

December 16, 2005

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 2006)

I present herewith the 71st 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, 2004 through October 31, 2005. 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 2006. 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 2005, 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 17, 2004.

During 2005, 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 (2006) dwelling unit figures formulated by each municipality in 2005.

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, 2004, through October 31, 2005 and projected for a twelve (12) month period in 2006. 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 2006, 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, 2004, through October 31, 2005, and projected for 2006 and are based upon actual 2004-2005 operating statistics as well as a recent upgraded 2005 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	24,299.3340 MG/Year	66.5735 MGD
2.	BOD	19,129.3809 Tons/Year	104,818.5255 Lbs/Day
	TSS	15,835.3353 Tons/Year	86,768.9605 Lbs/Day
3.	Estimated Industrial Flow	716.8080 MG/Year	1.9639 MGD
4.	Estimated Industrial BOD	3,250.0557 Tons/Year	17,808.5245 Lbs/Day
5.	Estimated Industrial TSS	878.2307 Tons/Year	4,812.2230 Lbs/Day
6.	Estimated Total Operating Expenses in 2006		
			\$14,509,384 STP
			5,747,095 SDWF
			548,406 SDF
			599,755 Sewers
			<hr/> \$21,404,640 Total
7.	Estimated Total Dwelling Units in System		
			150,472 JM Members
			47,181 Elizabeth
			<hr/> 197,653 Total

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

Flow	29.5097654%
BOD	46.3187722%
Suspended Solids	24.1714624%

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 2006 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 2006**

**Treatment Plant**

	<b><u>Total for 2006</u></b>	<b><u>Domestic &amp; Commercial</u></b>	<b><u>Industrial</u></b>
Flow	24,299.3340 MG/Yr. <sup>1</sup>	23,582.5260 MG/Yr.	716.8080 MG/Yr.
BOD	19,129.3809 Tons/Yr. <sup>1</sup>	15,879.3252 Tons/Yr.	3,250.0557 Tons/Yr.
Suspended Solids	15,835.3353 Tons/Yr. <sup>1</sup>	14,957.1046 Tons/Yr.	878.2307 Tons/Yr.

(1) Based upon data from November 1, 2004 thru October 31, 2005 (365 days)

**Cost Allocation**

	<b><u>Total for 2006</u></b>	<b><u>Domestic &amp; Commercial</u></b>	<b><u>Industrial</u></b>
Flow	\$6,109,963.00	\$5,929,725.00	\$180,238.00
BOD	9,590,248.50	7,960,878.00	1,629,370.50
Suspended Solids	5,004,673.50	4,727,113.00	277,560.50
	<u>\$20,704,885.00</u>	<u>\$18,617,716.00</u>	<u>\$2,087,169.00</u>
	100.000000%	89.91943690%	10.08056310%

**Elizabeth Contribution**

Flow	-	5,812.2170 MG/Yr.
BOD	-	7,253.5668 Tons/Yr.
TSS	-	3,808.2903 Tons/Yr.

**Trunk Sewer Flow**<sup>1</sup>

	<b><u>Total for 2006</u></b>	<b><u>Domestic &amp; Commercial</u></b>	<b><u>Industrial</u></b>
	18,487.1170 MG/Yr. <sup>2</sup>	18,065.8890 MG/Yr.	421.228 MG/Yr.

(1) Based upon data from November 1, 2004 thru October 31, 2005 (365 days)

(2) (24,299.334 - 5,812.2170)

**COST ALLOCATION**

\$599,755.00	\$586,089.61	\$13,665.39
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Member municipalities will be assessed \$3.89 (\$586,089.61/150,472) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$283.89 per MG for flow, \$501.34 per ton of BOD, and \$316.05 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	\$180,238.00	/	716.8080	=	\$251.4452964	/MG
BOD	\$1,629,370.50	/	3,250.0557	=	\$501.3361740	/Ton
Suspended Solids	\$277,560.50	/	878.2307	=	\$316.0450893	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$32.44/MG of flow for trunk sewer use ( $\$13,665.39/421.228 = \$32.442/\text{MG}$ ). This brings the total flow cost to \$283.89/MG ( $\$251.445 + \$32.442$ ) for the indicated industries of member municipalities.

Based upon the user charges for 2006, 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 2005 industrial waste survey of the service area. These are estimates for 2006 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 \$21,304,640 for 2006. 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 32.1302181% 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 Elmore 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**  
**2006**

<u>Municipality</u>	<u>Dwelling Units <sup>1</sup></u>	<u>User Charges Industrial</u>
East Orange	7,180	\$ -
Hillside	8,482	96,081
Irvington	27,265	24,513
Maplewood	9,310	182,310
Millburn	9,830 <sup>4</sup>	-
Newark	16,972	-
Roselle Park	4,744	455
South Orange	7,800	-
Summit	14,101 <sup>2</sup>	51,678 <sup>3</sup>
Union	24,890	109,523
West Orange	19,898	24
Elizabeth	47,181	1,636,254
	<u>197,653</u>	<u>\$ 2,100,838</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 (3630)  
(3) Includes Murray Hill  
(4) Includes Livingston (429)

**Table III**  
**Joint Meeting of Essex and Union Counties**  
**Computation of Estimated Percent**  
**Contribution By City of Elizabeth**  
**For Period 11/1/2004-10/31/2005 and Projected Contribution for 2006**

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	24,299.334 MG	5,812.217 MG		18,487.117 MG	
		<i>Industrial</i>	<i>D&amp;C</i>	<i>Industrial</i>	<i>D&amp;C</i>
		283.605	5,528.612	421.228	18,065.889
		\$ 71,311.14	\$ 1,390,143.48	\$ 119,581.19	\$ 5,128,672.58
Unit Charge \$ 251.4452964 Per MG for Elizabeth					
Unit Charge \$ 283.8870856 Per MG for Joint Meeting					
<b>BOD:</b>	19,129.3809 Tons	7,253.5668 Tons		11,875.8141 Tons	
		<i>Industrial</i>	<i>D&amp;C</i>	<i>Industrial</i>	<i>D&amp;C</i>
		2,618.4318	4,635.135	597.51992	11,278.29418
		\$ 1,312,714.58	\$ 2,323,760.85	\$ 299,558.35	
Unit Charge	\$501.3361740 Per Ton				
<b>TSS:</b>	15,835.3353 Tons	3,808.2903 Tons		12,027.0450 Tons	
		<i>Industrial</i>	<i>D&amp;C</i>	<i>Industrial</i>	<i>D&amp;C</i>
		708.2411	3,100.0492	143.7806	11,883.2644
		\$ 223,836.12	\$ 979,755.33	\$ 45,441.15	
Unit Charge	\$316.0450893 Per Ton				
			\$ 6,301,521.50	\$ 464,580.69	

City of Elizabeth (Contribution from Pumping Station) \$ 6,301,521.50

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

<b>Flow:</b>	11.9750 MG/Year at	\$ 251.4452964	3,011.06
<b>BOD:</b>	34.104 Tons/Year at	501.3361740	17,097.57
<b>TSS:</b>	26.209 Tons/Year at	316.0450893	8,283.23

Joint Meeting Industrial	464,580.69
Subtotal	\$ 6,794,494.05

Total 2006 Budget	\$ 21,404,640.00
Subtotal (above)	(6,794,494.05)
Subtotal (EDU's)	\$ 14,610,145.95

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 14,610,146  
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)  
 150,472 (X + \$3.895007776) + 3905 (X) = \$ 14,610,146

Equivalent Units-Member Municipalities 150,472

Elmora EDU's = 3,905 \$90.8429127400 Per Unit = X  
 \$94.7379205160 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 14,255,404.38  
 Elmora Area Assessment \$ 354,741.57

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 6,301,521.50  
 Elmora EDU's 354,741.57  
 Elmora Industrial 28,391.86  
 \$ 6,684,654.93

Total Anticipated Payment from Member Municipalities

EDU's 14,255,404.38  
 Industrial 464,580.69  
 \$ 14,719,985.07

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

\$ 6,684,654.93 / \$ 20,804,885.00 = 32.1302181%



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

Percent Allocation of Infiltration / Inflow												
Municipality	Base Year - 1982				Base Year - 1982				Base Year - 1982			
	Capacity By Contract		Phase IIB - SSES <sup>1</sup>		Phase IIB - SSES <sup>2</sup>		Phase IIB - SSES <sup>2</sup>		Phase IIB - SSES <sup>2</sup>		Phase IIB - SSES <sup>2</sup>	
	(MGD)	(Percent)	(GPD) <sup>3</sup>	(Percent)	(GPD) <sup>4</sup>	(Percent)	(GPD)	(Percent)	(GPD) <sup>5</sup>	(Percent)	(GPD)	(Percent)
East Orange	5.50	4.88%	70,747	2.11%	54,327	2.68%	3,007,440	5.79%	3,007,440	5.79%	3,343,177	6.34%
Hillside	12.20	10.83%	79,012	2.36%	31,701	1.63%	1,185,120	2.28%	1,185,120	2.28%	1,318,287	2.50%
Irvington	18.61	16.52%	1,115,672	33.31%	764,510	39.31%	8,612,640	16.57%	8,612,640	16.57%	8,658,512	16.42%
Maplewood	7.08	6.29%	389,078	11.62%	191,370	9.84%	5,449,680	10.48%	5,449,680	10.48%	6,058,849	11.49%
Millburn	6.00	5.33%	191,609	5.72%	146,056	7.51%	2,729,520	5.25%	2,729,520	5.25%	2,652,394	5.03%
Newark	15.50	13.76%	234,484	7.00%	176,979	9.10%	1,959,540	3.77%	1,951,200	4.11%	2,167,264	4.11%
Roselle Park	9.44	8.38%	106,187	3.17%	62,429	3.21%	1,576,080	3.03%	1,750,686	3.32%	1,576,080	3.32%
South Orange	7.00	6.22%	410,876	12.27%	80,516	4.14%	2,183,760	4.20%	2,362,371	4.48%	2,126,160	4.48%
Summit	7.50	6.66%	171,657	5.13%	62,234	3.20%	3,651,120	7.02%	2,082,894	3.95%	1,872,720	3.95%
Union	10.30	9.14%	329,127	9.83%	228,322	11.74%	14,534,640	27.96%	14,843,916	28.15%	13,357,440	28.15%
West Orange	13.50	11.99%	250,811	7.48%	148,584	7.64%	7,097,040	13.65%	6,744,600	14.21%	7,493,147	14.21%
					1,944,822				52,731,497			
					2,027,350	100.00%	51,986,580	100.00%	47,446,920	100.00%		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) 2005 - Infiltration related to base year total = 2.027 MGD / 52.79 MGD = 3.83974238%

- Adjusted for period 11/1/2004 - 10/31/2005; (3.83974238% x 18,487,1170 = 709.85 MG / Year / 365 = 1,944,822 GPD)

(5) 2005 inflow adjusted for period 11/1/2004 - 10/31/2005 - (36.92" / 33.22") x (47,446,920) = 52,731,497 GPD

**Table IV - A**  
**Joint Meeting of Essex and Union Counties**  
**Adjusted 2005 - Summary of Infiltration and Inflow**

Municipality	Phase IIB		2005		Phase IIB		2005	
	SSES Infiltration (GPD)	2004 Infiltration (GPD)	2004 Infiltration Removed (GPD)	2005 Infiltration (GPD)	SSES Inflow (GPD)	2004 Inflow (GPD)	2005 Inflow Removed (GPD)	2005 Inflow (GPD)
East Orange	70,747	54,327	-	54,327	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
Irvington	1,115,672	797,026	-	797,026	8,612,640	7,791,840	-	7,791,840
Maplewood	389,078	199,485	-	199,485	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
Newark	234,484	184,463	-	184,463	1,959,540	1,951,200	-	1,951,200
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	2,126,160	-	2,126,160
Summit	171,657	64,916	-	64,916	3,651,120	1,872,720	-	1,872,720
Union	329,127	238,013	-	238,013	14,534,640	14,149,440	792,000	13,357,440
West Orange	250,811	154,847	-	154,847	7,097,040	6,744,600	-	6,744,600
<b>Total</b>	<b>3,349,260</b>	<b>2,027,350</b>	<b>-</b>	<b>2,027,350</b>	<b>51,986,580</b>	<b>48,238,920</b>	<b>792,000</b>	<b>47,446,920</b>

Table V

## Joint Meeting of Essex and Union Counties

## Cost Allocation - Flow, BOD &amp; TSS with Infiltration / Inflow

		Total	Domestic & Commercial	Industrial
Flow		18,487.1170 MG	18,065.8890 MG	421.2280 MG
		\$4,965,121.36	\$4,845,540.17	
Infiltration	3.8397424%	709.85	693.68	\$119,581.19
Inflow	8.2360597%	1,522.61	1,487.92	16.17
			\$399,082.28	34.69
BOD	at \$501.3361740 Per Ton	11,875.8141 Tons	11,278.2942 Tons	597.5199 Tons
		\$5,953,775.20	\$5,654,216.85	\$299,558.35
TSS	at \$316.0450893 Per Ton	12,027.0450 Tons	11,883.2644 Tons	143.7806 Tons
		\$3,801,088.51	\$3,755,647.36	\$45,441.15
Total		\$14,719,985.07 <sup>1</sup>	\$14,255,404.38	\$464,580.69

(1) Amount anticipated from Members after allocation of 32.1302181% to City of Elizabeth \$ 6,684,654.93

<sup>"Base Year - 1982"</sup>

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

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

<sup>"2004 - 2005"</sup>

Infiltration: 2.027 MGD/52.79MGD = 3.83974238% X 709.86 MG / Year

(November 1, 2004 - October 31, 2005)

Inflow: Rainfall = 36.92 Inches X 50 MG X 82.482% 1,522.61 MG / Year

Total D&C	\$14,255,404.38
Less: Infiltration	(186,055.29)
Less: Inflow	(399,082.28)
Net after infiltration and inflow	<b>\$13,670,266.81</b>
Equivalent Dwelling Units	150,472
User Charge Per Unit	\$90.8492397921208

Table VI  
Joint Meeting of Essex and Union Counties  
Estimated Annual Operation Expenses To Member Municipalities  
2006

Domestic & Commercial								
Municipality	Dwelling Units	User Charge		Infiltration		Inflow		Unit Cost
		\$	Per Unit	Percent <sup>1</sup>	Amount	Percent <sup>2</sup>	Amount	
East Orange	7,180		\$652,297.54	2.68%	\$4,986.28	6.34%	\$25,301.82	\$682,585.64
Hillside	8,482		770,583.25	1.63%	3,032.70	2.50%	9,977.06	783,593.01
Irvington	27,265		2,477,004.52	39.31%	73,138.33	16.42%	65,529.31	2,615,672.16
Maplewood	9,310		845,806.42	9.84%	18,307.84	11.49%	45,854.55	909,968.81
Millburn	9,830 <sup>3</sup>		893,048.03	7.51%	13,972.75	5.03%	20,073.84	927,094.62
Newark	16,972		1,541,893.30	9.10%	16,931.03	4.11%	16,402.28	1,575,226.61
Roselle Park	4,744		430,988.79	3.21%	5,972.37	3.32%	13,249.53	450,210.69
South Orange	7,800		708,624.07	4.14%	7,702.69	4.48%	17,878.89	734,205.65
Summit	14,101 <sup>4</sup>		1,281,065.13	3.20%	5,953.77	3.95%	15,763.75	1,302,782.65
Union	24,890		2,261,237.58	11.74%	21,842.89	28.15%	112,341.66	2,395,422.13
West Orange	19,898		1,807,718.17	7.64%	14,214.62	14.21%	56,709.59	94.4136
	150,472		\$13,670,266.80	100.00%	\$186,055.27	100.00%	\$399,082.28	\$94.7379
								\$90.2139 2005
								\$83.1509 2004
								\$76.7220 2003
								\$71.5620 2002

(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 (429)

(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 (429)

(4) Includes New Providence (3630)

Table VI (Continued)  
Joint Meeting of Essex and Union Counties  
Estimated Annual Operation Expenses To Member Municipalities  
2006

Municipality	Industrial									
	BOD (Tons / Year)	BOD <sup>1</sup> (\$/Year)	TSS (Tons / Year)	TSS <sup>2</sup> (\$/Year)	Dry Weather	Flow (MG / Year)			Flow <sup>3</sup> (\$/Year)	Total Cost
						Infiltration 3.839742%	Inflow 8.236060%	Total		
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	151.4995	75,952.18	21.6194	6,832.71	41.18	1.80	3.86	46.84	13,295.85	96,080.74
Irvington	37.2410	18,670.27	7.8047	2,466.64	10.46	0.46	0.98	11.89	3,375.70	24,512.61
Maplewood	330.5937	165,738.58	17.7698	5,616.06	33.93	1.48	3.18	38.59	10,955.20	182,309.84
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	0.0908	45.52	0.0966	30.53	1.17	0.05	0.11	1.33	377.57	453.62
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summit <sup>4</sup>	35.1461	17,620.01	21.4822	6,789.34	84.45	3.69	7.91	96.05	27,267.64	51,676.99
Union	42.9461	21,530.43	75.0021	23,704.05	199.11	8.70	18.65	226.46	64,288.50	109,522.98
West Orange	0.0027	1.35	0.0058	1.83	0.06	0.00	0.01	0.07	20.72	23.90
	597.5199	\$ 299,558.34	143.7806	\$45,441.16	370.36	16.17	34.69	421.23	\$119,581.19	\$464,580.69

(1) At \$501.336174/Ton

(2) At \$316.0450893/Ton

(3) At \$283.8870856/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**  
**2006**

Municipality	Total Assessments <sup>1</sup>	Domestic & Commercial				Assessment Percentage
		User Charge Domestic Sewage 90.84923979	User Charges Industrial	Infiltration / Inflow Charges		
East Orange	\$682,585.64	\$652,297.54	\$0.00	\$30,288.10		4.6371%
Hillside	879,673.75	770,583.25	96,080.74	13,009.76		5.9761%
Irvington	2,640,184.77	2,477,004.52	24,512.61	138,667.64		17.9361%
Maplewood	1,092,278.65	845,806.42	182,309.84	64,162.39		7.4204%
Millburn	927,094.62	893,048.03	0.00	34,046.59		6.2982%
Newark	1,575,226.61	1,541,893.30	0.00	33,333.31		10.7013%
Roselle Park	450,664.31	430,988.79	453.62	19,221.90		3.0616%
South Orange	734,205.65	708,624.07	0.00	25,581.58		4.9878%
Summit	1,354,459.64	1,281,065.13	51,676.99	21,717.52		9.2015%
Union	2,504,945.11	2,261,237.58	109,522.98	134,184.55		17.0173%
West Orange	1,878,666.28	1,807,718.17	23.90	70,924.21		12.7626%
	<u>\$14,719,985.04</u>	<u>\$13,670,266.80</u>	<u>\$464,580.69</u>	<u>\$585,137.55</u>		<u>100.0000%</u>
Elizabeth	6,684,654.93					
<b>Total</b>	<u><u>\$21,404,639.97</u></u>					

(1) Reflects anticipated payment of \$6,684,654.93 from the City of Elizabeth which is 32.1302181% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2006 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 2006 Assessment with 2005 Assessment**

<b>Municipality</b>	<b>2005</b>	<b>2006</b>		<b>Comparison</b>	
				<b>Amount</b>	<b>Percentage</b>
East Orange	\$652,097.86	\$682,585.64	(+)	\$30,487.78	4.68%
Hillside	815,641.57	879,673.75	(+)	64,032.18	7.85%
Irvington	2,471,742.42	2,640,184.77	(+)	168,442.35	6.81%
Maplewood	1,018,806.21	1,092,278.65	(+)	73,472.44	7.21%
Millburn	880,258.29	927,094.62	(+)	46,836.33	5.32%
Newark	1,493,769.60	1,575,226.61	(+)	81,457.01	5.45%
Roselle Park	428,927.60	450,664.31	(+)	21,736.71	5.07%
South Orange	698,199.04	734,205.65	(+)	36,006.61	5.16%
Summit	1,297,104.47	1,354,459.64	(+)	57,355.17	4.42%
Union	2,728,563.47	2,504,945.11	(-)	(223,618.36)	-8.20%
West Orange	1,785,454.16	1,878,666.28	(+)	93,212.12	5.22%
	<u>\$14,270,564.69</u>	<u>\$14,719,985.04</u>	(+)	<u>\$449,420.35</u>	<u>3.15%</u>
Elizabeth	6,250,686.28	6,684,654.93	(+)	\$ 433,968.65	6.94%
<b>Total</b>	<u><b>\$20,521,250.97</b></u>	<u><b>\$21,404,639.97</b></u>	<u><b>(+)</b></u>	<u><b>\$883,389.00</b></u>	<u><b>4.30%</b></u>

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

City of Elizabeth percentage

2002	34.05411240%
2003	32.11408370%
2004	30.39138410%
2005	31.38459700%

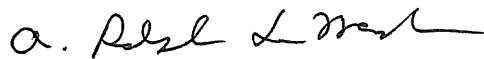
Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2006 as a result of the Agreement with the City of Elizabeth which requires 32.1302181% of the 2006 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 32.1302181% 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 2005.

### 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 2006 are apportioned as follows:

	<u>2006</u>	<u>2005</u>		<u>2006</u>	<u>2005</u>
East Orange	4.6371%	4.5695%	Roselle Park	3.0616%	3.0057%
Hillside	5.9761%	5.7156%	South Orange	4.9878%	4.8926%
Irvington	17.9361%	17.3206%	Summit	9.2015%	9.0894%
Maplewood	7.4204%	7.1392%	Union	17.0173%	19.1202%
Millburn	6.2982%	6.1683%	West Orange	12.7626%	12.5114%
Newark	10.7013%	10.4675%	<b>Total</b>	<u><b>100.0000%</b></u>	<u><b>100.0000%</b></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**  
**2006 Budget**

	<b>Treatment Plant</b>	<b>Dewatering Facility</b>	<b>Drying Facility</b>	<b>Sewer</b>	<b>Total</b>
Electric Service	\$ 1,561,522	\$ 170,907	\$ 27,571	\$ -	\$ 1,760,000
Gas Service	7,000	33,500	-	-	40,500
Fuel, Oil & Kerosene	180,800	300,200	-	-	481,000
Water Service	181,000	60,000	3,500	-	244,500
Chemicals	707,300	806,400	6,800	2,200	1,522,700
Sludge Disposal	-	1,900,000	-	-	1,900,000
Insurance	522,162	139,038	58,935	5,835	725,970
Administration	1,228,000	665,000	20,000	120,000	2,033,000
Labor	4,409,000	784,000	111,000	6,000	5,310,000
Benefits	1,916,050	343,650	54,700	64,600	2,379,000
Equipment	205,000	51,000	-	-	256,000
Printing & Stationery	15,000	2,000	-	1,000	18,000
Maintenance, Supplies & Spare Parts	1,123,300	339,600	5,000	256,920	1,724,820
Screening Disposal	140,000	-	-	-	140,000
Reserve Contingency	145,000	-	-	-	145,000
Miscellaneous Expenses	190,000	65,000	-	120,000	375,000
Technical & Professional Services	425,500	80,000	-	15,000	520,500
Replacement Fund	1,250,000	-	-	-	1,250,000
NJPDES & Miscellaneous Permit Fee:	302,750	6,800	260,900	8,200	578,650
	<b>\$ 14,509,384</b>	<b>\$ 5,747,095</b>	<b>\$ 548,406</b>	<b>\$ 599,755</b>	<b>\$ 21,404,640</b>
	67.79%	26.85%	2.56%	2.80%	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	\$ 1,792,112	80%	\$ 1,433,690	10%	\$ 179,211	10%	\$ 179,211
Power	1,561,522	40%	\$ 624,609	5%	\$ 78,076	55%	\$ 858,837
Chlorine	489,000	40%	\$ 195,600			60%	\$ 293,400
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	2,723,300	28%	\$ 762,524	27%	\$ 735,291	45%	\$ 1,225,485
Fuel, Oil & Kerosene	180,800	40%	\$ 72,320	30%	\$ 54,240	30%	\$ 54,240
Administration, Labor & Benefits (Payroll Retirement)	7,553,050	40%	3,021,220	10%	\$ 755,305	50%	\$ 3,776,525
Sludge Processing 2	109,600			50%	\$ 54,800	50%	\$ 54,800
<b>Total</b>	<b>\$14,409,384</b>		<b>\$ 6,109,963</b>		<b>\$ 1,856,923</b>		<b>\$ 6,442,498</b>
	<b>100%</b>		<b>42.4026662%</b>		<b>12.8869006%</b>		<b>44.7104332%</b>

(1) General Expenditures  
(From the Approved Budget)

Insurance \$ 522,162  
Technical & Professional Services 425,500  
Stationery & Printing 15,000  
Gas 7,000  
Water 181,000  
Miscellaneous 190,000  
Service Contracts 140,000  
Permit Fees 302,750  
Sodium Bisulfite & Misc. Chemicals 8,700

\$ 1,792,112

(2) Sludge Processing

Polymer \$ 96,000  
K2MnO4 13,600

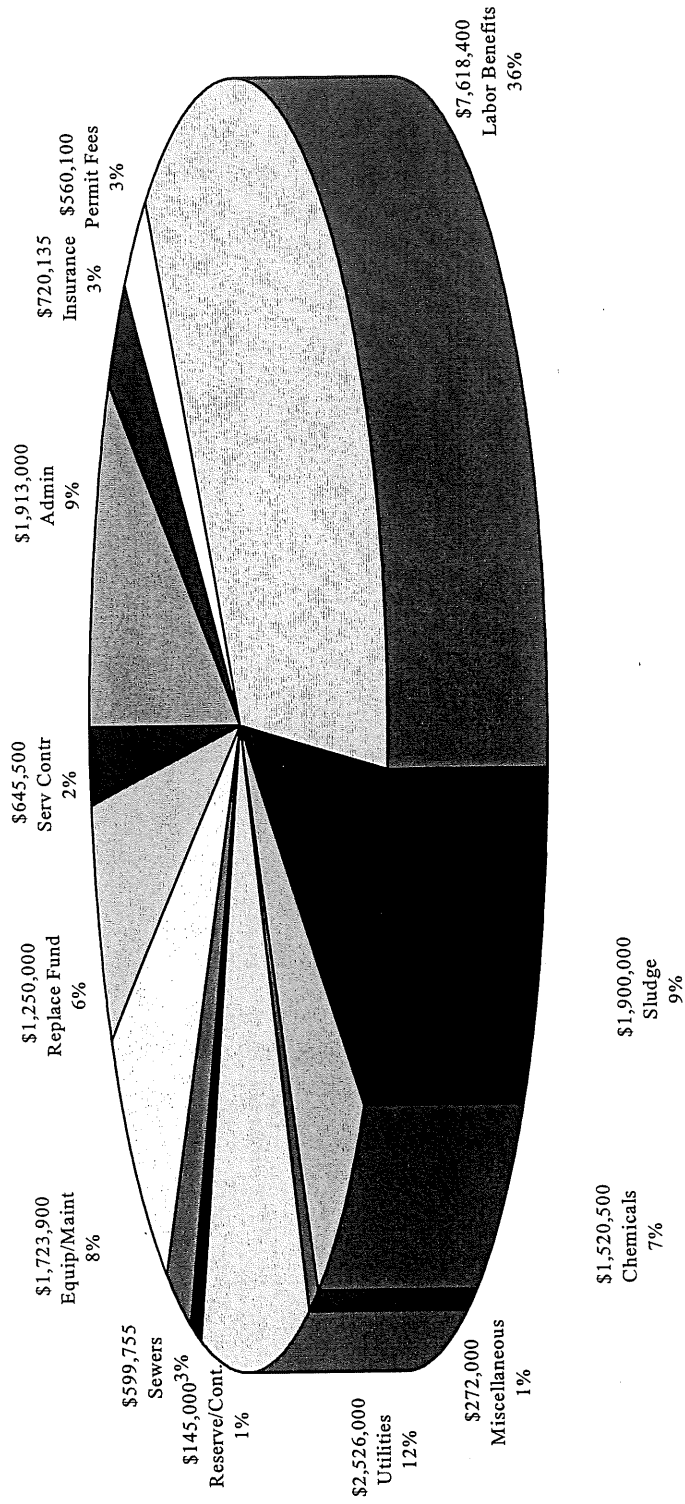
\$ 109,600

**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	\$ 14,409,384	\$ 6,109,963	\$ 1,856,923	\$ 6,442,498
Dewatering Facility	5,747,095		2,873,548	2,873,548
Drying Facility	548,406		274,203	274,203
	<u>\$ 20,704,885</u>	<u>\$ 6,109,963</u>	<u>\$ 5,004,674</u>	<u>\$ 9,590,249</u>
Subtotal	100.00%	29.5097654%	24.1714624%	46.3187722%
Sewers 1	\$ 599,755			
Total	<u>\$ 21,304,640</u>			

(1) Joint Meeting Members Only

# Joint Meeting of Essex & Union Counties 2006 O&M Budget



**JOINT MEETING OF ESSEX & UNION COUNTIES**

**INDUSTRIAL USER CHARGE - 2006  
SUMMARY**

<b>MUNICIPALITY</b>	<b>FLOW (MG)</b>	<b>LOADINGS</b>	
		<b>BOD (tons)</b>	<b>TSS (tons)</b>
HILLSIDE	46.835	151.49951523	21.61939836
IRVINGTON	11.891	37.24102317	7.80467625
MAPLEWOOD	38.590	330.59369271	17.76975444
MURRAY HILL	58.945	27.43568934	11.72926758
ROSELLE PARK	1.330	0.09078090	0.09661890
SUMMIT	37.106	7.71036753	9.75286689
UNION	226.458	42.94607940	75.00213291
WEST ORANGE	0.073	0.00273969	0.00578379
<b>MEMBERS TOTAL</b>	<b>421.228</b>	<b>597.51988797</b>	<b>143.78049912</b>
<b>ELIZABETH</b>	<b>295.580</b>	<b>2652.53580015</b>	<b>734.45007328</b>
<b>GRAND TOTAL</b>	<b>716.808</b>	<b>3250.05568812</b>	<b>878.23057240</b>

<b>MUNICIPALITY</b>	<b>FLOW</b>	<b>COSTS</b>		<b>TOTAL</b>
		<b>BOD</b>	<b>TSS</b>	
HILLSIDE	\$13,295.85	\$75,952.19	\$6,832.70	\$96,080.74
IRVINGTON	\$3,375.70	\$18,670.27	\$2,466.63	\$24,512.60
MAPLEWOOD	\$10,955.20	\$165,738.58	\$5,616.04	\$182,309.82
MURRAY HILL	\$16,733.72	\$13,754.50	\$3,706.98	\$34,195.21
ROSELLE PARK	\$377.57	\$45.51	\$30.54	\$453.62
SUMMIT	\$10,533.91	\$3,865.49	\$3,082.35	\$17,481.75
UNION	\$64,288.50	\$21,530.42	\$23,704.06	\$109,522.98
WEST ORANGE	\$20.72	\$1.37	\$1.83	\$23.93
<b>MEMBERS TOTAL</b>	<b>\$119,581.19</b>	<b>\$299,558.33</b>	<b>\$45,441.12</b>	<b>\$464,580.64</b>
<b>ELIZABETH</b>	<b>\$74,322.20</b>	<b>\$1,329,812.15</b>	<b>\$232,119.34</b>	<b>\$1,636,253.69</b>
<b>GRAND TOTAL</b>	<b>\$193,903.39</b>	<b>\$1,629,370.48</b>	<b>\$277,560.46</b>	<b>\$2,100,834.33</b>

**JOINT MEETING OF ESSEX & UNION COUNTIES**

**INDUSTRIAL USER CHARGE - 2006  
COST FACTORS**

	<b>FLOW</b>	<b>BOD</b>	<b>TSS</b>
<b>MEMBER MUNICIPALITIES</b>	\$283.8870856	\$501.3361740	\$316.0450893
<b>ELIZABETH</b>	\$251.4452964	\$501.3361740	\$316.0450893

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
1015	Bristol-Myers R&D	1	183	170	3.524	2.6892	2.4982	
	Totals:				3.524	2.6892	2.4982	
	Cost Analysis:				\$1,000.42	\$1,348.19	\$789.53	\$3,138.14
1035	ECD	2	30	9	11.837	1.4808	0.4442	
		3	142	197	0.683	0.4044	0.5611	
	Totals:				12.52	1.8852	1.0053	
	Cost Analysis:				\$3,554.27	\$945.14	\$317.73	\$4,817.13
1042	GEC Marconi / BAE	1	1	3	10.196	0.0425	0.1276	
	Totals:				10.196	0.0425	0.1276	
	Cost Analysis:				\$2,894.51	\$21.32	\$40.31	\$2,956.14
1050	Manhattan Drug Co.	4	368	294	0.498	0.7642	0.6105	
	Totals:				0.498	0.7642	0.6105	
	Cost Analysis:				\$141.38	\$383.13	\$192.96	\$717.46
1054	Oasis Foods	3	1550	297	4.505	29.1181	5.5794	
		99	197	161	1.248	1.0252	0.8379	
	Totals:				5.753	30.1433	6.4173	
	Cost Analysis:				\$1,633.20	\$15,111.92	\$2,028.15	\$18,773.27
1058	Quest Industries	1	10	1342	0.220	0.0092	1.2312	
		2	208	430	0.527	0.4571	0.9450	
	Totals:				0.747	0.4663	2.1761	
	Cost Analysis:				\$212.06	\$233.76	\$687.75	\$1,133.57
1088	USA Detergents / Production Services	1	1119	89	4.259	19.8735	1.5806	
	Totals:				4.259	19.8735	1.5806	
	Cost Analysis:				\$1,209.08	\$9,963.29	\$499.55	\$11,671.92
1090	Union Beverages	2	2456	185	9.338	95.6353	7.2038	
	Totals:				9.338	95.6353	7.2038	
	Cost Analysis:				\$2,650.94	\$47,945.44	\$2,276.73	\$52,873.11
HILLSIDE TOTALS					46.8350	151.4995	21.6194	
					\$13,295.85	\$75,952.19	\$6,832.70	\$96,080.74

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
2030	Hi-Speed Plating	1	124	15	0.268	0.1386	0.0168	
		99	197	161	0.099	0.0813	0.0665	
	Totals:				0.367	0.2199	0.0832	
	Cost Analysis:				\$104.19	\$110.25	\$26.30	\$240.74
2035	Industrial Retaining Ring /TRUARC	3	103	94	1.545	0.6636	0.6056	
	Totals:				1.545	0.6636	0.6056	
	Cost Analysis:				\$438.61	\$332.68	\$191.40	\$962.69
2036	Intergel	1	1203	113	2.029	10.1785	0.9561	
	Totals:				2.029	10.1785	0.9561	
	Cost Analysis:				\$576.01	\$5,102.85	\$302.17	\$5,981.02
2040	Jabel	1	219	44	0.511	0.4667	0.0938	
	Totals:				0.511	0.4667	0.0938	
	Cost Analysis:				\$145.07	\$233.95	\$29.63	\$408.65
2055	Revlon	5	125	328	2.94	1.5325	4.0212	
	Totals:				2.94	1.5325	4.0212	
	Cost Analysis:				\$834.63	\$768.29	\$1,270.89	\$2,873.80
2057	SAL Cleaners	1	632	91	3.908	10.2993	1.4830	
		99	197	161	0.063	0.0518	0.0423	
	Totals:				3.971	10.3511	1.5253	
	Cost Analysis:				\$1,127.32	\$5,189.36	\$482.05	\$6,798.73
2066	Wayne County Foods	1	8476	263	0.388	13.7138	0.4255	
		99	197	161	0.140	0.1150	0.0940	
	Totals:				0.528	13.8288	0.5195	
	Cost Analysis:				\$149.89	\$6,932.90	\$164.19	\$7,246.98
IRVINGTON TOTALS					11.8910	37.2410	7.8047	
					\$3,375.70	\$18,670.27	\$2,466.63	\$24,512.60



## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: MAPLEWOOD

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
3020	Gleason Cleaners	1	209	91		0.854	0.7443	0.3241	
	Totals:					0.854	0.7443	0.3241	
	Cost Analysis:					\$242.44	\$373.14	\$102.42	\$718.00
3033	NJ Transit - Hilton Gar.	3a	366	249		5.981	9.1283	6.2103	
	Totals:					5.981	9.1283	6.2103	
	Cost Analysis:					\$1,697.93	\$4,576.36	\$1,962.72	\$8,237.01
3046	UniClean	1	72	10		1.802	0.5410	0.0751	
		99	197	161		0.146	0.1199	0.0980	
	Totals:					1.948	0.6610	0.1732	
	Cost Analysis:					\$553.01	\$331.37	\$54.73	\$939.11
3050	Maplewood Beverage	1	2575	89		29.807	320.0601	11.0623	
	Totals:					29.807	320.0601	11.0623	
	Cost Analysis:					\$8,461.82	\$160,457.71	\$3,496.18	\$172,415.71
MAPLEWOOD TOTALS						38.5900	330.5937	17.7698	
						\$10,955.20	\$165,738.58	\$5,616.04	\$182,309.82

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
5010	Bell Labs / Lucent	1	47	6		41.835	8.1992	1.0467	
	Totals:					41.835	8.1992	1.0467	
	Cost Analysis:					\$11,876.42	\$4,110.58	\$330.81	\$16,317.80
5011	Baxter Pharmaceutical	1	391	394		5.015	8.1768	8.2395	
	Totals:					5.015	8.1768	8.2395	
	Cost Analysis:					\$1,423.69	\$4,099.33	\$2,604.07	\$8,127.09
5020	Fablok Mills	4	314	59		7.974	10.4410	1.9618	
	Totals:					7.974	10.4410	1.9618	
	Cost Analysis:					\$2,263.72	\$5,234.45	\$620.03	\$8,118.20
5021	FRC-Electrical Ind	1	36	28		4.121	0.6186	0.4812	
	Totals:					4.121	0.6186	0.4812	
	Cost Analysis:					\$1,169.90	\$310.15	\$152.07	\$1,632.12
MURRAY HILL TOTALS						58.9450	27.4357	11.7293	
						\$16,733.72	\$13,754.50	\$3,706.98	\$34,195.21

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2006

Municipality: ROSELLE PARK

IU #	INDUSTRY	SITE	Cost Factors					ANNUAL PAYMENT
			Concentration	Flow per MG	BOD per Ton	TSS per Ton		
				\$283.8870856	\$501.3361740	\$316.0450893		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
6005	Hexacon Electric	1	2	6	1.232	0.0103	0.0308	
		99	197	161	0.098	0.0805	0.0658	
		Totals:			1.33	0.0908	0.0966	
		Cost Analysis:			\$377.57	\$45.51	\$30.54	\$453.62
ROSELLE PARK TOTALS					1.3300	0.0908	0.0966	
					\$377.57	\$45.51	\$30.54	\$453.62

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5511	Novartis Groundwater	4	2	24	1.228	0.0102	0.1229	
	Totals:				1.228	0.0102	0.1229	
	Cost Analysis:				\$348.61	\$5.13	\$38.84	\$392.59
5512	Summit Property Co.	03A	14	12	23.541	1.3743	1.1780	
		99	197	161	2.188	1.7974	1.4690	
	Totals:				25.729	3.1717	2.6469	
	Cost Analysis:				\$7,304.13	\$1,590.11	\$836.56	\$9,730.80
5513	Celgene Corporation	1	107	165	10.149	4.5284	6.9830	
	Totals:				10.149	4.5284	6.9830	
	Cost Analysis:				\$2,881.17	\$2,270.24	\$2,206.95	\$7,358.36
SUMMIT TOTALS					37.1060	7.7104	9.7529	
					\$10,533.91	\$3,865.49	\$3,082.35	\$17,481.75

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7015	ACuPowder	3 (99) 4	197 78	161 82	0.035	0.0288	0.0235	
					1.842	0.5991	0.6299	
					1.877	0.6279	0.6534	
					<b>\$532.86</b>	<b>\$314.78</b>	<b>\$206.49</b>	<b>\$1,054.12</b>
7025	Lors Photography	2	84	74	0.483	0.1692	0.1490	
					0.483	0.1692	0.1490	
					<b>\$137.12</b>	<b>\$84.82</b>	<b>\$47.10</b>	<b>\$269.04</b>
7045	Breeze /TransTechnology	1	217	296	1.203	1.0886	1.4849	
					1.203	1.0886	1.4849	
					<b>\$341.52</b>	<b>\$545.75</b>	<b>\$469.29</b>	<b>\$1,356.55</b>
7060	National Envelope	1	544	1554	1.697	3.8496	10.9969	
					1.697	3.8496	10.9969	
					<b>\$481.76</b>	<b>\$1,929.95</b>	<b>\$3,475.51</b>	<b>\$5,887.21</b>
7070	Durex	1	57	102	4.028	0.9574	1.7133	
					4.028	0.9574	1.7133	
					<b>\$1,143.50</b>	<b>\$479.99</b>	<b>\$541.47</b>	<b>\$2,164.95</b>
7077	Electrocatalytic	4	168	126	1.294	0.9065	0.6799	
					1.294	0.9065	0.6799	
					<b>\$367.35</b>	<b>\$454.47</b>	<b>\$214.88</b>	<b>\$1,036.70</b>
7080	Foremost Mfg	2	33	212	19.396	2.6691	17.1468	
					19.396	2.6691	17.1468	
					<b>\$5,506.27</b>	<b>\$1,338.11</b>	<b>\$5,419.17</b>	<b>\$12,263.56</b>
7088	Hanovia	1	82	88	0.215	0.0735	0.0789	
					0.215	0.0735	0.0789	
					<b>\$61.04</b>	<b>\$36.86</b>	<b>\$24.93</b>	<b>\$122.83</b>
7092	International Paint	2	137	390	1.851	1.0575	3.0103	
					1.851	1.0575	3.0103	
					<b>\$525.47</b>	<b>\$530.14</b>	<b>\$951.38</b>	<b>\$2,007.00</b>
7105	Stonco Lighting	2	169	273	1.391	0.9803	1.5835	
					1.391	0.9803	1.5835	
					<b>\$394.89</b>	<b>\$491.45</b>	<b>\$500.47</b>	<b>\$1,386.80</b>
7145	Schering	5	26	25	180.548	19.5750	18.8221	
					180.548	19.5750	18.8221	
					<b>\$51,255.25</b>	<b>\$9,813.66</b>	<b>\$5,948.64</b>	<b>\$67,017.55</b>

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
7150	SS Studios	1	336	237	0.167	0.2340	0.1650	
	Totals:				0.167	0.2340	0.1650	
	Cost Analysis:				\$47.41	\$117.31	\$52.16	\$216.88
7155	Tessler & Weiss	22	156	97	0.998	0.6492	0.4037	
	Totals:				0.998	0.6492	0.4037	
	Cost Analysis:				\$283.32	\$325.48	\$127.58	\$736.38
7167	Turbo Braze	1	139	302	0.211	0.1223	0.2657	
	Totals:				0.211	0.1223	0.2657	
	Cost Analysis:				\$59.90	\$61.31	\$83.98	\$205.19
7191	Cintas	1	171	344	10.363	7.3895	14.8655	
	Totals:				10.363	7.3895	14.8655	
	Cost Analysis:				\$2,941.92	\$3,704.65	\$4,698.17	\$11,344.74
7192	Merril Corporation	1	846	972	0.736	2.5965	2.9832	
	Totals:				0.736	2.5965	2.9832	
	Cost Analysis:				\$208.94	\$1,301.71	\$942.82	\$2,453.47
UNION TOTALS					226.4580	42.9461	75.0021	
					\$64,288.50	\$21,530.42	\$23,704.06	\$109,522.98

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2006

Municipality: WEST ORANGE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$283.8870856	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
8040	Turtle Back Zoo	1	9	19	0.073	0.0027	0.0058	
	Totals:				0.073	0.0027	0.0058	
	Cost Analysis:				\$20.72	\$1.37	\$1.83	\$23.93
WEST ORANGE TOTALS					0.0730	0.0027	0.0058	
					\$20.72	\$1.37	\$1.83	\$23.93

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
			BOD (mg/l)	TSS (mg/l)	Flow per MG \$251.4452964	BOD per Ton \$501.3361740	TSS per Ton \$316.0450893	
0025	Interbake Foods	3	332	228	39.754	55.0370	37.7965	\$49,533.41
	Totals:				39.754	55.0370	37.7965	
	Cost Analysis:				\$9,995.96	\$27,592.05	\$11,945.40	
0033	Cargill Citro Pure	1	368	73	1.118	1.7156	0.3403	\$1,248.79
	Totals:				1.118	1.7156	0.3403	
	Cost Analysis:				\$281.12	\$860.11	\$107.56	
0037	Deb-El Foods	1	1283	241	3.744	20.0308	3.7626	\$12,172.74
	Totals:				3.744	20.0308	3.7626	
	Cost Analysis:				\$941.41	\$10,042.17	\$1,189.15	
0062	Garcia Laundry	2	572	190	3.566	8.5058	2.8253	\$6,053.84
	Totals:				3.566	8.5058	2.8253	
	Cost Analysis:				\$896.65	\$4,264.25	\$892.94	
0067	Purepac Pharmaceutical	1	1184	900	5.896	29.1102	22.1277	\$28,391.85
	99		197	161	6.079	4.9938	4.0813	
	Totals:				11.9750	34.1040	26.2090	
	Cost Analysis:				\$3,011.06	\$17,097.57	\$8,283.23	
0070	LORCO	2	5117	142	17.325	369.6789	10.2588	\$192,931.97
	Totals:				17.325	369.6789	10.2588	
	Cost Analysis:				\$4,356.29	\$185,333.43	\$3,242.25	
0075	Mastercraft Electroplating	1	1	4	0.010	0.0000	0.0002	\$64.75
	99		197	161	0.071	0.0583	0.0477	
	Totals:				0.0810	0.0584	0.0478	
	Cost Analysis:				\$20.37	\$29.26	\$15.12	
0078	Magnolia Beef	1	2774	1300	0.174	2.0128	0.9433	\$1,434.98
	99		197	161	0.096	0.0789	0.0645	
	Totals:				0.270	2.092	1.0077	
	Cost Analysis:				\$67.89	\$1,048.61	\$318.48	
0091	NJ Turnpike Authority	1	3	4	1.768	0.0221	0.0295	\$464.96
	Totals:				1.768	0.0221	0.0295	
	Cost Analysis:				\$444.56	\$11.09	\$9.32	
0093	OENJ	4	9	48	10.498	0.3940	2.1013	\$3,501.29
	Totals:				10.498	0.3940	2.1013	
	Cost Analysis:				\$2,639.67	\$197.52	\$664.10	
0098	Olympia Trails	1	476	278	1.511	2.9992	1.7516	\$2,776.06
	99		167	161	0.417	0.2904	0.2800	
	Totals:				1.928	3.2896	2.0316	
	Cost Analysis:				\$484.79	\$1,649.20	\$642.08	
0100	Michaels Foods - North Avenue Facility	4	2553	698	69.817	743.2725	203.2135	\$496,005.90
	4a		1660	279	8.005	55.4122	9.3133	
	4b		1144	186	2.671	12.7420	2.0717	
	99		197	161	1.309	1.0753	0.8788	
	Totals:				81.802	812.5020	215.4773	
	Cost Analysis:				\$20,568.73	\$407,336.63	\$68,100.55	



## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2006

Municipality: ELIZABETH

			Cost Factors					
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$251.4452964	\$501.3361740	\$316.0450893	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
0105	Michaels Foods - Papetti Plaza Facility	2	4249	1322	67.172	1190.1757	370.3018	
		2a	2237	409	7.299	68.0872	12.4487	
		2b	3810	473	0.653	10.3747	1.2880	
		3	350	554	0.626	0.9136	1.4462	
		Totals:			75.750	1269.5512	385.4846	
	Cost Analysis:				\$19,046.98	\$636,471.92	\$121,830.51	\$777,349.42
0120	Phelps Dodge	1	12	17	4.355	0.2179	0.3087	
		99	197	161	0.399	0.3278	0.2679	
		Totals:			4.754	0.5457	0.5766	
	Cost Analysis:				\$1,195.37	\$273.58	\$182.23	\$1,651.18
0148	Superior Powder Coating	1	33	25	2.506	0.3449	0.2613	
		99	197	161	0.592	0.4863	0.3975	
		Totals:			3.098	0.8312	0.6587	
		Cost Analysis:				\$778.98	\$416.70	\$208.18
	0155	Duro Bag	1	213	92	14.883	13.2192	5.7097
		2	99	116	3.915	1.6162	1.8938	
		3	224	210	1.246	1.1639	1.0911	
	Totals:				20.044	15.9993	8.6946	
	Cost Analysis:				\$5,039.97	\$8,021.04	\$2,747.89	\$15,808.89
0165	Wakefern Food Corp.	2	217	259	3.865	3.4974	4.1743	
		3	402	421	9.170	15.3720	16.0986	
		4	316	351	0.830	1.0937	1.2148	
		7	163	250	0.273	0.1856	0.2846	
		Totals:			14.138	20.1487	21.7723	
	Cost Analysis:				\$3,554.93	\$10,101.28	\$6,881.04	\$20,537.25
0175	Prince Donut Co.	1	6289	2193	1.27	33.3059	11.6139	
		99	197	161	0.312	0.2563	0.2095	
		Totals:			1.582	33.5622	11.8234	
	Cost Analysis:				\$397.79	\$16,825.95	\$3,736.72	\$20,960.46
0178	814 Americas	1	556	454	1.801	4.1757	3.4096	
		2	103	36	0.479	0.2057	0.0719	
		99	197	161	0.105	0.0863	0.0705	
		Totals:			2.385	4.4676	3.5520	
	Cost Analysis:				\$599.70	\$2,239.79	\$1,122.60	\$3,962.09
ELIZABETH TOTALS					295.5800	2,652.5358	734.4501	
					\$74,322.20	\$1,329,812.15	\$232,119.34	\$1,636,253.69