			Estimate Info	,				PR	OJECT	RATING	3			FORECASTED EXPENDITURES						
		Lengt						LOCATION	ture	blic Env	ē	ss	otal							
ITEM	PROJECT NAME	h	Orig Project	2.0% Est	Cost Inflation	PROJECT DESCRIPTION	PROJECT JUSTIFICATION		astruc	Reg / Public Health / Env	Custom	Business	ating Tot	2018	2019	2020	2021	2022		
		Feet	Estimate	Date	Adj			L = LaSalle, N = North of 62, S = South of 62, A = All	Infr		_	important)	ď					2022	Deferred	
COME	SINED PROJECTS	(WATE	ER AND W	ASTE	WATER)					runge i o	(0 10 111 01	importanty						l l		
	IT Plan				ĺ	Develop &	Efficiencies and	_	_		_			<b></b>						
C-1	Implementation		1,000,000	2005	1,000,000	implement IT solution	cost savings	A	4	3	4	6	17	\$150,000	\$30,000	\$30,000	\$30,000	\$30,000	\$25,000	
	Meter Replacement &					Replace inaccurate	To insure meter													
	Upgrades		\$4,500,000		4.000.000	& old meters	accuracy and automated reading	A	6	1	5	6	18	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	
	Rate Restructuring			2005	4,970,000	Evaluate rates and	Better cost													
	60/40		150,000	2005	150,000	cost allocation	allocation & rate stability	Α	2	1	6	6	15							
			130,000	2003	130,000		Replace aging and	_												
C-5	Fleet Replacement		700,000	2005	840,000	Replenish fleet	unsafe vehicle stock	A	6	2	3	4	15	\$480,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	
0.6	Water/sewer GIS/GPS				,	Document system	Better asset		•	_	,		47	¢75.000	<b>¢</b> E 000	<b>¢</b> E 000	¢E 000	<b>¢</b> E 000	¢25.000	
	Mapping		\$266,653	2005	270,000	assets	management with CMMS	A	6	2	3	6	17	\$75,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000	
	EWATER INFRAS	TRUC	TURE PRO	JECT	S															
	WWTP Rehab Phase 4A - Sed. Basins &													<i>\$550,00+0</i> \$1,100,000	\$1,500,000 \$3,000,000	\$1,500,000 \$3,000,000	\$1,650.000 <b>\$3,300,000</b>		\$0	
	Scum							A	5	4	3	4	16	\$550.000	\$1,500,000	\$1,500,000			Ψ0	
	WWTP Rehab Phase													\$500,000	\$1,500,000		, , , , , , , , , , , , , , , , , , , ,			
	4B - GPS Rehabilitation							_	_					\$1,000,000	\$3,000,000	\$200,000			\$0	
								Α	5	4	3	4	16	\$500,000 \$900,000	\$1,500,000					
	WWTP Rehab Phase 4C - Polymer &													\$1,800,000	\$320,000				\$0	
	Dewatering Controls							Α	5	4	3	4	16	\$900,000						
	WWTP Rehab Phase														\$1.000.000				•-	
	4D - Carbon & Support Gravel							A	5	4	3	4	16		\$2,000,000 \$1,000,000				\$0	
	WWTP Rehab Phase							^	<u> </u>	-	3	-	10		\$625,000					
WW-4E	4E - Electrical														\$1,610,000	\$1,000,000			\$0	
	Improvements							A	5	4	3	4	16		\$625,000					
	WWTP Rehab Phase 4F - Chemical														\$1,800,000 \$3,650,000				\$0	
	Improvements							A	5	4	3	4	16		\$1,800,000				ΨΟ	
	WWTP Rehab Phase														\$562,500	_				
	4G - HVAC														\$1,160,000	.			\$0	
	Improvements							A	5	4	3	4	16	\$170,000	\$562,500					
	WWTP Rehab Phase 4H - Backwash Blower													\$300,000					\$0	
	& Piping							Α	5	4	3	4	16	\$170,000						
	WWTP Rehab Phase														\$275,000				60	
	4I - Piping Improvements							Α	5	4	3	4	16		\$640,000 <i>\$275,000</i>				\$0	
WW-4J	-								J		,		10		<i>\$275,000</i>				\$8,000,000	
	2017 Discharge													\$500,000	04 000 504					
	Incident/Order Expenses								_				4.0	\$2,000,000	\$1,389,500					
						Replace & repair	Necessary for	A	5	4	3	4	16	\$1,500,000						
WW-7	WWTP Roof Repairs					large sections of the	facility protection	A	5	3	3	4	15		\$150,000	\$1,350,000	\$150,000	\$150,000		
ww-7	wwip Koot Repairs					large sections of the WWTP roofs	facility protection and longevity	A	5	3	3	4	15		\$150,000	\$1,350,000	\$150,000	\$150,000		

						Repairs /			ı	1	I	I							
	WWTP/GPS Miscellaneous					replacements not associated with Phased Projects	Necessary for continued operation	А	4	4	3	4	15	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000	\$200,000
VVVV-96.	WWTP Sedimentation Basins					Replace mechanical components, concrete repairs	Necessary for continued operation	Α	6	5	3	4	18						
	WWTP UV Disinfection Study					Evaluate changing disinfection process	Operational cost reduction	А	5	5	3	6	19						
VVVV-91)	WWTP Flood Damage Recovery					Repair/replace flood damaged equipment	Necessary for continued operation	Α	6	6	3	5	20						
WW-9E	WWTP Structural/Masonry Repairs					Repair aging and failing structural components	Restore structural integrity	Α	5	4	3	3	15			\$80,000	\$374,000	\$100,000	
WW-9F	Flood Hazard Mitigation Grant Projects					Harden utility infrastructure against extreme weather	Prevent rainfall- related impacts and damage	Α	5	4	4	4	17	\$156,053 \$208,070 \$52,017	\$2,277,225 \$3,036,290 \$759,065				
WW-9H	WWTP Mercury Reduction Project - SB#5 Effluent Flow Improvements					Treatment plant improvements	Regulatory requirement	A	3	6	4	2	15	<i>402,017</i>	<i>4.00,000</i>				
	Sanitary Lift Station Electrical Upgrades		300,000	2005	300,000	Provide standby power generation to lift stations	Improve reliability	L	5	4	5	5	19	\$280,000 \$370,000 <i>\$90,000</i>					
WW-12B	WWTP Standby Generator					Replace and upgrade WWTP power generator	Improve reliability	Α	5	4	5	5	19	\$300.000 <b>\$400,000</b> <i>\$100,000</i>					
WW-15	Sewer Replacements & Repairs		3,250,000	2005	3,250,000	Replace / repair sewer lines, MH's, CB's	Lifecycle asset reinvestment	Α	6	5	3	3	17	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$500,000
	Belden Center Sewer Rehabilitation Work					Lining of Lockport Road Sanitary Sewer	Coordination withTown of Niagara project	N						\$25,000					
	LaSalle Area Sewer Improvements (SSO)		1,000,000	2005	1,000,000	Sewer repairs to mitigate SSO's	DEC mandated regulatory requirement	L	4	6	5	4	19	\$200,000	\$170,000	\$590,000	\$355,000	\$500,000	\$4,000,000
WW-18	Combined Sewer Overflow Long Term Control Plan (CSO LTCP) Implementation		4,000,000	2005	4,160,000	Implement sewer improvements to mitigate CSO's	DEC mandated regulatory requirement	N/S	5	6	3	3	17	\$10,000					
	CSO Outfall Structural Repairs					Repairs to CSO outfalls on lower river	Restore structural integrity	N/S	4	3	2	2	11			\$300,000	\$2,500,000		\$4,000,000
WW-21	Tunnel Inspection					Inspect large diameter conveyance systems	Plan repairs prior to failures	s	3	3	2	3	11	\$70,000 \$233,000 \$163,000					\$350,000
VVV-23	Gorge Pumping Station Headworks		350,000	2005	350,000	Repair and protect GPS equipment	Necessary for facility protection and longevity	N/S	5	6	2	4	17	,					
WATE	R INFRASTRUCTU	KE PF	KOJECTS														T	T	
	Ontario Ave - 13th to 18th Street		\$250,969	2005	260,000		Very low flow 4" & breaks & service leaks, hydrant spacing issues	N	6	6	4	5	21	\$400,000					\$0

						Ī								,					
W-4	Military Road Main, between Jacob and Cayuga		\$182,070	2005	180,000	Replace water mains and install	Frequent breaks on 4 inch line	L	6	5	4	5	20		\$210,000				\$0
W E	97th Street - 98th to NF Blvd			2003	100,000	new services	Frequent breaks	L	6	3	6	5	20						
W-6	Bollier Avenue Main, between 82nd and Military	900	\$210,000	2001	250,000		Victory pipe, Frequent breaks	L	6	3	5	4	18	\$250,000 \$650,000 \$400,000					
VV-/	Buffalo Avenue Water Valves	28,600	\$1,250,000	2004	1,330,000	Replace damaged valves : Combined with WW-16	Road reconstruction opportunity	L/S	6	4	3	4	17						
W-8	Hennepin Ave Main,- S. 86th to S.89th Street	•	\$505,000		540,000		Dangerous excavation	L	6	6	3	4	19						\$510,000
W-9	Rivershore Drive Main, - S.86th to 91st Street	1,700	\$220,000	1994	300,000		Frequent breaks, poor excavation conditions	L	6	5	3	4	18						\$280,000
W-10	10th St., Lockport to North	-					6 inch pipe with breaks, fire flow	N	6	5	3	2	16	\$600,000					\$0
	Witkop Ave and 85th St Loop all 8"	2,100	\$575,000	2001	670,000		Victory pipe frequent breaks	L	6	2	4	4	16			\$670,000			
VV-12	Laughlin Drive Main, - 82nd to Bollier Ave	1,800	\$380,000	1994	510,000		Victory pipe frequent breaks	L	6	2	4	4	16			\$500,000			
	Willow Ave Main, 11th to 17th St - 8"	2,000	\$410,000	2001	490,000		6 inch pipe with breaks	N	6	2	4	3	15						\$460,000
W-14	Whitney Avenue, 18th Street to Hyde Park Blvd					Replace water mains and install	Main breaks, service breaks	N	5	4	4	2	15		\$850,000				\$0
W-15	LaSalle Avenue, Hyde Park Blvd to 11th Street					new services	Main breaks, service breaks	N	5	3	4	2	14						\$1,600,000
VV-16	Ontario Ave - 13th to Main Street						Main & service breaks, fire flow	N	5	5	3	2	15			\$500,000			
W-17	Military Road Main, Jacob to Bollier Avenue						6 inch pipe with breaks	L	4	4	4	2	14			\$150,000			
W-18	Pierce Ave Main, - 18th to Hyde Park with 8"		\$501,939	2005	530,000		Many service breaks (not main)	N	5	2	3	3	13						\$750,000
W-18A	Buffalo Avenue Point to City Docks						6 inch pipe with breaks	L	4	4	4	2	14	\$450,000					\$0
	Pierce Ave Main, 11th to 18th Street 8"	4,400	\$875,000	2001	1,050,000		Many service breaks (not main)	N	5	2	3	3	13						\$570,000
W-20	Loop Niagara Avenue Main, to Parkview Dr	1,300	\$80,000	1994	110,000	Install & loop with new main	Eliminate dead end and blow-off	N	3	3	3	4	13						\$110,000
	Whitney Avenue, 11th Street to 18th Street					Replace water mains and install new services	Main breaks, service breaks	N	4	4	3	2	13				\$650,000		
W-22	Loop "D" St Main, - Falls St to Gill Creek	400	\$50,000	1994	70,000	Install & loop with new main	Eliminate dead end and blow-off	s	4	2	2	2	10						\$70,000
W-23	81st Street, Frontier Avenue to Pine Avenue						Service leaks	L	3	3	3	1	10						\$850,000
W-24	McKoon Ave Main, - DeVeaux to James Avenue	2,200	\$500,000	1994	690,000	Replace water mains and install new services	Occasional breaks	N	3	2	2	2	9				\$670,000		
	Welch Ave Main,, 19th to 24th Street 16"	1,500	\$510,000	2001	610,000		Main breaks, service breaks	s	2	2	2	2	8						\$600,000
VV-20	Automation & Security Upgrades at WTP		\$500,000	2005	530,000	Automate WTP operations and perform necessary	Maintain facility security	A		5	3	5	13						\$500,000
	Large Valve Replacement		\$572,435	2005	600,000	Replace valves >12"	System reliability	A	6	2	5	4	17	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$100,000

W-29	Leak Detection / Distribution Modeling		\$200,000	2005	220,000	Identify and control system losses	Resolve water quality & pressure issues; better asset	Α	4	2	5	6	17						\$200,000
W-30	Hydrant Replacement		\$314,147	2005	310,000	Replace old and inoperable	Fire protection reliability	Α	5	4	4	3	16	\$191,950	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
W-31	Water Miscellaneous Improvements		\$1,200,000	2005	1,200,000	Water system repairs	Maintain infrastructure	Α	5	3	3	3	14	\$191,950	\$120,000	\$120,000	\$120,000	\$120,000	\$100,000
W-32	WTP Vent Line Replacement					Replace corroding process vent piping	Maintain treatment plant integrity	Α	4	2	2	3	11	\$53,000					\$100,000
W-33	Abandon 20" Victory Pipe WM					Abandon unnecessary and failing watermain	Victory pipe, potential for breaks	L	5	2	5	5	17	\$170,000					\$0
W-34	WTP Laboratory Instrumentation					New instruments for sample analysis	Regulation-driven water testing	Α	3	5	2	5	15						\$0
W-35	Beech Avenue Tank Replacement					Replace existing water storage tank	Distribution system operation & reliability	N	5	3	2	4	14		\$3,000,000	\$3,000,000			\$0
W-36	W-36 77th Street from Lasalle Parkway to Niagara Falls Boulevard					Replace water mains and install new services											\$875,000		\$0
W-37	W-37 Michigan Avenue from Lockport Street to 10th Street					Replace water mains and install new services											\$150,000		<b>\$0</b>
					'						Total			\$11,587,970	\$25,030,790	\$12,185,000	\$9,869,000		\$24,130,000

\$4,085,017 \$10,246,565 \$4,615,000 \$3,374,000 \$1,595,000

Fund Sources		2018	2019	2020	2021	2022	Sum 2017 > 2021
Annual Coverage Transfer		\$4,100,000	\$12,752,617	\$2,984,065	\$3,165,000	\$1,574,000	\$24,575,682
Coverage Set-Aside							\$0
NYPA-FST Settlement		\$1,946,900	\$0	\$0	\$0		\$1,946,900
Bonded		\$0	\$3,000,000	\$6,020,000	\$3,995,000		\$13,015,000
Grants		\$976,053	\$2,277,225	\$0	\$0		\$3,253,278
Phase 1 NYS WWTP Funding		\$2,120,000	\$7,262,500	\$3,150,000			\$8,000,000
Interfund Transfer		\$1,500,000	\$1,389,500	\$0	\$0		\$2,889,500
NYSEFC SRF Loan		\$0	\$0	\$0	\$2,500,000		\$2,500,000
То	tals :	\$10,642,953	\$26,681,842	\$12,154,065	\$9,660,000		\$59,138,860