

CSO
SSO

-  Asset Management
-  Consent Decree
-  Capacity Pinch Point
-  Community Needs
-  Exhibit C

						Prior FYS (Actual + Projections)	FY20 Total	FY21	FY22	FY23	FY24	FY2025-2040 (2018 #'s)		Total
Asset Management		C000	Acquired Sanitary Sewer A	Program	C000	Subdivisions - Acquired Sanitary Sewer Assets Program	\$ -	\$ 300,000	\$ 316,000	\$ 324,000	\$ 332,000	\$ 341,000	\$ 4,850,000	\$ 6,463,000
		C401	Treatment Plants	Program	C401	Treatment Plant Asset Management & Emergencies Program	\$ -	\$ 531,000	\$ 500,000	\$ 459,000	\$ 470,000	\$ 2,898,000	\$ 62,000,000	\$ 66,858,000
				Project	C401-ENG-001	Dry Creek Treatment Plant Bridge Rehabilitation	\$ 15,611	\$ 100,000	\$ 310,000	\$ -	\$ -	\$ -	\$ -	\$ 425,611
					C401-ENG-002	Dry Creek WWTP MCC Replacements	\$ -	\$ -	\$ 100,000	\$ 308,800	\$ 613,200	\$ -	\$ -	\$ 1,022,000
					C401-ENG-004	Dry Creek WWTP Wall and Roof Modifications	\$ -	\$ -	\$ 158,000	\$ 669,000	\$ 687,000	\$ -	\$ -	\$ 1,514,000
					C401-ENG-005	Dry Creek WWTP Aeration Blower Replacement Project #2 - Single Stage Oil Bea	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,445,000	\$ 3,445,000
					C401-ENG-006	Dry Creek WWTP Aeration Blower Replacement Project #3 - Multistage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,445,000	\$ 3,445,000
					C401-ENG-007	Dry Creek WWTP Aeration Blower Replacement Project #4 - Multistage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,445,000	\$ 3,445,000
					W18-001	Dry Creek WWTP Aeration Blower Replacement Project #1 - 3 Single Stage Magi	\$ 706,023	\$ 2,721,581	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,427,605
					C401-ENG-008	Dry Creek Primary Tank Improvements	\$ 250,000	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,150,000
					C401-ENG-009	Aeration Diffuser Replacement	\$ -	\$ 25,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ 925,000
		C414	Pump Stations	Program	C414	Pump Stations - Asset Management & Emergencies Program	\$ -	\$ 446,267	\$ 484,000	\$ 405,000	\$ 449,000	\$ 2,273,000	\$ 37,000,000	\$ 41,057,267
				Project	C414-ENG-001	Pump Operations Maintenance Building	\$ -	\$ -	\$ 17,960	\$ 291,500	\$ -	\$ -	\$ -	\$ 309,460
					C414-ENG-002	Bromley PS Electrical Improvements	\$ -	\$ 100,000	\$ 464,655	\$ 1,238,393	\$ -	\$ -	\$ -	\$ 1,803,048
					C414-ENG-003	Bromley PS Transformer Improvements	\$ -	\$ 50,000	\$ 60,896	\$ 166,343	\$ -	\$ -	\$ -	\$ 277,239
					C414-ENG-004	Bromley Pump Station Mechanical Repairs	\$ -	\$ 50,000	\$ 140,100	\$ 570,301	\$ 1,140,602	\$ -	\$ -	\$ 1,901,003
					C414-ENG-006	Pump Station Telemetry Equipment Replacement	\$ -	\$ 1,151,000	\$ 1,151,000	\$ -	\$ -	\$ -	\$ -	\$ 2,302,000
		C417	Force Mains	Program	C417	Force Mains - Asset Management & Emergencies Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,000,000	\$ 16,000,000
				Project	C417-ENG-003-02	Bullittsville FM Replacement Phase 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,920,738	\$ 4,920,738
					W16-001	Wilder Force Main Improvements	\$ 156,397	\$ 440,016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 596,413
					C417-ENG-004	Lakeview Force Main Partial Replacement - Dixie to Buttermilk (previously Lakev	\$ -	\$ 26,311	\$ 142,289	\$ 1,338,988	\$ -	\$ -	\$ -	\$ 1,507,588
		C418	Flood Pump Stations	Program	C418	Flood Pump Stations - Asset Management & Emergencies Program	\$ -	\$ 438,059	\$ 537,000	\$ 486,000	\$ 487,000	\$ 500,000	\$ 11,240,000	\$ 13,688,059
				Project	C418-ENG-001	Flood Gate Rehabilitation Project - WW Outfall	\$ -	\$ -	\$ 448,600	\$ -	\$ -	\$ -	\$ -	\$ 448,600
					C418-ENG-002	Willow Run Flood Stations Improvements	\$ -	\$ -	\$ -	\$ 762,605	\$ 2,287,816	\$ 4,575,632	\$ 7,626,053	
					C418-ENG-003	Flood Gate Replacement	\$ 24,781	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 720,000	\$ 1,344,781
					C418-ENG-004	4th St Discharge piping rehab	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000
		C600	Sanitary Sewers	Program	C600	Sanitary Sewers - Asset Management & Emergencies Program	\$ -	\$ 5,500,000	\$ 3,880,000	\$ 4,057,000	\$ 3,965,000	\$ 3,215,000	\$ 96,000,000	\$ 116,617,000
				Project	C600-ENG-002	Highland Pike Sewer Replacement	\$ 32,606	\$ 1,339,983	\$ 2,958,898	\$ -	\$ -	\$ -	\$ -	\$ 4,331,487
					C600-ENG-003	Howard Litzler	\$ -	\$ -	\$ 150,000	\$ 274,797	\$ 1,274,391	\$ 2,548,781	\$ -	\$ 4,247,969
					C600-ENG-004	Pike St - Gliers Goetta	\$ -	\$ -	\$ 112,000	\$ 168,000	\$ -	\$ -	\$ -	\$ 280,000
					C600-ENG-006	Hawthorne Ave, Ft. Thomas	\$ -	\$ -	\$ 60,000	\$ 120,000	\$ -	\$ -	\$ -	\$ 180,000
					C600-ENG-010	General Drive Sewer Replacement	\$ 147,803	\$ 802,255	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 950,058
					C701-2	Banklick Creek Sewer Replacement at Independence Station Road	\$ 217,421	\$ 481,409	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 698,830
					W16-012-01	122 Vista View PL Sewer Replacement (KYTC Hands Pike Relocation)	\$ 10,806	\$ 200,000	\$ 187,494	\$ -	\$ -	\$ -	\$ -	\$ 398,300
					W17-006	Blangey Rd., Highland Heights	\$ 38,311	\$ -	\$ 63,350	\$ 145,234	\$ 464,345	\$ -	\$ -	\$ 711,240
		C700	Enterprise Information Tec	Project	C700-ENG-001	Billing System	\$ -	\$ 850,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ 1,650,000
		C701	Engineering Priority Projec	Program	C701	Engineering Priority Projects	\$ -	\$ 399,000	\$ 368,000	\$ 378,000	\$ 388,000	\$ 398,000	\$ 5,550,000	\$ 7,481,000
		K100	KYTC/City/County Sewer Ir	Program	K100	KYTC/City/County Sewer Integration Projects - Reimbursed	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 1,600,000	\$ 2,100,000
Asset Management Total							\$ 1,599,761	\$ 17,421,880	\$ 13,930,242	\$ 11,920,356	\$ 11,553,143	\$ 14,681,597	\$ 254,791,370	\$ 325,898,349
Consent Decree		C490	River Water Intrusion Prog	Project	C490	River Water Intrusion Program	\$ 131,900	\$ 840,000	\$ 2,166,285	\$ 1,857,636	\$ 1,478,841	\$ 1,854,838	\$ 4,700,000	\$ 13,029,500
		C703	Green Infrastructure Progr	Project	C703-ENG-003-01	8th St. Combined Sewer Separation	\$ 147,943	\$ 1,470,712	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,618,655
					C703-ENG-004	Amsterdam Valley, Park Hills	\$ 220,000	\$ 580,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 800,000
					C703-ENG-048	Saratoga CSO Reduction	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
					C703-ENG-049	Washington CSO Reduction	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
					C703-ENG-050	36th/Park CSO Reduction	\$ -	\$ -	\$ 109,273	\$ 225,102	\$ 231,855	\$ 1,136,384	\$ 900,000	\$ 2,602,614
		C705	Facility Improvements Prog	Project	C705-ENG-020	Licking River Siphon EQ Storage Tank	\$ -	\$ 103,000	\$ 212,180	\$ 2,185,454	\$ 11,255,088	\$ 11,592,741	\$ 1,700,000	\$ 27,048,463
					C705-ENG-021	Licking River Siphon Conveyance Piping (8K Piping)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,927	\$ 6,900,000	\$ 7,015,927
					C705-ENG-032	Bromley Conveyance Piping	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000	\$ 5,000,000
					C705-ENG-042	Highland Heights Conveyance Piping	\$ -	\$ -	\$ 22,628	\$ 96,276	\$ 110,695	\$ 525,955	\$ 1,315,668	\$ 2,071,223
					C705-ENG-043	Lakeview 3.0 MG EQ Tank, WWPS, Screening, 1,000' of misc pipe	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,927	\$ 7,900,000	\$ 8,015,927
					C705-ENG-044	Raise SSO Manholes Church St	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000
					C705-ENG-045	Silver Grove/Highland Heights Sanitary Improvements	\$ 3,253,126	\$ 900,000	\$ 4,561,870	\$ 7,867,635	\$ 2,520,495	\$ -	\$ -	\$ 19,103,126
					C707-ENG-015	WR: W6 PS and FM Improvements	\$ -	\$ 600,000	\$ 1,000,000	\$ 6,000,000	\$ 10,000,000	\$ 15,000,000	\$ 15,000,000	\$ 47,600,000

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						Prior FYS (Actual + Projections)	FY20 Total	FY21	FY22	FY23	FY24	FY2025-2040 (2018 #'s)	Total	
  	Consent Decree	C705	Facility Improvements Proj	Project	W17-002-01	Elsmere Corridor	\$ 1,980,082	\$ 4,314,618	\$ -	\$ -	\$ -	\$ -	\$ 6,294,700	
  					C705-ENG-048	LRS - Pipe across Licking River 30"	\$ -	\$ 309,000	\$ 318,270	\$ 1,092,727	\$ 2,701,221	\$ -	\$ 4,421,218	
  					C705-ENG-049	Rt 17 - Orphange to I275 Conveyance Piping	\$ -	\$ -			\$ 134,391	\$ 3,400,000	\$ 3,534,391	
 					C705-ENG-050	Boone Co. Oakbrook Drive Sewer Capacity Increase	\$ -	\$ -				\$ 660,000	\$ 660,000	
 					C705-ENG-051	Peaselburg Control Valving	\$ -	\$ 103,000	\$ 212,180	\$ 1,639,091	\$ 1,125,509	\$ -	\$ 3,079,780	
 					C705-ENG-052	Bellevue E.Q.	\$ -	\$ 300,000	\$ 400,000	\$ 400,000	\$ 8,000,000	\$ 11,500,000	\$ 20,600,000	
  					C705-ENG-053	Goebel Park	\$ -	\$ -	\$ 109,273	\$ 225,102	\$ 1,159,274	\$ 300,000	\$ 1,793,649	
  					C705-ENG-055	SSO 10 Year Bucket	\$ -	\$ -				\$ 46,231,555	\$ 46,231,555	
  					C705-ENG-056	SSO 15 Year Bucket	\$ -	\$ -				\$ 67,529,605	\$ 67,529,605	
  					C705-ENG-057	SSO 20 Year Bucket	\$ -	\$ -				\$ 36,846,010	\$ 36,846,010	
  					C705-ENG-059	CSO 10 Year Bucket	\$ -	\$ -				\$ 82,465,110	\$ 82,465,110	
 					C705-ENG-060	CSO 15 Year Bucket	\$ -	\$ -				\$ 117,309,730	\$ 117,309,730	
 					C705-ENG-061	CSO 20 Year Bucket	\$ -	\$ -				\$ 107,113,720	\$ 107,113,720	
 					C705-ENG-047-01	Water Works Sanitary Improvements Phase I	\$ -	\$ 1,066,488	\$ 1,098,482			\$ -	\$ 2,164,970	
 					C705-ENG-047-02	Water Works Sanitary Improvements Future Phases	\$ -	\$ -				\$ 21,266,750	\$ 21,266,750	
Consent Decree Total							\$ 5,733,051	\$ 11,136,818	\$ 10,101,169	\$ 21,473,194	\$ 37,648,806	\$ 43,135,437	\$ 526,638,148	\$ 655,866,623
 	Capacity Pinch Points	C707	Capacity Pinch Point Imprc	Project	C707-ENG-001	Burlington PS Intermediate Improvements	\$ 38,333	\$ 261,000			\$ -	\$ -	\$ 299,333	
 					C707-ENG-002	Burlington FM Upsizing	\$ 229,224	\$ 1,466,336				\$ -	\$ 1,695,560	
 					C707-ENG-006	Bullittsville PS Intermediate Improvements	\$ -	\$ 410,212	\$ 3,985,176	\$ -	\$ -	\$ -	\$ 4,395,388	
  					W16-006-01	Hebron Area Sanitary Sewer Improvements (aka Sand Run PS)	\$ 4,125,896	\$ 2,105,000		\$ -		\$ -	\$ 6,230,896	
  					W17-003	US 27 and AA Highway Sewer Improvements	\$ 219,503	\$ 269,880	\$ 4,228,972	\$ 3,810,743	\$ 3,287,582	\$ -	\$ 11,816,680	
					C707-ENG-034	Future Capacity Growth Bucket	\$ -	\$ 50,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 750,000	\$ 219,031,392	\$ 221,331,392
Capacity Pinch Points Total							\$ 4,612,956	\$ 4,562,428	\$ 8,714,148	\$ 4,310,743	\$ 3,787,582	\$ 750,000	\$ 219,031,392	\$ 245,769,249
Grand Total							\$ 11,945,767	\$ 33,121,127	\$ 32,745,559	\$ 37,704,293	\$ 52,989,531	\$ 58,567,034	\$ 1,000,460,910	\$ 1,227,534,221