

December 19, 2003

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 2004)

I present herewith the 69th 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, 2002 through October 31, 2003. 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 2004. 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 2003, 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 20, 2002.

During 2003, 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 (2004) dwelling unit figures formulated by each municipality in 2003.

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 Elmora 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, 2002, through October 31, 2003 and projected for a twelve (12) month period in 2004. 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 2004, 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, 2002, through October 31, 2003, and projected for 2004 and are based upon actual 2002-2003 operating statistics as well as a recent upgraded 2003 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	27,014.0660 MG/Year	74.0111 MGD
2.	BOD	19,048.3506 Tons/Year	104,374.5238 Lbs/Day
	TSS	14,830.7901 Tons/Year	81,264.6033 Lbs/Day
3.	Estimated Industrial Flow	873.1870 MG/Year	2.3923 MGD
4.	Estimated Industrial BOD	2,760.9123 Tons/Year	15,128.2866 Lbs/Day
5.	Estimated Industrial TSS	1,036.5682 Tons/Year	5,679.8258 Lbs/Day
6.	Estimated Total Operating Expenses in 2004		
			\$12,118,477 STP
			5,406,887 SDWF
			757,015 SDF
			513,998 Sewers
			<hr/> \$18,796,377 Total
7.	Estimated Total Dwelling Units in System		
			148,715 JM Members
			47,181 Elizabeth
			<hr/> 195,896 Total

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

Flow	28.6838053%
BOD	46.2533788%
Suspended Solids	25.0628159%

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 2004 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 2004

Treatment Plant

	<u>Total for 2004</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	27,014.0660 MG/Yr. ¹	26,140.8790 MG/Yr.	873.1870 MG/Yr.
BOD	19,048.3506 Tons/Yr. ¹	16,287.4383 Tons/Yr.	2,760.9123 Tons/Yr.
Suspended Solids	14,830.7901 Tons/Yr. ¹	13,794.2219 Tons/Yr.	1,036.5682 Tons/Yr.

(1) Based upon data from November 1, 2002 thru October 31, 2003 (365 days)

Cost Allocation

	<u>Total for 2004</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	\$5,244,082.00	\$5,074,575.00	\$169,507.00
BOD	8,456,218.00	7,230,554.00	1,225,664.00
Suspended Solids	4,582,079.00	4,261,824.00	320,255.00
	<u>\$18,282,379.00</u>	<u>\$16,566,953.00</u>	<u>\$1,715,426.00</u>
	100.000000%	90.61705260%	9.38294740%

Elizabeth Contribution

Flow	-	6,864.4950 MG/Yr.
BOD	-	6,066.9637 Tons/Yr.
TSS	-	3,897.9983 Tons/Yr.

Trunk Sewer Flow¹

	<u>Total for 2004</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
	20,149.5710 MG/Yr. ²	19,523.8490 MG/Yr.	625.722 MG/Yr.

(1) Based upon data from November 1, 2002 thru October 31, 2003 (365 days)

(2) (27,014.066 - 6,864.4950)

COST ALLOCATION

\$513,998.00	\$498,036.38	\$15,961.62
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Member municipalities will be assessed \$3.35 (\$498,036.38/148,715) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$219.63 per MG for flow, \$443.93 per ton of BOD, and \$308.96 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	\$169,507.00	/	873.1870	=	\$194.1245117	/MG
BOD	\$1,225,664.00	/	2,760.9123	=	\$443.9344198	/Ton
Suspended Solids	\$320,255.00	/	1,036.5682	=	\$308.9569987	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$25.51/MG of flow for trunk sewer use ($\$15,961.62/625.722 = \$25.509/\text{MG}$). This brings the total flow cost to \$219.63/MG ($\$194.125 + \25.509) for the indicated industries of member municipalities.

Based upon the user charges for 2004, 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 2003 industrial waste survey of the service area. These are estimates for 2004 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 \$18,796,377 for 2004. 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 30.3913841% 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
2004

<u>Municipality</u>	<u>Dwelling Units ¹</u>	<u>User Charges Industrial</u>
East Orange	7,218	\$ -
Hillside	8,445	59,337
Irvington	26,541	45,039
Maplewood	9,303	150,763
Millburn	9,782 ⁴	-
Newark	16,972	-
Roselle Park	4,744	381
South Orange	7,049	-
Summit	14,054 ²	61,087 ³
Union	24,732	547,694
West Orange	19,875	10,022
Elizabeth	47,181	857,064
	<u>195,896</u>	<u>\$ 1,731,387</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 (3723)

(3) Includes Murray Hill

(4) Includes Livingston (408)

Table III
Joint Meeting of Essex and Union Counties
Computation of Estimated Percent
Contribution By City of Elizabeth

For Period 11/1/2002-10/31/2003 and Projected Contribution for 2004

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	27,014.066 MG	6,864.495 MG		20,149.571 MG	
		Industrial	D&C	Industrial	D&C
		235.401	6,629.094	625.722	19,523.849
		\$ 45,697.10	\$ 1,286,869.64	\$ 137,429.60	\$ 4,288,093.94
Unit Charge \$ 194.1245117 Per MG for Elizabeth					
Unit Charge \$ 219.6336356 Per MG for Joint Meeting					
BOD:	19,048.3506 Tons	6,066.9637 Tons		12,981.3869 Tons	
		Industrial	D&C	Industrial	D&C
		1,480.7237	4,586.24	1,259.5316	11,721.8553
		\$ 657,344.22	\$ 2,035,989.79	\$ 559,149.43	
Unit Charge	\$443.9344198 Per Ton				
TSS:	14,830.7901 Tons	3,897.9983 Tons		10,932.7918 Tons	
		Industrial	D&C	Industrial	D&C
		451.8342	3,446.1641	575.3008	10,357.491
		\$ 139,597.34	\$ 1,064,716.52	\$ 177,743.21	
Unit Charge	\$308.9569987 Per Ton				
			\$ 5,230,214.61	\$ 874,322.24	

City of Elizabeth (Contribution from Pumping Station) \$ 5,230,214.61

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

Flow:	12.0640 MG/Year at	\$ 194.1245117	2,341.92
BOD:	20.657 Tons/Year at	443.9344198	9,170.35
TSS:	9.4332 Tons/Year at	308.9569987	2,914.45

Joint Meeting Industrial	874,322.24
Subtotal	\$ 6,118,963.57

Total 2004 Budget	\$ 18,796,377.00
Subtotal (above)	(6,118,963.57)
Subtotal (EDU's)	\$ 12,677,413.43

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 12,677,413
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)
 148,715 (X + \$3.348931715) + 3905 (X) = \$ 12,677,413

Equivalent Units-Member Municipalities 148,715

Elmora EDU's = 3,905 \$ 79.8019725460 Per Unit = X
 \$ 83.1509042610 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 12,365,786.73
 Elmora Area Assessment \$ 311,626.70

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 5,230,214.61

Elmora EDU's 311,626.70

Elmora Industrial 14,426.72

\$ 5,556,268.03

Total Anticipated Payment from Member Municipalities

EDU's 12,365,786.73

Industrial 874,322.24

\$ 13,240,108.97

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

\$ 5,556,268.03 / \$ 18,282,379.00 = 30.3913841%

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		Base Year - 1982		Base Year - 1982		Base Year - 1982		Base Year - 1982	
			Phase IIB - SSES ¹		Phase IIB - SSES ²		Phase IIB - SSES ³		Phase IIB - SSES ⁴		Phase IIB - SSES ⁵	
			Infiltration (GPD) ³	(Percent)	Inflow (GPD)	(Percent)	Inflow (GPD)	(Percent)	Inflow (GPD)	(Percent)	Inflow (GPD)	(Percent)
East Orange	5.50	4.88%	70,747	2.11%	56,808	2.68%	3,007,440	5.79%	4,695,714	6.23%		
Hillside	12.20	10.83%	79,012	2.36%	34,551	1.63%	1,185,120	2.28%	1,846,629	2.45%		
Irvington	18.61	16.52%	1,115,672	33.31%	833,254	39.31%	8,612,640	16.57%	12,157,603	16.13%		
Maplewood	7.08	6.29%	389,078	11.62%	208,578	9.84%	5,449,680	10.48%	8,502,031	11.28%		
Millburn	6.00	5.33%	191,609	5.72%	152,240	7.51%	2,729,520	5.25%	3,723,407	4.94%		
Newark	15.50	13.76%	234,484	7.00%	184,463	9.10%	1,959,540	3.77%	3,045,054	4.04%		
Roselle Park	9.44	8.38%	106,187	3.17%	65,147	3.21%	1,576,080	3.03%	2,457,147	3.26%		
South Orange	7.00	6.22%	410,876	12.27%	87,756	4.14%	2,183,760	4.20%	3,369,156	4.47%		
Summit	7.50	6.66%	171,657	5.13%	67,830	3.20%	3,651,120	7.02%	2,924,457	3.88%		
Union	10.30	9.14%	329,127	9.83%	248,853	11.74%	14,534,640	27.96%	22,121,862	29.35%		
West Orange	13.50	11.99%	250,811	7.48%	161,945	7.64%	7,097,040	13.65%	14,178,240	10,529,555		
					154,847				6,744,600	13.97%		
					2,119,699				75,372,615			
	112.63	100.00%	3,349,260	100.00%	2,027,350	100.00%	51,986,580	100.00%	48,300,120	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) 2003 - Infiltration related to base year total = 2.027 MGD / 52.79 MGD = 3.83974238%

- Adjusted for period 11/1/2002 - 10/31/2003; (3.83974238% x 20,149,5710 = 773.7 MG / Year / 365 = 2,119,699 GPD)

(5) 2003 inflow adjusted for period 11/1/2002 - 10/31/2003 - (51.84" / 33.22") x (48,300,120) = 75,372,615 GPD

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 2003 - Summary of Infiltration and Inflow

Municipality	2002				2003				2004			
	Phase IIB		Phase IIB		Phase IIB		Phase IIB		Phase IIB		Phase IIB	
	SSES Infiltration (GPD)	2002 Infiltration (GPD)	2003 Infiltration Removed (GPD)	2003 Infiltration (GPD)	SSES Inflow (GPD)	2002 Inflow (GPD)	2003 Inflow Removed (GPD)	2003 Inflow (GPD)	SSES Inflow (GPD)	2002 Inflow (GPD)	2003 Inflow Removed (GPD)	2003 Inflow (GPD)
East Orange	70,747	54,327	-	54,327	3,007,440	3,007,440	-	-	3,007,440	3,007,440	-	3,007,440
Hillside	79,012	32,980	-	32,980	1,185,120	1,185,120	-	-	1,185,120	1,185,120	-	1,185,120
Irvington	1,115,672	797,026	-	797,026	8,612,640	7,791,840	-	-	7,791,840	7,791,840	-	7,791,840
Maplewood	389,078	199,485	-	199,485	5,449,680	5,449,680	-	-	5,449,680	5,449,680	-	5,449,680
Millburn	191,609	152,240	-	152,240	2,729,520	2,384,640	-	-	2,384,640	2,384,640	-	2,384,640
Newark	234,484	184,463	-	184,463	1,959,540	1,951,200	-	-	1,951,200	1,951,200	-	1,951,200
Roselle Park	106,187	65,147	-	65,147	1,576,080	1,576,080	-	-	1,576,080	1,576,080	-	1,576,080
South Orange	410,876	83,906	-	83,906	2,183,760	2,178,000	-	19,440	2,158,560	2,158,560	-	2,158,560
Summit	171,657	64,916	-	64,916	3,651,120	1,876,320	-	3,600	1,872,720	1,872,720	-	1,872,720
Union	329,127	238,013	-	238,013	14,534,640	14,196,240	-	18,000	14,178,240	14,178,240	-	14,178,240
West Orange	250,811	154,847	-	154,847	7,097,040	6,744,600	-	-	6,744,600	6,744,600	-	6,744,600
Total	3,349,260	2,027,350	-	2,027,350	51,986,580	48,341,160	-	41,040	48,300,120	48,300,120	-	48,300,120

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		20,149,5710 MG	19,523,8490 MG	625,7220 MG
		\$4,099,461.97	\$3,962,032.37	
Infiltration	3.8397424%	773.70	749.67	\$137,429.60
Inflow	10.6103003%	2,137.93	2,071.54	24.03
				\$420,383.73
BOD	at \$443.9344198 Per Ton	12,981,3869 Tons	11,721,8553 Tons	1,259,5316 Tons
		\$5,762,884.46	\$5,203,735.03	\$559,149.43
TSS	at \$308.9569987 Per Ton	10,932,7918 Tons	10,357,4910 Tons	575,3008 Tons
		\$3,377,762.54	\$3,200,019.33	\$177,743.21
Total		\$13,240,108.97 ¹	\$12,365,786.73	\$874,322.24

(1) Amount anticipated from Members after allocation of

30.3913841% to City of Elizabeth \$ 5,556,268.03

"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)

"2002 - 2003"

Infiltration: 2.027 MGD/52.79MGD =

3.83974238% X 20,149,5710 773.69 MG / Year

(November 1, 2002 - October 31, 2003)

Inflow: Rainfall = 51.84 Inches X 50 MG X 82.482%

2,137.93 MG / Year

Total D&C

\$12,365,786.73

Less: Infiltration

(152,132.75)

Less: Inflow

(420,383.73)

Net after infiltration and inflow

\$11,793,270.25

Equivalent Dwelling Units

148,715

User Charge Per Unit

\$79,301,148,169,3172

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2004

Domestic & Commercial									
Municipality	Dwelling Units	User Charge		Infiltration		Inflow		Total Cost	Unit Cost
		\$	Per Unit	Percent ¹	Amount	Percent ²	Amount		
East Orange	7,218	\$572,395.69		2.68%	\$4,077.16	6.23%	\$26,189.91	\$602,662.76	\$83.4944
Hillside	8,445	669,698.20		1.63%	2,479.76	2.45%	10,299.40	682,477.36	80.8144
Irvington	26,541	2,104,731.77		39.31%	59,803.38	16.13%	67,807.90	2,232,343.05	84.1092
Maplewood	9,303	737,738.58		9.84%	14,969.86	11.28%	47,419.28	800,127.72	86.0075
Millburn	9,782 ³	775,723.83		7.51%	11,425.17	4.94%	20,766.96	807,915.96	82.5921
Newark	16,972	1,345,899.09		9.10%	13,844.08	4.04%	16,983.50	1,376,726.67	81.1175
Roselle Park	4,744	376,204.65		3.21%	4,883.46	3.26%	13,704.51	394,792.62	83.2194
South Orange	7,049	558,993.79		4.14%	6,298.30	4.47%	18,791.15	584,083.24	82.8604
Summit	14,054 ⁴	1,114,498.34		3.20%	4,868.25	3.88%	16,310.89	1,135,677.48	80.8081
Union	24,732	1,961,276.00		11.74%	17,860.38	29.35%	123,382.62	2,102,519.00	85.0121
West Orange	19,875	1,576,110.32		7.64%	11,622.94	13.97%	58,727.61	1,646,460.87	82.8408
	148,715	\$11,793,270.26		100.00%	\$152,132.74	100.00%	\$420,383.73	\$12,365,786.73	\$83.1509

(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 (408)
(4) Includes New Providence (3723)

\$76.7220 2003
\$71.5620 2002
\$68.7300 2001
\$68.4775 2000

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2004

Municipality	Industrial										
	BOD (Tons / Year)	BOD ¹ (\$/Year)	TSS (Tons / Year)	TSS ² (\$/Year)	Flow (MG / Year)			Inflow 10.610300%	Total	Flow ³ (\$/Year)	Total Cost
					Dry Weather	Infiltration 3.839742%					
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	102.7708	45,623.50	14.0220	4,332.20	36.54	1.64	4.53	42.72	9,381.87	59,337.57	
Irvington	49.6088	22,023.05	50.0375	15,459.44	29.43	1.32	3.65	34.41	7,556.71	45,039.20	
Maplewood	319.4406	141,810.68	14.5806	4,504.78	17.32	0.78	2.15	20.25	4,446.92	150,762.38	
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	0.1463	64.95	0.1162	35.90	1.09	0.05	0.14	1.28	280.25	381.10	
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Summit ⁴	45.7411	20,306.05	33.3081	10,290.77	118.76	5.33	14.73	138.82	30,490.20	61,087.02	
Union	734.3532	326,004.66	454.3453	140,373.16	316.74	14.22	39.28	370.24	81,316.06	547,693.88	
West Orange	7.4708	3,316.55	8.8911	2,746.97	15.42	0.69	1.91	18.02	3,957.58	10,021.10	
	1,259.5316	\$ 559,149.44	575.3008	\$177,743.22	535.31	24.03	66.39	625.72	\$137,429.60	\$874,322.26	

- (1) At \$443.9344198/Ton
(2) At \$308.9569987/Ton
(3) At \$219.6336356/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
2004

Domestic & Commercial					
Municipality	Total Assessments ¹	User Charge		Infiltration / Inflow Charges	Assessment Percentage
		Domestic Sewage 79.30114817	User Charges Industrial		
East Orange	\$602,662.76	\$572,395.69	\$0.00	\$30,267.07	4.5518%
Hillside	741,814.93	669,698.20	59,337.57	12,779.16	5.6028%
Irvington	2,277,382.25	2,104,731.77	45,039.20	127,611.28	17.2006%
Maplewood	950,890.10	737,738.58	150,762.38	62,389.14	7.1819%
Millburn	807,915.96	775,723.83	0.00	32,192.13	6.1020%
Newark	1,376,726.67	1,345,899.09	0.00	30,827.58	10.3982%
Roselle Park	395,173.72	376,204.65	381.10	18,587.97	2.9847%
South Orange	584,083.24	558,993.79	0.00	25,089.45	4.4115%
Summit	1,196,764.50	1,114,498.34	61,087.02	21,179.14	9.0389%
Union	2,650,212.88	1,961,276.00	547,693.88	141,243.00	20.0165%
West Orange	1,656,481.97	1,576,110.32	10,021.10	70,350.55	12.5111%
	<u>\$13,240,108.99</u>	<u>\$11,793,270.26</u>	<u>\$874,322.26</u>	<u>\$572,516.47</u>	<u>100.0000%</u>
Elizabeth	5,556,268.03				
Total	<u>\$18,796,377.02</u>				

(1) Reflects anticipated payment of \$5,556,268.03 from the City of Elizabeth which is 30.3913841% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2004 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 2004 Assessment with 2003 Assessment

<u>Municipality</u>	<u>2003</u>	<u>2004</u>		<u>Comparison</u>	
				<u>Amount</u>	<u>Percentage</u>
East Orange	\$555,739.43	\$602,662.76	(+)	\$46,923.33	8.44%
Hillside	653,736.16	741,814.93	(+)	88,078.77	13.47%
Irvington	2,097,604.15	2,277,382.25	(+)	179,778.10	8.57%
Maplewood	811,040.70	950,890.10	(+)	139,849.40	17.24%
Millburn	744,871.35	807,915.96	(+)	63,044.61	8.46%
Newark	1,271,713.93	1,376,726.67	(+)	105,012.74	8.26%
Roselle Park	364,495.65	395,173.72	(+)	30,678.07	8.42%
South Orange	538,800.53	584,083.24	(+)	45,282.71	8.40%
Summit	1,122,441.28	1,196,764.50	(+)	74,323.22	6.62%
Union	2,481,928.50	2,650,212.88	(+)	168,284.38	6.78%
West Orange	1,522,998.47	1,656,481.97	(+)	133,483.50	8.76%
	<u>\$12,165,370.15</u>	<u>\$13,240,108.99</u>	(+)	<u>\$1,074,738.84</u>	<u>8.83%</u>
Elizabeth	5,532,565.85	5,556,268.03	(+)	\$ 23,702.18	0.43%
Total	<u><u>\$17,697,936.00</u></u>	<u><u>\$18,796,377.00</u></u>	<u><u>(+)</u></u>	<u><u>\$1,098,441.00</u></u>	<u><u>6.21%</u></u>

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

City of Elizabeth percentage	
2000	37.78000000%
2001	36.20564720%
2002	34.05411240%
2003	32.11408370%

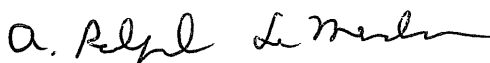
Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2004 as a result of the Agreement with the City of Elizabeth which requires 30.3913841% of the 2004 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 30.3913841% 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 2003.

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 2004 are apportioned as follows:

	<u>2004</u>	<u>2003</u>		<u>2004</u>	<u>2003</u>
East Orange	4.5518%	4.5682%	Roselle Park	2.9847%	2.9962%
Hillside	5.6028%	5.3737%	South Orange	4.4115%	4.4290%
Irvington	17.2006%	17.2424%	Summit	9.0389%	9.2265%
Maplewood	7.1819%	6.6668%	Union	20.0165%	20.4016%
Millburn	6.1020%	6.1229%	West Orange	12.5111%	12.5191%
Newark	10.3982%	10.4536%	Total	<u>100.0000%</u>	<u>100.0000%</u>

Respectfully submitted,



A. Ralph LaMendola
Chief Engineer

Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A
2004 Budget

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1,352,800	\$ 133,760	\$ 33,440	\$ -	\$ 1,520,000
Gas Service	7,800	57,000	-	-	64,800
Fuel, Oil & Kerosene	70,800	115,200	-	-	186,000
Water Service	145,000	58,000	3,500	-	206,500
Chemicals	334,700	643,900	6,800	2,200	987,600
Sludge Disposal	-	2,095,000	-	-	2,095,000
Insurance	452,777	109,377	52,775	5,698	620,627
Administration	1,158,000	597,000	20,000	79,000	1,854,000
Labor	4,025,000	819,000	152,000	2,000	4,998,000
Benefits	1,613,750	264,850	51,200	25,800	1,955,600
Equipment	159,000	51,000	-	-	210,000
Printing & Stationery	23,000	6,000	4,000	4,000	37,000
Maintenance, Supplies & Spare Parts	964,000	320,000	10,000	254,500	1,548,500
Screening Disposal	120,000	-	-	-	120,000
Reserve Contingency	35,000	-	-	-	35,000
Miscellaneous Expenses	160,500	50,000	35,000	120,000	365,500
Technical & Professional Services	276,500	80,000	130,000	15,000	501,500
Replacement Fund	850,000	-	-	-	850,000
NJPDES & Miscellaneous Permit Fees	369,850	6,800	258,300	5,800	640,750
	\$ 12,118,477	\$ 5,406,887	\$ 757,015	\$ 513,998	\$ 18,796,377
	64.47%	28.77%	4.03%	2.73%	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)

	Estimated Total Cost	Percent Flow	Cost Flow	Percent SS	Cost SS	Percent BOD	Cost BOD
General Expenditures 1	\$ 1,644,127	80%	\$ 1,315,302	10%	\$ 164,413	10%	\$ 164,412
Power	1,352,800	40%	\$ 541,120	5%	\$ 67,640	55%	\$ 744,040
Chlorine	196,000	40%	\$ 78,400			60%	\$ 117,600
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	2,008,000	28%	\$ 562,240	27%	\$ 542,160	45%	\$ 903,600
Fuel, Oil & Kerosene	70,800	40%	\$ 28,320	30%	\$ 21,240	30%	\$ 21,240
Administration, Labor & Benefits (Payroll Retirement)	6,796,750	40%	2,718,700	10%	\$ 679,675	50%	\$ 3,398,375
Sludge Processing 2	50,000			50%	\$ 25,000	50%	\$ 25,000
Total	\$12,118,477		\$ 5,244,082		\$ 1,500,128		\$ 5,374,267
	100%		43.2734410%		12.3788493%		44.3477097%

(1) General Expenditures
(From the Approved Budget)

(2) Sludge Processing

Insurance	\$ 452,777	Polymer	\$ 50,000
Technical & Professional Services	276,500	K2MnO4	-
Stationery & Printing	23,000		
Gas	7,800		
Water	145,000		
Miscellaneous	160,500		
Service Contracts	120,000		
Permit Fees	369,850		
Sodium Bisulfite & Misc. Chemicals	88,700		
	<u>\$1,644,127</u>		<u>\$ 50,000</u>

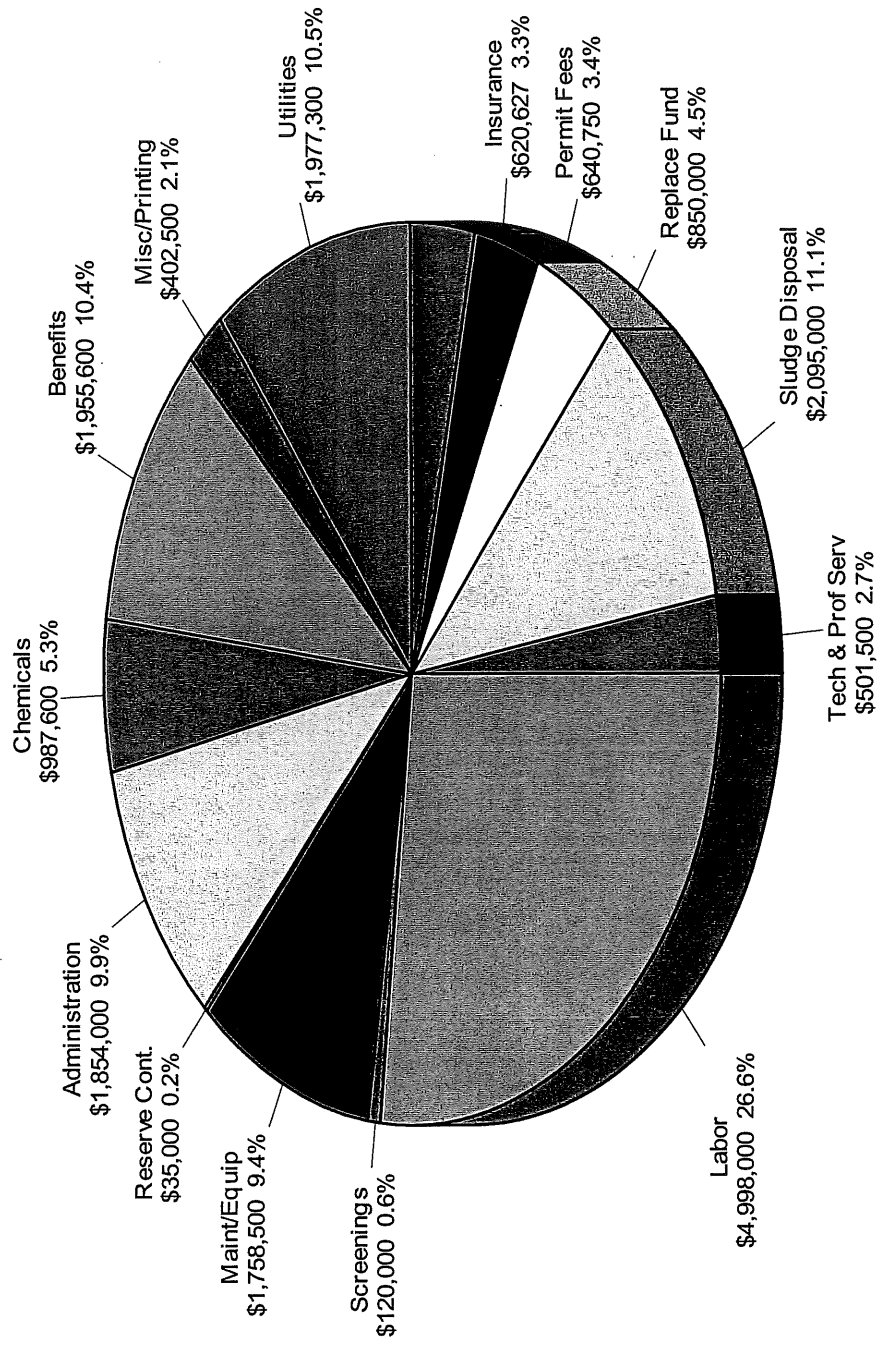
Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A (Continued)
Operations and Management Allocations

	Estimated			
	Total Cost	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 12,118,477	\$ 5,244,082	\$ 1,500,128	\$ 5,374,267
Dewatering Facility	5,406,887		2,703,444	2,703,444
Drying Facility	757,015		378,508	378,508
	<u>\$ 18,282,379</u>	<u>\$ 5,244,082</u>	<u>\$ 4,582,079</u>	<u>\$ 8,456,218</u>
Subtotal	100.00%	28.6838053%	25.0628159%	46.2533788%
Sewers 1	\$ 513,998			
Total	<u>\$ 18,796,377</u>			

(1) Joint Meeting Members Only

Joint Meeting of Essex & Union Counties

2004 O&M Budget



JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2004
SUMMARY**

		LOADINGS	
MUNICIPALITY	FLOW	BOD	TSS
	(MG)	(tons)	(tons)
HILLSIDE	42.716	102.77077173	14.02197528
IRVINGTON	34.406	49.60883034	50.03748966
MAPLEWOOD	20.247	319.44055650	14.58064686
MURRAY HILL	78.026	16.41146868	11.00216136
ROSELLE PARK	1.276	0.14625024	0.11624292
SUMMIT	60.797	29.32962828	22.30592631
UNION	370.235	734.35320879	454.34526483
WEST ORANGE	18.019	7.47080520	8.89111137
<i>MEMBERS TOTAL</i>	625.722	1259.53151976	575.30081859
<i>ELIZABETH</i>	247.465	1501.38073197	461.26736892
GRAND TOTAL	873.187	2760.91225173	1036.56818751

		COSTS		
MUNICIPALITY	FLOW	BOD	TSS	TOTAL
HILLSIDE	\$9,381.87	\$45,623.48	\$4,332.19	\$59,337.54
IRVINGTON	\$7,556.71	\$22,023.07	\$15,459.43	\$45,039.21
MAPLEWOOD	\$4,446.92	\$141,810.66	\$4,504.79	\$150,762.37
MURRAY HILL	\$17,137.13	\$7,285.62	\$3,399.19	\$27,821.94
ROSELLE PARK	\$280.25	\$64.93	\$35.91	\$381.09
SUMMIT	\$13,353.07	\$13,020.43	\$6,891.57	\$33,265.07
UNION	\$81,316.06	\$326,004.67	\$140,373.15	\$547,693.87
WEST ORANGE	\$3,957.58	\$3,316.55	\$2,746.97	\$10,021.10
<i>MEMBERS TOTAL</i>	\$137,429.60	\$559,149.39	\$177,743.21	\$874,322.21
<i>ELIZABETH</i>	\$48,039.02	\$666,514.58	\$142,511.78	\$857,065.39
GRAND TOTAL	\$185,468.62	\$1,225,663.98	\$320,255.00	\$1,731,387.59

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2004
COST FACTORS**

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$219.6336356	\$443.9344198	\$308.9569987
ELIZABETH	\$194.1245117	\$443.9344198	\$308.9569987

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$219.6336356	BOD per Ton \$443.9344198	TSS per Ton \$308.9569987	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
1015	Bristol-Myers R&D	1	173	131	4.390	3.1670	2.3981	
	Totals:				4.390	3.1670	2.3981	
	Cost Analysis:				\$964.19	\$1,405.94	\$740.92	\$3,111.05
1025	Certified Processing	1 (99)	176	135	0.220	0.1615	0.1238	
	Totals:				0.220	0.1615	0.1238	
	Cost Analysis:				\$48.32	\$71.68	\$38.26	\$158.26
1035	ECD	2	8	16	10.147	0.3385	0.6770	
		3	189	434	0.648	0.5107	1.1727	
	Totals:				10.795	0.8492	1.8497	
	Cost Analysis:				\$2,370.95	\$376.99	\$571.49	\$3,319.43
1042	GEC Marconi / BAE	1	2	6	8.920	0.0744	0.2232	
	Totals:				8.920	0.0744	0.2232	
	Cost Analysis:				\$1,959.13	\$33.03	\$68.95	\$2,061.11
1050	Manhattan Drug Co.	2	194	156	0.196	0.1586	0.1275	
		3	140	60	0.271	0.1582	0.0678	
		99	176	135	0.121	0.0888	0.0681	
		4	169	407	0.616	0.4341	1.0455	
	Totals:				1.204	0.8397	1.3089	
	Cost Analysis:				\$264.44	\$372.77	\$404.39	\$1,041.60
1054	Oasis Foods	3	1133	117	12.205	57.6639	5.9547	
		99	176	135	0.936	0.6869	0.5269	
	Totals:				13.141	58.3508	6.4816	
	Cost Analysis:				\$2,886.21	\$25,903.93	\$2,002.54	\$30,792.68
1088	Production Services	1	2331	97	4.046	39.3282	1.6366	
	Totals:				4.046	39.3282	1.6366	
	Cost Analysis:				\$888.64	\$17,459.15	\$505.63	\$18,853.41
HILLSIDE TOTALS					42.7160	102.7708	14.0220	
					\$9,381.87	\$45,623.48	\$4,332.19	\$59,337.54

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$219.6336356	BOD per Ton \$443.9344198	TSS per Ton \$308.9569987	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
2030	Hi-Speed Plating	1	13	13	0.283	0.0153	0.0153	
		99	176	135	0.094	0.0690	0.0529	
	Totals:				0.377	0.0843	0.0683	
	Cost Analysis:				\$82.80	\$37.44	\$21.09	\$141.33
2035	Industrial Retaining Ring /TRUARC	3	58	58	2.238	0.5413	0.5413	
	Totals:				2.238	0.5413	0.5413	
	Cost Analysis:				\$491.54	\$240.29	\$167.23	\$899.07
2036	Intergel	1	680	208	1.768	5.0133	1.5335	
	Totals:				1.768	5.0133	1.5335	
	Cost Analysis:				\$388.31	\$2,225.59	\$473.78	\$3,087.69
2040	Jabel	1	290	43	0.431	0.5212	0.0773	
	Totals:				0.431	0.5212	0.0773	
	Cost Analysis:				\$94.66	\$231.38	\$23.88	\$349.92
2050	Max Marx Color	2	225	254	8.167	7.6627	8.6503	
	Totals:				8.167	7.6627	8.6503	
	Cost Analysis:				\$1,793.75	\$3,401.73	\$2,672.58	\$7,868.06
2055	Revlon	5	172	589	3.097	2.2213	7.6066	
	Totals:				3.097	2.2213	7.6066	
	Cost Analysis:				\$680.21	\$986.11	\$2,350.12	\$4,016.44
2057	SAL Cleaners	1	500	70	3.381	7.0494	0.9869	
		99	176	135	0.111	0.0815	0.0625	
	Totals:				3.492	7.1309	1.0494	
	Cost Analysis:				\$766.96	\$3,165.63	\$324.22	\$4,256.81
2060	Cintas	1	302	485	14.499	18.2592	29.3235	
	Totals:				14.499	18.2592	29.3235	
	Cost Analysis:				\$3,184.47	\$8,105.87	\$9,059.70	\$20,350.04
2066	Wayne County Foods	1	7296	1031	0.267	8.1233	1.1479	
		99	176	135	0.070	0.0514	0.0394	
	Totals:				0.337	8.1747	1.1873	
	Cost Analysis:				\$74.02	\$3,629.02	\$366.83	\$4,069.86
IRVINGTON TOTALS					34.4060	49.6088	50.0375	
					\$7,556.71	\$22,023.07	\$15,459.43	\$45,039.21

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: MAPLEWOOD

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$219.6336356	BOD per Ton \$443.9344198	TSS per Ton \$308.9569987	
3020	Gleason Cleaners	1		200	61	1.067	0.8899	0.2714	
	Totals:					1.067	0.8899	0.2714	
	Cost Analysis:					\$234.35	\$395.05	\$83.85	\$713.25
3033	NJ Transit - Hilton Gar.	3a		382	296	5.911	9.4159	7.2961	
	Totals:					5.911	9.4159	7.2961	
	Cost Analysis:					\$1,298.25	\$4,180.03	\$2,254.17	\$7,732.45
3045	Carlton Chain	2		8	19	0.031	0.0010	0.0025	
	Totals:					0.031	0.0010	0.0025	
	Cost Analysis:					\$6.81	\$0.46	\$0.76	\$8.03
3046	UniClean	1		186	12	1.534	1.1898	0.0768	
		99		176	135	0.104	0.0763	0.0585	
	Totals:					1.638	1.2661	0.1353	
	Cost Analysis:					\$359.76	\$562.08	\$41.80	\$963.64
3050	Maplewood Beverage	1		5600	127	13.238	309.1338	7.0107	
	Totals:					13.238	309.1338	7.0107	
	Cost Analysis:					\$2,907.51	\$137,235.12	\$2,166.01	\$142,308.64
MAPLEWOOD TOTALS						20.2470	319.4406	14.5806	
						\$4,446.92	\$141,810.66	\$4,504.79	\$150,762.37

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$219.6336356	BOD per Ton \$443.9344198	TSS per Ton \$308.9569987	
5010	Bell Labs / Lucent	1	5	4	60.002	1.2510	1.0008		
	Totals:				60.002	1.2510	1.0008		
	Cost Analysis:				\$13,178.46	\$555.38	\$309.21		\$14,043.05
5011	Baxter Pharmaceutical	1	397	510	2.922	4.8373	6.2142		
	Totals:				2.922	4.8373	6.2142		
	Cost Analysis:				\$641.77	\$2,147.46	\$1,919.93		\$4,709.16
5020	Fablok Mills	4	243	87	9.388	9.5130	3.4059		
	Totals:				9.388	9.5130	3.4059		
	Cost Analysis:				\$2,061.92	\$4,223.13	\$1,052.27		\$7,337.32
5021	FRC-Electrical Ind	1	34	16	5.714	0.8101	0.3812		
	Totals:				5.714	0.8101	0.3812		
	Cost Analysis:				\$1,254.99	\$359.64	\$117.79		\$1,732.42
MURRAY HILL TOTALS						78.0260	16.4115	11.0022	
						\$17,137.13	\$7,285.62	\$3,399.19	\$27,821.94

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: ROSELLE PARK

			Cost Factors					
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$219.6336356	\$443.9344198	\$308.9569987	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
6005	Hexacon Electric	1	8	7	1.128	0.0376	0.0329	
		99	176	135	0.148	0.1086	0.0833	
	Totals:				1.276	0.1463	0.1162	
	Cost Analysis:				\$280.25	\$64.93	\$35.91	\$381.09
ROSELLE PARK TOTALS					1.2760	0.1463	0.1162	
					\$280.25	\$64.93	\$35.91	\$381.09

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	Flow per MG \$219.6336356	BOD per Ton \$443.9344198	TSS per Ton \$308.9569987	
5505	Ticona	1	172	147	10.543	7.5619	6.4628	
	Totals:				10.543	7.5619	6.4628	
	Cost Analysis:				\$2,315.60	\$3,356.97	\$1,996.71	\$7,669.28
5511	Novartis Groundwater	4	1	12	0.984	0.0041	0.0492	
	Totals:				0.984	0.0041	0.0492	
	Cost Analysis:				\$216.12	\$1.82	\$15.21	\$233.15
5512	Summit Property Co.	03A	88	62	39.232	14.3966	10.1430	
		99	176	135	10.038	7.3671	5.6509	
	Totals:				49.27	21.7637	15.7939	
	Cost Analysis:				\$10,821.35	\$9,661.64	\$4,879.65	\$25,362.63
SUMMIT TOTALS					60.7970	29.3296	22.3059	
					\$13,353.07	\$13,020.43	\$6,891.57	\$33,265.07

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$219.6336356	\$443.9344198	\$308.9569987	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7015	ACuPowder	3 (99)	176	135	0.050	0.0367	0.0281	
		4	70	71	1.625	0.4743	0.4811	
	Totals:				1.675	0.5110	0.5093	
	Cost Analysis:				\$367.89	\$226.87	\$157.34	\$752.09
7025	Allied Processing	1	111	79	0.551	0.2550	0.1815	
	Totals:				0.551	0.2550	0.1815	
	Cost Analysis:				\$121.02	\$113.22	\$56.08	\$290.32
7045	Breeze /TransTechnology	1	240	282	1.396	1.3971	1.6416	
	Totals:				1.396	1.3971	1.6416	
	Cost Analysis:				\$306.61	\$620.23	\$507.19	\$1,434.02
7060	National Envelope	1	709	1391	2.142	6.3329	12.4246	
	Totals:				2.142	6.3329	12.4246	
	Cost Analysis:				\$470.46	\$2,811.39	\$3,838.67	\$7,120.51
7070	Durex	1	77	136	5.809	1.8652	3.2944	
	Totals:				5.809	1.8652	3.2944	
	Cost Analysis:				\$1,275.85	\$828.03	\$1,017.83	\$3,121.71
7077	Electrocatalytic	2	184	76	0.300	0.2302	0.0951	
		3	212	80	0.623	0.5508	0.2078	
	Totals:				0.923	0.7809	0.3029	
	Cost Analysis:				\$202.72	\$346.69	\$93.59	\$642.99
7080	Foremost Mfg	2	42	233	20.368	3.5673	19.7898	
	Totals:				20.368	3.5673	19.7898	
	Cost Analysis:				\$4,473.50	\$1,583.63	\$6,114.18	\$12,171.31
7088	Hanovia	1	115	79	0.468	0.2244	0.1542	
	Totals:				0.468	0.2244	0.1542	
	Cost Analysis:				\$102.79	\$99.63	\$47.63	\$250.05
7092	International Paint	2	154	131	3.070	1.9715	1.6770	
	Totals:				3.070	1.9715	1.6770	
	Cost Analysis:				\$674.28	\$875.21	\$518.14	\$2,067.62
7105	Stonco Lighting	2	48	73	4.395	0.8797	1.3379	
	Totals:				4.395	0.8797	1.3379	
	Cost Analysis:				\$965.29	\$390.53	\$413.35	\$1,769.17
7145	Schering	5	35	38	186.241	27.1819	29.5117	
	Totals:				186.241	27.1819	29.5117	
	Cost Analysis:				\$40,904.79	\$12,066.97	\$9,117.86	\$62,089.62

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
			BOD (mg/l)	TSS (mg/l)	\$219.6336356	\$443.9344198	\$308.9569987	
					FLOW (MG)	BOD (Tons)	TSS (Tons)	
7150	SS Studios	1	902	297	0.143	0.5379	0.1771	
	Totals:				0.143	0.5379	0.1771	
	Cost Analysis:				\$31.41	\$238.78	\$54.72	\$324.90
7155	Tessler & Weiss	22	149	54	1.077	0.6692	0.2425	
	Totals:				1.077	0.6692	0.2425	
	Cost Analysis:				\$236.55	\$297.07	\$74.93	\$608.54
7167	Turbo Braze	1	627	127	0.477	1.2472	0.2526	
	Totals:				0.477	1.2472	0.2526	
	Cost Analysis:				\$104.77	\$553.66	\$78.05	\$736.47
7170	Tuscan Dairy	2a	1245	691	118.900	617.2872	342.6068	
		2b	739	427	22.600	69.6448	40.2413	
	Totals:				141.500	686.9320	382.8481	
	Cost Analysis:				\$31,078.16	\$304,952.77	\$118,283.61	\$454,314.53
UNION TOTALS					370.2350	734.3532	454.3453	
					\$81,316.06	\$326,004.67	\$140,373.15	\$547,693.87

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: WEST ORANGE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$219.6336356	BOD per Ton \$443.9344198	TSS per Ton \$308.9569987	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
8030	Organon	1	100	119	17.909	7.4681	8.8870	
	Totals:				17.909	7.4681	8.8870	
	Cost Analysis:				\$3,933.42	\$3,315.33	\$2,745.70	\$9,994.44
8040	Turtle Back Zoo	1	6	9	0.110	0.0028	0.0041	
	Totals:				0.110	0.0028	0.0041	
	Cost Analysis:				\$24.16	\$1.22	\$1.28	\$26.66
WEST ORANGE TOTALS					18.0190	7.4708	8.8911	
					\$3,957.58	\$3,316.55	\$2,746.97	\$10,021.10

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$194.1245117	\$443.9344198	\$308.9569987	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
0025	Interbake Foods	3	932	791	45.261	175.9042	149.2921	
	Totals:				45.261	175.9042	149.2921	
	Cost Analysis:				\$8,786.27	\$78,089.91	\$46,124.82	\$133,001.01
0033	Cargill Citro Pure	1	561	149	0.809	1.8926	0.5027	
	Totals:				0.809	1.8926	0.5027	
	Cost Analysis:				\$157.05	\$840.17	\$155.30	\$1,152.51
0037	Deb-El Foods	1	1039	161	4.673	20.2464	3.1373	
	Totals:				4.673	20.2464	3.1373	
	Cost Analysis:				\$907.14	\$8,988.06	\$969.29	\$10,864.50
0062	Garcia Laundry	2	641	275	3.059	8.1766	3.5079	
	Totals:				3.059	8.1766	3.5079	
	Cost Analysis:				\$593.83	\$3,629.88	\$1,083.79	\$5,307.50
0070	LORCO	2	4150	42	15.631	270.5023	2.7376	
	Totals:				15.631	270.5023	2.7376	
	Cost Analysis:				\$3,034.36	\$120,085.27	\$845.80	\$123,965.43
0067	Purepac Pharmaceutical	1	663	244	5.812	16.0685	5.9136	
	99		176	135	6.252	4.5885	3.5196	
	Totals:				12.0640	20.6570	9.4332	
	Cost Analysis:				\$2,341.92	\$9,170.34	\$2,914.44	\$14,426.69
0078	Magnolia Beef	1	820	736	0.635	2.1713	1.9489	
	Totals:				0.635	2.1713	1.9489	
	Cost Analysis:				\$123.27	\$963.92	\$602.12	\$1,689.32
0091	NJ Turnpike Authority	1	5	4	1.252	0.0261	0.0209	
	Totals:				1.252	0.0261	0.0209	
	Cost Analysis:				\$243.04	\$11.59	\$6.45	\$261.08
0093	OENJ	4	10	63	10.980	0.4579	2.8846	
	Totals:				10.980	0.4579	2.8846	
	Cost Analysis:				\$2,131.49	\$203.26	\$891.20	\$3,225.95
0098	Olympia Trails	1	915	207	1.111	4.2391	0.9590	
	99		176	135	0.201	0.1475	0.1132	
	Totals:				1.312	4.3866	1.0722	
	Cost Analysis:				\$254.69	\$1,947.36	\$331.25	\$2,533.30
0100	Michaels Foods - North Avenue Facility	4	1741	494	50.599	367.3472	104.2329	
	99		176	135	22.861	16.7781	12.8696	
	Totals:				73.46	384.1254	117.1025	
	Cost Analysis:				\$14,260.39	\$170,526.47	\$36,179.65	\$220,966.50

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2004

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
			BOD (mg/l)	TSS (mg/l)	\$194.1245117	\$443.9344198	\$308.9569987	
					FLOW (MG)	BOD (Tons)	TSS (Tons)	
0105	Michaels Foods - Papetti Plaza Facility	2	2773	664	45.107	521.5907	124.8959	
		2a	2929	485	2.451	29.9363	4.9570	
		2b	2897	845	1.471	17.7704	5.1833	
		3	978	762	1.226	4.9999	3.8957	
		Totals:			50.255	574.2974	138.9318	
		Cost Analysis:			\$9,755.73	\$254,950.39	\$42,923.97	\$307,630.09
0120	Phelps Dodge	1	14	19	4.010	0.2341	0.3177	
		99	176	135	0.295	0.2165	0.1661	
		Totals:			4.305	0.4506	0.4838	
		Cost Analysis:			\$835.71	\$200.04	\$149.47	\$1,185.22
0148	Superior Powder Coating	1	42	37	2.121	0.3715	0.3272	
		99	176	135	0.536	0.3934	0.3017	
		Totals:			2.657	0.7649	0.6290	
		Cost Analysis:			\$515.79	\$339.54	\$194.33	\$1,049.66
0155	S&G Packaging	1	451	262	6.932	13.0368	7.5735	
		2	187	394	1.149	0.8960	1.8878	
		3	727	298	0.840	2.5465	1.0438	
		Totals:			8.921	16.4793	10.5051	
		Cost Analysis:			\$1,731.78	\$7,315.74	\$3,245.63	\$12,293.15
0165	Wakefern Food Corp.	2	218	179	3.203	2.9117	2.3908	
		3	436	438	8.231	14.9649	15.0336	
		4	151	189	0.452	0.2846	0.3562	
		7	2,108	1020	0.305	2.6811	1.2973	
		Totals:			12.191	20.8423	19.0779	
		Cost Analysis:			\$2,366.57	\$9,252.63	\$5,894.26	\$17,513.46
ELIZABETH TOTALS					247.4650	1,501.3807	461.2674	
					\$48,039.02	\$666,514.58	\$142,511.78	\$857,065.39