

December 22, 2023

To the Joint Meeting

Ladies and Gentlemen:

ANNUAL REPORT OF THE SEWAGE CONTRIBUTION
OF THE MUNICIPALITIES ORGANIZED IN
JOINT MEETING FOR THE PURPOSE OF
ASSESSMENT FOR THE YEAR 2024

I present herewith the 89th Annual Report for the eleven municipalities organized in Joint Meeting, covering their respective contribution to Section One of the Supplementary Joint Trunk Sewer and to the Treatment Plant, as called for under the terms of the 1926 Contract.

Article X of the 1926 Contract requires that an estimate be made for the purpose of assessing the costs of maintenance and operation each year.

In order that the amount of work necessary for the preparation of this estimate be completed in time for consideration by the Joint Meeting before the date specified by law for the adoption of the new budget, it has been customary to use the twelve-month period immediately prior thereto as the basis of consideration for the assessment purpose only.

You will please note that this is the first of the two Annual Reports prepared each year, and that it covers the twelve-month period from November 1, 2022 through October 31, 2023. Subsequently, at the beginning of each succeeding year, a second and final report is prepared covering the previously completed calendar year, which coincides with the fiscal year of the Joint Meeting.

Pursuant to the Federal Water Pollution Control Act Amendments of 1972, PL 92-500 and as a requirement of our Construction Grant for the expansion in Secondary Treatment, a "User Charge System" is used to apportion the operation and maintenance costs for the Joint Meeting for 2024. During the year 1978, a User Charge System was prepared and adopted by the member municipalities and is entitled "An Ordinance Establishing and Defining User Charges in Connection with the Collection and Treatment of Wastewater and Providing for the Payment of Said User Charges". During the year 2023, this "User Charge System" was utilized by the various municipalities for collection of the charges associated with the operation and maintenance of the trunk sewer system, the treatment plant, and the Sludge Dewatering Facility, the percentage of assessment based upon a report dated December 16, 2022.

During 2023, the various municipalities computed the actual dwelling units for each of their respective towns in accordance with the revised schedule included in the Sewer Use Ordinance. Table II depicts the new (2024) dwelling unit figures formulated by each municipality in 2023.

It should be noted that the methodology used to assess the City of Elizabeth for services rendered by the Joint Meeting is based on quantity and quality of sewage as measured at the Trenton Avenue Pumping Station, plus the Equivalent Dwelling Units (EDU's) tributary to the gravity Joint Meeting sewer through the Elmore Avenue Area in Elizabeth, plus the tributary area from the City of Linden. This methodology was approved by the Joint Meeting and the Elizabeth City Council. The percentage used in this assessment report for the City will be based upon a twelve (12) month, 365 day period of November 1, 2022, through October 31, 2023 and projected for a twelve (12) month period in 2024. This allocation will be assessed and paid in accordance with the member municipalities billing procedure. Then, based on the analysis of the samples taken at the Trenton Avenue Pumping Station, an adjustment is made (on a quarterly basis) to the percent allocation from the City. At the end of 2024, utilizing twelve (12) months of data, the actual percent contribution by the City will be calculated and certified thereto.

The accompanying computations include the total Dwelling Unit number of 47,181 for the City. (This Equivalent Dwelling Unit number was computed by Elson T. Killam Associates during the period November 8, 1979 and December 12, 1979 and revised by the City Engineer on February 9, 1982).

USER CHARGE APPORTIONMENT

Set forth below are the basis factors concerning flow, waste characteristics and projected cost of operations of the Facilities derived for the 365 day period from November 1, 2022 through October 31, 2023, and projected for 2024 and are based upon actual 2022-2023 operating statistics as well as a recent upgraded 2023 industrial waste survey. The industrial waste figures take into consideration actual yearly operational time for each industry (i.e., 5 day or 7 day working week, etc.).

1.	Flow	20,736.7930 MG/Year	56.8131 MGD
2.	BOD	19,027.0720 Tons/Year	104,257.9288 Lbs/Day
	TSS	15,675.8586 Tons/Year	85,895.1156 Lbs/Day
3.	Estimated Industrial Flow	572.7470 MG/Year	1.5692 MGD
4.	Estimated Industrial BOD	6,290.3544 Tons/Year	34,467.6953 Lbs/Day
5.	Estimated Industrial TSS	661.6207 Tons/Year	3,625.3189 Lbs/Day
6.	Estimated Total Operating Expenses in 2024		
			\$31,262,795 STP
			10,516,449 SDWF
			310,822 SDF
			1,802,153 Sewers
			<hr/> \$43,892,224 Total
7.	Estimated Total Dwelling Units in System		
			150,609 JM Members
			47,181 Elizabeth
			<hr/> 197,790 Total

In addition to the foregoing, it has been determined that the following cost allocations would fairly represent the actual costs of treatment.

Flow	34.2053141%
BOD	43.8508508%
Suspended Solids	21.9438351%

The basis for these cost allocations is set forth in Appendix A.

Based upon the foregoing allocations, Table I has been prepared which shows the projected and estimated flow and waste characteristics for 2024 and the projected estimated cost allocation between domestic sewage treated from residential and commercial establishments, and the industrial waste treatment reflecting industrial flow from industries in the collection system. This system takes into consideration the fact that the City of Elizabeth does not use the trunk sewer and will accordingly not be charged for its use. The trunk sewer charge is assessed only against member municipalities, and their respective industries.

Table I
Joint Meeting of Essex & Union Counties
Estimated Flow Waste Characteristics and Cost Allocation for Treatment in 2024

Treatment Plant

	<u>Total for 2024</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	20,736.7930 MG/Yr. ¹	20,164.0460 MG/Yr.	572.7470 MG/Yr.
BOD	19,027.0720 Tons/Yr. ¹	12,736.7176 Tons/Yr.	6,290.3544 Tons/Yr.
Suspended Solids	15,675.8586 Tons/Yr. ¹	15,014.2379 Tons/Yr.	661.6207 Tons/Yr.

(1) Based upon data from November 1, 2022 thru October 31, 2023 (365 days)

Cost Allocation

	<u>Total for 2024</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	\$14,395,329.00	\$13,997,732.00	\$397,597.00
BOD	18,454,659.50	12,353,545.00	6,101,114.50
Suspended Solids	9,235,077.50	8,845,299.00	389,778.50
	\$42,085,066.00	\$35,196,576.00	\$6,888,490.00
	100.000000%	83.63198480%	16.36801520%

Elizabeth Contribution

Flow	-	5,779.6820 MG/Yr.
BOD	-	7,694.5122 Tons/Yr.
TSS	-	3,705.8188 Tons/Yr.

Trunk Sewer Flow¹

	<u>Total for 2024</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
	14,957.1110 MG/Yr. ²	14,564.2410 MG/Yr.	392.870 MG/Yr.

(1) Based upon data from November 1, 2022 thru October 31, 2023 (365 days)

(2) (20,736.793 - 5,779.6820)

COST ALLOCATION

\$1,802,153.00	\$1,754,816.86	\$47,336.14
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Member municipalities will be assessed \$11.65 (\$1,754,816.86/150,609) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$694.19 per MG for flow, \$969.92 per ton of BOD, and \$589.13 per ton of suspended solids. These estimates are predicated upon the cost allocation to industry and the estimates of flow and strength characteristics of the industrial waste, all as indicated on Table I. These costs were determined as follows:

Flow	\$397,597.00	/	572.7470	=	\$694.1930730	/MG
BOD	\$6,101,114.50	/	6,290.3544	=	\$969.9158604	/Ton
Suspended Solids	\$389,778.50	/	661.6207	=	\$589.1268215	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$120.49/MG of flow for trunk sewer use (\$47,336.14/392.870 = \$120.488/MG). This brings the total flow cost to \$814.68/MG (\$694.193 + \$120.488) for the indicated industries of member municipalities.

Based upon the user charges for 2024, a computation has been made to show the budget prepayment for each municipality of the Joint Meeting. These estimates are subject to revision annually, dependent upon the actual number of dwelling units which must be determined for each municipality in accordance with the schedule of dwelling units set forth in the ordinance. In addition thereto, the computation for the industrial user charges has been based upon actual calculations of flow and waste characteristics for the industries in the district as a result of the 2023 industrial waste survey of the service area. These are estimates for 2024 and must be verified on an annual basis to reflect the actual flow and waste characteristics.

The basis for the industrial waste flow and characteristics are set forth in Appendix B of this report. The dwelling unit figures have been compiled by each municipality with the exception of Elizabeth in accordance with the revised Schedule of Dwelling Units incorporated into the User Charge Ordinance.

Table VII sets forth the cost to each municipality to establish the budget requirements of \$43,892,224.00 for 2024. However, it should be noted that in accordance with the Agreement between the Joint Meeting and the City of Elizabeth noted previously, and as a result of the monitoring of the Trenton Avenue Pumping Station, the City would provide for 34.3512954% of the treatment plant, sludge dewatering facility and sludge drying facility budgets initially with adjustments made quarterly. Upon completion and verification of the quality and quantity of the City's contribution as measured at the Trenton Avenue Pumping Station, plus the EDU's from the Elmora Avenue area, plus the City of Linden's contribution, an adjustment will then be made for the member municipalities.

Table II
Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Municipality Dwelling Units and Industrial User Charge
2024

<u>Municipality</u>	<u>Dwelling Units ¹</u>	<u>User Charges Industrial</u>
East Orange	7,983	\$ -
Hillside	8,573	1,964,406
Irvington	25,995	554,572
Maplewood	9,957	20,797
Millburn	10,196 ⁴	-
Newark	13,048	-
Roselle Park	4,987	937
South Orange	8,432	-
Summit	14,393 ²	61,582 ³
Union	26,242	682,800
West Orange	20,803	-
Elizabeth	47,181	3,650,732
	<u>197,790</u>	<u>\$ 6,935,826</u>

(1) Based on actual calculation and verification by Municipalities; City of Elizabeth computed by Elson T. Killam Associates in 1979 and updated by City Engineer on February 9, 1982.

(2) Includes New Providence (3505)

(3) Includes Murray Hill

(4) Includes Livingston (485)

Table III
Joint Meeting of Essex and Union Counties
Computation of Estimated Percent
Contribution By City of Elizabeth
For Period 11/1/2022-10/31/2023 and Projected Contribution for 2024

Flow:	<u>Treatment Plant</u> 20,736.793 MG	<u>Elizabeth Pumping Station</u> 5,779.682 MG		<u>Joint Meeting</u> 14,957.111 MG	
		<i>Industrial</i>	<i>D&C</i>	<i>Industrial</i>	<i>D&C</i>
		166.49	5,613.192	392.87	14,564.241
		\$ 115,576.20	\$ 3,896,639.00	\$ 320,063.77	\$ 11,865,212.21
Unit Charge	\$ 694.1930730 Per MG for Elizabeth				
Unit Charge	\$ 814.6811225 Per MG for Joint Meeting				
BOD:	19,027.072 Tons	7,694.5122 Tons		11,332.5598 Tons	
		<i>Industrial</i>	<i>D&C</i>	<i>Industrial</i>	<i>D&C</i>
		3,438.824	4,255.6882	2,801.7356	8,530.8242
Unit Charge	\$969.9158604 Per Ton	\$ 3,335,369.94	\$ 4,127,659.48	\$ 2,717,447.80	
TSS:	15,675.8586 Tons	3,705.8188 Tons		11,970.0398 Tons	
		<i>Industrial</i>	<i>D&C</i>	<i>Industrial</i>	<i>D&C</i>
		231.4874	3,474.3314	420.2525	11,549.7873
Unit Charge	\$589.1268215 Per Ton	\$ 136,375.44	\$ 2,046,821.81	\$ 247,582.02	
		\$ 13,658,441.87		\$ 3,285,093.59	

City of Elizabeth (Contribution from Pumping Station) \$ 13,658,441.87

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

Flow:	13.3870 MG/Year at	\$ 694.1930730	9,293.16
BOD:	49.7948 Tons/Year at	969.9158604	48,296.77
TSS:	9.8808 Tons/Year at	589.1268215	5,821.04

Joint Meeting Industrial	3,285,093.59
Subtotal	\$ 17,006,946.43

Total 2024 Budget	\$ 43,892,219.00
Subtotal (above)	(17,006,946.43)
Subtotal (EDU's)	\$ 26,885,272.57

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 26,885,273
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)
 150,609 (X + \$11.651474082) + 4548 (X) = \$ 26,885,273

Equivalent Units-Member Municipalities 150,609

Elmora EDU's = 4,548 \$ 161.9679145000 Per Unit = X
 \$ 173.6193885820 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 26,148,642.49
 Elmora Area Assessment \$ 736,630.08

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 13,658,441.87
 Elmora EDU's 736,630.08
 Elmora Industrial 63,410.97

 \$ 14,458,482.92

Total Anticipated Payment from Member Municipalities

EDU's 26,148,642.49
 Industrial 3,285,093.59

 \$ 29,433,736.08

Estimated Percent Contribution of Treatment Plant, Sludge Dewatering and Sludge Drying Facility Budgets by City of Elizabeth

\$ 14,458,482.92 / \$ 42,090,066.00 = 34.3512954%

Table IV
Joint Meeting of Essex and Union Counties
Percent Allocation of Infiltration / Inflow

Municipality	Capacity By Contract (MGD)	Capacity By Contract (Percent)	Base Year - 1982 Phase IIB - SSES ¹		SSES - November 2023		Base Year - 1982 Phase IIB - SSES ²		SSES - November 2023	
			Infiltration (GPD) ³	(Percent)	(GPD) ⁴	(Percent)	Inflow (GPD)	(Percent)	(GPD) ⁵	(Percent)
East Orange	5.50	4.88%	70,747	2.11%	34,172 44,022	2.53%	3,007,440	5.79%	330,380 218,160	0.65%
Hillside	12.20	10.83%	79,012	2.36%	25,663 32,980	1.90%	1,185,120	2.28%	1,789,135 1,185,120	3.52%
Irvington	18.61	16.52%	1,115,672	33.31%	416,551 536,583	30.84%	8,612,640	16.57%	10,236,701 6,782,445	20.14%
Maplewood	7.08	6.29%	389,078	11.62%	153,033 197,233	11.33%	5,449,680	10.48%	2,866,683 1,897,920	5.64%
Millburn	6.00	5.33%	191,609	5.72%	118,185 152,240	8.75%	2,729,520	5.25%	3,522,360 2,333,520	6.93%
Newark	15.50	13.76%	234,484	7.00%	145,604 187,506	10.78%	1,959,540	3.77%	2,892,097 1,915,875	5.69%
Roselle Park	9.44	8.38%	106,187	3.17%	50,516 65,147	3.74%	1,576,080	3.03%	2,378,737 1,576,080	4.68%
South Orange	7.00	6.22%	410,876	12.27%	65,103 83,906	4.82%	2,183,760	4.20%	2,658,289 1,761,840	5.23%
Summit	7.50	6.66%	171,657	5.13%	50,245 64,802	3.72%	3,651,120	7.02%	2,282,164 1,512,000	4.49%
Union	10.30	9.14%	329,127	9.83%	182,072 234,523	13.48%	14,534,640	27.96%	12,193,568 8,079,280	23.99%
West Orange	13.50	11.99%	250,811	7.48%	109,541 141,147	8.11%	7,097,040	13.65%	9,677,597 6,413,400	19.04%
	112.63	100.00%	3,349,260	100.00%	1,350,685 1,740,089	100.00%	51,986,580	100.00%	50,827,711 33,675,640	100.00%

(1) Identified by Hazen & Sawyer Phase IIB SSES (pg. S-2) with trunk sewer infiltration allocated based on contract capacity.

(2) Identified by Hazen & Sawyer Phase IIB SSES (pg. S-3)

(3) "Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD = 6.346%

(4) 2023 - Infiltration related to base year total = 1.740 MGD / 52.79 MGD = 3.29607880%

- Adjusted for period 11/1/2022 - 10/31/2023; (3.29607880% x 14,957.1110 = 493 MG/ Year / 365 = 1,350,685 GPD)

(5) 2023 inflow adjusted for period 11/1/2022 - 10/31/2023 - (50.14" / 33.22") x (33,675,640) = 50,827,711 GPD

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 2023 - Summary of Infiltration and Inflow

Municipality	Phase IIB SSES Infiltration (GPD)	2022 Infiltration (GPD)	2023 Infiltration Removed (GPD)	2023 Infiltration (GPD)	Phase IIB SSES Inflow (GPD)	2022 Inflow (GPD)	2023 Inflow Removed (GPD)	2023 Inflow (GPD)
East Orange	70,747	44,022	-	44,022	3,007,440	218,160	-	218,160
Hillside	79,012	32,980	-	32,980	1,185,120	1,185,120	-	1,185,120
Irvington	1,115,672	536,583	-	536,583	8,612,640	6,782,445	-	6,782,445
Maplewood	389,078	197,233	-	197,233	5,449,680	1,897,920	-	1,897,920
Millburn	191,609	152,240	-	152,240	2,729,520	2,333,520	-	2,333,520
Newark	234,484	187,506	-	187,506	1,959,540	1,915,875	-	1,915,875
Roselle Park	106,187	65,147	-	65,147	1,576,080	1,576,080	-	1,576,080
South Orange	410,876	83,906	-	83,906	2,183,760	1,761,840	-	1,761,840
Summit	171,657	64,802	-	64,802	3,651,120	1,594,800	82,800	1,512,000
Union	329,127	234,523	-	234,523	14,534,640	8,079,280	-	8,079,280
West Orange	250,811	141,147	-	141,147	7,097,040	6,413,400	-	6,413,400
Total	3,349,260	1,740,089	-	1,740,089	51,986,580	33,758,440	82,800	33,675,640

Table V
Joint Meeting of Essex and Union Counties
Cost Allocation - Flow, BOD & TSS with Infiltration / Inflow

		<u>Total</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow		14,957.1110 MG \$11,390,235.09	14,564.2410 MG \$11,070,171.32	392.8700 MG \$320,063.77
Infiltration	3.2960788%	493.00	480.05	12.95
Inflow	13.8249960%	2,067.82	2,013.51	54.31
BOD	at \$969.9158604 Per Ton	11,332.5598 Tons \$10,991,629.49	8,530.8242 Tons \$8,274,181.69	2,801.7356 Tons \$2,717,447.80
TSS	at \$589.1268215 Per Ton	11,970.0398 Tons \$7,051,871.50	11,549.7873 Tons \$6,804,289.48	420.2525 Tons \$247,582.02
Total		\$29,433,736.08 ¹	\$26,148,642.49	\$3,285,093.59

(1) Amount anticipated from Members after allocation of 34.3512954% to City of Elizabeth \$ 14,458,482.92

"Base Year - 1982"

Infiltration: 3.35 MGD / 52.79 MGD = 6.34590% (Per H&S Phase IIB Report)

Inflow: 113 MGD (Excluding Elizabeth) / 137 MGD (Total) = 82.4817518% 1 inch of rain = 50 MG of inflow (Per H&S Phase IIB Report)

"2022 - 2023"

Infiltration: 1.740 MGD/52.79MGD = 3.29607880% X 14,957.1110 493 MG / Year
 (November 1, 2022 - October 31, 2023)

Inflow: Rainfall = 50.14 Inches X 50 MG X 82.482% 2,067.82 MG / Year

Total D&C	\$26,148,642.49
Less: Infiltration	(364,882.44)
Less: Inflow	(1,530,453.98)
Net after infiltration and inflow	<u>\$24,253,306.07</u>
Equivalent Dwelling Units	150,609
User Charge Per Unit	\$161.03490541734

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2024

Municipality	Dwelling Units	User Charge		Inflow		Total Cost	Unit Cost	
		\$ 161.03490542 Per Unit	Percent ¹	Amount	Percent ²			Amount
East Orange	7,983	\$1,285,541.65	2.53%	\$9,231.53	0.65%	\$9,947.95	\$1,304,721.13	\$163.4374
Hillside	8,573	1,380,552.24	1.90%	6,932.77	3.52%	53,871.98	1,441,356.99	168.1275
Irvington	25,995	4,186,102.37	30.84%	112,529.74	20.14%	308,233.43	4,606,865.54	177.2212
Maplewood	9,957	1,603,424.55	11.33%	41,341.18	5.64%	86,317.60	1,731,083.33	173.8559
Millburn	10,196 ³	1,641,911.90	8.75%	31,927.21	6.93%	106,060.46	1,779,899.57	174.5684
Newark	13,048	2,101,183.45	10.78%	39,334.33	5.69%	87,082.83	2,227,600.61	170.7235
Roselle Park	4,987	803,081.07	3.74%	13,646.60	4.68%	71,625.25	888,352.92	178.1337
South Orange	8,432	1,357,846.32	4.82%	17,587.33	5.23%	80,042.74	1,455,476.39	172.6134
Summit	14,393 ⁴	2,317,775.39	3.72%	13,573.63	4.49%	68,717.38	2,400,066.40	166.7523
Union	26,242	4,225,877.99	13.48%	49,186.15	23.99%	367,155.91	4,642,220.05	176.9004
West Orange	20,803	3,350,009.14	8.11%	29,591.97	19.04%	291,398.44	3,670,999.55	176.4649
	150,609	\$24,253,306.07	100.00%	\$364,882.44	100.00%	\$1,530,453.97	\$26,148,642.48	\$173.6194

(1) See Table IV - Infiltration for November of the Prior Year

(2) See Table IV - Inflow for November of the Prior Year

(3) Includes Livingston (485)

(4) Includes New Providence (3505)

\$153.2790 2023
\$159.4100 2022
\$147.2083 2021
\$145.3391 2020

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2024

Municipality	Industrial									
	BOD (Tons / Year)	BOD ¹ (\$/Year)	TSS (Tons / Year)	TSS ² (\$/Year)	Flow (MG / Year)			Flow ³ (\$/Year)	Total Cost	
					Dry Weather	Infiltration 3.296079%	Inflow 13.824996%			Total
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	1,756.4124	1,703,572.24	175.6967	103,507.64	160.05	6.37	26.70	193.11	157,325.52	1,964,405.40
Irvington	527.9427	512,060.00	15.8073	9,312.50	33.77	1.34	5.63	40.75	33,199.07	554,571.57
Maplewood	13.3783	12,975.83	2.4446	1,440.18	6.49	0.26	1.08	7.83	6,380.58	20,796.59
Millburn	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roselle Park	0.2364	229.29	0.2674	157.53	0.56	0.02	0.09	0.68	549.91	936.73
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summit ⁴	14.5445	14,106.94	16.6015	9,780.39	38.35	1.53	6.40	46.27	37,695.30	61,582.63
Union	489.2213	474,503.50	209.4350	123,383.78	86.38	3.44	14.41	104.23	84,913.40	682,800.68
West Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<u>2,801.7356</u>	<u>\$ 2,717,447.80</u>	<u>420.2525</u>	<u>\$247,582.02</u>	<u>325.61</u>	<u>12.95</u>	<u>54.32</u>	<u>392.87</u>	<u>\$320,063.77</u>	<u>\$3,285,093.59</u>

(1) At \$969.9158604/Ton
(2) At \$589.1268215/Ton
(3) At \$814.6811225/MG
(4) Includes Murray Hill

Table VII
Joint Meeting of Essex and Union Counties
Summary of Estimated Annual Operational and Maintenance Expenses To Member Municipalities
2024

Domestic & Commercial					
Municipality	Total Assessments ¹	User Charge Domestic Sewage 161.0349054	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$1,304,721.13	\$1,285,541.65	\$0.00	\$19,179.48	4.4327%
Hillside	3,405,762.39	1,380,552.24	1,964,405.40	60,804.75	11.5709%
Irvington	5,161,437.11	4,186,102.37	554,571.57	420,763.17	17.5358%
Maplewood	1,751,879.92	1,603,424.55	20,796.59	127,658.78	5.9519%
Millburn	1,779,899.57	1,641,911.90	0.00	137,987.67	6.0471%
Newark	2,227,600.61	2,101,183.45	0.00	126,417.16	7.5682%
Roselle Park	889,289.65	803,081.07	936.73	85,271.85	3.0213%
South Orange	1,455,476.39	1,357,846.32	0.00	97,630.07	4.9449%
Summit	2,461,649.03	2,317,775.39	61,582.63	82,291.01	8.3634%
Union	5,325,020.73	4,225,877.99	682,800.68	416,342.06	18.0916%
West Orange	3,670,999.55	3,350,009.14	0.00	320,990.41	12.4722%
	<u>\$29,433,736.07</u>	<u>\$24,253,306.07</u>	<u>\$3,285,093.59</u>	<u>\$1,895,336.41</u>	<u>100.0000%</u>
Elizabeth	14,458,487.93				
Total	<u>\$43,892,224.00</u>				

(1) Reflects anticipated payment of \$14,458,487.93 from the City of Elizabeth which is 34.3512954% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2024 percent contribution to be calculated at the end of fiscal year. Quarterly adjustments to be made in accordance with Agreement between Elizabeth and Joint Meeting.

Table VIII
Joint Meeting of Essex and Union Counties
Comparison of 2024 Assessment with 2023 Assessment

Municipality	2023	2024		Comparison	
				Amount	Percentage
East Orange	\$1,164,569.02	\$1,304,721.13	(+)	\$140,152.11	12.03%
Hillside	3,174,086.60	3,405,762.39	(+)	231,675.79	7.30%
Irvington	4,496,137.91	5,161,437.11	(+)	665,299.20	14.80%
Maplewood	1,546,601.18	1,751,879.92	(+)	205,278.74	13.27%
Millburn	1,558,737.84	1,779,899.57	(+)	221,161.73	14.19%
Newark	1,966,659.70	2,227,600.61	(+)	260,940.91	13.27%
Roselle Park	773,812.83	889,289.65	(+)	115,476.82	14.92%
South Orange	1,266,966.65	1,455,476.39	(+)	188,509.74	14.88%
Summit	2,193,433.91	2,461,649.03	(+)	268,215.12	12.23%
Union	4,777,299.63	5,325,020.73	(+)	547,721.10	11.47%
West Orange	3,231,078.01	3,670,999.55	(+)	439,921.54	13.62%
	<u>\$26,149,383.28</u>	<u>\$29,433,736.07</u>	(+)	<u>\$3,284,352.79</u>	<u>12.56%</u>
Elizabeth	14,983,364.71	14,458,487.93	(-)	\$ (524,876.78)	-3.50%
Total	<u>\$41,132,747.99</u>	<u>\$43,892,224.00</u>	(+)	<u>\$2,759,476.01</u>	<u>6.71%</u>

Note: City of Elizabeth percentage contribution of Treatment Plant, Sludge Dewatering, and Sludge Drying Budget:

City of Elizabeth percentage	
2020	35.79934530%
2021	32.66022930%
2022	31.88894820%
2023	37.91666500%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2024 as a result of the Agreement with the City of Elizabeth which requires 34.3512954% of the 2024 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 34.3512954% figure is an estimate based upon actual monitoring of quality and quantity at the Trenton Avenue Pumping Station, etc., in accordance with the Agreement. The actual percentage of contribution will be determined following the completion of the annual audit of expenses. In addition, these tables reflect the costs associated with Infiltration / Inflow for the member municipalities, the percentages of which were determined from the Phase IIB SSES Reports, adjusted as a result of rehabilitation work, and updated in 2017.

Summary and Certification

On the basis of the measured usage of Section One of the Supplementary Joint Trunk Sewer and the Treatment Plant, including the Sludge Dewatering and Sludge Drying Facilities, and an estimate of Dwelling Units and Waste Characteristics for the municipalities organized in Joint Meeting, and in accordance with the provisions of the 1926 contract, I hereby certify that the estimated maintenance and operating costs of the Joint Meeting for the 2024 are apportioned as follows:

	<u>2024</u>	<u>2023</u>		<u>2024</u>	<u>2023</u>
East Orange	4.4327%	4.4535%	Roselle Park	3.0213%	2.9592%
Hillside	11.5709%	12.1383%	South Orange	4.9449%	4.8451%
Irvington	17.5358%	17.1940%	Summit	8.3634%	8.3881%
Maplewood	5.9519%	5.9145%	Union	18.0916%	18.2693%
Millburn	6.0471%	5.9609%	West Orange	12.4722%	12.3562%
Newark	7.5682%	7.5209%	Total	<u>100.0000%</u>	<u>100.0000%</u>

Respectfully submitted,



A. Ralph LaMendola, P.E., BCEE

**Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A
2024 Budget**

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1,200,000	\$ 400,000	\$ -	\$ -	\$ 1,600,000
Gas Service	1,162,400	153,000	-	-	1,315,400
Fuel, Oil & Kerosene	115,250	69,050	-	-	184,300
Water Service	130,000	120,000	3,000	-	253,000
Chemicals	5,193,443	965,400	6,800	9,000	6,174,643
Sludge Disposal	-	3,468,528	-	-	3,468,528
Insurance	1,014,247	202,849	94,663	40,570	1,352,329
Administration	3,564,119	2,138,278	10,000	410,755	6,123,152
Labor	5,709,158	1,110,186	143,835	381,938	7,345,117
Benefits	5,491,238	988,678	47,524	92,010	6,619,450
Equipment	265,000	72,000	-	-	337,000
Printing & Stationery	17,000	2,000	-	1,000	20,000
Maintenance, Supplies & Spare Parts	2,661,540	656,480	5,000	771,880	4,094,900
Screening Disposal	363,400	-	-	-	363,400
Reserve Contingency	250,000	-	-	-	250,000
Miscellaneous Expenses	390,000	100,000	-	60,000	550,000
Technical & Professional Services	1,061,000	50,000	-	25,000	1,136,000
Replacement Fund	2,000,000	-	-	-	2,000,000
NJPDES & Miscellaneous Permit Fee	675,000	20,000	-	10,000	705,000
	\$ 31,262,795	\$ 10,516,449	\$ 310,822	\$ 1,802,153	\$ 43,892,224
	71.23%	23.96%	0.71%	4.10%	100.00%

Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A (Continued)
Operations and Management Cost Allocations
(Treatment Plant)

	<u>Estimated Total Cost</u>	<u>Percent Flow</u>	<u>Cost Flow</u>	<u>Percent SS</u>	<u>Cost SS</u>	<u>Percent BOD</u>	<u>Cost BOD</u>
General Expenditures 1	\$ 6,657,490	80%	\$ 5,325,992	10%	\$ 665,749	10%	\$ 665,749
Power	1,200,000	40%	\$ 480,000	5%	\$ 60,000	55%	\$ 660,000
Chlorine	2,970,000	40%	\$ 1,188,000			60%	\$ 1,782,000
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	5,176,540	28%	\$ 1,449,431	27%	\$ 1,397,666	45%	\$ 2,329,443
Fuel, Oil & Kerosene	115,250	40%	\$ 46,100	30%	\$ 34,575	30%	\$ 34,575
Administration, Labor & Benefits (Payroll Retirement)	14,764,515	40%	5,905,806	10%	\$ 1,476,452	50%	\$ 7,382,257
Sludge Processing 2	374,000			50%	\$ 187,000	50%	\$ 187,000
Total	\$31,257,795	100%	\$ 14,395,329		\$ 3,821,442		\$ 13,041,024
			46.0535652%		12.2255649%		41.7208699%

(1) General Expenditures
(From the Approved Budget)

(2) Sludge Processing

Insurance	\$ 1,014,247	Polymer	\$ 324,000
Technical & Professional Services	1,061,000	K2MnO4	50,000
Stationery & Printing	17,000		
Gas	1,162,400		
Water	130,000		
Miscellaneous	390,000		
Service Contracts	363,400		
Permit Fees	675,000		
Sodium Bisulfite & Misc. Chemicals	1,844,443		
	<u>\$6,657,490</u>		<u>\$ 374,000</u>

Appendix A Continued

**Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A (Continued)
Operations and Management Allocations**

	Estimated Total Cost	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 31,257,795	\$ 14,395,329	\$ 3,821,442	\$13,041,024
Dewatering Facility	10,516,449		5,258,225	5,258,225
Drying Facility	310,822		155,411	155,411
Subtotal	<u>\$ 42,085,066</u> 100.00%	<u>\$ 14,395,329</u> 34.2053141%	<u>\$ 9,235,078</u> 21.9438351%	<u>\$18,454,660</u> 43.8508508%
Sewers 1	\$ 1,802,153			
Total	<u>\$ 43,892,224</u>			

(1) Joint Meeting Members Only

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2024
SUMMARY**

MUNICIPALITY	FLOW (MG)	LOADINGS	
		BOD (tons)	TSS (tons)
HILLSIDE	193.113	1756.4124	175.6967
IRVINGTON	40.751	527.9427	15.8073
MAPLEWOOD	7.832	13.3783	2.4446
MURRAY HILL	13.668	0.2850	4.7306
ROSELLE PARK	0.675	0.2364	0.2674
SUMMIT	32.602	14.2595	11.8709
UNION	104.229	489.2213	209.4350
<i>MEMBERS TOTAL</i>	392.870	2801.7357	420.2526
<i>ELIZABETH</i>	179.877	3488.6188	241.3682
GRAND TOTAL	572.747	6290.3545	661.6208

MUNICIPALITY	FLOW	COSTS		
		BOD	TSS	TOTAL
HILLSIDE	\$157,325.52	\$1,703,572.27	\$103,507.64	\$1,964,405.43
IRVINGTON	\$33,199.07	\$512,060.02	\$9,312.52	\$554,571.61
MAPLEWOOD	\$6,380.58	\$12,975.80	\$1,440.20	\$20,796.57
MURRAY HILL	\$11,135.06	\$276.40	\$2,786.94	\$14,198.41
ROSELLE PARK	\$549.91	\$229.33	\$157.53	\$936.77
SUMMIT	\$26,560.23	\$13,830.56	\$6,993.45	\$47,384.24
UNION	\$84,913.40	\$474,503.48	\$123,383.80	\$682,800.67
<i>MEMBERS TOTAL</i>	<i>\$320,063.77</i>	<i>\$2,717,447.85</i>	<i>\$247,582.07</i>	<i>\$3,285,093.70</i>
<i>ELIZABETH</i>	<i>\$124,869.37</i>	<i>\$3,383,666.72</i>	<i>\$142,196.47</i>	<i>\$3,650,732.56</i>
GRAND TOTAL	\$444,933.14	\$6,101,114.57	\$389,778.55	\$6,935,826.26

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2023
COST FACTORS**

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$814.6811225	\$969.9158604	\$589.1268215
ELIZABETH	\$694.1930730	\$969.9158604	\$589.1268215

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
1050	Manhattan Drug Co.	4	467	500	0.484	0.9425	1.0091	
		99	229	185	0.096	0.0917	0.0741	
	Totals:				0.580	1.0342	1.0832	
	Cost Analysis:				\$472.52	\$1,003.10	\$638.14	\$2,113.75
1094	AAK Foodservice (Formerly Oasis Foods)	3	3742	2375	12.091	188.6697	119.7462	
		99	229	185	0.895	0.8547	0.6904	
	Totals:				12.986	189.5243	120.4367	
	Cost Analysis:				\$10,579.45	\$183,822.64	\$70,952.48	\$265,354.58
1090	Union Beverage	1	2126	67	172.854	1532.4233	48.2937	
		99	229	185	0.826	0.7888	0.6372	
	Totals:				173.68	1533.2121	48.9309	
	Cost Analysis:				\$141,493.82	\$1,487,086.71	\$28,826.50	\$1,657,407.04
1091	Hillside Beverage	2	1850	85	3.102	23.9304	1.0995	
		99	229	185	0.102	0.0974	0.0787	
	Totals:				3.204	24.0278	1.1782	
	Cost Analysis:				\$2,610.24	\$23,304.93	\$694.10	\$26,609.27
1092	A&H Products	1	817	380	2.476	8.4355	3.9235	
		99	229	185	0.187	0.1786	0.1443	
	Totals:				2.663	8.6140	4.0677	
	Cost Analysis:				\$2,169.50	\$8,354.89	\$2,396.41	\$12,920.79
HILLSIDE TOTALS					193.1130	1,756.4124	175.6967	
					\$157,325.52	\$1,703,572.27	\$103,507.64	\$1,964,405.43

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
2066	Wayne County Foods	1	3198	234	0.173	2,3071	0.1688	
		99	229	185	0.129	0.1232	0.0995	
		Totals:			0.302	2,4303	0.2683	
		Cost Analysis:			\$246.03	\$2,367.14	\$168.08	\$2,761.26
2081	CP Laundry (Formerly Clean-Tex)	1	118	61	13.274	6.5316	3.3765	
		99	229	185	0.320	0.3056	0.2469	
		Totals:			13.594	6.8372	3.6234	
		Cost Analysis:			\$11,074.78	\$6,631.49	\$2,134.63	\$19,840.89
2078	City Barrel	1	111	27	0.640	0.2962	0.0721	
		99	229	185	0.062	0.0592	0.0478	
		Totals:			0.702	0.3554	0.1199	
		Cost Analysis:			\$571.91	\$344.75	\$70.63	\$987.28
3050	Maplewood Beverage	2	4821	107	25.764	517.9484	11.4956	
		99	229	185	0.389	0.3715	0.3001	
		Totals:			26.153	518.3198	11.7957	
		Cost Analysis:			\$21,306.36	\$502,726.64	\$6,949.18	\$530,982.18
IRVINGTON TOTALS					40.7510	527.9427	15.8073	
					\$33,199.07	\$512,060.02	\$9,312.52	\$654,571.61

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: MAPLEWOOD

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
3033	NJ Transit - Hilton Gar.	3a	229	185	1.835	1.7523	1.4156	
		4	1055	70	2.516	11.0688	0.7344	
		Totals:			4.351	12.8211	2.1500	
		Cost Analysis:			\$3,544.68	\$12,435.35	\$1,266.64	\$17,246.67
3046	UniClean	1	23	7	3.221	0.3089	0.0940	
		99	229	185	0.260	0.2483	0.2006	
		Totals:			3.481	0.5572	0.2946	
		Cost Analysis:			\$2,835.90	\$540.44	\$173.56	\$3,549.91
MAPLEWOOD TOTALS					7.8320	13.3783	2.4446	
					\$6,380.58	\$12,975.80	\$1,440.20	\$20,796.57

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton	TSS per Ton	
					FLOW (MG)	BOD (Tons)	TSS (Tons)	
5010	Nokia	1	5	83	13.668	0.2850	4.7306	
	Totals:				13.668	0.2850	4.7306	
	Cost Analysis:				\$11,135.06	\$276.40	\$2,786.94	\$14,198.41
MURRAY HILL TOTALS					13.6680	0.2850	4.7306	
					\$11,135.06	\$276.40	\$2,786.94	\$14,198.41

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: ROSELLE PARK

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
6005	Hexacon Electric	2	84	95	0.675	0.2364	0.2674	
	Totals:				0.675	0.2364	0.2674	
	Cost Analysis:				\$549.91	\$229.33	\$157.53	\$936.77
ROSELLE PARK TOTALS					0.6750	0.2364	0.2674	
					\$549.91	\$229.33	\$157.53	\$936.77

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
5511	Novartis Groundwater	4	1	1	0.675	0.0028	0.0028	
	Totals:				0.675	0.0028	0.0028	
	Cost Analysis:				\$549.91	\$2.73	\$1.66	\$654.30
5514	Celgene West 556	03A	98	82	29.713	12.1425	10.1601	
		99	229	185	2.214	2.1142	1.7080	
	Totals:				31.927	14.2567	11.8681	
	Cost Analysis:				\$26,010.32	\$13,827.83	\$6,991.79	\$46,829.94
SUMMIT TOTALS					32.6020	14.2595	11.8709	
					\$26,560.23	\$13,830.56	\$6,993.45	\$47,384.24

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
					FLOW (MG)	BOD (Tons)	TSS (Tons)	
7015	ACuPowder	3 (99)	0	0	0.000	0.0000	0.0000	
	Closed September 2023	4	0	0	0	0.0000	0.0000	
	Totals:				0.000	0.0000	0.0000	
	Cost Analysis:				\$0.00	\$0.00	\$0.00	
7070	Durex	1	125	555	3.223	1.6800	7.4592	
	Totals:				3.223	1.6800	7.4592	
	Cost Analysis:				\$2,625.72	\$1,629.45	\$4,394.39	
7080	Foremost Mfg	2	11	122	4.174	0.1915	2.1235	
	Totals:				4.174	0.1915	2.1235	
	Cost Analysis:				\$3,400.48	\$185.70	\$1,251.00	
7092	International Paint	5	2	4	13.243	0.1104	0.2209	
		99	229	185	0.012	0.0115	0.0093	
	Totals:				13.255	0.1219	0.2302	
	Cost Analysis:				\$10,798.60	\$118.24	\$135.59	
7197	1011 Morris Avenue Urban Renewal	1	0	0	0.000	0.0000	0.0000	
					0.000	0.0000	0.0000	
	Cost Analysis:				\$0.00	\$0.00	\$0.00	
7191	Cintas (Location 111)	1	996	577	24.993	103.8039	60.1354	
	Totals:				24.993	103.8039	60.1354	
	Cost Analysis:				\$20,361.33	\$100,681.07	\$35,427.38	
7193	Lionl Latticini	1	5640	1395	8.251	194.0536	47.9973	
		99	229	185	0.374	0.3571	0.2885	
	Totals:				8.625	194.4108	48.2858	
	Cost Analysis:				\$7,026.62	\$188,562.08	\$28,446.48	
7194	BASF Corporation	1	17	836	0.152	0.0108	0.5299	
		99	229	185	2.024	1.9328	1.5614	
	Totals:				2.176	1.9436	2.0913	
	Cost Analysis:				\$1,772.75	\$1,885.08	\$1,232.04	
7195	Deep Foods	7	1058	489	41.285	182.1436	84.1855	
		01 (99)	229	185	1.128	1.0772	0.8702	
		02 (99)	229	185	1.672	1.5966	1.2899	
		05 (99)	229	185	0.388	0.3705	0.2993	
		06 (99)	229	185	0.051	0.0487	0.0393	
	Totals:				44.524	185.2367	86.6842	
	Cost Analysis:				\$36,272.86	\$179,663.97	\$51,067.99	
7196	Cintas (Location 15F)	1	128	178	3.037	1.6210	2.2542	

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$814.6811225	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
		99	229	185	0.222	0.2120	0.1713	
		Totals:			3.259	1.8330	2.4255	
		Cost Analysis:			\$2,655.05	\$1,777.88	\$1,428.93	\$5,861.85
	UNION TOTALS				104.2290	489.2213	209.4350	
					\$84,913.40	\$474,503.48	\$123,383.80	\$682,800.67

JOINT MEETING OF ESSEX UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	\$694.1930730	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215	
					FLOW (MG)	BOD (Tons)	TSS (Tons)	
0199	Prodalim USA (formerly Wild Flavors)	1	3268	247	0.626	8.5309	0.6448	
	Totals:				0.626	8.5309	0.6448	
	Cost Analysis:				\$434.56	\$8,274.21	\$379.85	\$9,088.63
0037	Deb-EI Foods	2	4298	951	16.977	304.2730	67.3252	
		99	229	185	0.412	0.3934	0.3178	
	Totals:				17.389	304.6664	67.6430	
	Cost Analysis:				\$12,071.32	\$295,600.80	\$39,850.32	\$347,422.44
0062	Garcia Uniforms, Inc.	2	832	237	2.390	8.2920	2.3620	
		99	229	185	0.094	0.0898	0.0725	
	Totals:				2.484	8.3817	2.4345	
	Cost Analysis:				\$1,724.38	\$8,129.57	\$1,434.25	\$11,288.19
0193	Actavis	3	892	177	13.387	49.7948	9.8808	
	Totals:				13.387	49.7948	9.8808	
	Cost Analysis:				\$9,293.16	\$48,296.79	\$5,821.05	\$63,411.00
0070	LORCO	2	24218	200	22.680	2290.4319	18.9151	
	Totals:				22.680	2290.4319	18.9151	
	Cost Analysis:				\$15,744.30	\$2,221,526.21	\$11,143.40	\$2,248,413.91
0075	Mastercraft Electroplating	99	229	185	0.02	0.0191	0.0154	
	Totals:				0.020	0.0191	0.0154	
	Cost Analysis:				\$13.88	\$18.52	\$9.09	\$41.50
0093	The Mills at Jersey Gardens	4	5	27	7.309	0.1524	0.8229	
	Totals:				7.309	0.1524	0.8229	
	Cost Analysis:				\$5,073.86	\$147.81	\$484.80	\$5,706.47
0098	Olympia Trails	1	256	136	2.616	2.7926	1.4836	
		99	229	185	0.153	0.1461	0.1180	
	Totals:				2.769	2.9387	1.6016	
	Cost Analysis:				\$1,922.22	\$2,850.33	\$943.56	\$5,716.10
0100	Michaels Foods - North Avenue Facility	4	2338	349	40.260	392.5133	58.5916	
		4a	2530	254	7.041	74.2833	7.4577	
		4b	904	209	4.619	17.4122	4.0256	
		99	229	185	1.051	1.0036	0.8108	
	Totals:				52.971	485.2123	70.8857	
	Cost Analysis:				\$36,772.10	\$470,615.10	\$41,760.65	\$549,147.85

JOINT MEETING OF ESSEX UNION COUNTIES

INDUSTRIAL USER CHARGE - 2024

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Flow per MG	Cost Factors		ANNUAL PAYMENT	
			BOD (mg/l)	TSS (mg/l)	\$694.1930730	BOD per Ton \$969.9158604	TSS per Ton \$589.1268215		
					FLOW (MG)	BOD (Tons)	TSS (Tons)		
0105	Michaels Foods - Papetti Plaza Facility	2	1827	308	37,088	282.5583	47.6343		
		2a	1034	174	5,540	23.8873	4.0197		
		2b	665	145	1,627	4.5118	0.9838		
		3	238	252	0,363	0.3603	0.3815		
		Totals:				44.618	311.3175	53.0193	
	Cost Analysis:				\$30,973.51	\$301,951.82	\$31,235.08	\$364,160.41	
0148	Superior Powder Coating	1	348	90	2,825	4.0995	1.0602		
		99	229	185	0,479	0.4574	0.3695		
		Totals:				3.304	4.5569	1.4297	
		Cost Analysis:				\$2,293.61	\$4,419.85	\$842.30	\$7,555.76
0195	Duro Hilex Poly LLC	1	605	437	1,885	4.7556	3.4350		
		2	93	119	0,830	0.3219	0.4119		
		3(99)	229	185	0,261	0.2492	0.2013		
		Totals:				2.976	5.3267	4.0482	
		Cost Analysis:				\$2,065.92	\$5,166.44	\$2,384.92	\$9,617.29
0165	Wakefern Food Corp.	2	164	148	1,079	0.7379	0.6659		
		3a	118	241	5,412	2.6630	5.4389		
		4	607	320	0,429	1.0859	0.5725		
		(7) 99	229	185	0,072	0.0688	0.0555		
		Totals:				6.992	4.5556	6.7328	
	Cost Analysis:				\$4,853.80	\$4,418.52	\$3,966.48	\$13,238.80	
0178	Smithfield Packaged Meats	3	351	217	1,264	1.8501	1.1438		
		99	229	185	0,038	0.0363	0.0293		
		Totals:				1.302	1.8864	1.1731	
	Cost Analysis:				\$903.84	\$1,829.62	\$691.10	\$3,424.56	
0189	Prince Donut Co.	3	2812	529	0,914	10.7176	2.0162		
		99	229	185	0,136	0.1299	0.1049		
		Totals:				1.050	10.8475	2.1211	
	Cost Analysis:				\$728.90	\$10,521.13	\$1,249.62	\$12,499.66	
0194	*Erie Street (former MGP Site)	3	0	0	0,000	0,0000	0,0000		
	Totals:				0,000	0,0000	0,0000		
	Cost Analysis:				\$0.00	\$0.00	\$0.00	\$0.00	
ELIZABETH TOTALS					179.8770	3,488.6188	241.3682		
					\$124,869.37	\$3,383,666.72	\$142,196.47	\$3,650,732.56	

*Erie Street (Former MGP Site) Did not discharge during this Assessment Period.