 1994 FORK LIFT WHICH IS AT THE END OF ITS USEFUL SERVICE LIFE. WE WILL REPLACE THE HEAVILY USED UNIT AT THE SERVICE CENTER WITH A SIMILAR VEHICLE AND CASCADE THE SERVICE CENTER 2009 FORK LIFT UNIT FOR USE AT STURGEON POINT. Estimated Useful Life: 15 Years						
<b>TOTAL Transportation &amp; Auto Equip</b>		<b>529,500</b>	<b>0</b>	<b>529,500</b>	<b>0</b>	<b>529,500</b>

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Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 2020 UFPO</b>					
CAT.: ADMIN Admin Infrastructure					
101404 TRIMBLE LEAK DETECTION PILO D	60,000	0	60,000	0	60,000
LEAK DETECTION PILOT PROGRAM WHICH INCLUDES REMOTE EVENT MONITORING UNITS, CELLULAR DATA TRANSMITTERS, ANALYTICS SOFTWARE AND GIS DATA INTEGRATION. 30-DAY TRIAL COSTS \$8000 AND INCLUDES ALL HARDWARE AND SOFTWARE SETUP. FEE WILL BE CREDITED TOWARDS PACKAGE PURCHASE IF PROGRAM IS SUCCESSFUL. Estimated Useful Life: 5 Years					
TOTAL UFPO	60,000	0	60,000	0	60,000

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Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 2090 Distribution Mains</b>						
CAT.: HYDS Hydrants						
100583	FIRE HYDRANTS N	280,000	0	280,000	0	280,000
	NEW AND REPLACEMENT FIRE HYDRANTS					
	Estimated Useful Life: 50 Years					
CAT.: MAINS Water Mains						
100585	VALVES AND APPURTENANCES N	150,000	0	150,000	0	150,000
	VALVES AND APPURTENANCES AND UNANTICIPATED REPLACEMENTS DUE TO BREAKAGE					
	Estimated Useful Life: 50 Years					
100586	MISC DISTRIBUTION MAINS N	1,000,000	0	1,000,000	0	1,000,000
	MISC DISTRIBUTION MAINS					
	Estimated Useful Life: 75 Years					
CAT.: SVCS Services						
100584	SERVICES N	170,000	0	170,000	0	170,000
	SERVICE PIPES AND SERVICE INSTALLATIONS IN ECWA					
	Estimated Useful Life: 50 Years					
<b>TOTAL Distribution Mains</b>		<b>1,600,000</b>	<b>0</b>	<b>1,600,000</b>	<b>0</b>	<b>1,600,000</b>

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Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 2510 Eng/Const Sturgeon Point</b>						
CAT.: EQUIP Equipment						
101015	CONTRACT NC-34 I	290,000	0	290,000	0	290,000
	STURGEON POINT TREATMENT PLANT RAW WATER SCREENS RAW WATER PUMP DISCHARGE PIPING, VALVES, AND SLUICE GATES BUILDING IMPROVEMENTS Estimated Useful Life: 50 Years					
101122	CONTRACT OBG-12A I	410,000	120,000-	290,000	0	290,000
	FILTER VALVES, PIPING, FLOURIDE TANKS AND POTASSIUM PERMANGANATE TANKS Estimated Useful Life: 50 Years					
101429	PLC UPGRADES/REPLACEMENTS D	0	653,000	653,000	0	653,000
	PLC HARDWARE INSTALLED IN 1995 IS OBSOLETE AND HAS NO TECHNICAL SUPPORT. PLC UPGRADING ALLOWS FOR IMPROVED NETWORKING WITH SCADA Estimated Useful Life: 10 Years					
101430	CONTRACT OBG-12C I	0	120,000	120,000	0	120,000
	FILTER GALLERY Estimated Useful Life: 50 Years					
<b>TOTAL Eng/Const Sturgeon Point</b>		<b>700,000</b>	<b>653,000</b>	<b>1,353,000</b>	<b>0</b>	<b>1,353,000</b>

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 2520 Eng/Const Control</b>						
CAT.: EQUIP Equipment						
101268	NC-35	6,180,000	1,300,000-	4,880,000	0	4,880,000
ELECTRICAL SUBSTATION I DESIGN AND COSNTRUCTION OF NEW ELECTRICAL SUBSTATION FOR BALL PUMP STATION, TOWN OF AMHERST. Estimated Useful Life: 50 Years						
101358	GHD-007	370,000	0	370,000	0	370,000
GUENTHER REHAB I DESIGN Estimated Useful Life: 50 Years						
CAT.: STRCT Buildings&Structures						
101357	W31	130,000	0	130,000	0	130,000
- BALL NORTH STORAGE TA I REPLACEMENT OF BALL NORTH STORAGE TANK Estimated Useful Life: 50 Years						
101359	MP-80	100,000	0	100,000	0	100,000
BALL PUMP STATION STU I Estimated Useful Life: 50 Years						
101175	CH-08	0	0	0	139,625	139,625
VILLAGE OF HAMBURG TA I DESIGN OF NEW ELEVATED STORAGE TANK IN THE VILLAGE OF HAMBURG TO REPLACE LONG ST TANK AND JANICE PL TANK COOPERATIVE PROJECT WITH THE VILLAGE Estimated Useful Life: 75 Years						
101426		250,000	0	250,000	0	250,000
INFRASTRUCTURE STUDY N LARGE SCALE STUDY OF ECWA INFRASTRUCTURE Estimated Useful Life: 50 Years						
<b>TOTAL Eng/Const Control</b>		<b>7,030,000</b>	<b>1,300,000-</b>	<b>5,730,000</b>	<b>139,625</b>	<b>5,869,625</b>

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 2590 Eng/Const Distribution Mains</b>						
CAT.: MAINS Water Mains						
101188	BETTERMENTS PAVEMENT RD, LNTN BURMON DR, OPTN Estimated Useful Life: 75 Years	N	860,000	140,000	1,000,000	0 1,000,000
101348	GP-007 WATERLINE REPLACEMENT I WATERLINE REPLACEMENT - DPVL,WSTN Estimated Useful Life: 75 Years		2,770,000	0	2,770,000	0 2,770,000
101349	CPL-004 WATERLINE REPLACEMENT I WATERLINE REPLACEMENT - CLTN Estimated Useful Life: 75 Years		2,890,000	0	2,890,000	0 2,890,000
101350	WSA-013 VALVE REPLACEMENT I LARGE DIAMETER VALVE REPLACEMENT IN VARIOUS MUNICIPALITIES Estimated Useful Life: 75 Years		2,260,000	0	2,260,000	0 2,260,000
101409	WATERLINE REPLACEMENT PROJE N Estimated Useful Life: 75 Years		100,000	0	100,000	0 100,000
101410	WATERLINE REPLACEMENT PROJE N Estimated Useful Life: 75 Years		100,000	0	100,000	0 100,000
101411	WATERLINE REPLACEMENT PROJE N Estimated Useful Life: 75 Years		100,000	0	100,000	0 100,000
101412	WATERLINE REPLACEMENT PROJE N Estimated Useful Life: 75 Years		100,000	0	100,000	0 100,000
<b>TOTAL Eng/Const Distribution Mains</b>			<b>9,180,000</b>	<b>140,000</b>	<b>9,320,000</b>	<b>0 9,320,000</b>



Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 2595 Eng/Const Transmission Mains</b>					
CAT.: MAINS Water Mains					
101267 W-027 TRANSMISSION MAIN REP I 36 IN TRANSMISSION MAIN REPLACEMENT - AMTN Estimated Useful Life: 75 Years	4,370,000	0	4,370,000	0	4,370,000
101351 CH-010 TRANSMISSION MAIN REP I 24 IN TRANSMISSION MAIN REPLACEMENT - CHTN Estimated Useful Life: 75 Years	4,390,000	0	4,390,000	0	4,390,000
101352 NC-38 TRANSMISSION MAIN REP N 48 IN TRANSMISSION MAIN REPLACEMENT - AMTN Estimated Useful Life: 75 Years	300,000	0	300,000	0	300,000
101362 W-30 TRANSMISSION MAIN REPL N 36 IN TRANSMISSION MAIN REPLACEMENT - AMTN Estimated Useful Life: 75 Years	120,000	5,880,000	6,000,000	0	6,000,000
101413 RTE 5 TRANSMISSION MAIN REP N RTE 5 TRANSMISSION MAIN REPLACEMENT BETWEEN RT 179 AND LAKE AVE/NYSDOT MILL AND OVERLAY Estimated Useful Life: 75 Years	100,000	0	100,000	0	100,000
101414 TRANSMISSION MAIN REPLACEMENT Estimated Useful Life: 75 Years	100,000	0	100,000	0	100,000
<b>TOTAL Eng/Const Transmission Mains</b>	<b>9,380,000</b>	<b>5,880,000</b>	<b>15,260,000</b>	<b>0</b>	<b>15,260,000</b>

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 3070 Facilities</b>					
CAT.: STRCT Buildings&Structures					
101334	DESIGN OF SERVICE CENTER RE N TO FUND AN ENGINEERING/ARCHITECTURAL FIRM TO DESIGN THE IMPROVEMENTS TO THE OFFICE PORTION OF THE SERVICE CENTER Estimated Useful Life: 30 Years	262,500	0	262,500	262,500
101336	ADDITION TO BUILDING SEVEN N TO CONSTRUCT AN ADDITION TO BUILDING SEVEN (STONE SHED) TO ACCOMMODATE THE STORAGE OF SALT AND COLD PATCH. Estimated Useful Life: 30 Years	225,000	0	225,000	225,000
101395	BOILER REPLACEMENT N TO REPLACE FIVE MID 1980'S BOILERS WITH NEW HIGH EFFICEINCY BOILERS AT SERVICE CENTER. Estimated Useful Life: 30 Years	150,000	0	150,000	150,000
101396	REPLACE HEAT PUMP CONTROL S N TO REPLACE THE JOHNSON AND MCQUAY HEAT TEMPERATURE CONTROL SYSTEMS. THE CURRENT EQUIPMENT IS NEAR THE END OF ITS USEFUL LIFE, PERFORMING ERRATICALLY, AND DIFFICULT TO PROCURE REPLACEMENT PARTS Estimated Useful Life: 20 Years	200,000	0	200,000	200,000
101397	SIDEWALK EXTENSION D TO EXTEND THE SIDEWALK THAT ENTERS THE SERVICE CENTER FROM UNION ROAD TO THE ENTRANCE OF THE BIKE PATH AT THE NORTH EAST CORNER OF THE SERVICE CENTER PROERTY. CURRENTLY WE HAVE PEDESTRIANS AND BIKERS ACCESSING THE BIKE PATH THROUGH THE SERVICE CENTER PARKING AREA CREATING AN UNINTENDED HAZZARD. A SIDEWALK EXTENSION BEHIND THE GUARD RAIL WILL IMPROVE SAFETY. Estimated Useful Life: 20 Years	20,000	0	20,000	20,000
<b>TOTAL Facilities</b>		<b>857,500</b>	<b>0</b>	<b>857,500</b>	<b>857,500</b>

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 4040 Meter Shop</b>						
CAT.: METER Meters						
101011	METER REPLACEMENT LABOR N	417,655	343-	417,312	0	417,312
	ALL LABOR/VEHICLE EXPENSE FOR REPLACING/INSTALLING METERS					
	Estimated Useful Life: 20 Years					
101060	METER REPLACEMENTS N	1,900,000	0	1,900,000	0	1,900,000
	METER PURCHASES TO REPLACE 5/8" THRU 10" METERS AND					
	REGISTERS					
	Estimated Useful Life: 20 Years					
<b>TOTAL Meter Shop</b>		<b>2,317,655</b>	<b>343-</b>	<b>2,317,312</b>	<b>0</b>	<b>2,317,312</b>

PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 8525 Information Technology</b>					
CAT.: ADMIN Admin Infrastructure					
101062	PURCHASE OF SYSTEM SOFTWARE N	50,000	0	50,000	50,000
	NEW SERVER BASED SYSTEM SOFTWARE ON IBM POWERSYSTEMS AND/OR MICROSOFT SERVER PLATFORMS THAT WILL BE DEPLOYED AUTHORITY-WIDE TO IMPROVE SECURITY, PRODUCTIVITY, EFFICIENCY AND SUPPORT ECWA OPERATIONS. Estimated Useful Life: 5 Years				
101063	NETWORK TECHNOLOGY HARDWARE N	50,000	0	50,000	50,000
	NEW TECHNOLOGY EQUIPMENT TO UPGRADE SC, ES, STP, AND VDW LOCAL AREA NETWORKS. Estimated Useful Life: 5 Years				
101416	TELEPHONE SYSTEM REPLACEMEN N	413,600	48,391	461,991	461,991
	REPLACE TELEPHONE SYSTEM HARDWARE AND SOFTWARE CONNECTING 4 LOCATIONS. EXISTING SYSTEM INSTALLED IN 2014. CALL RECORDING, CALL ACCOUNTING, CALL CENTER MANAGEMENT, VOICE MAIL AND BACKUP SERVERS WILL BE REPLACE. Estimated Useful Life: 5 Years				
101417	VIDEO SECURITY SYSTEM REPLA N	220,260	0	220,260	220,260
	REPLACE EXISTING VIDEO SECURITY SYSTEM WITH STATE OF THE ART HARDWARE. Estimated Useful Life: 5 Years				
101418	CIS/ERP N	500,000	0	500,000	500,000
	REPLACE CURRENT CIS/ERP SYSTEMS WITH OFF THE SHELF PACKAGES. Estimated Useful Life: 10 Years				
101419	FILE RETRIEVAL SOFTWARE N	87,945	0	87,945	87,945
	REPLACE EXISTING FILE RETRIEVAL SYSTEM WITH LEGAL FILES, AN OFF THE SHELF SOFTWARE PACKAGE. Estimated Useful Life: 10 Years				
101421	VISITOR MANAGEMENT SYSTEM N	34,600	0	34,600	34,600
	HARDWARE AND SOFTWARE USED TO TRACK INDIVIDUALS VISITING VARIOUS ECWA LOCATIONS. Estimated Useful Life: 5 Years				
101425	WEB DESIGN AND DEVELOPMENT N	45,000	0	45,000	45,000
	WEBSITE DESIGN AND DEVELOPMENT Estimated Useful Life: 5 Years				
101427	AUTOMATION CHANGE MNGMT SOF N	50,000	0	50,000	50,000
	MDT AUTOMATION CHANGE MANAGEMENT SOFTWARE TO TRACK PLC CODE UPDATES IN THE PRODUCTION SCADA SYSTEM. INCLUDES SOFTWARE, DEVELOPMENT AND TRAINING Estimated Useful Life: 5 Years				

Erie County Water Authority  
 Preliminary and Annual Capital Budget - 2019  
 Schedule of Appropriations

	PRI CD	2019 BUDGET REQUEST	INCREASE OR DECREASE	2019 PRELIM BUDGET	INCREASE OR DECREASE	2019 ANNUAL BUDGET
<b>Unit: 8525 Information Technology</b>						
CAT.: EQUIP Equipment						
101420		100,781	0	100,781	0	100,781
		PROPERTY SURVEILLANCE ENHAN N ADDITIONAL OUTDOOR CAMERAS ALL ECWA LOCATIONS. Estimated Useful Life: 5 Years				
101422		255,297	588,370	843,667	0	843,667
		PLANT AUTOMATION SCADA UPGR N REPLACE EXISTING PHOENIX CONTACT SWITCHES WITH CISCO MANAGED SWITCHES. REPLACEMENT OF OUTDATE PLC'S, PANEL RECONFIGURATION, ESTABLISHING UNIQUE IP'S AND IFIX PROGRAM MODIFICATIONS. Estimated Useful Life: 7 Years				
101423		34,000	0	34,000	0	34,000
		VEHICLE CONNECTIVITY PILOT N PILOT PROGRAM TO EQUIP 10 TRUCKS WITH VERIZON CONNECTED ROUTERS TO ENSURE CONNECTIVITY TO ECWA'S SOFTWARE SYSTEMS. Estimated Useful Life: 5 Years				
101424		143,400	0	143,400	0	143,400
		BOARD MEETING AUDIO VIDEO P N CAMERAS AND AUDIO EQUIPMENT TO RECORD AND SIMULCAST BOARD AND COMMITTEE MEETINGS. Estimated Useful Life: 5 Years				
<b>TOTAL Information Technology</b>		<b>1,984,883</b>	<b>636,761</b>	<b>2,621,644</b>	<b>0</b>	<b>2,621,644</b>
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<b>GRAND TOTAL</b>		<b>36,207,310</b>	<b>5,191,018</b>	<b>41,398,328</b>	<b>188,025</b>	<b>41,586,353</b>
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Erie County Water Authority  
 Preliminary and Annual Capital Budget - Year 2019  
 Summary of Appropriations by Category

Category	Description	Unit	2019 Budget Request	Increase or Decrease	2019 Prelim Budget	Increase or Decrease	2019 Annual Budget
ADMIN	Admin Infrastructure						
		2020	60,000		60,000		60,000
		8525	1,451,405	48,391	1,499,796		1,499,796
		Sub Total:	1,511,405	48,391	1,559,796		1,559,796
EQUIP	Equipment						
		1010	858,000	483,000-	375,000		375,000
		1015	636,870	232,000-	404,870		404,870
		1020	354,100		354,100		354,100
		1025	455,766		455,766		455,766
		1030	40,000		40,000		40,000
		2510	700,000	653,000	1,353,000		1,353,000
		2520	6,550,000	1,300,000-	5,250,000		5,250,000
		8525	533,478	588,370	1,121,848		1,121,848
		Sub Total:	10,128,214	773,630-	9,354,584		9,354,584
HYDS	Hydrants						
		2090	280,000		280,000		280,000
		Sub Total:	280,000		280,000		280,000
LAND	Land						
		1010	48,400	48,400-		48,400	48,400
		Sub Total:	48,400	48,400-		48,400	48,400
MAINS	Water Mains						
		2090	1,150,000		1,150,000		1,150,000
		2590	9,180,000	140,000	9,320,000		9,320,000
		2595	9,380,000	5,880,000	15,260,000		15,260,000
		Sub Total:	19,710,000	6,020,000	25,730,000		25,730,000
METER	Meters						
		4040	2,317,655	343-	2,317,312		2,317,312
		Sub Total:	2,317,655	343-	2,317,312		2,317,312
STRCT	Buildings&Structures						
		1010	55,000	55,000-			
		1015	119,636		119,636		119,636
		2520	480,000		480,000	139,625	619,625
		3070	857,500		857,500		857,500

Erie County Water Authority  
 Preliminary and Annual Capital Budget - Year 2019  
 Summary of Appropriations by Category

Category	Description	Unit	2019 Budget Request	Increase or Decrease	2019 Prelim Budget	Increase or Decrease	2019 Annual Budget
		Sub Total:	1,512,136	55,000-	1,457,136	139,625	1,596,761
SVCS	Services	2090	170,000		170,000		170,000
		Sub Total:	170,000		170,000		170,000
VEHCL	Autos & Trucks	1090	529,500		529,500		529,500
		Sub Total:	529,500		529,500		529,500
		Grand Total:	36,207,310	5,191,018	41,398,328	188,025	41,586,353