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FINANCIAL STATEMENTS  
OCTOBER 2023**

**LEHIGH COUNTY AUTHORITY  
YTD SUMMARY SCORESHEET  
OCTOBER 2023**

	<u>Sub W</u>	<u>Sub WW</u>	<u>City</u>
YTD Net income >0			
YTD Net income >= FC			
YTD Cash Flow >0			
YTD Cash Flow >= FC			
YTD DSCR >= FC			
YTD DSCR >= 1.20			
YTD Operating Ratio >= 1.00			
YTD Operating Ratio >= Budget Target			
YTD Days Cash on Hand >= 180.0			
YTD Operating Revenues >= FC			
YTD Operating Expenses <= FC			
FY FC Net Income >= Budget			
FY FC Cash Flows >=Budget			
FY FC DSCR >= Budget			
TOTAL GREEN	<u><u>13</u></u>	<u><u>8</u></u>	<u><u>14</u></u>

LEHIGH COUNTY AUTHORITY  
FINANCIAL STATEMENTS - SUMMARY  
For the Period Ended October 31, 2023

	Consolidated Financial Statements														
	Month					Year To Date					FULL YEAR				
	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Q4 FC	Budget	Prior Year	Bud Var	PY Var
Income Statement															
Suburban Water	388,815	198,501	345,776	190,315	43,039	3,090,422	2,900,108	3,338,807	190,315	(248,385)	3,149,308	2,169,036	4,138,513	980,272	(989,205)
Suburban Wastewater	(150,528)	(408,700)	2,281,946	258,172	(2,432,473)	(343,245)	(601,418)	1,369,268	258,172	(1,712,514)	(107,781)	2,150,192	(455,127)	(2,257,973)	347,346
City Division	(554,810)	(1,153,395)	1,592,100	598,585	(2,146,910)	13,737,259	13,138,674	9,647,796	598,585	4,089,463	6,483,473	4,780,898	6,545,431	1,702,575	(61,958)
Total LCA	(316,522)	(1,363,594)	4,219,822	1,047,072	(4,536,345)	16,484,436	15,437,364	14,355,872	1,047,072	2,128,564	9,525,000	9,100,126	10,228,817	424,874	(703,817)
Cash Flow Statement															
Suburban Water	104,215	276,809	189,841	(172,594)	(85,627)	5,621,446	5,794,040	2,601,665	(172,594)	3,019,781	5,981,919	46,653	760,443	5,935,265	5,221,476
Suburban Wastewater	1,378,474	1,466,528	1,642,658	(88,054)	(264,184)	4,495,731	4,583,785	(20,069)	(88,054)	4,515,800	3,938,128	762,612	1,359,980	3,175,517	2,578,148
City Division	1,241,348	(639,890)	(179,305)	1,881,238	1,420,653	20,324,095	18,442,856	8,299,659	1,881,238	12,024,436	9,404,877	2,671,275	2,841,305	6,733,603	6,563,572
Total LCA	2,724,037	1,103,447	1,653,195	1,620,590	1,070,843	30,441,272	28,820,681	10,881,255	1,620,590	19,560,017	19,324,924	3,480,540	4,961,728	15,844,385	14,363,196
Debt Service Coverage Ratio															
Suburban Water	3.11	1.94	2.69	1.17	0.42	2.39	2.27	2.63	0.12	(0.24)	2.30	1.83	2.77	0.47	(0.47)
Suburban Wastewater	6.12	1.86	47.98	4.26	(41.86)	8.16	7.74	11.40	0.43	(3.24)	9.57	11.69	9.69	(2.12)	(0.12)
City Division	1.01	0.63	2.88	0.38	(1.88)	2.54	2.50	2.35	0.04	0.19	2.30	2.10	2.62	0.20	(0.31)

LEHIGH COUNTY AUTHORITY  
CONSOLIDATED FINANCIAL STATEMENTS  
For the Period Ended October 31, 2023

STATEMENTS OF ACTIVITIES	Consolidated Financial Statements															
	Month				Year To Date				Q4 FULL YEAR FORECAST				Full Year Budget			
	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA	Sub W	Sub WW	City	LCA
Operating Revenues:																
User Charges	1,622,804	1,255,759	2,360,548	5,239,110	13,935,989	14,872,086	42,872,976	71,681,051	16,660,450	18,962,767	50,661,734	86,284,950	16,287,500	21,822,513	50,680,860	88,790,873
Connection & System Charges	19,806	66,824	409,082	495,711	429,889	1,271,311	4,178,449	5,879,649	702,066	1,764,688	4,426,588	6,893,341	680,700	875,600	4,096,600	5,652,900
Other Miscellaneous Revenues	6,661	30	11,350	18,041	49,834	480	95,847	146,162	(37,319)	2,380	116,207	81,269	31,800	2,300	69,300	103,400
Total Operating Revenues	1,649,270	1,322,612	2,780,980	5,752,862	14,415,712	16,143,878	47,147,272	77,706,862	17,325,198	20,729,834	55,204,529	93,259,561	17,000,000	22,700,413	54,846,760	94,547,173
Operating Expenses:																
Personnel	312,676	167,188	981,426	1,461,290	3,166,659	1,439,712	9,360,414	13,966,784	3,758,691	1,534,506	11,686,498	16,979,695	3,838,376	1,739,145	12,818,583	18,396,104
Shared Services - General & Administrative	45,439	25,506	140,432	211,377	598,405	271,993	1,671,907	2,542,305	664,903	258,466	1,899,435	2,822,804	847,837	353,525	2,197,452	3,398,813
Utilities	37,473	17,666	140,813	195,952	398,682	201,088	1,631,596	2,231,366	438,600	262,692	2,172,623	2,873,915	516,389	312,787	2,018,173	2,847,348
Materials and Supplies	84,756	14,694	292,799	392,249	529,176	323,475	2,522,905	3,375,556	848,395	466,691	3,145,206	4,460,293	887,370	324,100	2,621,000	3,832,470
Miscellaneous Services	317,112	500,033	163,968	981,112	3,227,695	5,880,201	1,479,180	10,587,076	4,019,711	7,430,528	2,129,759	13,579,998	4,610,690	7,212,206	2,112,700	13,935,596
Treatment and Transportation	-	282,185	-	282,185	-	3,508,514	5,220	3,513,734	-	4,232,139	12,600	4,244,739	-	4,293,345	14,318	4,307,663
Depreciation and Amortization	258,365	508,303	519,750	1,286,418	2,576,672	5,153,466	5,182,461	12,912,599	3,479,721	6,900,739	6,403,161	16,783,622	3,023,000	6,221,900	6,160,000	15,404,900
Major Maintenance Expenses	-	4	34,063	34,067	-	2,687	220,748	223,435	-	2,683	4,000,000	4,002,683	-	25,200	4,000,000	4,025,200
Other Miscellaneous	-	-	-	-	-	-	-	-	41,534	-	-	41,534	41,600	-	-	41,600
Total Operating Expenses	1,055,821	1,515,579	2,273,251	4,844,652	10,497,288	16,781,136	22,074,429	49,352,854	13,251,555	21,088,445	31,449,282	65,789,281	13,765,262	20,482,207	31,942,225	66,189,694
Net Operating Profit	593,449	(192,967)	507,729	908,210	3,918,424	(637,259)	25,072,843	28,354,008	4,073,643	(358,610)	23,755,247	27,470,279	3,234,738	2,218,206	22,904,535	28,357,479
Non-Operating Income (Expense)																
Interest Income	31,664	43,766	351,784	427,214	278,682	363,607	2,775,700	3,417,989	224,041	359,001	1,946,291	2,529,333	64,782	85,128	128,661	278,572
Interest (Expense)	(237,099)	(12,607)	(1,411,360)	(1,661,066)	(1,120,767)	(130,577)	(14,103,121)	(15,354,465)	(1,161,255)	(157,427)	(19,212,865)	(20,531,547)	(1,130,484)	(153,143)	(18,252,298)	(19,535,925)
Other Miscellaneous	802	11,281	(2,963)	9,119	14,083	60,983	(8,163)	66,903	12,880	49,256	(5,200)	56,935	-	-	-	-
Net Non-Operating Income (Expense)	(204,633)	42,439	(1,062,539)	(1,224,733)	(828,001)	294,013	(11,335,584)	(11,869,572)	(924,334)	250,829	(17,271,774)	(17,945,279)	(1,065,702)	(68,015)	(18,123,637)	(19,257,353)
Net Income (Loss)	388,815	(150,528)	(554,810)	(316,522)	3,090,422	(343,245)	13,737,259	16,484,436	3,149,308	(107,781)	6,483,473	9,525,000	2,169,036	2,150,192	4,780,898	9,100,126
CASH FLOW STATEMENT																
Cash Flows From Operating Activities																
Operating Revenues	1,649,270	1,322,612	2,780,980	5,752,862	14,415,712	16,143,878	47,147,272	77,706,862	17,325,198	20,729,834	55,204,529	93,259,561	17,000,000	22,700,413	54,846,760	94,547,173
Operating Expenses (ex D&A)	(797,457)	(1,007,272)	(1,719,437)	(3,524,166)	(7,920,616)	(11,624,983)	(16,671,221)	(36,216,820)	(9,771,834)	(14,185,022)	(21,046,121)	(45,002,976)	(10,742,262)	(14,235,107)	(21,782,225)	(46,759,594)
Non-Cash Working Capital Changes	(191,649)	1,793,643	(128,646)	1,473,348	(2,875,293)	782,524	(1,360,929)	(3,453,697)	4,447	(7,280)	(341,896)	(344,729)	(0)	(25,200)	0	(25,200)
Net Cash Provided by (Used in) Operating Activities	660,165	2,108,983	932,896	3,702,044	3,619,803	5,301,419	29,115,122	38,036,345	7,557,811	6,537,533	33,816,511	47,911,856	6,257,738	8,440,106	33,064,535	47,762,379
Cash Flows From Financing Activities																
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	6,950,000	-	1,371,118	8,321,118	6,950,000	-	1,371,118	8,321,118	3,950,000	-	1,200,000	5,150,000
Interest Payments	(142,595)	(11,936)	(1,130)	(155,661)	(736,778)	(123,444)	(5,743,229)	(6,603,451)	(1,156,137)	(150,059)	(11,717,006)	(13,023,201)	(1,130,484)	(153,143)	(11,788,844)	(13,072,471)
Principal Payments	(6,323)	(48,371)	(5,176)	(59,870)	(62,871)	(479,302)	(15,459)	(557,632)	(2,252,950)	(576,248)	(3,352,360)	(6,181,558)	(2,344,383)	(575,980)	(3,342,077)	(6,262,440)
Net Cash Provided by (Used in) Financing Activities	(148,918)	(60,307)	(6,306)	(215,531)	6,150,351	(602,747)	(4,387,570)	1,160,034	3,540,913	(726,306)	(13,698,247)	(10,883,641)	475,133	(729,123)	(13,930,921)	(14,184,911)
Cash Flows from Capital and Related Activities																
Non-Operating Income (Expenses)	802	11,281	(2,963)	9,119	14,083	60,983	(1,369,343)	(1,294,277)	12,880	49,256	(1,366,380)	(1,304,245)	-	-	(1,400,000)	(1,400,000)
Capital Expenditures, net	(443,498)	(725,248)	(34,063)	(1,202,809)	(4,450,474)	(2,409,705)	(5,809,815)	(12,669,994)	(5,362,726)	(4,063,529)	(11,293,298)	(20,719,552)	(6,751,000)	(7,033,500)	(15,191,000)	(28,975,500)
Net Cash Provided By (Used In) Capital and Related Activities	(442,696)	(713,968)	(37,027)	(1,193,690)	(4,436,390)	(2,348,722)	(7,179,158)	(13,964,271)	(5,349,846)	(4,014,273)	(12,659,678)	(22,023,797)	(6,751,000)	(7,033,500)	(16,591,000)	(30,375,500)
Cash Flows From Investing Activities																
Investments Converting To Cash	249,000	-	-	249,000	988,000	5,381,174	-	6,369,174	988,000	5,875,174	-	6,863,174	-	-	-	-
Purchased Investments	(245,000)	-	-	(245,000)	(979,000)	(3,599,000)	-	(4,578,000)	(979,000)	(4,093,000)	-	(5,072,000)	-	-	-	-
Interest Income	31,664	43,766	351,784	427,214	278,682	363,607	2,775,700	3,417,989	224,041	359,001	1,946,291	2,529,333	64,782	85,128	128,661	278,572
Net Cash Provided By (Used In) Investing Activities	35,664	43,766	351,784	431,214	287,682	2,145,781	2,775,700	5,209,163	233,041	2,141,175	1,946,291	4,320,507	64,782	85,128	128,661	278,572
FUND NET CASH FLOWS	104,215	1,378,474	1,241,348	2,724,037	5,621,446	4,495,731	20,324,095	30,441,272	5,981,919	3,938,128	9,404,877	19,324,924	46,653	762,612	2,671,275	3,480,540
DEBT SERVICE RATIO																
Debt Service Ratio (Indenture Based)																
Total Operating Revenues	1,622,804	1,255,759	2,360,548	5,239,110	13,935,989	14,872,086	42,872,976	71,681,051	16,660,450	18,962,767	50,661,734	86,284,950	16,287,500	21,822,513	50,680,860	88,790,873
Total Operating Expenses (Cash Based)	(797,457)	(1,007,276)	(1,753,501)	(3,558,234)	(7,920,616)	(11,627,670)	(16,891,969)	(36,440,255)	(9,771,834)	(14,187,705)	(21,046,121)	(45,005,659)	(10,742,262)	(14,260,307)	(21,782,225)	(46,784,794)
Interest Income	31,664	43,766	351,784	427,214	278,682	363,607	2,775,700	3,417,989	224,041	359,001	1,946,291	2,529,333	64,782	85,128	128,661	278,572
Annual Lease Payment (City)	-	-	(113,865)	(113,865)	-	-	(1,138,650)	(1,138,650)	-	-	(1,366,380)	(1,366,380)	-	-	(1,400,000)	(1,400,000)
Total Non-Operating Revenues (Expenses)	27,268	78,134	417,469	522,871	493,806	1,332,774	4,266,134	6,092,714	719,161	1,816,323	4,537,595	7,073,079	754,100	877,900	4,165,900	5,797,900
Cash Available For Debt Service	884,279	370,383	1,262,435	2,517,097	6,787,861	4,940,798	31,884,191	43,612,850	7,831,818	6,950,386	34,733,118	49,515,322	6,364,120	8,525,235	31,793,196	46,682,551
Interest Paid	96,345	12,505	976,417	1,085,267	963,447	125,049	9,764,171	10,852,667	1,156,137	150,059	11,717,006	13,023,201	1,130,484	153,143	11,788,844	13,072,471
Debt Retirement (Principal Payments)	187,746	48,021	279,363	515,130	1,877,459	480,207	2,793,633	5,151,298	2,252,950	576,248	3,352,360	6,181,558	2,344,383	575,980	3,342,077	6,262,440
Total Debt Service	284,091	60,526	1,255,780	1,600,397	2,840,906	605,255	12,557,804	16,003,966	3,409,087	726,306	15,069,365	19,204,759	3,474,867	729,123	15,130,921	19,334,911
Debt Service Ratio	3.11	6.12	1.01	1.57	2.39	8.16	2.54	2.73	2.30	9.57	2.30	2.58	1.83	11.69	2.10	2.41

LEHIGH COUNTY AUTHORITY  
FINANCIAL STATEMENTS - SUBURBAN WATER  
For the Period Ended October 31, 2023

STATEMENTS OF ACTIVITIES	Suburban - Water														
	Month					Year To Date					Full Year				
	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Q4 FC	Budget	Prior Year	Bud Var	PY Var
Operating Revenues:															
User Charges	1,622,804	1,453,040	1,443,221	169,764	179,583	13,935,989	13,766,226	12,922,874	169,764	1,013,115	16,660,450	16,287,500	16,317,932	372,950	342,518
Connection & System Charges	19,806	21,680	30,191	(1,875)	(10,386)	429,889	431,763	526,210	(1,875)	(96,321)	702,066	680,700	653,032	21,366	49,034
Other Miscellaneous Revenues	6,661	660	3,585	6,001	3,076	49,834	43,833	601,108	6,001	(551,274)	(37,319)	31,800	173,318	(69,119)	(210,637)
Total Operating Revenues	1,649,270	1,475,380	1,476,997	173,890	172,273	14,415,712	14,241,822	14,050,192	173,890	365,521	17,325,198	17,000,000	17,144,282	325,198	180,916
Operating Expenses:															
Personnel	312,676	326,663	300,282	13,987	(12,394)	3,166,659	3,180,645	2,744,170	13,987	(422,489)	3,758,691	3,838,376	3,020,805	79,685	(737,886)
Shared Services - General & Administrative	45,439	62,510	40,818	17,071	(4,621)	598,405	615,476	477,503	17,071	(120,902)	664,903	847,837	553,636	182,934	(111,267)
Utilities	37,473	39,180	36,562	1,707	(912)	398,682	400,389	423,054	1,707	24,372	438,600	516,389	481,997	77,789	43,397
Materials and Supplies	84,756	125,200	111,790	40,444	27,034	529,176	569,620	685,360	40,444	156,184	848,395	887,370	860,080	38,975	11,685
Miscellaneous Services	317,112	378,800	296,511	61,688	(20,601)	3,227,695	3,289,383	2,800,769	61,688	(426,926)	4,019,711	4,610,690	3,664,554	590,979	(355,157)
Treatment and Transportation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation and Amortization	258,365	258,365	253,735	-	(4,630)	2,576,672	2,576,672	2,517,575	-	(59,098)	3,479,721	3,023,000	3,665,828	(456,721)	186,107
Major Maintenance Expenses	-	-	1,659	-	1,659	-	-	8,596	-	8,596	-	-	-	-	-
Other Miscellaneous	-	-	-	-	-	-	-	250	-	250	41,534	41,600	156,699	66	115,165
Total Operating Expenses	1,055,821	1,190,718	1,041,357	134,896	(14,465)	10,497,288	10,632,185	9,657,276	134,896	(840,013)	13,251,555	13,765,262	12,403,599	513,707	(847,956)
Net Operating Profit	593,449	284,662	435,640	308,786	157,808	3,918,424	3,609,638	4,392,916	308,786	(474,492)	4,073,643	3,234,738	4,740,683	838,905	(667,040)
Non-Operating Income (Expense)															
Interest Income	31,664	9,270	14,800	22,394	16,864	278,682	256,288	69,956	22,394	208,726	224,041	64,782	103,451	159,258	120,590
Interest (Expense)	(237,099)	(95,432)	(100,644)	(141,667)	(136,455)	(1,120,767)	(979,099)	(1,002,629)	(141,667)	(118,138)	(1,161,255)	(1,130,484)	(847,133)	(30,771)	(314,122)
Other Miscellaneous	802	-	(4,020)	802	4,821	14,083	13,282	(121,436)	802	135,519	12,880	-	141,512	12,880	(128,633)
Net Non-Operating Income (Expense)	(204,633)	(86,162)	(89,864)	(118,472)	(114,769)	(828,001)	(709,530)	(1,054,109)	(118,472)	226,107	(924,334)	(1,065,702)	(602,170)	141,367	(322,164)
Net Income (Loss)	388,815	198,501	345,776	190,315	43,039	3,090,422	2,900,108	3,338,807	190,315	(248,385)	3,149,308	2,169,036	4,138,513	980,272	(989,205)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,649,270	1,475,380	1,476,997	173,890	172,273	14,415,712	14,241,822	14,050,192	173,890	365,521	17,325,198	17,000,000	17,144,282	325,198	180,916
Operating Expenses (ex D&A)	(797,457)	(932,353)	(787,621)	134,896	(9,835)	(7,920,616)	(8,055,513)	(7,139,701)	134,896	(780,915)	(9,771,834)	(10,742,262)	(8,737,771)	970,428	(1,034,063)
Non-Cash Working Capital Changes	(191,649)	(191,649)	(285,315)	(0)	93,666	(2,875,293)	(2,875,293)	(1,635,152)	(0)	(1,240,140)	4,447	(0)	675,196	4,447	(670,749)
Net Cash Provided by (Used in) Operating Activities	660,165	351,378	404,061	308,786	256,104	3,619,803	3,311,017	5,275,338	308,786	(1,655,535)	7,557,811	6,257,738	9,081,707	1,300,073	(1,523,895)
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	6,950,000	6,950,000	-	-	6,950,000	6,950,000	3,950,000	-	3,000,000	6,950,000
Interest Payments	(142,595)	(956)	(1,014)	(141,639)	(141,581)	(736,778)	(595,139)	(604,573)	(141,639)	(132,205)	(1,156,137)	(1,130,484)	(1,200,136)	(25,653)	43,999
Principal Payments	(6,323)	(7,584)	(6,228)	1,261	(95)	(62,871)	(64,132)	(127,752)	1,261	64,880	(2,252,950)	(2,344,383)	(1,925,231)	91,433	(327,719)
Net Cash Provided by (Used in) Financing Activities	(148,918)	(8,540)	(7,243)	(140,378)	(141,675)	6,150,351	6,290,729	(732,325)	(140,378)	6,882,676	3,540,913	475,133	(3,125,367)	3,065,780	6,666,280
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	802	-	(4,020)	802	4,821	14,083	13,282	(121,436)	802	135,519	12,880	-	(112,090)	12,880	124,969
Capital Expenditures, net	(443,498)	(79,300)	(217,756)	(364,198)	(225,741)	(4,450,474)	(4,086,276)	(1,895,869)	(364,198)	(2,554,605)	(5,362,726)	(6,751,000)	(5,193,258)	1,388,274	(169,468)
Net Cash Provided By (Used In) Capital and Related Activities	(442,696)	(79,300)	(221,776)	(363,396)	(220,920)	(4,436,390)	(4,072,994)	(2,017,304)	(363,396)	(2,419,086)	(5,349,846)	(6,751,000)	(5,305,347)	1,401,154	(44,499)
Cash Flows From Investing Activities															
Investments Converting To Cash	249,000	249,000	-	-	249,000	988,000	988,000	990,000	-	(2,000)	988,000	-	990,000	988,000	(2,000)
Purchased Invesments	(245,000)	(245,000)	-	-	(245,000)	(979,000)	(979,000)	(984,000)	-	5,000	(979,000)	-	(984,000)	(979,000)	5,000
Interest Income	31,664	9,270	14,800	22,394	16,864	278,682	256,288	69,956	22,394	208,726	224,041	64,782	103,451	159,258	120,590
Net Cash Provided By (Used In) Investing Activities	35,664	13,270	14,800	22,394	20,864	287,682	265,288	75,956	22,394	211,726	233,041	64,782	109,451	168,258	123,590
FUND NET CASH FLOWS	104,215	276,809	189,841	(172,594)	(85,627)	5,621,446	5,794,040	2,601,665	(172,594)	3,019,781	5,981,919	46,653	760,443	5,935,265	5,221,476
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	1,622,804	1,453,040	1,443,221	169,764	179,583	13,935,989	13,766,226	12,922,874	169,764	1,013,115	16,660,450	16,287,500	16,317,932	372,950	342,518
Operating Expenses (Cash Based)	(797,457)	(932,353)	(787,621)	134,896	(9,835)	(7,920,616)	(8,055,513)	(7,139,701)	134,896	(780,915)	(9,771,834)	(10,742,262)	(8,737,771)	970,428	(1,034,063)
Interest Income	31,664	9,270	14,800	22,394	16,864	278,682	256,288	69,956	22,394	208,726	224,041	64,782	103,451	159,258	120,590
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	27,268	22,340	29,756	4,928	(2,488)	493,806	488,878	1,005,882	4,928	(512,075)	719,161	754,100	967,862	(34,939)	(248,702)
Cash Available For Debt Service	884,279	552,297	700,155	331,982	184,124	6,787,861	6,455,879	6,859,011	331,982	(71,150)	7,831,818	6,364,120	8,651,474	1,467,698	(819,656)
Interest Paid	96,345	96,345	100,011	-	(3,667)	963,447	963,447	1,000,113	-	(36,666)	1,156,137	1,130,484	1,200,136	25,653	(43,999)
Debt Retirement (Principal Payments)	187,746	187,746	160,436	-	27,310	1,877,459	1,877,459	1,604,359	-	273,099	2,252,950	2,344,383	1,925,231	(91,433)	327,719
Total Debt Service	284,091	284,091	260,447	-	23,643	2,840,906	2,840,906	2,604,473	-	236,433	3,409,087	3,474,867	3,125,367	(65,780)	283,720
Debt Service Ratio	3.11	1.94	2.69	1.17	0.42	2.39	2.27	2.63	0.12	(0.24)	2.30	1.83	2.77	0.47	(0.47)

**LEHIGH COUNTY AUTHORITY**  
**VARIANCE ANALYSIS - YTD**  
**For the Period Ended October 31, 2023**

**STATEMENTS OF ACTIVITIES**

**Operating Revenues:**

User Charges  
Connection & System Charges  
Other Miscellaneous Revenues

**Total Operating Revenues**

**Operating Expenses:**

Personnel  
Shared Services - General & Administrative  
Utilities  
Materials and Supplies  
Miscellaneous Services  
Treatment and Transportation  
Depreciation and Amortization  
Major Maintenance Expenses  
Other Miscellaneous

**Total Operating Expenses**

**Net Operating Profit**

**Non-Operating Income (Expense)**

Interest Income  
Interest (Expense)  
Other Miscellaneous

**Net Non-Operating Income (Expense)**

**Net Income (Loss)**

**CASH FLOW STATEMENT**

**Cash Flows From Operating Activities**

Operating Revenues  
Operating Expenses (ex D&A)  
Non-Cash Working Capital Changes

**Net Cash Provided by (Used in) Operating Activities**

**Cash Flows From Financing Activities**

Capital Contributions  
Proceeds New Borrowing  
Interest Payments  
Principal Payments

**Net Cash Provided by (Used in) Financing Activities**

**Cash Flows from Capital and Related Activities**

Non-Operating Income (Expenses)  
Capital Expenditures, net

**Net Cash Provided By (Used In) Capital and Related Activities**

**Cash Flows From Investing Activities**

Investments Converting To Cash  
Purchased Investments  
Interest Income

**Net Cash Provided By (Used In) Investing Activities**

**FUND NET CASH FLOWS**

Suburban - Water			
Actual	Q4 FC	FC Var	Comments
13,935,989	13,766,226	169,764	
429,889	431,763	(1,875)	
49,834	43,833	6,001	
<b>14,415,712</b>	<b>14,241,822</b>	<b>173,890</b>	Higher user charges
3,166,659	3,180,645	13,987	
598,405	615,476	17,071	
398,682	400,389	1,707	
529,176	569,620	40,444	
3,227,695	3,289,383	61,688	
-	-	-	
2,576,672	2,576,672	-	
-	-	-	
-	-	-	
<b>10,497,288</b>	<b>10,632,185</b>	<b>134,896</b>	Operating expenses were favorable across the board
<b>3,918,424</b>	<b>3,609,638</b>	<b>308,786</b>	Higher operating revenues and lower operating expenses
278,682	256,288	22,394	
(1,120,767)	(979,099)	(141,667)	
14,083	13,282	802	
<b>(828,001)</b>	<b>(709,530)</b>	<b>(118,472)</b>	
<b>3,090,422</b>	<b>2,900,108</b>	<b>190,315</b>	Higher net operating profit eroded partially by higher interest expense
14,415,712	14,241,822	173,890	
(7,920,616)	(8,055,513)	134,896	
(2,875,293)	(2,875,293)	(0)	
<b>3,619,803</b>	<b>3,311,017</b>	<b>308,786</b>	Higher operating revenues and lower operating expenses
-	-	-	
6,950,000	6,950,000	-	
(736,778)	(595,139)	(141,639)	
(62,871)	(64,132)	1,261	
<b>6,150,351</b>	<b>6,290,729</b>	<b>(140,378)</b>	Higher interest payments
14,083	13,282	802	
(4,450,474)	(4,086,276)	(364,198)	
<b>(4,436,390)</b>	<b>(4,072,994)</b>	<b>(363,396)</b>	Higher capex
988,000	988,000	-	
(979,000)	(979,000)	-	
278,682	256,288	22,394	
<b>287,682</b>	<b>265,288</b>	<b>22,394</b>	Higher interest income
<b>5,621,446</b>	<b>5,794,040</b>	<b>(172,594)</b>	Higher cash from operations more than offset by unfavorable debt service and higher capex

LEHIGH COUNTY AUTHORITY  
FINANCIAL STATEMENTS - SUBURBAN WASTEWATER  
For the Period Ended October 31, 2023

STATEMENTS OF ACTIVITIES	Suburban - Wastewater														
	Month					Year To Date					Full Year				
	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Q4 FC	Budget	Prior Year	Bud Var	PY Var
Operating Revenues:															
User Charges	1,255,759	1,287,059	1,434,776	(31,300)	(179,017)	14,872,086	14,903,387	12,502,118	(31,300)	2,369,969	18,962,767	21,822,513	15,021,652	(2,859,746)	3,941,115
Connection & System Charges	66,824	33,170	2,428,973	33,654	(2,362,149)	1,271,311	1,237,658	3,579,637	33,654	(2,308,325)	1,764,688	875,600	3,319,169	889,088	(1,554,481)
Other Miscellaneous Revenues	30	(4,530)	(3,115)	4,560	3,145	480	(4,080)	(2,860)	4,560	3,340	2,380	2,300	1,585	80	795
Total Operating Revenues	1,322,612	1,315,699	3,860,634	6,913	(2,538,021)	16,143,878	16,136,964	16,078,894	6,913	64,983	20,729,834	22,700,413	18,342,406	(1,970,579)	2,387,428
Operating Expenses:															
Personnel	167,188	149,670	124,634	(17,518)	(42,554)	1,439,712	1,422,194	1,116,407	(17,518)	(323,305)	1,534,506	1,739,145	1,245,134	204,639	(289,372)
Shared Services - General & Administrative	25,506	26,780	17,042	1,274	(8,464)	271,993	273,267	194,171	1,274	(77,821)	258,466	353,525	225,034	95,059	(33,432)
Utilities	17,666	24,400	18,280	6,734	614	201,088	207,822	230,754	6,734	29,666	262,692	312,787	271,866	50,095	9,174
Materials and Supplies	14,694	47,560	36,796	32,866	22,102	323,475	356,341	245,780	32,866	(77,695)	466,691	324,100	339,120	(142,591)	(127,571)
Miscellaneous Services	500,033	631,210	606,689	131,177	106,657	5,880,201	6,011,378	5,416,019	131,177	(464,182)	7,430,528	7,212,206	6,503,137	(218,322)	(927,391)
Treatment and Transportation	282,185	335,270	254,395	53,085	(27,791)	3,508,514	3,561,599	2,085,792	53,085	(1,422,722)	4,232,139	4,293,345	2,846,176	61,206	(1,385,963)
Depreciation and Amortization	508,303	508,303	516,262	(0)	7,959	5,153,466	5,153,466	5,162,576	-	9,110	6,900,739	6,221,900	7,090,828	(678,839)	190,089
Major Maintenance Expenses	4	-	468	(4)	463	2,687	2,683	22,924	(4)	20,236	2,683	25,200	-	22,517	(2,683)
Other Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	86,525	-	86,525
Total Operating Expenses	1,515,579	1,723,193	1,574,565	207,614	58,986	16,781,136	16,988,750	14,474,423	207,614	(2,306,713)	21,088,445	20,482,207	18,607,820	(606,238)	(2,480,625)
Net Operating Profit	(192,967)	(407,494)	2,286,069	214,527	(2,479,036)	(637,259)	(851,786)	1,604,471	214,527	(2,241,730)	(358,610)	2,218,206	(265,414)	(2,576,817)	(93,196)
Non-Operating Income (Expense)															
Interest Income	43,766	11,500	17,593	32,266	26,173	363,607	331,341	87,964	32,266	275,644	359,001	85,128	130,269	273,873	228,733
Interest (Expense)	(12,607)	(12,706)	(15,427)	99	2,820	(130,577)	(130,676)	(153,455)	99	22,878	(157,427)	(153,143)	(185,935)	(4,284)	28,508
Other Miscellaneous	11,281	-	(6,289)	11,281	17,570	60,983	49,702	(169,711)	11,281	230,694	49,256	-	(134,047)	49,256	183,302
Net Non-Operating Income (Expense)	42,439	(1,206)	(4,123)	43,646	46,562	294,013	250,368	(235,203)	43,646	529,216	250,829	(68,015)	(189,713)	318,844	440,542
Net Income (Loss)	(150,528)	(408,700)	2,281,946	258,172	(2,432,473)	(343,245)	(601,418)	1,369,268	258,172	(1,712,514)	(107,781)	2,150,192	(455,127)	(2,257,973)	347,346
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	1,322,612	1,315,699	3,860,634	6,913	(2,538,021)	16,143,878	16,136,964	16,078,894	6,913	64,983	20,729,834	22,700,413	18,342,406	(1,970,579)	2,387,428
Operating Expenses (ex D&A)	(1,007,272)	(1,214,890)	(1,057,836)	207,618	50,564	(11,624,983)	(11,832,600)	(9,288,924)	207,618	(2,336,059)	(14,185,022)	(14,235,107)	(11,516,992)	50,085	(2,668,030)
Non-Cash Working Capital Changes	1,793,643	1,793,569	(1,012,374)	74	2,806,017	782,524	782,450	(1,719,477)	74	2,502,001	(7,280)	(25,200)	907,512	17,920	(914,792)
Net Cash Provided by (Used in) Operating Activities	2,108,983	1,894,378	1,790,424	214,605	318,559	5,301,419	5,086,814	5,070,494	214,605	230,925	6,537,533	8,440,106	7,732,926	(1,902,574)	(1,195,393)
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Payments	(11,936)	(12,310)	(11,356)	374	(580)	(123,444)	(123,819)	(117,065)	374	(6,379)	(150,059)	(153,143)	(141,271)	3,084	(8,788)
Principal Payments	(48,371)	(48,340)	(47,203)	(31)	(1,168)	(479,302)	(479,271)	(467,735)	(31)	(11,567)	(576,248)	(575,980)	(562,430)	(268)	(13,818)
Net Cash Provided by (Used in) Financing Activities	(60,307)	(60,650)	(58,559)	343	(1,748)	(602,747)	(603,090)	(584,800)	343	(17,947)	(726,306)	(729,123)	(703,701)	2,817	(22,605)
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	11,281	-	(6,289)	11,281	17,570	60,983	49,702	(169,711)	11,281	230,694	49,256	-	(134,047)	49,256	183,302
Capital Expenditures, net	(725,248)	(378,700)	(100,511)	(346,548)	(624,737)	(2,409,705)	(2,063,157)	(2,432,015)	(346,548)	22,310	(4,063,529)	(7,033,500)	(3,673,467)	2,969,971	(390,062)
Net Cash Provided By (Used In) Capital and Related Activities	(713,968)	(378,700)	(106,800)	(335,268)	(607,168)	(2,348,722)	(2,013,454)	(2,601,726)	(335,268)	253,004	(4,014,273)	(7,033,500)	(3,807,514)	3,019,227	(206,759)
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	-	-	-	5,381,174	5,381,174	2,906,000	-	2,475,174	5,875,174	-	2,906,000	5,875,174	2,969,174
Purchased Investments	-	-	-	-	-	(3,599,000)	(3,599,000)	(4,898,000)	-	1,299,000	(4,093,000)	-	(4,898,000)	(4,093,000)	805,000
Interest Income	43,766	11,500	17,593	32,266	26,173	363,607	331,341	87,964	32,266	275,644	359,001	85,128	130,269	273,873	228,733
Net Cash Provided By (Used In) Investing Activities	43,766	11,500	17,593	32,266	26,173	2,145,781	2,113,515	(1,904,036)	32,266	4,049,818	2,141,175	85,128	(1,861,731)	2,056,047	4,002,507
FUND NET CASH FLOWS	1,378,474	1,466,528	1,642,658	(88,054)	(264,184)	4,495,731	4,583,785	(20,069)	(88,054)	4,515,800	3,938,128	762,612	1,359,980	3,175,517	2,578,148
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	1,255,759	1,287,059	1,434,776	(31,300)	(179,017)	14,872,086	14,903,387	12,502,118	(31,300)	2,369,969	18,962,767	21,822,513	15,021,652	(2,859,746)	3,941,115
Operating Expenses (Cash Based)	(1,007,276)	(1,214,890)	(1,058,303)	207,614	51,027	(11,627,670)	(11,835,284)	(9,311,848)	207,614	(2,315,822)	(14,187,705)	(14,260,307)	(11,516,992)	72,601	(2,670,713)
Interest Income	43,766	11,500	17,593	32,266	26,173	363,607	331,341	87,964	32,266	275,644	359,001	85,128	130,269	273,873	228,733
Annual Lease Payment (City)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Operating Revenues (Expenses)	78,134	28,640	2,419,569	49,494	(2,341,435)	1,332,774	1,283,280	3,407,066	49,494	(2,074,292)	1,816,323	877,900	3,186,707	938,423	(1,370,384)
Cash Available For Debt Service	370,383	112,309	2,813,634	258,073	(2,443,252)	4,940,798	4,682,725	6,685,300	258,073	(1,744,502)	6,950,386	8,525,235	6,821,636	(1,574,849)	128,750
Interest Paid	12,505	12,505	11,773	-	732	125,049	125,049	117,726	-	7,323	150,059	153,143	141,271	(3,084)	8,788
Debt Retirement (Principal Payments)	48,021	48,021	46,869	-	1,151	480,207	480,207	468,692	-	11,515	576,248	575,980	562,430	268	13,818
Total Debt Service	60,526	60,526	58,642	-	1,884	605,255	605,255	586,418	-	18,838	726,306	729,123	703,701	(2,817)	22,605
Debt Service Ratio	6.12	1.86	47.98	4.26	(41.86)	8.16	7.74	11.40	0.43	(3.24)	9.57	11.69	9.69	(2.12)	(0.12)

LEHIGH COUNTY AUTHORITY  
VARIANCE ANALYSIS - YTD  
For the Period Ended October 31, 2023

**STATEMENTS OF ACTIVITIES**

**Operating Revenues:**

User Charges  
Connection & System Charges  
Other Miscellaneous Revenues

**Total Operating Revenues**

**Operating Expenses:**

Personnel  
Shared Services - General & Administrative  
Utilities  
Materials and Supplies  
Miscellaneous Services  
Treatment and Transportation  
Depreciation and Amortization  
Major Maintenance Expenses  
Other Miscellaneous

**Total Operating Expenses**

**Net Operating Profit**

**Non-Operating Income (Expense)**

Interest Income  
Interest (Expense)  
Other Miscellaneous

**Net Non-Operating Income (Expense)**

**Net Income (Loss)**

**CASH FLOW STATEMENT**

**Cash Flows From Operating Activities**

Operating Revenues  
Operating Expenses (ex D&A)  
Non-Cash Working Capital Changes

**Net Cash Provided by (Used in) Operating Activities**

**Cash Flows From Financing Activities**

Capital Contributions  
Proceeds New Borrowing  
Interest Payments  
Principal Payments

**Net Cash Provided by (Used in) Financing Activities**

**Cash Flows from Capital and Related Activities**

Non-Operating Income (Expenses)  
Capital Expenditures, net

**Net Cash Provided By (Used In) Capital and Related Activities**

**Cash Flows From Investing Activities**

Investments Converting To Cash  
Purchased Investments  
Interest Income

**Net Cash Provided By (Used In) Investing Activities**

**FUND NET CASH FLOWS**

Suburban - Wastewater			
Actual	Q4 FC	FC Var	Comments
14,872,086	14,903,387	(31,300)	Unfavorable user charges more than offset by higher system charges and higher miscellaneous charges
1,271,311	1,237,658	33,654	
480	(4,080)	4,560	
<b>16,143,878</b>	<b>16,136,964</b>	<b>6,913</b>	
1,439,712	1,422,194	(17,518)	Operating expenses favorable across the board except for major maintenance
271,993	273,267	1,274	
201,088	207,822	6,734	
323,475	356,341	32,866	
5,880,201	6,011,378	131,177	
3,508,514	3,561,599	53,085	
5,153,466	5,153,466	-	
2,687	2,683	(4)	
-	-	-	
<b>16,781,136</b>	<b>16,988,750</b>	<b>207,614</b>	
<b>(637,259)</b>	<b>(851,786)</b>	<b>214,527</b>	Higher operating revenues along with lower operating expenses
363,607	331,341	32,266	Higher interest income
(130,577)	(130,676)	99	
60,983	49,702	11,281	
<b>294,013</b>	<b>250,368</b>	<b>43,646</b>	
<b>(343,245)</b>	<b>(601,418)</b>	<b>258,172</b>	Higher net operating income and higher interest income
16,143,878	16,136,964	6,913	Higher operating revenues along with lower operating expenses
(11,624,983)	(11,832,600)	207,618	
782,524	782,450	74	
<b>5,301,419</b>	<b>5,086,814</b>	<b>214,605</b>	
-	-	-	
-	-	-	
(123,444)	(123,819)	374	
(479,302)	(479,271)	(31)	
<b>(602,747)</b>	<b>(603,090)</b>	<b>343</b>	
60,983	49,702	11,281	
(2,409,705)	(2,063,157)	(346,548)	
<b>(2,348,722)</b>	<b>(2,013,454)</b>	<b>(335,268)</b>	Higher capex
5,381,174	5,381,174	-	Higher interest income
(3,599,000)	(3,599,000)	-	
363,607	331,341	32,266	
<b>2,145,781</b>	<b>2,113,515</b>	<b>32,266</b>	
<b>4,495,731</b>	<b>4,583,785</b>	<b>(88,054)</b>	Higher cash from operations more than offset by higher capex

LEHIGH COUNTY AUTHORITY  
FINANCIAL STATEMENTS - CITY DIVISION  
For the Period Ended October 31, 2023

STATEMENTS OF ACTIVITIES	City Division														
	Month					Year To Date					Full Year				
	Actual	Q4 FC	Prior Year	FC Var	PY Var	Actual	Q4 FC	Prior Year	FC Var	PY Var	Q4 FC	Budget	Prior Year	Bud Var	PY Var
Operating Revenues:															
User Charges	2,360,548	2,410,472	4,804,599	(49,924)	(2,444,051)	42,872,976	42,922,900	40,055,771	(49,924)	2,817,204	50,661,734	50,680,860	46,757,244	(19,126)	3,904,489
Connection & System Charges	409,082	279,360	371,591	129,722	37,491	4,178,449	4,048,728	3,924,163	129,722	254,287	4,426,588	4,096,600	8,334,971	329,988	(3,908,383)
Other Miscellaneous Revenues	11,350	1,450	4,470	9,900	6,880	95,847	85,947	120,970	9,900	(25,123)	116,207	69,300	214,662	46,907	(98,455)
Total Operating Revenues	2,780,980	2,691,282	5,180,660	89,698	(2,399,680)	47,147,272	47,057,574	44,100,904	89,698	3,046,369	55,204,529	54,846,760	55,306,877	357,769	(102,348)
Operating Expenses:															
Personnel	981,426	1,071,059	937,828	89,633	(43,598)	9,360,414	9,450,046	9,267,385	89,633	(93,029)	11,686,498	12,818,583	10,317,615	1,132,085	(1,368,883)
Shared Services - General & Administrative	140,432	182,430	133,307	41,998	(7,125)	1,671,907	1,713,905	1,368,111	41,998	(303,796)	1,899,435	2,197,452	1,605,755	298,017	(293,680)
Utilities	140,813	186,320	166,388	45,507	25,576	1,631,596	1,677,103	1,457,118	45,507	(174,478)	2,172,623	2,018,173	1,802,290	(154,450)	(370,333)
Materials and Supplies	292,799	215,830	160,388	(76,969)	(132,411)	2,522,905	2,445,936	1,709,842	(76,969)	(813,063)	3,145,206	2,621,000	2,227,858	(524,206)	(917,349)
Miscellaneous Services	163,968	122,220	115,474	(41,748)	(48,494)	1,479,180	1,437,432	1,228,720	(41,748)	(250,460)	2,129,759	2,112,700	1,807,096	(17,059)	(322,663)
Treatment and Transportation	-	-	-	-	-	5,220	5,220	5,625	-	405	12,600	14,318	11,594	1,718	(1,006)
Depreciation and Amortization	519,750	519,750	526,137	0	6,386	5,182,461	5,182,461	5,227,199	0	44,739	6,403,161	6,160,000	6,492,068	(243,161)	88,908
Major Maintenance Expenses	34,063	34,368	311,014	304	276,950	220,748	221,052	740,747	304	520,000	4,000,000	4,000,000	5,708,208	-	1,708,208
Other Miscellaneous	-	-	-	-	-	-	-	13,363	-	13,363	-	-	-	-	-
Total Operating Expenses	2,273,251	2,331,977	2,350,535	58,726	77,284	22,074,429	22,133,155	21,018,111	58,726	(1,056,318)	31,449,282	31,942,225	29,972,483	492,944	(1,476,798)
Net Operating Profit	507,729	359,305	2,830,124	148,424	(2,322,396)	25,072,843	24,924,419	23,082,793	148,424	1,990,050	23,755,247	22,904,535	25,334,393	850,712	(1,579,147)
Non-Operating Income (Expense)															
Interest Income	351,784	22,090	156,981	329,694	194,804	2,775,700	2,446,006	508,019	329,694	2,267,682	1,946,291	128,661	914,680	1,817,629	1,031,610
Interest (Expense)	(1,411,360)	(1,534,790)	(1,395,005)	123,430	(16,355)	(14,103,121)	(14,226,552)	(13,943,016)	123,430	(160,106)	(19,212,865)	(18,252,298)	(19,703,643)	(960,567)	490,778
Other Miscellaneous	(2,963)	-	-	(2,963)	(2,963)	(8,163)	(5,200)	-	(2,963)	(8,163)	(5,200)	-	-	(5,200)	(5,200)
Net Non-Operating Income (Expense)	(1,062,539)	(1,512,700)	(1,238,025)	450,161	175,486	(11,335,584)	(11,785,746)	(13,434,997)	450,161	2,099,413	(17,271,774)	(18,123,637)	(18,788,962)	851,862	1,517,188
Net Income (Loss)	(554,810)	(1,153,395)	1,592,100	598,585	(2,146,910)	13,737,259	13,138,674	9,647,796	598,585	4,089,463	6,483,473	4,780,898	6,545,431	1,702,575	(61,958)
CASH FLOW STATEMENT															
Cash Flows From Operating Activities															
Operating Revenues	2,780,980	2,691,282	5,180,660	89,698	(2,399,680)	47,147,272	47,057,574	44,100,904	89,698	3,046,369	55,204,529	54,846,760	55,306,877	357,769	(102,348)
Operating Expenses (ex D&A)	(1,719,437)	(1,777,859)	(1,513,385)	58,421	(206,053)	(16,671,221)	(16,729,643)	(15,050,165)	58,421	(1,621,057)	(21,046,121)	(21,782,225)	(23,480,415)	736,105	2,434,294
Non-Cash Working Capital Changes	(128,646)	(127,903)	(1,693,084)	(743)	1,564,438	(1,360,929)	(1,360,186)	(5,981,043)	(743)	4,620,115	(341,896)	0	(2,481,565)	(341,896)	2,139,669
Net Cash Provided by (Used in) Operating Activities	932,896	785,520	1,974,191	147,377	(1,041,295)	29,115,122	28,967,746	23,069,696	147,377	6,045,426	33,816,511	33,064,535	29,344,897	751,977	4,471,615
Cash Flows From Financing Activities															
Capital Contributions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Proceeds New Borrowing	-	-	-	-	-	1,371,118	1,371,118	-	-	1,371,118	1,371,118	1,200,000	-	171,118	1,371,118
Interest Payments	(1,130)	-	-	(1,130)	(1,130)	(5,743,229)	(5,742,999)	(5,755,505)	(1,130)	12,276	(11,717,006)	(11,788,844)	(11,670,361)	71,839	(46,645)
Principal Payments	(5,176)	-	-	(5,176)	(5,176)	(15,459)	(10,283)	-	(5,176)	(15,459)	(3,352,360)	(3,342,077)	(2,514,642)	(10,283)	(837,718)
Net Cash Provided by (Used in) Financing Activities	(6,306)	-	-	(6,306)	(6,306)	(4,387,570)	(4,381,264)	(5,755,505)	(6,306)	1,367,935	(13,698,247)	(13,930,921)	(14,185,003)	232,674	486,756
Cash Flows from Capital and Related Activities															
Non-Operating Income (Expenses)	(2,963)	-	-	(2,963)	(2,963)	(1,369,343)	(1,366,380)	(1,286,651)	(2,963)	(82,692)	(1,366,380)	(1,400,000)	(1,286,651)	33,620	(79,729)
Capital Expenditures, net	(34,063)	(1,447,500)	(2,310,477)	1,413,436	2,276,413	(5,809,815)	(7,223,251)	(8,235,900)	1,413,436	2,426,085	(11,293,298)	(15,191,000)	(11,946,618)	3,897,702	653,321
Net Cash Provided By (Used In) Capital and Related Activities	(37,027)	(1,447,500)	(2,310,477)	1,410,473	2,273,450	(7,179,158)	(8,589,631)	(9,522,551)	1,410,473	2,343,393	(12,659,678)	(16,591,000)	(13,233,269)	3,931,322	573,592
Cash Flows From Investing Activities															
Investments Converting To Cash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Purchased Investments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Income	351,784	22,090	156,981	329,694	194,804	2,775,700	2,446,006	508,019	329,694	2,267,682	1,946,291	128,661	914,680	1,817,629	1,031,610
Net Cash Provided By (Used In) Investing Activities	351,784	22,090	156,981	329,694	194,804	2,775,700	2,446,006	508,019	329,694	2,267,682	1,946,291	128,661	914,680	1,817,629	1,031,610
FUND NET CASH FLOWS	1,241,348	(639,890)	(179,305)	1,881,238	1,420,653	20,324,095	18,442,856	8,299,659	1,881,238	12,024,436	9,404,877	2,671,275	2,841,305	6,733,603	6,563,572
DEBT SERVICE RATIO															
Debt Service Ratio (Indenture Based)															
User Charges	2,360,548	2,410,472	4,804,599	(49,924)	(2,444,051)	42,872,976	42,922,900	40,055,771	(49,924)	2,817,204	50,661,734	50,680,860	46,757,244	(19,126)	3,904,489
Operating Expenses (Cash Based)	(1,753,501)	(1,812,226)	(1,824,399)	58,726	70,898	(16,891,969)	(16,950,695)	(15,790,912)	58,726	(1,101,057)	(21,046,121)	(21,782,225)	(17,772,207)	736,105	(3,273,914)
Interest Income	351,784	22,090	156,981	329,694	194,804	2,775,700	2,446,006	508,019	329,694	2,267,682	1,946,291	128,661	914,680	1,817,629	1,031,610
Annual Lease Payment (City)	(113,865)	(113,865)	(107,221)	-	(6,644)	(1,138,650)	(1,138,650)	(1,072,209)	-	(66,441)	(1,366,380)	(1,400,000)	(1,286,651)	33,620	(79,729)
Non-Operating Revenues (Expenses)	417,469	280,810	376,061	136,659	41,407	4,266,134	4,129,475	4,045,133	136,659	221,001	4,537,595	4,165,900	8,549,633	371,695	(4,012,038)
Cash Available For Debt Service	1,262,435	787,280	3,406,021	475,155	(2,143,586)	31,884,191	31,409,036	27,745,802	475,155	4,138,389	34,733,118	31,793,196	37,162,699	2,939,923	(2,429,581)
Interest Paid	976,417	976,417	972,530	-	3,887	9,764,171	9,764,171	9,725,301	-	38,871	11,717,006	11,788,844	11,670,361	(71,839)	46,645
Debt Retirement (Principal Payments)	279,363	279,363	209,554	-	69,810	2,793,633	2,793,633	2,095,535	-	698,098	3,352,360	3,342,077	2,514,642	10,283	837,718
Total Debt Service	1,255,780	1,255,780	1,182,084	-	73,697	12,557,804	12,557,804	11,820,836	-	736,969	15,069,365	15,130,921	14,185,003	(61,556)	884,362
Debt Service Ratio	1.01	0.63	2.88	0.38	(1.88)	2.54	2.50	2.35	0.04	0.19	2.30	2.10	2.62	0.20	(0.31)

**LEHIGH COUNTY AUTHORITY**  
**VARIANCE ANALYSIS - YTD**  
**For the Period Ended October 31, 2023**

**STATEMENTS OF ACTIVITIES**

**Operating Revenues:**

User Charges  
Connection & System Charges  
Other Miscellaneous Revenues

**Total Operating Revenues**

**Operating Expenses:**

Personnel  
Shared Services - General & Administrative  
Utilities  
Materials and Supplies  
Miscellaneous Services  
Treatment and Transportation  
Depreciation and Amortization  
Major Maintenance Expenses  
Other Miscellaneous

**Total Operating Expenses**

**Net Operating Profit**

**Non-Operating Income (Expense)**

Interest Income  
Interest (Expense)  
Other Miscellaneous

**Net Non-Operating Income (Expense)**

**Net Income (Loss)**

**CASH FLOW STATEMENT**

**Cash Flows From Operating Activities**

Operating Revenues  
Operating Expenses (ex D&A)  
Non-Cash Working Capital Changes

**Net Cash Provided by (Used in) Operating Activities**

**Cash Flows From Financing Activities**

Capital Contributions  
Proceeds New Borrowing  
Interest Payments  
Principal Payments

**Net Cash Provided by (Used in) Financing Activities**

**Cash Flows from Capital and Related Activities**

Non-Operating Income (Expenses)  
Capital Expenditures, net

**Net Cash Provided By (Used In) Capital and Related Activities**

**Cash Flows From Investing Activities**

Investments Converting To Cash  
Purchased Investments  
Interest Income

**Net Cash Provided By (Used In) Investing Activities**

**FUND NET CASH FLOWS**

City Division			
Actual	Q4 FC	FC Var	Comments
42,872,976	42,922,900	(49,924)	
4,178,449	4,048,728	129,722	
95,847	85,947	9,900	
<b>47,147,272</b>	<b>47,057,574</b>	<b>89,698</b>	Lower user charges more than offset by higher system and miscellaneous charges
9,360,414	9,450,046	89,633	
1,671,907	1,713,905	41,998	
1,631,596	1,677,103	45,507	
2,522,905	2,445,936	(76,969)	
1,479,180	1,437,432	(41,748)	
5,220	5,220	-	
5,182,461	5,182,461	0	
220,748	221,052	304	
-	-	-	
<b>22,074,429</b>	<b>22,133,155</b>	<b>58,726</b>	Favorable variances for personnel, G&A, and utilities, partially offset by higher spending on services and supplies
<b>25,072,843</b>	<b>24,924,419</b>	<b>148,424</b>	Higher operating revenues along with lower operating expenses
2,775,700	2,446,006	329,694	
(14,103,121)	(14,226,552)	123,430	
(8,163)	(5,200)	(2,963)	
<b>(11,335,584)</b>	<b>(11,785,746)</b>	<b>450,161</b>	Higher interest income and lower interest expense
<b>13,737,259</b>	<b>13,138,674</b>	<b>598,585</b>	Higher net operating income aided by favorable financial related activity

47,147,272	47,057,574	89,698	
(16,671,221)	(16,729,643)	58,421	
(1,360,929)	(1,360,186)	(743)	
<b>29,115,122</b>	<b>28,967,746</b>	<b>147,377</b>	Higher net operating income
-	-	-	
1,371,118	1,371,118	-	
(5,743,229)	(5,742,099)	(1,130)	
-	(10,283)	10,283	
<b>(4,372,111)</b>	<b>(4,381,264)</b>	<b>9,153</b>	
(15,459)	(10,283)	(5,176)	
(5,809,815)	(7,223,251)	1,413,436	
<b>(5,825,274)</b>	<b>(7,233,534)</b>	<b>1,408,260</b>	Lower capex
-	-	-	
-	-	-	
2,775,700	2,446,006	329,694	
<b>2,775,700</b>	<b>2,446,006</b>	<b>329,694</b>	Higher interest income
<b>21,693,438</b>	<b>19,798,953</b>	<b>1,894,484</b>	Higher cash from operations, higher interest income, and lower capex

LEHIGH COUNTY AUTHORITY  
CASH & INVESTMENT SUMMARY  
For the Period Ended October 31, 2023

	Suburban Water				Suburban Wastewater				City Division				Total			
	10/31/2023 Actual	2023 Forecast	2023 Budget	2022 Actual	10/31/2023 Actual	2023 Forecast	2023 Budget	2022 Actual	10/31/2023 Actual	2023 Forecast	2023 Budget	2022 Actual	10/31/2023 Actual	2023 Forecast	2023 Budget	2022 Actual
Cash																
Operating																
Unrestricted	1,097,020	11,189,014	7,075,935	5,207,096	1,853,363	11,701,305	4,964,460	900,454	16,344,803	17,938,819	23,660,027	8,682,833	18,892,366	40,829,138	35,700,423	14,790,383
Restricted	-	-	-	-	-	-	-	-	29,670,884	25,407,784	18,916,156	25,418,086	29,670,884	25,407,784	18,916,156	25,418,086
Total Operating	1,097,020	11,189,014	7,075,935	5,207,096	1,853,363	11,701,305	4,964,460	900,454	46,015,687	43,346,603	42,576,183	34,100,919	48,563,250	66,236,922	54,616,578	40,208,469
Capital																
Unrestricted	7,320,671	321,054	319,718	321,054	10,346,648	-	5,955,385	6,862,722	3,496,674	3,496,674	3,022,601	3,347,783	21,163,993	3,817,728	9,297,704	10,531,560
Restricted	-	-	-	-	340,900	338,677	338,360	338,677	7,530,864	7,530,864	7,500,035	7,520,562	7,871,764	7,869,541	7,838,396	7,859,239
Total Capital	7,320,671	321,054	319,718	321,054	10,687,548	338,677	6,293,745	7,201,399	11,027,538	11,027,538	10,522,636	10,868,345	29,035,757	11,687,269	17,136,099	18,390,798
Other Restricted																
Debt Reserves	4,141,006	1,656,568	1,648,569	1,656,568	-	-	-	-	36,585,602	28,335,482	28,976,677	28,335,482	40,726,608	29,992,050	30,625,246	29,992,050
Escrow - Developer Deposits	466,354	218,888	295,372	218,888	56,673	-	-	-	32,103	32,090	-	32,090	555,130	250,978	295,372	250,978
Total Other Restricted	4,607,360	1,875,456	1,943,942	1,875,456	56,673	-	-	-	36,617,705	28,367,571	28,976,677	28,367,571	41,281,738	30,243,027	30,920,619	30,243,027
Total Cash	13,025,052	13,385,525	9,339,595	7,403,606	12,597,585	12,039,982	11,258,205	8,101,853	93,660,930	82,741,712	82,075,496	73,336,835	118,880,745	108,167,219	102,673,296	88,842,294
Investments																
Operating																
Unrestricted	1,941,488	1,944,885	1,975,123	1,944,885	7,159,484	7,084,624	6,977,548	8,866,269	-	-	-	-	9,100,972	9,029,509	8,952,671	10,811,154
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating	1,941,488	1,944,885	1,975,123	1,944,885	7,159,484	7,084,624	6,977,548	8,866,269	-	-	-	-	9,100,972	9,029,509	8,952,671	10,811,154
Capital																
Unrestricted	1,057,472	1,000,184	1,000,000	1,000,184	-	-	-	-	-	-	-	-	1,057,472	1,000,184	1,000,000	1,000,184
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital	1,057,472	1,000,184	1,000,000	1,000,184	-	-	-	-	-	-	-	-	1,057,472	1,000,184	1,000,000	1,000,184
Other Restricted																
Debt Reserves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Escrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Other Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Investments	2,998,960	2,945,069	2,975,123	2,945,069	7,159,484	7,084,624	6,977,548	8,866,269	-	-	-	-	10,158,444	10,029,693	9,952,671	11,811,338
Total Cash and Investments	16,024,011	16,330,594	12,314,718	10,348,675	19,757,069	19,124,606	18,235,753	16,968,122	93,660,930	82,741,712	82,075,496	73,336,835	129,039,189	118,196,912	112,625,967	100,653,633
Summary																
Cash																
Unrestricted	8,417,691	11,510,069	7,395,653	5,528,150	12,200,012	11,701,305	10,919,845	7,763,176	19,841,477	21,435,493	26,682,628	12,030,616	40,056,359	44,646,866	44,998,126	25,321,942
Restricted	4,607,360	1,875,456	1,943,942	1,875,456	397,573	338,677	338,360	338,677	73,819,453	61,306,220	55,392,868	61,306,220	78,824,386	63,520,352	57,675,170	63,520,352
Total Cash	13,025,052	13,385,525	9,339,595	7,403,606	12,597,585	12,039,982	11,258,205	8,101,853	93,660,930	82,741,712	82,075,496	73,336,835	118,880,745	108,167,219	102,673,296	88,842,294
Investments																
Unrestricted	2,998,960	2,945,069	2,975,123	2,945,069	7,159,484	7,084,624	6,977,548	8,866,269	-	-	-	-	10,158,444	10,029,693	9,952,671	11,811,338
Restricted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Investments	2,998,960	2,945,069	2,975,123	2,945,069	7,159,484	7,084,624	6,977,548	8,866,269	-	-	-	-	10,158,444	10,029,693	9,952,671	11,811,338
Total Cash and Investments	16,024,011	16,330,594	12,314,718	10,348,675	19,757,069	19,124,606	18,235,753	16,968,122	93,660,930	82,741,712	82,075,496	73,336,835	129,039,189	118,196,912	112,625,967	100,653,633

CERTIFICATES OF DEPOSIT

October 2023

Fund		Bank	Location	Gross Amount	Date of Purchase	Date Due	Net Rate %
Cons Wtr (2)		Sybchrony Bank	Draper, UT	245,000.00	10/20/23	4/21/25	5.35

## DEVELOPMENT ACTIVITY

### **Water system construction is occurring in the following developments:**

7034 Ambassador Drive -Warehouse, UMT  
8323/8449 Congdon Hill Drive, 2 industrial lots with warehouses, LMT  
Chick-Fil-A Building redesign existing water line staying  
Estates at Maple Ridge, Water main extension-UMiLT  
Fields at Indian Creek, Phases 4 & 5, 86 residential units (sfd), water and sewer, UMiLT & Emmaus  
Kohler Tract, 123 residential lots (sfa), water and sewer, UMiLT  
Lehigh Hills, Lot 5 Phase 2, 240 residential units (sfd.), UMT  
Lehigh Hills Townhouses, 24 townhouse units (sfa), UMT  
Madison Village at Penn's View, 66 manufactured homes, 1 lot, water and sewer, LynnT  
Mosser Road 10 Townhouses,UMT  
Mountain View Estates, 27 residential units (sfd), LMT  
Parkland Crossings Main Extension 144 Town homes UMT  
Raising Canes 1 commercial lot LMT water  
Sauerkraut Lane Extension, Roadway & water line extension, LMT  
Spring Creek Properties, Lot 12, 1 lot, warehouse, LMT  
Trexler Point (Towns at Schaefer Run) 128 Townhouses UMT  
Trexler Center Unit 5-Wawa water,-LMT  
Wrenfield Townhouses 98 Townhomes UMT  
3369 Rt 100 Neighborhood Hospital & Medical Offices, 1 commercial lot, LMT  
7991 Quarry Road 1 lot, Warehouse,LMT

### **Water system plans are being reviewed for the following developments:**

2024 Elbow lane single home,LMT  
2619 Grove Street Sewer Main Extension,Washington Township  
3400 Brookside Road, Indian Creek- 26 Single family homes-Main extension, LMT  
3952 Independence Drive,NW  
4002 Chestnut Street water main extension,Umilford  
4054 Chestnut Street Single connection,Umilford  
Valley at Indian Creek 3510 Macungie Road 22 Single family homes-LMT  
5329-5347-5357 Hamilton Blvd., 1 commercial lot, LMT  
Advanced Health Care of Allentown, 1 commercial lot, LMT  
Air Products & Chemicals-Cetronia Road, 1 commercial lot, UMT  
ATAS International, 1 industrial lot, UMT  
Bandit Truck Stop Sewer Main Extension, WT  
Carriage East Residential Development, 11 residential units, (sfd), UMT  
Fallbrooke Residential Subdivision, 90 sf residential units, UMT  
Fields at Emmaus 78 Town Homes, UMT  
Glenlivet Drive West Main extension and subdivision  
Grant Street Townes, 18 Townhouse, WT  
Heidelberg Heights 10 Townhouses water ext on lot septic, HH  
Hidden Meadows - Phase 3, 20 townhouse units, UMT  
Lehigh Valley Town Center, Mixed use development, UMT  
Madison Village at Penn's View, 66 manufactured homes, 1 lot, water and sewer, LynnT  
Mertztown Residential Subdivision, 264 sf units & 136 townhouse units, LMT  
Schoeneck Road, Lot 1, 1 lot, warehouse, LMT  
Self-Storage Facility, Cedarbrook Road – 1 Commercial Lot, LMT  
Spring Creek Estates 2022 LMT 2 lots, 2 6 unit Apt, 8 single family homes, water  
Spring Creek Lot 12 1 Commercial Lot,LMT  
The Annex at Fields at Indian Creek, 22 sf residential units, Emmaus Borough  
Towneplace Suites by Marriott, 91-room hotel, UMT  
Towns At Schaefer Run, 128 townhouse unit (sfa), UMT  
Trexlertown Retail Center-UMT gas station, carwash  
Twin Ponds 8739 Hamilton Blvd 22 Apts and 1 Daycare UMT  
Upper Macungie Community Center UMT commercial lot, water and Main Extension  
Woodmont Valley 2, 129 apartment units (former Allen Organ Co.) LMT-New  
V Parkland 9230 Long Lane, 16 Single family homes, UMT.

### **Sewage Facilities Planning Modules Reviewed in Prior Month:**

### **GPD**

Valley at Indian Creek	3510 Macungie Rd	L Mac	4,906
Townhouses at 1910 Walnut St	1910 Walnut St	Allentown	714
366 W Allen St	366 W Allen St	Allentown	15,708
Schoeneck Park Minor Subdivision	7975 Creamery Rd	L Mac	669

Lehigh County Authority  
System Operations Review - October 2023  
Presented: November 27, 2023

		<u>Oct-23</u>	<u>2023 Totals</u>	<u>2022 Totals</u>	<u>2021 Totals</u>
Recordable Safety Incidents*	Total LCA	3	18	7	8
Non-Recordable Safety Incidents	Total LCA	1	13		
Incident Types **	Injuries	3	16		
	Property Damage	1	10		
	Near Miss	0	3		

\* Recordable Safety Incidents are those that result in death, days away from work, restricted duty, medical treatment beyond first aid.

\*\* Safety incidents may be categorized in more than one incident type.

<u>Year To Date Safety Incidents</u>		<u>Root Cause Analysis Completed</u>	<u>Corrective Actions Identified</u>	<u>Corrective Actions Completed</u>
		3	10	2
<u>Current Month Incidents</u>				
<u>Description</u>	<u>Date</u>	<u>Type</u>	<u>Root Cause(s)</u>	<u>Corrective Action(s)</u>
<b>Incident # 29</b> - Employee was turning right onto Union St. from S. Jefferson St going east. Employee was as close to the parked cars as possible when a car traveling west came too close to the center of road and hit driver's side mirror.	10/12/2023	Property Damage	Other vehicle came too close to LCA vehicle and hit mirror	
<b>Incident # 43</b> - Employee was moving water main fittings in the garage. Employee hurt his shoulder after moving a large valve.	10/4/2023	Injury	In Process	
<b>Incident # 57</b> - Employee strained his shoulder by turning a valve down for a main break.	10/14/2023	Injury	In Process	
<b>Incident # 58</b> - Employee hurt his other shoulder doing an 8x2 tap. Employee lost his balance on the ladder and hit his shoulder on the excavated wall.	10/31/2023	Injury	In Process	

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<u>Critical Activities</u>	<u>System</u>	<u>Description</u>	<u>Oct-23</u>	<u>2023 Totals</u>	<u>2022 Totals</u>	<u>Permit</u>
			<u>Daily Avg (MGD)</u>	<u>Daily Avg (MGD)</u>	<u>Daily Avg (MGD)</u>	<u>Daily Max (MGD)</u>
Water Production	Allentown	Total	22.21	22.70	22.47	39.0
		Schantz Spring	6.55	7.03	6.90	9.0
		Crystal Spring	3.91	3.89	3.87	4.0
		Little Lehigh Creek	11.66	11.74	11.68	30.0
		Lehigh River	0.09	0.04	0.03	28.0
	Central Lehigh	Total	10.66	11.42	11.30	19.04 MGD Avg
		Feed from Allentown	7.34	7.38	7.20	7.0 MGD Avg 10.5 MGD Max
		Well Production (CLD)	3.32	4.05	4.10	8.54 MGD Avg
		Sum of all (12) other Suburban Water Systems	0.14	0.13	0.14	1.71 Sum of all wells
Wastewater Treatment		Kline's Island	31.72	31.87	32.61	40.0
		Pretreatment Plant	4.68	4.82	5.06	5.75 (design capacity)
		Sum of all (5) other Suburban WW Systems	0.19	0.18	0.20	0.36
			<u>Oct-23</u>	<u>2023 Totals</u>	<u>2022 Totals</u>	<u>2021 Totals</u>
Precipitation Totals (inches)			1.64	34.84	46.47	44.67
Compliance Reports Submitted to Allentown			26	246	277	280
Notices of Violation (NOVs)		(Allentown + Suburban)	2	2	4	3
Sanitary Sewer Overflows (SSOs)/Bypasses		(Allentown + Suburban)	1	10	18	26
Main Breaks Repaired		Allentown	0	5	34	20
		Suburban	1	8	15	14
Customer Service Phone Inquiries		(Allentown + Suburban)	1041	9676	10,539	15,857
Water Shutoffs for Non-Payment		(Allentown + Suburban)	157	1680	1,975	1,773
Injury Accidents		(Allentown + Suburban)	3	18	7	8
Emergency Declarations		Allentown	0	2	(3) @ \$386,225.43	0
		Suburban	0	0	(4) @ \$933,077.1	(1) @ \$48,000
<u>Significant Repairs/Upgrades:</u>						
N/A						
<u>Description of Non-Compliance Events:</u>						
One SSO occurred in the Allentown Division at the intersection of Lehigh Street and Liberty Street. The SSO, which occurred on October 13th, was caused by a blockage of grease and rags. The estimated volume was ~20 gallons. A NOV was issued on October 30th by the City of Allentown for the exceedance of Kline's Island ammonia performance standard and failure to comply with odor compliant protocols. These events were the result of a solids discharge from the LCA Pretreatment Plant. A NOV was issued to the LCA Pretreatment Plant by the Allentown Division Pretreatment Program for the excessive solids discharge in August.						
<u>Other:</u>						
N/A						

Lehigh County Authority  
System Operations Review - October 2023

Presented: November 27, 2023

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<u>Critical Activities</u>	<u>System</u>	<u>Description</u>	<u>Oct-23</u>	<u>2023 Totals</u>	<u>2022 Totals</u>
Wastewater Compliance	Allentown	Bypass	0	1	2
		Bypass Volume	0	1,595	369,704
		Permit Exceedances	0	0	1
		Sanitary Sewer Overflows	1	2	3
		COA Issued NOVs	1	1	1
		Regulatory Agency issued NOVs	0	0	0
	Arcadia	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	0	2	7
		Sanitary Sewer Overflows	0	0	0
		NOVs	0	0	0
	Heidelberg Heights	Bypass	0	5	8
		Bypass Volume	0	475,882	1,392,261
		Permit Exceedances	0	11	16
		Sanitary Sewer Overflows	0	0	0
		NOVs	0	0	0
	Lynn	Bypass	0	0	2
		Bypass Volume	0	0	472,000
		Permit Exceedances	0	0	7
		Sanitary Sewer Overflows	0	0	1
		NOVs	0	0	0
	Sand Spring	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	3	33	77
		Sanitary Sewer Overflows	0	0	0
		NOVs	0	0	1
	Wynnewood	Bypass	0	0	0
		Bypass Volume	0	0	0
		Permit Exceedances	1	4	4
		Sanitary Sewer Overflows	0	2	0
		NOVs	0	0	0
Water Compliance	Allentown	Boil Water Advisories	0	2	1
	Central Lehigh	Boil Water Advisories	0	1	2
	Suburban Water Systems	Boil Water Advisories	0	2	4



## City of Allentown

Office of Compliance  
Department of Public Works  
641 South 10<sup>th</sup> Street, 3<sup>rd</sup> Floor  
Allentown, PA 18103  
(610) 437-7587

October 30, 2023

Ms. Liesel Gross  
Chief Executive Officer  
Lehigh County Authority  
1053 Spruce Street  
P.O. Box 3348  
Allentown, PA 18106

RE: NOTIFICATION OF VIOLATION

Dear Ms. Gross,

Lehigh County Authority (LCA) failed to comply with the Ammonia Nitrogen (NH<sub>3</sub>-N) effluent limit as stated in the Amended and Restated Concession Lease Agreement (CLA). This is a violation of Operating Standards (CLA §B3.2.1) which requires that "In addition, the Concessionaire shall meet the performance standards set forth in Table B-2."

Table B-2: Performance Standards

Parameter	Monthly Average Effluent Concentration	Weekly Average Effluent Concentration
Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	≤ 12 mg/L	mg/L
CBOD <sub>5</sub> Percent Removal	≥ 90 %	---
Total Suspended Solids (TSS)	≤12 mg/L	mg/L
TSS Percent Removal	≥90 %	---
Ammonia Nitrogen (NH <sub>3</sub> -N) May 1 to October 31	≤4.0 mg/L	---
Ammonia Nitrogen November 1 to April 30	≤12.4 mg/L	---
Fecal Coliform May 1 to September 31	≤200/100 ml geometric mean	
Fecal Coliform October 1 to April 30	≤2,000/100 ml geometric mean	
Residual Chlorine	≤0.5 mg/L	---
pH	6.0 – 9.0 SU	
Dissolved Oxygen	≥5.0 mg/L minimum	

In August 2023, the monthly average ammonia effluent concentration was 4.2 mg/L. This exceeds the Performance Standard of 4.0 mg/L.

No Operational Liquidated Damages will be assessed due to evidence provided by LCA noting actions due to the fault of others. (CLA §B3.2.3). *LCA Compliance Report to COA 09072023.*

Additionally, LCA failed to comply with the Kline's Island Wastewater Treatment Plant's (KIWWTP) odor control protocol. This is a violation of the Operating Standards (CLA §B3.6.2), in which, "Offsite odors will not be tolerated. In the event that an odor complaint is received, the Concessionaire will immediately visit the area in which the odor was detected and interview the individual making the complaint. Following the interview, the Concessionaire will tour the WWTP to identify potential sources and causes for the odor. The Concessionaire will immediately take action to mitigate the source and/or cause(s) of the odor."

From August 23, 2023 through September 15, 2023, LCA reported five odor complaints (*KIWWTP Odor Complaints COA Memo 09272023*):

1. 8/23/2023- complaint was addressed as possible manhole odor. LCA personnel were dispatched and jetted the sewer lines and deodorized. (*Email Odor Complaint at 628 S Front St*)
2. 8/25/2023- complainant noted odors occurring over three days from 10:00 p.m. to sunrise. LCA noted that stronger than normal odor detected at KIWWTP, near the primary settling tanks.
3. 8/31/2023- complainant from 8/23/2023 called again about odor and sensed that the odors were coming from KIWWTP. LCA personnel were dispatched to the area.
4. 9/1/2023- complainant noted odors from 10:00 p.m. to sunrise. LCA noted a slight odor detected at the entrance to KIWWTP, near the plastic media trickling filters (during flushing hours).
5. 9/6/2023- Complainant noted odor in the evening. LCA noted that a slight odor detected during the day.

In three of the five occurrences, documentation omits investigational visits by LCA to the areas in which the odor was detected. (CLA §B3.6.2)

When odor complaints were received in September and October 2022, the City opted not to issue a Notice of Violation nor assess Operational Liquidated Damages based on the City's investigation into the odors. At that time, LCA committed to ensuring that the procedures and protocols in the Operating Standards would be followed. The number, frequency, and verification of validity of odor complaints was confirmed by an initial statement in LCA's *September 27, 2023 Memorandum RE: Kline's Island Wastewater Treatment Plant Odor Complaints* "From August 23, 2023, to September 15, 2023, the Customer Care Department received five odor complaints which were traced back to Kline's Island." (*KIWWTP Odor Complaints COA Memo 09272023*). Operational Liquidated Damages can be assessed up to an amount of \$2,419.93 per occasion, however in consideration of LCA's proactive media outreach (*LCA press release KIWWTP-Odors-Public-Alert-September-8-2023*) to advise the community of potential for continuing odors emanating from KIWWTP the City is assessing Operational Liquidated Damages in the amount of \$300.00 per occasion for a total of \$1500.00. (CLA §3.6.3).

LCA must file a request for an appeal within seven (7) days of receipt of the Notice of Violation from the City. Unless appealed, payment of all Operational Liquidated Damages will be due within 30 days of receipt of the Notice of Violation, (CLA §B16.0.) If you have any questions regarding this matter, please contact me.

Sincerely,



Brian Chamberlain  
Compliance Auditor

Enclosures:

- LCA Compliance Report to COA 09072023
- Email Odor Complaint at 628 S Front St
- KIWWTP Odor Complaints COA Memo 09272023
- LCA press release KIWWTP-Odors-Public-Alert-September-8-2023



112 W Union Street \* ALLENTOWN, PA 18102  
610-398-2503 \* email: [service@lehighcountyauthority.org](mailto:service@lehighcountyauthority.org)  
[www.lehighcountyauthority.org](http://www.lehighcountyauthority.org)

October 2, 2023

Diana Heimbach  
Project Manager  
Jacobs  
7676 Industrial Blvd  
Allentown, PA18106

**RE: NOTIFICATION OF VIOLATION – SIGNIFICANT NONCOMPLIANCE**

Dear Ms. Heimbach,

A review of effluent data from the Lehigh County Authority Wastewater Treatment Plant (LCA WWTP), submitted electronically on September 14, 2023, indicates multiple violations of permit CPA000. As recorded in the report titled *2023 Monthly Report for Allentown*, the monthly average Total Suspended Solids (TSS) for August 2023 was 368 mg/L. Effluent solids loadings from the LCA WWTP varied throughout the month and totaled 495,441 pounds in August. The prior seven months of 2023 averaged 22,900 pounds per month of solids from the LCA WWTP effluent. This equates to approximately 22 times more solids in August than any other month in 2023. On August 23, 2023, staff from Jacobs, the responsible operator of the LCA WWTP, met with LCA staff and explained the cause of the discharges. The cause of the discharges appears to be related to the operational handling of mechanical issues related to the Final Settling Tank No. 2

While industrial waste permit CPA000 does not contain a numerical limit for TSS, there are multiple conditions within the permit that prohibit a discharge of this nature. These sections are noted below:

- A.5 Adverse Impact
- A.6 Facilities Operation
- A.7 Removed Substances
- A.17.a General Prohibited Substances
- A.17.b.iii General Prohibited Substances
- A.17.b.iv General Prohibited Substances
- A.17.b.viii General Prohibited Substances

The basis of the Environmental Protection Agency's Industrial Pretreatment Program is to implement National Pretreatment Standards to control pollutants which pass through or interfere with treatment processes in Publicly Owned Treatment Works, or which may contaminate sewage sludge.

The amount and rate of solids discharged by the LCA WWTP caused a significant treatment interference, as defined by the City of Allentown's *Sewage and Industrial Waste Ordinance* and 40 CFR 403.3(k), at the City of Allentown Wastewater Treatment Plant (COA WWTP), which is operated by LCA staff. Specifically, the excessive solids loading caused a nitrification inhibition, which jeopardized compliance with the COA WWTP's NPDES permit (PA-0026000) in August and September. The City of Allentown's *Sewage and Industrial Waste Ordinance* defines this type of

violation as Significant Noncompliance. Significant Noncompliance, at a minimum, requires the publication in a newspaper of general circulation that provides meaningful public notice within the jurisdictions served by the COA WWTP.

Jacobs staff have explained in detail the cause of the solids discharges from the LCA WWTP in August 2023, which to date has not been resolved. In response to this NOV, a compliance schedule **must be submitted within 30 days** of receiving this letter. The schedule must include an interim plan to stay in compliance with all conditions of permit CPA000 and a long-term plan to correct the mechanical deficiencies with the final settling tank to prevent recurrence. Under no circumstance should the schedule allow for the potential of a discharge of excess loadings which may cause interference at the COA WWTP. If the schedule is agreed upon, additional enforcement actions may be enacted.

The COA WWTP is reviewing and documenting actions and associated costs that were necessary to maintain compliance at the facility. Industrial waste permit CPA000 and the City of Allentown's *Sewage and Industrial Waste Ordinance* contains various stipulations to administer fines and recover incurred costs. Details regarding cost recovery and any applicable fines will be issued to you under separate notice.

This Notice of Violation is neither an order nor any other final action. It neither imposes nor waives any enforcement action available under the City of Allentown's *Sewage and Industrial Waste Ordinance*.

If you have any questions regarding this matter, please contact me at [andrewmoore@lehighcountyauthority.org](mailto:andrewmoore@lehighcountyauthority.org).

Sincerely,



Andrew Moore  
Director of Plant Operations  
Lehigh County Authority

CC:  
COA Office of Compliance  
Liesel Gross, LCA  
Ryan Shuart, EPA Region III