

LANCASTER AREA SEWER AUTHORITY

RESOLUTION

17-09-001

**RESOLUTION AMENDING RESOLUTIONS IMPOSING SEWER RENTALS
AND CHARGES FOR THE USE OF SEWER SYSTEM OF
LANCASTER AREA SEWER AUTHORITY;
PROVIDING FOR THE COLLECTION OF SUCH RENTALS AND CHARGES,
INCLUDING THE FILING OF LIENS
THEREFORE; AND AUTHORIZING RELATED ACTION**

WHEREAS, Lancaster Area Sewer Authority (the "Authority" or "LASA") maintains and serves the Boroughs of East Petersburg and Mountville, and the Townships of East Hempfield, West Hempfield, Lancaster, Manor and Manheim, Lancaster County, Pennsylvania, with its sewer system; and

WHEREAS, the Authority at a meeting duly called and held on June 21, 1972, adopted a Resolution entitled "Resolution Imposing Sewer Rental Charges for the Use of the Sewer System of Lancaster Area Sewer Authority; Providing for the Collection of such Rentals and Charges, Including the Filing of Liens Therefore; and Authorizing Related Action (the "Rate Resolution") to be effective as of June 21, 1972; and

WHEREAS, the Authority pursuant to the provisions of Section 4B (t) of the Municipality Authorities Act of 1945 (the Act of May 2, 1945, P.L. 382, as amended and supplemented), (the "Act") on December 20, 1973 adopted a "Resolution Imposing Tapping and Connection Fees"; and

WHEREAS, the Authority at a meeting duly called and held on May 22, 1997, adopted Resolution 97-05-001 amending, restating, and consolidating the aforesaid Resolutions into a document entitled "Schedule of Rates, Charges and Fees"; and

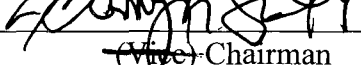
WHEREAS, the Authority has determined it is necessary to amend and restate in its entirety "Appendix BE" related to surcharge for treatment of B.O.D., T.S.S., T.P., and T.N.;

NOW, THEREFORE, BE IT RESOLVED by the Board of Lancaster Area Sewer Authority as follows:

1. Intent. It is the intent of the Authority, pursuant to this resolution to amend, restate, and approve Appendix BE of the "Schedule of Rates, Charges and Fees.

2. Amendments to Appendix BE. Appendix BE shall be amended and restated in its entirety to read as set forth on Exhibit A attached hereto.

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By: 
(Vice) Chairman

Attest: 
(Assistant) Secretary



Adopted: 9/28/17

EXHIBIT "A"

APPENDIX BE (AS AMENDED AND RESTATED SEPTEMBER 28, 2017)

SURCHARGE COST PER POUND FOR TREATMENT OF B.O.D., T.S.S., TP, and TN

THE FOLLOWING SURCHARGE COST PER POUND FOR THE YEARLY OPERATING EXPENDITURES DIRECTLY RELATED TO THE TREATMENT OF B.O.D., T.S.S., TP, AND TN WILL BECOME EFFECTIVE SEPTEMBER 28, 2017 AND WILL REMAIN IN EFFECT UNTIL NEW RATES ARE APPROVED BASED ON AUDITED EXPENDITURES FOR FISCAL YEAR 2017-18.

THE ATTACHED TABLES 1 - 4 DETAIL THE FACTORS AND EXPENDITURES WHICH WERE UTILIZED TO DERIVE THE COST PER POUND VALUES.

Surcharge Rates Per Pound

	BOD	TSS	TP	TN
Operating Costs (1)	\$2,011,061.23	\$2,081,457.28	\$481,796.70	\$1,895,826.99
Loadings (2)	6,188,968	9,419,671	123,944	1,238,379
cost/lb	\$0.32	\$0.22	\$3.89	\$1.53
Capacity cost/lb (3)				\$2.08
Total cost/lb	\$0.32	\$0.22	\$3.89	\$3.61

Note1 - From Table 3 - Operations and Maintenance Costs

Note 2 - From Table 2 - Organic Loadings

Note 3 - From Table 4 - Capacity Cost Per Pound of Nitrogen

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SUSQUEHANNA WATER POLLUTION CONTROL PLANT
INDUSTIAL WASTE SURCHARGE ANALYSIS

TABLE 1
ALLOCATION OF UNIT PROCESS CAPACITY TO TREATMENT OF POLLUTANTS

Description	Allocation of Pollutant Percentage				
	Flow	BOD	TSS	TP	TN
Preliminary	67%	10%	15%	5%	3%
Primary	6%	40%	50%	2%	2%
Activated Sludge	5%	44%	1%	10%	40%
Final Clarifier	3%	32%	60%	4%	1%
Disinfection	86%	2%	6%	3%	3%
Solids	4%	21%	31%	7%	37%

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SUSQUEHANNA WATER POLLUTION CONTROL PLANT

TABLE 2
ORGANIC LOADINGS FOR PERIOD APRIL 1, 2016 - MARCH 31, 2017

LASA 2016-17 Monthly Pollutant Averages				
	BOD	TSS	TP	TN
Month	lbs	lbs	lbs	lbs
April	16,156	27,760	314.433404	3,333.2
May	16,595	27,288	307.636619	3,613.0
June	16,412	21,050	310.612659	3,357.5
July	15,959	22,753	279.97384	3,250.0
August	16,314	27,110	298.938391	3,406.1
September	17,102	30,735	374.328898	3,510.1
October	17,704	32,235	428.940859	3,642.1
November	18,346	25,918	447.053406	3,646.9
December	18,526	24,863	384.736097	3,509.7
January	16,507	23,751	328.932153	3,144.8
February	17,505	22,799	311.47795	3,217.4
March	16,407	23,208	287.947007	3,075.0
Annual	6,188,968	9,419,671	123,944	1,238,379

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COST OF OPERATION DETAIL FOR YEAR ENDING MARCH 31, 2017

TABLE 3
OPERATIONS AND MAINTENANCE COSTS (1)

Description	Total \$	BOD	TSS	TP	TN
Preliminary	\$732,853.29	\$73,285.33	\$109,927.99	\$36,642.66	\$21,985.60
Primary	\$734,795.96	\$293,918.38	\$367,397.98	\$14,695.92	\$14,695.92
Activated Sludge	\$1,478,264.76	\$650,436.49	\$14,782.65	\$147,826.48	\$591,305.90
Final Clarifier	\$867,413.17	\$277,572.22	\$520,447.90	\$34,696.53	\$8,674.13
Disinfection	\$399,379.17	\$7,987.58	\$23,962.75	\$11,981.38	\$11,981.38
Solids	\$3,370,767.75	\$707,861.23	\$1,044,938.00	\$235,953.74	\$1,247,184.07
Total	\$7,583,474.10	\$2,011,061.23	\$2,081,457.28	\$481,796.70	\$1,895,826.99

Note 1 - Treatment costs, including labor, materials, overhead, and debt service, are charged as cost centers to each of the various treatment processes shown

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CAPACITY COST PER POUND OF NITROGEN FOR YEAR ENDED MARCH 31, 2017

TABLE 4
CAPACITY COST PER POUND OF NITROGEN

Total Capacity/gallon		\$6.59
Baseline nitrogen		40 mg/l
Pounds of nitrogen per gallon		0.0003336
Capacity cost per pound of nitrogen	\$	19,741.08
Weighted average life expectancy of treatment plant assets		26 years
Cost per day per pound of nitrogen	\$	<u>2.08</u>