

December 17, 2004

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 2005)

I present herewith the 70th 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, 2003 through October 31, 2004. 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 2005. 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 2004, 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 19, 2003.

During 2004, 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 (2005) dwelling unit figures formulated by each municipality in 2004.

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, 366 day period of November 1, 2003, through October 31, 2004 and projected for a twelve (12) month period in 2005. 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 2005, 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 366 day period from November 1, 2003, through October 31, 2004, and projected for 2005 and are based upon actual 2003-2004 operating statistics as well as a recent upgraded 2004 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	25,679.0760 MG/Year	70.1614 MGD
2.	BOD	19,783.7826 Tons/Year	108,108.1016 Lbs/Day
	TSS	16,556.0473 Tons/Year	90,470.2038 Lbs/Day
3.	Estimated Industrial Flow	870.3210 MG/Year	2.3779 MGD
4.	Estimated Industrial BOD	3,230.6608 Tons/Year	17,653.8842 Lbs/Day
5.	Estimated Industrial TSS	1,238.7001 Tons/Year	6,768.8530 Lbs/Day
6.	Estimated Total Operating Expenses in 2005		
			\$13,733,430 STP
			5,638,925 SDWF
			544,059 SDF
			604,837 Sewers
			<hr/> \$20,521,251 Total
7.	Estimated Total Dwelling Units in System		
			149,703 JM Members
			47,181 Elizabeth
			<hr/> 196,884 Total

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

Flow	29.3235025%
BOD	46.3389547%
Suspended Solids	24.3375428%

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 2005 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 2005

Treatment Plant

	<u>Total for 2005</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	25,679.0760 MG/Yr. ¹	24,808.7550 MG/Yr.	870.3210 MG/Yr.
BOD	19,783.7826 Tons/Yr. ¹	16,553.1218 Tons/Yr.	3,230.6608 Tons/Yr.
Suspended Solids	16,556.0473 Tons/Yr. ¹	15,317.3472 Tons/Yr.	1,238.7001 Tons/Yr.

(1) Based upon data from November 1, 2003 thru October 31, 2004 (366 days)

Cost Allocation

	<u>Total for 2005</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	\$5,813,799.00	\$5,616,756.00	\$197,043.00
BOD	9,187,353.00	7,687,073.00	1,500,280.00
Suspended Solids	4,825,262.00	4,464,243.00	361,019.00
	<u>\$19,826,414.00</u>	<u>\$17,768,072.00</u>	<u>\$2,058,342.00</u>
	100.000000%	89.61818310%	10.38181690%

Elizabeth Contribution

Flow	-	6,174.3290 MG/Yr.
BOD	-	7,107.9057 Tons/Yr.
TSS	-	4,113.0470 Tons/Yr.

Trunk Sewer Flow¹

<u>Total for 2005</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
19,504.7470 MG/Yr. ²	18,924.6340 MG/Yr.	580.113 MG/Yr.

(1) Based upon data from November 1, 2003 thru October 31, 2004 (366 days)

(2) (25,679.076 - 6,174.3290)

COST ALLOCATION

\$604,837.00	\$586,847.85	\$17,989.15
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Member municipalities will be assessed \$3.92 (\$586,847.85/149,703) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$257.41 per MG for flow, \$464.39 per ton of BOD, and \$291.45 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	\$197,043.00	/	870.3210	=	\$226.4026721	/MG
BOD	\$1,500,280.00	/	3,230.6608	=	\$464.3879667	/Ton
Suspended Solids	\$361,019.00	/	1,238.7001	=	\$291.4498836	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$31.01/MG of flow for trunk sewer use ($\$17,989.15/580.113 = \$31.010/\text{MG}$). This brings the total flow cost to \$257.41/MG ($\$226.403 + \31.010) for the indicated industries of member municipalities.

Based upon the user charges for 2005, 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 2004 industrial waste survey of the service area. These are estimates for 2005 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 \$20,431,251 for 2005. 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 31.3845970% 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
2005

<u>Municipality</u>	<u>Dwelling Units ¹</u>	<u>User Charges Industrial</u>
East Orange	7,198	\$ -
Hillside	8,469	73,372
Irvington	26,541	46,415
Maplewood	9,306	149,609
Millburn	9,821 ⁴	-
Newark	16,972	-
Roselle Park	4,744	418
South Orange	7,801	-
Summit	14,132 ²	58,678 ³
Union	24,854	436,767
West Orange	19,865	22
Elizabeth	47,181	1,311,051
	<u>196,884</u>	<u>\$ 2,076,332</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 (3800)

(3) Includes Murray Hill

(4) Includes Livingston (428)

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

For Period 11/1/2003-10/31/2004 and Projected Contribution for 2005

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	25,679.076 MG	6,174.329 MG		19,504.747 MG	
		Industrial	D&C	Industrial	D&C
		278.511	5,895.818	580.113	18,924.634
		\$ 63,055.63	\$ 1,334,828.95	\$ 149,328.28	\$ 4,871,435.58
Unit Charge \$ 226.4026721 Per MG for Elizabeth					
Unit Charge \$ 257.4124064 Per MG for Joint Meeting					
BOD:	19,783.7826 Tons	7,107.9057 Tons		12,675.8769 Tons	
		Industrial	D&C	Industrial	D&C
		2,209.5566	4,898.3491	1,002.3896	11,673.4873
		\$ 1,026,091.50	\$ 2,274,734.38	\$ 465,497.67	
Unit Charge	\$464.3879667 Per Ton				
TSS:	16,556.0473 Tons	4,113.0470 Tons		12,443.0003 Tons	
		Industrial	D&C	Industrial	D&C
		705.6174	3,407.4296	516.2273	11,926.773
		\$ 205,652.11	\$ 993,094.96	\$ 150,454.39	
Unit Charge	\$291.4498836 Per Ton				
			\$ 5,897,457.53	\$ 765,280.34	

City of Elizabeth (Contribution from Pumping Station) \$ 5,897,457.53

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

Flow:	11.6970 MG/Year at	\$ 226.4026721	2,648.23
BOD:	18.7146 Tons/Year at	464.3879667	8,690.84
TSS:	16.8554 Tons/Year at	291.4498836	4,912.50

Joint Meeting Industrial	765,280.34
Subtotal	\$ 6,678,989.44

Total 2005 Budget	\$ 20,521,251.00
Subtotal (above)	(6,678,989.44)
Subtotal (EDU's)	\$ 13,842,261.56

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 13,842,262
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)
 149,703 (X + \$3.92008076) + 3905 (X) = \$ 13,842,262

Equivalent Units-Member Municipalities 149,703

Elmora EDU's = 3,905 \$86.2937718740 Per Unit = X
 \$90.2138526340 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 13,505,284.38
 Elmora Area Assessment \$ 336,977.18

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 5,897,457.53

Elmora EDU's 336,977.18

Elmora Industrial 16,251.57

\$ 6,250,686.28

Total Anticipated Payment from Member Municipalities

EDU's 13,505,284.38

Industrial 765,280.34

\$ 14,270,564.72

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

\$ 6,250,686.28 / \$ 19,916,414.00 = 31.3845970%

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

Municipality	Base Year - 1982		Base Year - 1982		Base Year - 1982	
	Capacity By Contract	Capacity By Contract	Phase IIB - SSES ¹	Infiltration	Phase IIB - SSES ²	Inflow
	(MGD)	(Percent)	(GPD) ³	(Percent)	(GPD) ⁴	(Percent)
East Orange	5.50	4.88%	70,747	2.11%	54,840	5.79%
Hillside	12.20	10.83%	79,012	2.36%	33,354	2.28%
Irvington	18.61	16.52%	1,115,672	33.31%	804,384	16.57%
Maplewood	7.08	6.29%	389,078	11.62%	201,352	10.48%
Millburn	6.00	5.33%	191,609	5.72%	153,674	5.25%
Newark	15.50	13.76%	234,484	7.00%	186,209	3.77%
Roselle Park	9.44	8.38%	106,187	3.17%	65,685	3.03%
South Orange	7.00	6.22%	410,876	12.27%	84,715	4.20%
Summit	7.50	6.66%	171,657	5.13%	65,480	7.02%
Union	10.30	9.14%	329,127	9.83%	240,231	27.96%
West Orange	13.50	11.99%	250,811	7.48%	156,334	13.65%
					154,847	
					2,046,258	
	112.63	100.00%	3,349,260	100.00%	2,027,350	100.00%
					51,986,580	100.00%
					48,238,920	100.00%
					68,176,319	100.00%
					4,247,385	6.23%
					3,007,440	5.79%
					1,677,137	2.28%
					1,185,120	2.46%
					11,010,475	16.15%
					7,791,840	16.57%
					7,703,924	11.30%
					5,449,680	10.48%
					3,367,910	5.25%
					2,384,640	4.94%
					2,754,323	4.04%
					1,951,200	3.77%
					2,229,366	3.03%
					1,576,080	4.20%
					3,006,576	4.41%
					2,126,160	3.88%
					2,645,241	29.33%
					1,872,720	13.99%
					19,996,114	
					14,149,440	
					9,537,868	
					6,744,600	
					68,176,319	
					48,238,920	

(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) 2004 - Infiltration related to base year total = 2.027 MGD / 52.79 MGD = 3.83974238%

- Adjusted for period 11/1/2003 - 10/31/2004; (3.83974238% x 19,504,7470 = 748.93 MG / Year / 366 = 2,046,258 GPD)

(5) 2004 inflow adjusted for period 11/1/2003 - 10/31/2004 - (46.95" / 33.22") x (48,238,920) = 68,176,319 GPD

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 2004 - Summary of Infiltration and Inflow

Municipality	Phase IIB		2004		Phase IIB		2003		2004		2003		2004	
	SSES Infiltration (GPD)		Infiltration Removed (GPD)		SSES Inflow (GPD)		Infiltration (GPD)		Infiltration Removed (GPD)		Inflow (GPD)		Inflow Removed (GPD)	
East Orange	70,747		-	54,327	3,007,440		54,327	3,007,440	-	54,327	3,007,440		-	3,007,440
Hillside	79,012		-	32,980	1,185,120		32,980	1,185,120	-	32,980	1,185,120		-	1,185,120
Irvington	1,115,672		-	797,026	8,612,640		797,026	8,612,640	-	797,026	8,612,640		-	7,791,840
Maplewood	389,078		-	199,485	5,449,680		199,485	5,449,680	-	199,485	5,449,680		-	5,449,680
Millburn	191,609		-	152,240	2,729,520		152,240	2,729,520	-	152,240	2,384,640		-	2,384,640
Newark	234,484		-	184,463	1,959,540		184,463	1,959,540	-	184,463	1,951,200		-	1,951,200
Roselle Park	106,187		-	65,147	1,576,080		65,147	1,576,080	-	65,147	1,576,080		-	1,576,080
South Orange	410,876		-	83,906	2,183,760		83,906	2,183,760	-	83,906	2,158,560		32,400	2,126,160
Summit	171,657		-	64,916	3,651,120		64,916	3,651,120	-	64,916	1,872,720		-	1,872,720
Union	329,127		-	238,013	14,534,640		238,013	14,534,640	-	238,013	14,178,240		28,800	14,149,440
West Orange	250,811		-	154,847	7,097,040		154,847	7,097,040	-	154,847	6,744,600		-	6,744,600
Total	3,349,260		-	2,027,350	51,986,580		2,027,350	48,300,120	-	2,027,350	48,300,120		61,200	48,238,920

Table V

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

			Total	Domestic & Commercial	Industrial
Flow			19,504.7470 MG	18,924.6340 MG	580.1130 MG
			\$4,757,529.03	\$4,608,200.75	
Infiltration	3.8397424%		748.93	726.66	\$149,328.28
Inflow	9.9271218%		1,936.26	1,878.67	22.27
					\$457,461.34
BOD	at \$464.3879667	Per Ton	12,675.8769 Tons	11,673.4873 Tons	1,002.3896 Tons
			\$5,886,524.70	\$5,421,027.03	\$465,497.67
TSS	at \$291.4498836	Per Ton	12,443.0003 Tons	11,926.7730 Tons	516.2273 Tons
			\$3,626,510.99	\$3,476,056.60	\$150,454.39
Total			\$14,270,564.72 ¹	\$13,505,284.38	\$765,280.34
(1) Amount anticipated from Members after allocation of 31.3845970% to City of Elizabeth \$ 6,250,686.28					
<u>"Base Year - 1982"</u>					
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)	
<u>"2003 - 2004"</u>					
Infiltration:	2.027 MGD/52.79MGD =		3.83974238%	X	748.93 MG / Year
				(November 1, 2003 - October 31, 2004)	
Inflow:	Rainfall = 46.95 Inches X 50 MG X 82.482%			1,936.26	MG / Year
Total D&C			\$13,505,284.38		
Less: Infiltration			(176,943.72)		
Less: Inflow			(457,461.34)		
Net after infiltration and inflow			<u>\$12,870,879.32</u>		
Equivalent Dwelling Units			149,703		
User Charge Per Unit			\$85.9760948010394		

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2005

		Domestic & Commercial					
Municipality	Dwelling Units	User Charge		Infiltration		Inflow	
		\$	Per Unit	Percent ¹	Amount	Percent ²	Amount
East Orange	7,198		\$618,855.93	2.68%	\$4,742.09	6.23%	\$28,499.84
Hillside	8,469		728,131.55	1.63%	2,884.18	2.46%	11,253.55
Irvington	26,541		2,281,891.53	39.31%	69,556.58	16.15%	73,880.01
Maplewood	9,306		800,093.54	9.84%	17,411.26	11.30%	51,693.13
Millburn	9,821 ³		844,371.23	7.51%	13,288.47	4.94%	22,598.59
Newark	16,972		1,459,186.28	9.10%	16,101.88	4.04%	18,481.44
Roselle Park	4,744		407,870.59	3.21%	5,679.89	3.27%	14,958.99
South Orange	7,801		670,699.52	4.14%	7,325.47	4.41%	20,174.05
Summit	14,132 ⁴		1,215,014.17	3.20%	5,662.20	3.88%	17,749.50
Union	24,854		2,136,849.86	11.74%	20,773.19	29.33%	134,173.41
West Orange	19,865		1,707,915.12	7.64%	13,518.50	13.99%	63,998.84
	149,703		\$12,870,879.32	100.00%	\$176,943.71	100.00%	\$457,461.35
							\$13,505,284.38
							89,8783
							\$90.2139
							\$83.1509 2004
							\$76.7220 2003
							\$71.5620 2002
							\$68.7300 2001

(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 (428)

(4) Includes New Providence (3800)

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2005

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 3.839742%	Inflow 9.927122%		
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	115.4928	53,633.47	24.3102	7,085.20	42.39	1.89	4.88	12,653.62	73,372.29
Irvington	48.1924	22,379.97	54.7592	15,959.56	27.05	1.20	3.11	8,074.77	46,414.30
Maplewood	286.0883	132,855.96	29.8285	8,693.51	27.00	1.20	3.11	8,058.81	149,608.28
Millburn	0.0000	0.00	0.0000	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
Roselle Park	0.1152	53.50	0.2045	59.60	1.02	0.05	0.12	305.03	418.13
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Summit ⁴	33.2451	15,438.62	40.6317	11,842.10	105.18	4.68	12.11	31,397.88	58,678.60
Union	519.2528	241,134.75	366.4880	106,812.88	297.55	13.25	34.25	88,819.38	436,767.01
West Orange	0.0030	1.39	0.0052	1.52	0.06	0.00	0.01	18.79	21.70
	1,002.3896	\$ 465,497.66	516.2273	\$150,454.37	500.25	22.28	57.59	\$149,328.28	\$765,280.31

(1) At \$464.3879667/Ton

(2) At \$291.4498836/Ton

(3) At \$257.4124064/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
2005

Domestic & Commercial					
Municipality	Total Assessments ¹	User Charge		Infiltration / Inflow Charges	Assessment Percentage
		Domestic Sewage 85.9760948	User Charges Industrial		
East Orange	\$652,097.86	\$618,855.93	\$0.00	\$33,241.93	4.5695%
Hillside	815,641.57	728,131.55	73,372.29	14,137.73	5.7156%
Irvington	2,471,742.42	2,281,891.53	46,414.30	143,436.59	17.3206%
Maplewood	1,018,806.21	800,093.54	149,608.28	69,104.39	7.1392%
Millburn	880,258.29	844,371.23	0.00	35,887.06	6.1683%
Newark	1,493,769.60	1,459,186.28	0.00	34,583.32	10.4675%
Roselle Park	428,927.60	407,870.59	418.13	20,638.88	3.0057%
South Orange	698,199.04	670,699.52	0.00	27,499.52	4.8926%
Summit	1,297,104.47	1,215,014.17	58,678.60	23,411.70	9.0894%
Union	2,728,563.47	2,136,849.86	436,767.01	154,946.60	19.1202%
West Orange	1,785,454.16	1,707,915.12	21.70	77,517.34	12.5114%
	<u>\$14,270,564.69</u>	<u>\$12,870,879.32</u>	<u>\$765,280.31</u>	<u>\$634,405.06</u>	<u>100.0000%</u>
Elizabeth	6,250,686.28				
Total	<u><u>\$20,521,250.97</u></u>				

(1) Reflects anticipated payment of \$6,250,686.28 from the City of Elizabeth which is 31.384597% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2005 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 2005 Assessment with 2004 Assessment

Municipality	2004	2005		Comparison	
				Amount	Percentage
East Orange	\$602,662.76	\$652,097.86	(+)	\$49,435.10	8.20%
Hillside	741,814.93	815,641.57	(+)	73,826.64	9.95%
Irvington	2,277,382.25	2,471,742.42	(+)	194,360.17	8.53%
Maplewood	950,890.10	1,018,806.21	(+)	67,916.11	7.14%
Millburn	807,915.96	880,258.29	(+)	72,342.33	8.95%
Newark	1,376,726.67	1,493,769.60	(+)	117,042.93	8.50%
Roselle Park	395,173.72	428,927.60	(+)	33,753.88	8.54%
South Orange	584,083.24	698,199.04	(+)	114,115.80	19.54%
Summit	1,196,764.50	1,297,104.47	(+)	100,339.97	8.38%
Union	2,650,212.88	2,728,563.47	(+)	78,350.59	2.96%
West Orange	1,656,481.97	1,785,454.16	(+)	128,972.19	7.79%
	<u>\$13,240,108.98</u>	<u>\$14,270,564.69</u>	(+)	<u>\$1,030,455.71</u>	<u>7.78%</u>
Elizabeth	5,556,268.03	6,250,686.28	(+)	\$ 694,418.25	12.50%
Total	<u>\$18,796,377.00</u>	<u>\$20,521,250.97</u>	<u>(+)</u>	<u>\$1,724,873.96</u>	<u>9.18%</u>

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

City of Elizabeth percentage

2001	36.20564720%
2002	34.05411240%
2003	32.11408370%
2004	30.39138410%

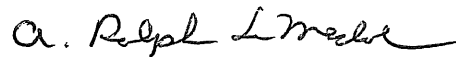
Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2005 as a result of the Agreement with the City of Elizabeth which requires 31.3845970% of the 2005 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 31.3845970% 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 2004.

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 2005 are apportioned as follows:

	<u>2005</u>	<u>2004</u>		<u>2005</u>	<u>2004</u>
East Orange	4.5695%	4.5518%	Roselle Park	3.0057%	2.9847%
Hillside	5.7156%	5.6028%	South Orange	4.8926%	4.4115%
Irvington	17.3206%	17.2006%	Summit	9.0894%	9.0389%
Maplewood	7.1392%	7.1819%	Union	19.1202%	20.0165%
Millburn	6.1683%	6.1020%	West Orange	12.5114%	12.5111%
Newark	10.4675%	10.3982%	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
2005 Budget

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1,533,153	\$ 161,882	\$ 27,964	\$ -	\$ 1,722,999
Gas Service	7,040	22,000	-	-	29,040
Fuel, Oil & Kerosene	83,300	137,700	-	-	221,000
Water Service	181,000	60,000	3,500	-	244,500
Chemicals	512,700	652,500	6,800	2,200	1,174,200
Sludge Disposal	-	2,200,000	-	-	2,200,000
Insurance	478,987	118,893	55,395	5,637	658,912
Administration	1,251,000	647,000	20,000	116,000	2,034,000
Labor	4,281,000	761,000	108,000	5,000	5,155,000
Benefits	1,716,550	303,950	48,100	56,500	2,125,100
Equipment	227,200	51,000	-	-	278,200
Printing & Stationery	20,000	3,000	-	2,000	25,000
Maintenance, Supplies & Spare Parts	1,015,000	368,200	10,000	264,300	1,657,500
Screening Disposal	140,000	-	-	-	140,000
Reserve Contingency	145,000	-	-	-	145,000
Miscellaneous Expenses	190,000	65,000	6,000	130,000	391,000
Technical & Professional Services	406,500	80,000	-	15,000	501,500
Replacement Fund	1,250,000	-	-	-	1,250,000
NJPDES & Miscellaneous Permit Fee:	295,000	6,800	258,300	8,200	568,300
	\$ 13,733,430	\$ 5,638,925	\$ 544,059	\$ 604,837	\$ 20,521,251
	66.92%	27.48%	2.65%	2.95%	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	\$ 1,727,227	80%	\$ 1,381,782	10%	\$ 172,723	10%	\$ 172,722
Power	1,533,153	40%	\$ 613,261	5%	\$ 76,658	55%	\$ 843,234
Chlorine	369,000	40%	\$ 147,600			60%	\$ 221,400
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	2,637,200	28%	\$ 738,416	27%	\$ 712,044	45%	\$ 1,186,740
Fuel, Oil & Kerosene	83,300	40%	\$ 33,320	30%	\$ 24,990	30%	\$ 24,990
Administration, Labor & Benefits (Payroll Retirement)	7,248,550	40%	2,899,420	10%	\$ 724,855	50%	\$ 3,624,275
Sludge Processing 2	45,000			50%	\$ 22,500	50%	\$ 22,500
Total	\$13,643,430		\$ 5,813,799		\$ 1,733,770		\$ 6,095,861
	100%		42.6124442%		12.7077282%		44.6798276%

(1) General Expenditures
(From the Approved Budget)

Insurance \$ 478,987
Technical & Professional Services 406,500
Stationery & Printing 20,000
Gas 7,040
Water 181,000
Miscellaneous 190,000
Service Contracts 140,000
Permit Fees 295,000
Sodium Bisulfite & Misc. Chemicals 8,700

\$1,727,227

(2) Sludge Processing

Polymer \$ 45,000
K2MnO4 -

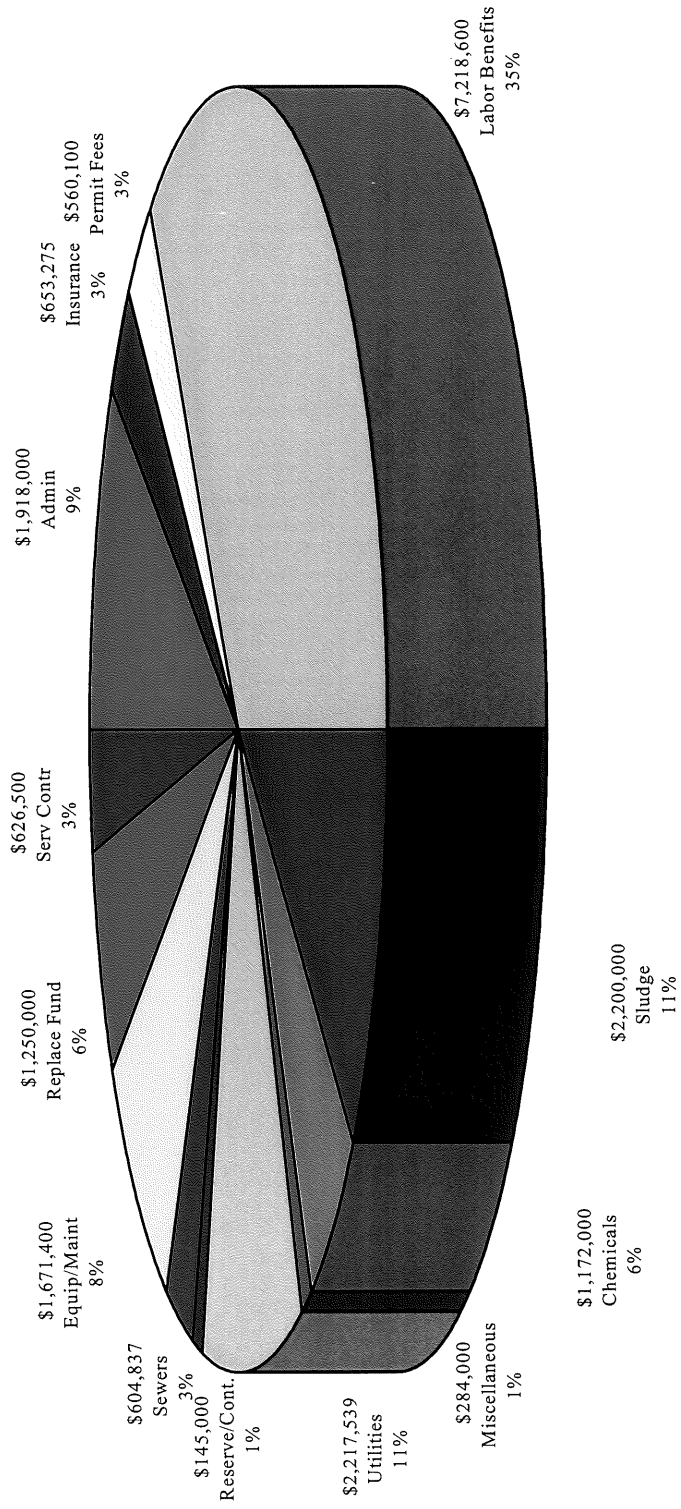
\$ 45,000

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	\$ 13,643,430	\$ 5,813,799	\$ 1,733,770	\$ 6,095,861
Dewatering Facility	5,638,925		2,819,463	2,819,463
Drying Facility	544,059		272,030	272,030
	<u>\$ 19,826,414</u>	<u>\$ 5,813,799</u>	<u>\$ 4,825,262</u>	<u>\$ 9,187,353</u>
Subtotal	100.00%	29.3235025%	24.3375428%	46.3389547%
Sewers 1	\$ 604,837			
Total	<u>\$ 20,431,251</u>			

(1) Joint Meeting Members Only

Joint Meeting of Essex & Union Counties 2005 O&M Budget



JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005 SUMMARY

MUNICIPALITY	FLOW (MG)	LOADINGS	
		BOD (tons)	TSS (tons)
HILLSIDE	49.157	115.49278287	24.31017009
IRVINGTON	31.369	48.19238559	54.75917649
MAPLEWOOD	31.307	286.08832104	29.82846453
MURRAY HILL	72.576	13.54973529	14.17728693
ROSELLE PARK	1.185	0.11516706	0.20452599
SUMMIT	49.399	19.69539789	26.45443830
UNION	345.047	519.25282437	366.48799353
WEST ORANGE	0.073	0.00304410	0.00517497
<i>MEMBERS TOTAL</i>	580.113	1002.38965821	516.22723083
<i>ELIZABETH</i>	290.208	2228.27121702	722.47283292
GRAND TOTAL	870.321	3230.66087523	1238.70006375

MUNICIPALITY	FLOW	COSTS		
		BOD	TSS	TOTAL
HILLSIDE	\$12,653.62	\$53,633.46	\$7,085.20	\$73,372.28
IRVINGTON	\$8,074.77	\$22,379.96	\$15,959.56	\$46,414.29
MAPLEWOOD	\$8,058.81	\$132,855.97	\$8,693.50	\$149,608.29
MURRAY HILL	\$18,681.96	\$6,292.33	\$4,131.97	\$29,106.27
ROSELLE PARK	\$305.03	\$53.48	\$59.61	\$418.12
SUMMIT	\$12,715.92	\$9,146.31	\$7,710.14	\$29,572.36
UNION	\$88,819.38	\$241,134.76	\$106,812.88	\$436,767.02
WEST ORANGE	\$18.79	\$1.41	\$1.51	\$21.71
<i>MEMBERS TOTAL</i>	\$149,328.28	\$465,497.70	\$150,454.37	\$765,280.34
<i>ELIZABETH</i>	\$65,703.87	\$1,034,782.34	\$210,564.62	\$1,311,050.83
GRAND TOTAL	\$215,032.15	\$1,500,280.03	\$361,018.99	\$2,076,331.17

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2005
COST FACTORS**

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$257.4124064	\$464.3879667	\$291.4498836
ELIZABETH	\$226.4026721	\$464.3879667	\$291.4498836

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	Flow per MG \$257.4124064	BOD per Ton \$464.3879667	TSS per Ton \$291.4498836	
1015	Bristol-Myers R&D	1	170	99	3.865	2.7399	1.5956	
	Totals:				3.865	2.7399	1.5956	
	Cost Analysis:				\$994.90	\$1,272.38	\$465.03	\$2,732.31
1035	ECD	2	16	9	11.137	0.7431	0.4180	
		3	109	172	0.630	0.2864	0.4519	
	Totals:				11.767	1.0294	0.8698	
	Cost Analysis:				\$3,028.97	\$478.05	\$253.51	\$3,760.53
1042	GEC Marconi / BAE	1	2	9	8.971	0.0748	0.3367	
	Totals:				8.971	0.0748	0.3367	
	Cost Analysis:				\$2,309.25	\$34.74	\$98.13	\$2,442.12
1050	Manhattan Drug Co.	4	369	260	0.747	1.1494	0.8099	
	Totals:				0.747	1.1494	0.8099	
	Cost Analysis:				\$192.29	\$533.78	\$236.04	\$962.11
1054	Oasis Foods	3	1062	236	5.495	24.3348	5.4077	
		99	190	157	0.754	0.5974	0.4936	
	Totals:				6.249	24.9322	5.9014	
	Cost Analysis:				\$1,608.57	\$11,578.22	\$1,719.96	\$14,906.75
1058	Quest Industries	1	13	106	1.859	0.1008	0.8217	
		2	405	973	0.490	0.8275	1.9881	
	Totals:				2.349	0.9283	2.8098	
	Cost Analysis:				\$604.66	\$431.10	\$818.93	\$1,854.69
1088	Production Services	1	889	232	7.035	26.0797	6.8059	
	Totals:				7.035	26.0797	6.8059	
	Cost Analysis:				\$1,810.90	\$12,111.08	\$1,983.59	\$15,905.57
1090	Union Beverages	2	1718	152	8.174	58.5590	5.1810	
	Totals:				8.174	58.5590	5.1810	
	Cost Analysis:				\$2,104.09	\$27,194.11	\$1,510.00	\$30,808.20
HILLSIDE TOTALS					49.1570	115.4928	24.3102	
					\$12,653.62	\$53,633.46	\$7,085.20	\$73,372.28

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
			BOD (mg/l)	TSS (mg/l)	\$257.4124064	\$464.3879667	\$291.4498836	
					FLOW (MG)	BOD (Tons)	TSS (Tons)	
2030	Hi-Speed Plating	1	22	13	0.095	0.0087	0.0051	
		99	190	157	0.099	0.0784	0.0648	
	Totals:				0.194	0.0872	0.0700	
	Cost Analysis:				\$49.94	\$40.47	\$20.39	\$110.80
2035	Industrial Retaining Ring /TRUARC	3	48	66	1.853	0.3709	0.5100	
	Totals:				1.853	0.3709	0.5100	
	Cost Analysis:				\$476.99	\$172.24	\$148.63	\$797.86
2036	Intergel	1	617	105	1.457	3.7487	0.6379	
	Totals:				1.457	3.7487	0.6379	
	Cost Analysis:				\$375.05	\$1,740.85	\$185.93	\$2,301.83
2040	Jabel	1	437	48	0.541	0.9859	0.1083	
	Totals:				0.541	0.9859	0.1083	
	Cost Analysis:				\$139.26	\$457.82	\$31.56	\$628.64
2050	Max Marx Color	2	133	410	8.349	4.6304	14.2743	
	Totals:				8.349	4.6304	14.2743	
	Cost Analysis:				\$2,149.14	\$2,150.32	\$4,160.24	\$8,459.70
2055	Revlon	5	161	457	2.651	1.7798	5.0520	
	Totals:				2.651	1.7798	5.0520	
	Cost Analysis:				\$682.40	\$826.52	\$1,472.40	\$2,981.32
2057	SAL Cleaners	1	552	77	3.155	7.2623	1.0130	
		99	190	157	0.095	0.0753	0.0622	
	Totals:				3.25	7.3376	1.0752	
	Cost Analysis:				\$836.59	\$3,407.48	\$313.38	\$4,557.45
2060	Cintas	1	536	631	12.181	27.2260	32.0515	
		99	190	157	0.65	0.5150	0.4255	
	Totals:				12.831	27.7410	32.4770	
	Cost Analysis:				\$3,302.86	\$12,882.58	\$9,465.43	\$25,650.87
2066	Wayne County Foods	1	2401	820	0.143	1.4317	0.4890	
		99	190	157	0.100	0.0792	0.0655	
	Totals:				0.243	1.5110	0.5544	
	Cost Analysis:				\$62.55	\$701.68	\$161.59	\$925.82
IRVINGTON TOTALS					31.3690	48.1924	54.7592	
					\$8,074.77	\$22,379.96	\$15,959.56	\$46,414.29

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: MAPLEWOOD

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	Flow per MG \$257.4124064	BOD per Ton \$464.3879667	TSS per Ton \$291.4498836	
3020	Gleason Cleaners	1	323	90	0.991	1.3348	0.3719	
	Totals:				0.991	1.3348	0.3719	
	Cost Analysis:				\$255.10	\$619.86	\$108.40	\$983.35
3033	NJ Transit - Hilton Gar.	3a	442	280	5.165	9.5198	6.0307	
	Totals:				5.165	9.5198	6.0307	
	Cost Analysis:				\$1,329.54	\$4,420.89	\$1,757.63	\$7,508.06
3045	Carlton Chain	2	46	27	0.031	0.0059	0.0035	
	Totals:				0.031	0.0059	0.0035	
	Cost Analysis:				\$7.98	\$2.76	\$1.02	\$11.76
3046	UniClean	1	59	8	1.729	0.4254	0.0577	
		99	190	157	0.13	0.1030	0.0851	
	Totals:				1.859	0.5284	0.1428	
	Cost Analysis:				\$478.53	\$245.38	\$41.62	\$765.52
3050	Maplewood Beverage	1	2832	240	23.261	274.6994	23.2796	
	Totals:				23.261	274.6994	23.2796	
	Cost Analysis:				\$5,987.67	\$127,567.09	\$6,784.84	\$140,339.60
MAPLEWOOD TOTALS					31.3070	286.0883	29.8285	
					\$8,058.81	\$132,855.97	\$8,693.50	\$149,608.29

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$257.4124064	\$464.3879667	\$291.4498836	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5010	Bell Labs / Lucent	1	6	15	56.039	1.4021	3.5052	
	Totals:				56.039	1.4021	3.5052	
	Cost Analysis:				\$14,425.13	\$651.12	\$1,021.60	\$16,097.85
5011	Baxter Pharmaceutical	1	451	534	3.678	6.9171	8.1901	
	Totals:				3.678	6.9171	8.1901	
	Cost Analysis:				\$946.76	\$3,212.22	\$2,387.00	\$6,545.99
5020	Fablok Mills	4	203	76	5.367	4.5432	1.7009	
	Totals:				5.367	4.5432	1.7009	
	Cost Analysis:				\$1,381.53	\$2,109.82	\$495.73	\$3,987.08
5021	FRC-Electrical Ind	1	22	25	7.492	0.6873	0.7810	
	Totals:				7.492	0.6873	0.7810	
	Cost Analysis:				\$1,928.53	\$319.18	\$227.63	\$2,475.35
MURRAY HILL TOTALS					72.5760	13.5497	14.1773	
					\$18,681.96	\$6,292.33	\$4,131.97	\$29,106.27

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: ROSELLE PARK

					Cost Factors			
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$257.4124064	\$464.3879667	\$291.4498836	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
6005	Hexacon Electric	1	4	28	1.062	0.0177	0.1240	
		99	190	157	0.123	0.0975	0.0805	
	Totals:				1.185	0.1152	0.2045	
	Cost Analysis:				\$305.03	\$53.48	\$59.61	\$418.12
ROSELLE PARK TOTALS					1.1850	0.1152	0.2045	
					\$305.03	\$53.48	\$59.61	\$418.12

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	Cost Factors			ANNUAL PAYMENT
							Flow per MG	BOD per Ton	TSS per Ton	
							\$257.4124064	\$464.3879667	\$291.4498836	
5505	Ticona	1	205	342	11.929	10.1975	11.929	10.1975	17.0124	
	Totals:				11.929	10.1975			17.0124	
	Cost Analysis:				\$3,070.67	\$4,735.60			\$4,958.27	\$12,764.54
5511	Novartis Groundwater	4	2	4	1.133	0.0094	1.133	0.0094	0.0189	
	Totals:				1.133	0.0094			0.0189	
	Cost Analysis:				\$291.65	\$4.39			\$5.51	\$301.54
5512	Summit Property Co.	03A	14	26	26.299	1.5353	10.038	7.9531	6.5718	
		99	190	157	36.337	9.4884			9.4231	
	Totals:				36.337	9.4884			9.4231	
	Cost Analysis:				\$9,353.59	\$4,406.32			\$2,746.37	\$16,506.28
SUMMIT TOTALS						49.3990	19.6954	26.4544		
						\$12,715.92	\$9,146.31	\$7,710.14		\$29,572.36

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$257.4124064	BOD per Ton \$464.3879667	TSS per Ton \$291.4498836	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7015	ACuPowder	3 (99) 4	190	157	0.035	0.0277	0.0229	
			91	64	1.527	0.5795	0.4075	
					1.562	0.6072	0.4304	
					\$402.08	\$281.97	\$125.45	\$809.50
7025	Allied Processing	2	116	85	0.465	0.2249	0.1648	
					0.465	0.2249	0.1648	
					\$119.70	\$104.45	\$48.04	\$272.19
7035	American Products	1	195	99	1.233	1.0026	0.5090	
					1.233	1.0026	0.5090	
					\$317.39	\$465.60	\$148.35	\$931.34
7045	Breeze /TransTechnology	1	285	417	1.211	1.4392	2.1058	
					1.211	1.4392	2.1058	
					\$311.73	\$668.35	\$613.73	\$1,593.81
7060	National Envelope	1	546	1040	1.699	3.8683	7.3682	
					1.699	3.8683	7.3682	
					\$437.34	\$1,796.40	\$2,147.47	\$4,381.21
7070	Durex	1	97	201	5.653	2.2866	4.7382	
					5.653	2.2866	4.7382	
					\$1,455.15	\$1,061.86	\$1,380.94	\$3,897.95
7077	Electrocatalytic	4	405	471	1.096	1.8510	2.1526	
					1.096	1.8510	2.1526	
					\$282.12	\$859.57	\$627.38	\$1,769.08
7080	Foremost Mfg	2	21	277	24.478	2.1435	28.2743	
					24.478	2.1435	28.2743	
					\$6,300.94	\$995.43	\$8,240.54	\$15,536.91
7088	Hanovia	1	86	73	0.567	0.2033	0.1726	
					0.567	0.2033	0.1726	
					\$145.95	\$94.43	\$50.30	\$290.68
7092	International Paint	2	121	196	2.735	1.3800	2.2354	
					2.735	1.3800	2.2354	
					\$704.02	\$640.85	\$651.50	\$1,996.38
7105	Stonco Lighting	2	130	213	1.855	1.0056	1.6476	
					1.855	1.0056	1.6476	
					\$477.50	\$466.99	\$480.20	\$1,424.69
7145	Schering	5	24	41	179.431	17.9575	30.6773	
					179.431	17.9575	30.6773	
					\$46,187.77	\$8,339.23	\$8,940.90	\$63,467.89

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$257.4124064	BOD per Ton \$464.3879667	TSS per Ton \$291.4498836	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7150	SS Studios	1	469	123	0.182	0.3559	0.0933	
	Totals:				0.182	0.3559	0.0933	
	Cost Analysis:				\$46.85	\$165.30	\$27.21	\$239.35
7155	Tessler & Weiss	22	212	78	1.574	1.3915	0.5120	
	Totals:				1.574	1.3915	0.5120	
	Cost Analysis:				\$405.17	\$646.19	\$149.21	\$1,200.56
7167	Turbo Braze	1	131	170	0.287	0.1568	0.2035	
	Totals:				0.287	0.1568	0.2035	
	Cost Analysis:				\$73.88	\$72.81	\$59.30	\$205.98
7170	Tuscan Dairy	2a	1037	569	91.905	397.4239	218.0658	
		2b	708	553	29.114	85.9550	67.1372	
	Totals:				121.019	483.3789	285.2029	
	Cost Analysis:				\$31,151.79	\$224,475.34	\$83,122.36	\$338,749.49
UNION TOTALS					345.0470	519.2528	366.4880	
					\$88,819.38	\$241,134.76	\$106,812.88	\$436,767.02

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: WEST ORANGE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$257.4124064	BOD per Ton \$464.3879667	TSS per Ton \$291.4498836	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
8040	Turtle Back Zoo	1	10	17	0.073	0.0030	0.0052	
	Totals:				0.073	0.0030	0.0052	
	Cost Analysis:				\$18.79	\$1.41	\$1.51	\$21.71
WEST ORANGE TOTALS					0.0730	0.0030	0.0052	
					\$18.79	\$1.41	\$1.51	\$21.71

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$226.4026721	BOD per Ton \$464.3879667	TSS per Ton \$291.4498836	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
0025	Interbake Foods	3	446	293	42.280	78.6332	51.6581	
	Totals:				42.280	78.6332	51.6581	
	Cost Analysis:				\$9,572.30	\$36,516.31	\$15,055.76	\$61,144.37
0033	Cargill Citro Pure	1	1838	166	0.998	7.6491	0.6908	
	Totals:				0.998	7.6491	0.6908	
	Cost Analysis:				\$225.95	\$3,552.16	\$201.34	\$3,979.46
0037	Deb-El Foods	1	817	273	4.020	13.6957	4.5764	
	Totals:				4.020	13.6957	4.5764	
	Cost Analysis:				\$910.14	\$6,360.12	\$1,333.79	\$8,604.05
0062	Garcia Laundry	2	614	179	3.653	9.3531	2.7267	
	Totals:				3.653	9.3531	2.7267	
	Cost Analysis:				\$827.05	\$4,343.45	\$794.70	\$5,965.20
0067	Purepac Pharmaceutical	1	455	415	8.549	16.2204	14.7945	
		99	190	157	3.148	2.4942	2.0610	
	Totals:				11.6970	18.7146	16.8554	
	Cost Analysis:				\$2,648.23	\$8,690.84	\$4,912.51	\$16,251.58
0070	LORCO	2	4410	60	17.569	323.0886	4.3958	
	Totals:				17.569	323.0886	4.3958	
	Cost Analysis:				\$3,977.67	\$150,038.48	\$1,281.14	\$155,297.29
0075	Mastercraft Electroplating	1	1	6	0.008	0.0000	0.0002	
		99	190	157	0.087	0.0689	0.0570	
	Totals:				0.0950	0.0690	0.0572	
	Cost Analysis:				\$21.51	\$32.03	\$16.66	\$70.19
0078	Magnolia Beef	1	1140	2086	0.188	0.8937	1.6353	
		99	190	157	0.197	0.1561	0.1290	
	Totals:				0.385	1.050	1.7643	
	Cost Analysis:				\$87.17	\$487.51	\$514.21	\$1,088.89
0091	NJ Turnpike Authority	1	3	4	1.705	0.0213	0.0284	
	Totals:				1.705	0.0213	0.0284	
	Cost Analysis:				\$386.02	\$9.91	\$8.29	\$404.21
0093	OENJ	4	16	70	10.632	0.7094	3.1035	
	Totals:				10.632	0.7094	3.1035	
	Cost Analysis:				\$2,407.11	\$329.42	\$904.51	\$3,641.04
0098	Olympia Trails	1	376	193	1.594	2.4993	1.2829	
		99	190	157	0.349	0.2765	0.2285	
	Totals:				1.943	2.7758	1.5114	
	Cost Analysis:				\$439.90	\$1,289.04	\$440.48	\$2,169.42
0100	Michaels Foods - North Avenue Facility	4	1972	566	63.597	522.9734	150.1029	
		4a	1500	1028	12.499	78.1812	53.5802	
		4b	916	437	6.702	25.5998	12.2130	
		99	190	157	1.025	0.8121	0.6711	
	Totals:				83.823	627.5665	216.5672	
	Cost Analysis:				\$18,977.75	\$291,434.34	\$63,118.48	\$373,530.56

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2005

Municipality: ELIZABETH

			Cost Factors					
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$226.4026721	\$464.3879667	\$291.4498836	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
0105	Michaels Foods - Papetti Plaza Facility	2	3619	1110	58.727	886.2627	271.8297	
		2a	4080	1027	8.613	146.5381	36.8859	
		2b	1528	478	2.151	13.7057	4.2875	
		3	727	602	0.508	1.5400	1.2753	
		Totals:			69.999	1048.0465	314.2784	
	Cost Analysis:				\$15,847.96	\$486,700.19	\$91,596.39	\$594,144.54
0120	Phelps Dodge	1	17	23	3.936	0.2790	0.3775	
		99	190	157	0.406	0.3217	0.2658	
		Totals:		4.342	0.6007	0.6433		
		Cost Analysis:			\$983.04	\$278.96	\$187.49	\$1,449.49
0148	Superior Powder Coating	1	59	32	2.317	0.5701	0.3092	
		99	190	157	0.527	0.4175	0.3450	
		Totals:		2.844	0.9876	0.6542		
		Cost Analysis:			\$643.89	\$458.63	\$190.67	\$1,293.18
0155	Duro Bag	1	111	67	14.084	6.5191	3.9349	
		2	90	138	3.068	1.1514	1.7655	
		3	374	258	1.573	2.4532	1.6923	
		Totals:		18.725	10.1237	7.3928		
	Cost Analysis:			\$4,239.39	\$4,701.32	\$2,154.62	\$11,095.34	
0165	Wakefern Food Corp.	2	214	142	3.016	2.6914	1.7859	
		3	401	422	10.066	16.8321	17.7135	
		4	223	361	0.498	0.4631	0.7497	
		7	182	566	0.284	0.2155	0.6703	
		Totals:		13.864	20.2021	20.9194		
	Cost Analysis:			\$3,138.85	\$9,381.62	\$6,096.96	\$18,617.43	
0175	Prince Donut Co.	1	11975	13772	1.296	64.7167	74.4283	
		99	190	157	0.338	0.2678	0.2213	
		Totals:		1.634	64.9845	74.6496		
	Cost Analysis:			\$369.94	\$30,178.03	\$21,756.61	\$52,304.59	
ELIZABETH TOTALS					290.2080	2,228.2712	722.4728	
					\$65,703.87	\$1,034,782.34	\$210,564.62	\$1,311,050.83