December 16, 1999

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 2000)

I present herewith the 65th 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, 1998 through October 31, 1999. 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 2000. 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 1999, 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, 1998.

During 1999, 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 (2000) dwelling unit figures formulated by each municipality in 1999.

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, 1998, through October 31, 1999 and projected for a twelve (12) month period in 2000. 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 2000, 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, 1998, through October 31, 1999, and projected for 2000 and are based upon actual 1998-1999 operating statistics as well as a recent upgraded 1999 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	21,995.8430	MG/Year		60.2626	MGD
2.	BOD	17,867.9049	Tons/Year		97,906.3282	Lbs/Day
	TSS	15,065.4504	Tons/Year		82,550.4132	Lbs/Day
3.	Estimated Indus	strial Flow	914.0970	MG/Year	2.5044	MGD
4.	Estimated Indus	strial BOD	2,340.1392	Tons/Year	12,822.6805	Lbs/Day
5.	Estimated Indus	strial TSS	826.8397	Tons/Year	4,530.6285	Lbs/Day
6.	Estimated Total	l Operating Ex	penses in 1999			
					\$10,723,439	STP
					4,652,146	SDWF
	•				850,655	SDF
				_	301,760	Sewers
				_	\$16,528,000	Total
7.	Estimated Total	l Dwelling Un	its in System			
					147,536	JM Members

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

47,181 Elizabeth 194,717 Total

Flow	27.9289903%
BOD	46.2290432%
Suspended Solids	25.8419665%

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 2000 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 2000

Treatment Plant

			Domestic &	
	Total for 2000		Commercial	Industrial
Flow	21,995.8430	MG/Yr.1	21,081.7460 MG/Yr.	914.0970 MG/Yr.
BOD	17,867.9049	Tons/Yr.1	15,527.7657 Tons/Yr.	2,340.1392 Tons/Yr.
Suspended Solid	15,065.4504	Tons/Yr.1	14,238.6107 Tons/Yr.	826.8397 Tons/Yr.

(1) Based upon data from November 1, 1998 thru October 31, 1999 (365 days)

Cost Allocation

		Domestic &	
	Total for 2000	Commercial	Industrial
Flow	\$4,531,825.00	\$4,343,493.00	\$188,332.00
BOD	7,501,235.50	6,518,807.00	982,428.50
Suspended Solid	4,193,179.50	3,963,045.00	230,134.50
•	\$16,226,240.00	\$14,825,345.00	\$1,400,895.00
	100.000000%	91.36648420%	8.63351580%

Elizabeth Contribution

Flow	_	5,468.5210	MG/Yr.
BOD	-	7,441.0632	Tons/Yr.
TSS	-	3,552.8499	Tons/Yr.

Trunk Sewer Flow 1

	Domestic &	
Total for 2000	Commercial	Industrial
16,527.3220 MG/Yr. ²	15,789.9050 MG/Yr.	737.417 MG/Yr.

- (1) Based upon data from November 1, 1998 thru October 31, 1999 (365 days)
- (2) (21,995.843 5,468.5210)

COST ALLOCATION

\$301,760.00 \$288,296.06 \$13,463.94

Member municipalities will be assessed \$1.95 (\$288,296.06/147,536) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$224.29 per MG for flow, \$419.82 per ton of BOD, and \$278.33 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	\$188,332.00	/	914.0970 =	\$206.0306510	/MG
BOD	\$982,428.50	/	2,340.1392 =	\$419.8162656	/Ton
Suspended Solids	\$230,134.50	/	826.8397 =	\$278.3302495	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$18.26/MG of flow for trunk sewer use (\$13,463.94/737.417 = \$18.258/MG). This brings the total flow cost to \$224.29/MG (\$206.030 + \$18.258) for the indicated industries of member municipalities.

Based upon the user charges for 2000, 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 1999 industrial waste survey of the service area. These are estimates for 2000 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 \$16,528,000.00 for 2000. However, it should be noted that in accordance with the Agreement between the Joint Meeting and the City of Elizabeth noted previously, and as a result of the monitoring of the Trenton Avenue Pumping Station, the City would provide for 34.0402733% 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
2000

Municipality	Dwelling Units ¹	User Charges Industrial
East Orange	7,218	\$ -
Hillside	8,417	180,380
Irvington	26,707	34,060
Maplewood	9,293	10,692
Millburn	9,762 4	-
Newark	16,972	-
Roselle Park	4,739	546
South Orange	6,833	-
Summit	13,919 2	87,902 ³
Union	24,218	575,382
West Orange	19,458	12,688
Elizabeth	47,181 194,717	\$12,709 \$1,414,359

⁽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 (3580)

⁽³⁾ Includes Murray Hill

⁽⁴⁾ Includes Livingston (423)

Table III

Joint Meeting of Essex and Union Counties

Computation of Estimated Percent Contribution By City of Elizabeth

For Period 11/1/98-10/31/99 and Projected Contribution for 2000

	Treatment Plant		Elizabeth Pu	ımping	g Station		Joint M	eeting
Flow:	21,995.843 N	ИG	5,468.521	MG			16,527.322	MG
			Industrial		D&C		Industrial	D&C
			152.042		5,316.479		737.417	15,789.905
			\$ 31,325.31	\$	1,095,357.63	\$	165,394.44	\$ 3,541,500.36
Unit Charge								***************************************
Unit Charge	\$ 224.2888957 I	Per MG fo	r Joint Meeting			_		
BOD:	17867.9049	Γons	7,441.0632	Tons	3		10,426.8417	Tons
			Industrial		D&C		Industrial	D&C
			977.5674	-	6,463.4958		1,326.814	9,100.0277
			\$ 410,398.70	\$	2,713,480.67	\$	557,018.10	
Unit Charge	419.8162656 I	Per Ton						
TSS:	15,065.4504	Гопѕ	3,552.8499	Tons	3		11,512.6005	Tons
			Industrial		D&C		Industrial	D&C
			167.895		3,384.9549		643.9742	10,868.6263
			\$ 46,730.26	\$	942,135.34	\$	179,237.50	
Unit Charge	278.3302495	Per Ton						
Z				\$	5,239,427.91	\$	901,650.04	
	City of Elizabeth (C	Contributio	n from Pumping S	Station)		\$	5,239,427.91	
	City of Elizabeth (I	ndustry Tr	ibutary to Joint M	eeting '	Trunk)			
	Flow:	24 6380	MG/Year at	\$	206.0306510		5,076.18	
	BOD:		Tons/Year at	4	419.8162656		15,011.71	
	TSS:		Tons/Year at		278.3302495		4,166.74	
	Joint Meeting Indu	strial					901,650.04	
	Subtotal					\$	6,165,332.58	•
	m + 12000 P 1 +			\$	16,528,000.00			
	Total 2000 Budget			Ψ	10,520,000.00			
	Subtotal (above)				(6,165,332.58)			

Joint Meeting EDU's (X + Y) + Elmora EDU's (X)=

10,362,667

(Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)

147,536 (X + 1.954072633) + 3905 (X) =

10,362,667

Equivalent Units-Member Municipalities

147,536

Elmora EDU's =

3,905

\$66.5234075320

Per Unit = X

\$68.4774801650

Per Unit = X+Y

Joint Meeting EDU Assessment

Elmora Area Assessment

\$ 10,102,893.51

\$ 259,773.91

Total Anticipated Payment from the City of Elizabeth

Pumping Station

5,239,427.91

Elmora EDU's

259,773.91

Elmora Industrial

24,254.63

\$ 5,523,456.45

Total Anticipated Payment from Member Municipalities

EDU's

10,102,893.51

Industrial

901,650.04

\$ 11,004,543.55

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

\$ 5,523,456.45

\$ 16,226,240.00 =

34.0402733%

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

			Base Year - 1982	r - 1982			Base Year - 1982	1982		
	Capacity By	Capacity By	Phase IIB - SSES 1	- SSES 1			Phase IIB - SSES 2	SES 2		
	Contract	Contract	Infiltration	ation	SSES - November 1999	ıber 1999	Inflow		SSES - November 1999	er 1999
Municipality	(MGD)	(Percent)	(GPD) ³	(Percent)	(GPD) ⁴	(Percent)	(GPD)	(Percent)	(GPD) ⁵	(Percent)
					46,610				3,560,358	
East Orange	5.50	4.88%	70,747	2.11%	54,327	2.61%	3,007,440	5.79%	3,007,220	6.21%
)					28,216				1,307,184	
Hillside	12.20	10.83%	79,012	2.36%	32,980	1.58%	1,185,120	2.28%	1,105,920	2.28%
					683,618				9,224,823	
Irvington	18.61	16.52%	1,115,672	33.31%	797,026	38.28%	8,612,640	16.57%	7,791,840	16.09%
					171,083				6,449,923	
Maplewood	7.08	6.29%	389,078	11.62%	199,485	9.58%	5,449,680	10.48%	5,449,680	11.25%
-					130,545				2,809,300	
Millburn	0.00	5.33%	191,609	5.72%	152,240	7.31%	2,729,520	5.25%	2,371,680	4.90%
					185,548				2,321,972	
Newark	15.50	13.76%	234,484	7.00%	216,248	10.39%	1,959,540	3.77%	1,959,840	4.05%
					55,897				1,863,311	
Roselle Park	9.44	8.38%	106,187	3.17%	65,147	3.13%	1,576,080	3.03%	1,576,080	3.25%
					71,969				2,551,303	
South Orange	7.00	6.22%	410,876	12.27%	83,883	4.03%	2,183,760	4.20%	2,153,520	4.45%
)					75,362				2,390,772	
Summit	7.50	%99.9	171,657	5.13%	87,666	4.22%	3,651,120	7.02%	2,018,880	4.17%
					204,121				16,867,266	
Union	10.30	9.14%	329,127	9.83%	238,013	11.43%	14,534,640	27.96%	14,246,640	29.42%
; ; ; ;					132,866				7,986,439	
West Orange	13.50	11.99%	250,811	7.48%	154,847	7.44%	7,097,040	13.65%	6,744,600	13.93%
					1,785,835				57,332,651	
	112.63	100.00%	3,349,260	100.00%	2,081,862	100.00%	51,986,580	100.00%	48,425,900	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)

- Adjusted for period 11/1/98 - 10/31/99; (3.94392877% x 16,527.3220 = 651.82 MG / Year / 365 = 1,785,835 GPD) (3) "Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD = 6.346% (4) 1999 - Infiltration related to base year total = 2.082 MGD / 52.79 MGD = 3.94392877%

(5) 1999 inflow adjusted for period 11/1/98 - 10/31/99 - (39.33" / 33.22") x (48,425,900) = 57,332,651 GPD

Table IV - A Joint Meeting of Essex and Union Counties Adjusted 1999 - Summary of Infiltration and Inflow

	Phase ITB		1999		Phase IIB		1999	
	SSES	1998	Infiltration	1999	SSES	1998	Inflow	1999
Municipality	Infiltration (GPD)	Infiltration (GPD)	Removed (GPD)	Infiltration (GPD)	Inflow (GPD)	Inflow (GPD)	Removed (GPD)	Inflow (GPD)
East Orange	70,747	54,327	1	54,327	3,007,440	3,007,440	220	3,007,220
Hillside	79,012	32,980	1	32,980	1,185,120	1,185,120	79,200	1,105,920
Irvington	1,115,672	797,026	ı	797,026	8,612,640	7,791,840	ı	7,791,840
Maplewood	389,078	199,485	1	199,485	5,449,680	5,449,680	ı	5,449,680
Millburn	191,609	152,240	ı	152,240	2,729,520	2,384,640	12,960	2,371,680
Newark	234,484	216,248	ı	216,248	1,959,540	1,959,840	ı	1,959,840
Roselle Park	106,187	65,147	1	65,147	1,576,080	1,576,080	ı	1,576,080
South Orange	410,876	83,906	23	83,883	2,183,760	2,178,000	24,480	2,153,520
Summit	171,657	88,296	630	87,666	3,651,120	2,079,360	60,480	2,018,880
Union	329,127	238,013	ı	238,013	14,534,640	14,246,640	ı	14,246,640
West Orange Total	250,811	154,847 2,082,515	- 653	154,847	7,097,040	6,744,600	177,340	6,744,600

Table V

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

147,536 \$65.4398220773235

Net after infiltration and inflow Equivalent Dwelling Units User Charge Per Unit

Table VI Joint Meeting of Essex and Union Counties Estimated Annual Operation Expenses To Member Municipalities 2000

			DC	Domestic & Commercial	nercial				
		User Charge							
	Dwelling	\$ 65.43982208	Infil	Infiltration	In	Inflow			
Municipality	Units	Per Unit	Percent 1	Amount	Percent 2	Amount	Total Cost	Unit Cost	
East Orange	7,218	\$472,344.64	2.61%	\$3,353.13	6.21%	\$19,852.84	\$495,550.61	\$68.6548	
Hillside	8,417	550,806.98	1.58%	2,029.86	2.28%	7,288.97	560,125.81	66.5470	
Irvington	26,707	1,747,701.33	38.28%	49,179.24	16.09%	51,438.36	1,848,318.93	69.2073	
Maplewood	9,293	608,132.27	9.58%	12,307.66	11.25%	35,965.29	656,405.22	70.6344	
Millburn	9,762 ³	638,823.54	7.31%	9,391.33	4.90%	15,664.88	663,879.75	68.0065	
Newark	16,972	1,110,644.66	10.39%	13,348.28	4.05%	12,947.51	1,136,940.45	66.9892	
Roselle Park	4,739	310,119.32	3.13%	4,021.19	3.25%	10,389.97	324,530.48	68.4808	
South Orange	6,833	447,150.30	4.03%	5,177.44	4.45%	14,226.27	466,554.01	68.2795	
Summit	13,919 4	910,856.88	4.22%	5,421.54	4.17%	13,331.14	929,609.56	66.7871	
Union	24,218	1,584,821.61	11.43%	14,684.40	29.42%	94,053.24	1,693,559.25	69.9298	
West Orange	19,458	1,273,328.06	7.44%	9,558.35	13.93%	44,533.03	1,327,419.44	68.2197	
	147,536	\$9,654,729.59	100.00%	\$128,472.42	100.00%	\$319,691.50	\$10,102,893.51	\$68.4775	1999
	 See Table See Table Includes I 	 See Table IV - Infiltration for November of the Prior Year See Table IV - Inflow for November of the Prior Year Includes Livingston (423) Includes New Providence (3580) 	November of the moder of the Practice Practice (1)	e Prior Year ior Year				\$75.6967 \$73.9447 \$72.7161	1998 1997 1996

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Estimated Annual Operation Expenses To Member Municipalities Joint Meeting of Essex and Union Counties Table VI (Continued) 2000

				Pul	Industrial					
						Flow (M	Flow (MG / Year)			
	BOD	BOD 1	TSS	TSS 2	Dry	Infiltration	Inflow		Flow 3	Total
Municipality	(Tons / Year)	(\$/Year)	(Tons / Year)	(\$/Year)	Weather	3.943929%	9.814052%	Total	(\$/Year)	Cost
East Orange	0.0000	\$0.00	0.0000	\$0.00	00:00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	370.0738	155,363.00	38.8901	10,824.29	54.58	2.50	6.21	63.28	14,193.45	180,380.74
Irvington	50.6100	21,246.90	19.0453	5,300.88	28.89	1.32	3.29	33.49	7,512.11	34,059.89
Maplewood	13.6167	5,716.51	8.5201	2,371.40	10.01	0.46	1.14	11.61	2,603.99	10,691.91
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	0.1742	73.13	0.3261	90.76	1.47	0.07	0.17	1.70	381.74	545.64
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summit 4	47.7019	20,026.03	51.3932	14,304.28	205.99	9.42	23.44	238.85	53,571.63	87,901.95
Union	832.9952	349,704.93	521.4781	145,143.13	309.66	14.16	35.24	359.06	80,534.07	575,382.13
West Orange	11.6422	11.6422 4,887.58 1,326.8140 \$ 557,018.08	4.3213 643.9742	1,202.75	25.37 635.96	1.16	2.89	29.42	6,597.46	\$901,650.04

(1) At \$419.8162656/Ton (2) At \$278.3302495/Ton (3) At \$224.2888957/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
2000

	COLOR DE LA COLOR	Domestic & Co	mmercial		
Municipality	Total Assessments ¹	User Charge Domestic Sewage 65.43982208	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$495,550.61	\$472,344.64	\$0.00	\$23,205.97	4.5031%
Hillside	740,506.55	550,806.98	180,380.74	9,318.83	6.7291%
Irvington	1,882,378.82	1,747,701.33	34,059.89	100,617.60	17.1055%
Maplewood	667,097.13	608,132.27	10,691.91	48,272.95	6.0620%
Millburn	663,879.75	638,823.54	0.00	25,056.21	6.0328%
Newark	1,136,940.45	1,110,644.66	0.00	26,295.79	10.3316%
Roselle Park	325,076.12	310,119.32	545.64	14,411.16	2.9540%
South Orange	466,554.01	447,150.30	0.00	19,403.71	4.2396%
Summit	1,017,511.51	910,856.88	87,901.95	18,752.68	9.2463%
Union	2,268,941.38	1,584,821.61	575,382.13	108,737.64	20.6182%
West Orange	1,340,107.23	1,273,328.06	12,687.79	54,091.38	12.1778%
	\$11,004,543.55	\$9,654,729.59	\$901,650.04	\$448,163.92	100.0000%
Elizabeth	5,523,456.45				
Total	\$ 16,528,000.00				

(1) Reflects anticipated payment of \$5,523,456.45 from the City of Elizabeth which is 34.0402733% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2000 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 2000 Assessment with 1999 Assessment

				Compa	rison
Municipality	1999	2000		Amount	Percentage
East Orange	\$463,149.25	\$495,550.61	(+)	\$32,401.36	7.00%
Hillside	755,530.98	740,506.55	(-)	(15,024.43)	-1.99%
Irvington	1,752,707.32	1,882,378.82	(+)	129,671.50	7.40%
Maplewood	623,028.39	667,097.13	(+)	44,068.74	7.07%
Millburn	614,167.57	663,879.75	(+)	49,712.18	8.09%
Newark .	1,049,110.27	1,136,940.45	(+)	87,830.18	8.37%
Roselle Park	301,696.86	325,076.12	(+)	23,379.26	7.75%
South Orange	432,795.09	466,554.01	(+)	33,758.92	7.80%
Summit	960,574.20	1,017,511.51	(+)	56,937.31	5.93%
Union	2,236,999.02	2,268,941.38	(+)	31,942.36	1.43%
West Orange	1,230,916.98	1,340,107.23	(+)	109,190.25	8.87%
	\$10,420,675.94	\$11,004,543.55	(+)	\$583,867.62	5.60%
Elizabeth	6,123,904.06	5,523,456.45	(-)	\$ (600,447.61)	-9.80%
Total	\$16,544,580.00	\$16,528,000.00	(-)	(\$16,579.99)	-0.10%

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

1996	37.06967270%
1997	34.89536790%
1998	31.17283950%
1999	37.78119050%
2000	34.04027330%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2000 as a result of the Agreement with the City of Elizabeth which requires 34.0402733% of the 2000 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 34.0402733% 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 1999.

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 2000 are apportioned as follows:

	2000	1999		2000	1999
East Orange	4.5031%	4.4445%	Roselle Park	2.9540%	2.8952%
Hillside	6.7291%	7.2503%	South Orange	4.2396%	4.1532%
Irvington	17.1055%	16.8195%	Summit	9.2463%	9.2180%
Maplewood	6.0620%	5.9788%	Union	20.6182%	21.4669%
Millburn	6.0328%	5.8937%	West Orange	12.1778%	11.8123%
Newark	10.3316%	10.0676%	Total	100.0000%	100.0000%
			ε		-

Respectfully submitted,

a. Repl Lorde

A. Ralph LaMendola

Chief Engineer

Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A 2000 Budget

-	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 1,377,000	\$ 122,400	\$ 30,600	\$ -	\$ 1,530,000
Gas Service	71,000	10,000	140,000	-	221,000
Fuel, Oil & Kerosene	130,800	43,200	-	-	174,000
Water Service	133,000	72,000	-	-	205,000
Chemicals	276,300	577,900	16,600	2,200	873,000
Sludge Disposal	-	1,825,000	-	-	1,825,000
Insurance	260,274	54,631	29,305	5,790	350,000
Administration	1,108,000	553,000	45,000	39,000	1,745,000
Labor	3,348,000	738,300	74,500	8,200	4,169,000
Benefits	1,079,265	238,015	6,050	12,670	1,336,000
Equipment	168,000	58,000	-	-	226,000
Printing & Stationery	18,000	5,000	1,000	1,000	25,000
Maintenance, Supplies & Spare Parts	958,500	253,000	-	192,500	1,404,000
Screening Disposal	130,000	-	-	-	130,000
Reserve Contingency	56,000	-	-	-	56,000
Miscellaneous Expenses	120,000	50,000	-	25,000	195,000
Technical & Professional Services	320,000	50,000	250,000	10,000	630,000
Replacement Fund	900,000	-	-	-	900,000
NJPDES & Miscellaneous Permit Fee	269,300	1,700	257,600	5,400	534,000
	\$ 10,723,439	\$ 4,652,146	\$ 850,655	\$ 301,760	\$ 16,528,000
	64.88%	6 28.15%	5.15%	6 1.82%	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	P	ercent SS		Cost SS	Percent BOD	(Cost BOD
General Expenditures ¹	\$ 1,388,874	80%	\$	1,111,099		10%	\$	138,887	10%	\$	138,888
Power	1,377,000	40%	\$	550,800		5%	\$	68,850	55%	\$	757,350
Chlorine	51,000	40%	\$	20,400					60%	\$	30,600
Maintenance, Equipment, Supplies, Spare Parts,		-0.1	_								
& Replacement Fund	2,082,500	28%	\$	583,100		27%	\$	562,275	45%	\$	937,125
Fuel, Oil & Kerosene	130,800	40%	\$	52,320		30%	\$	39,240	30%	\$	39,240
Administration, Labor & Benefits											
(Payroll Retirement)	5,535,265	40%		2,214,106		10%	\$	553,527	50%	\$	2,767,632
Sludge Processing ²	158,000					50%	\$	79,000	50%	\$	79,000
Total	\$10,723,439 100%		\$ 42	4,531,825 2.2609295%			\$ 13	1,441,779 .4451177%		\$ 44	4,749,835 2.2939528%
(1) General Expenditures (From the Approved Bud			(2)	Sludge Proce	ecina	r					
(1 form the 1 approved Bud	.6~.)		(2,	Diauge I loce	331112	•					
Insurance Technical & Professional	l Services	\$ 260,274 320,000		lymer 2MnO4	\$	146,000 12,000					

Insurance	\$	260,274	Polymer	\$ 146,000
Technical & Professional Services		320,000	K2MnO4	12,000
Stationery & Printing		18,000		
Gas		71,000		
Water		133,000		
Miscellaneous		120,000		
Service Contracts		130,000		
Permit Fees		269,300		
Sodium Bisulfite & Misc. Chemicals		67,300		
	\$	1,388,874		\$ 158,000
	-			

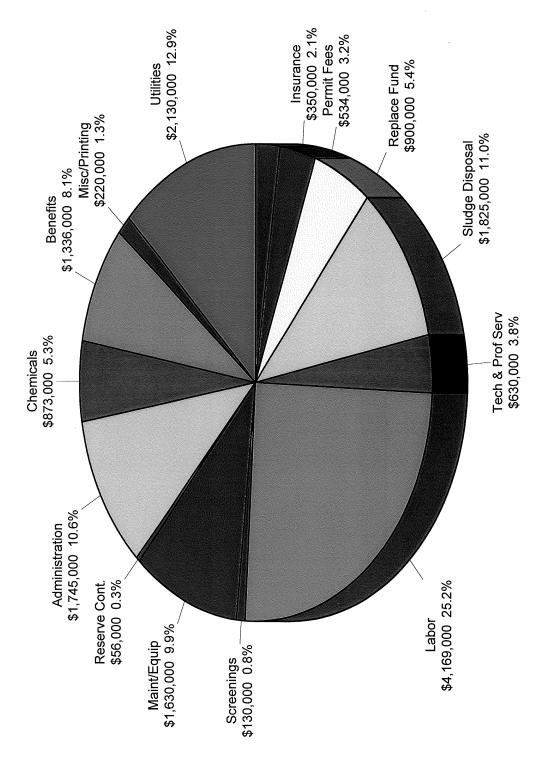
Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A (Continued)

Operations and Management Allocations

	Estimated			
	Total Cost	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 10,723,439	\$ 4,531,825	\$ 1,441,779	\$ 4,749,835
Dewatering Facility	4,652,146		2,326,073	2,326,073
Drying Facility	850,655		425,328	425,328
	\$ 16,226,240	\$ 4,531,825	\$ 4,193,180	\$ 7,501,236
Subtotal	100.00%	27.9289903%	25.8419665%	46.2290432%
Sewers ¹	\$ 301,760			
Total	\$ 16,528,000	<u> </u>		

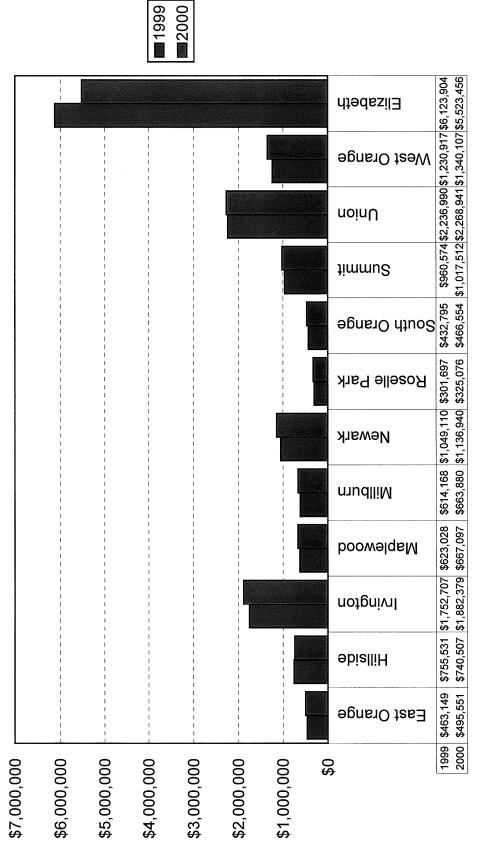
⁽¹⁾ Joint Meeting Members Only

Joint Meeting of Essex & Union Counties 2000 O&M Budget



Joint Meeting of Essex & Union Counties

1999 vs 2000 Assessment by Municipality

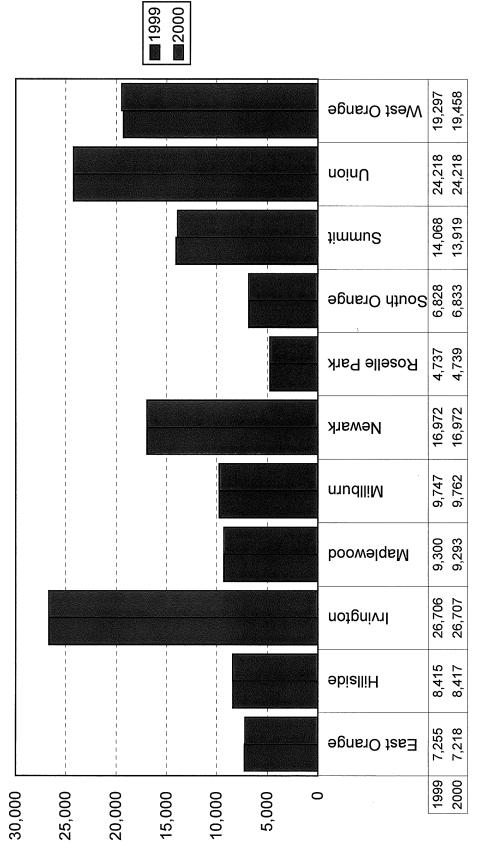


Municipality

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Joint Meeting of Essex & Union Counties

1999 vs 2000 Equivalent Dwelling Units

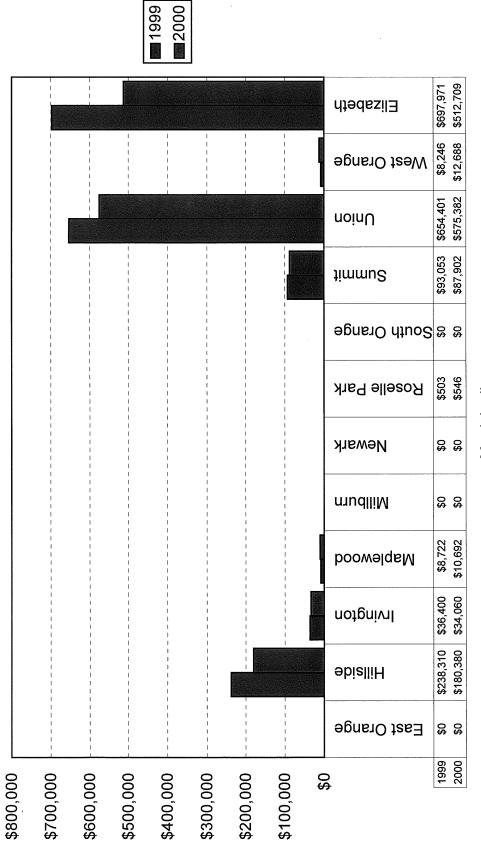


Municipality

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Joint Meeting of Essex & Union Counties

1999 vs 2000 Industrial User Charges



Municipality

Joint Meeting of Essex & Union Counties User Charge Report

raye 1

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Page

		Cost Factors	
Municipality	Flow per MG	BOD per Ton	TSS per Ton
Elizabeth	206.0306510	419.8162656	278.3302495
Hillside	224.2888957	419.8162656	278.3302495
Irvington	224.2888957	419.8162656	278.3302495
Maplewood	224.2888957	419.8162656	278.3302495
Millburn	224.2888957	419.8162656	278.3302495
Murray Hill	224.2888957	419.8162656	278.3302495
Roselle Park	224.2888957	419.8162656	278.3302495
Summit	224.2888957	419.8162656	278.3302495
Union	224.2888957	419.8162656	278.3302495
West Orange	224.2888957	419.8162656	278.3302495

Joint	Meeting	of	Essex	&	Union	Counties
	IIde	~ (harge	Re	nort	

12/07/			User Cha	sex & Union (rge Report		Page 1
	=======	=======================================		======================================	=======================================	
			Municipalit	y: Elizabeth		
				Factors		
					TSS per Ton	
64		206.0306510	419.8	162656	278.3302495	
⊥U #:	0025 Int	erbake Foods				
lite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
3	747.000	303.273	24.4430	76.1397	30.9118	
	Totals: Cost An	alysis:	24.4430 5,036.0072		30.9118 8,603.6890	45,604.3807
TIJ #:	0030 Con	cord Beverag	e			
	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 1 :	3,977.000	97.600	21.3410	353.9211	8.6856	
	Totals: Cost Ar	nalysis:	21.3410 4,396.9001	353.9211 148,581.8345	8.6856 2,417.4652	155,396.1999
U #:	0037 Dek	El Foods Co	rp			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	688.778	247.111	7.5410	21.6593		
	Totals: Cost Ar	: nalysis:	7.5410 1,553.6771	21.6593 9,092.9264		12,809.3966
	0055 Em	kay Chemical	Company			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	203.200	56.800	0.6060	0.5135		
	Totals Cost A	: nalysis:	0.6060 124.8546	0.5135 215.5757		380.3706

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er	Charge	Re	eport	

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09/01/98 Thru 08/31/99

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f-511			09/01/98 Th	ıru 08/31/99		
			Municipality	y: Elizabeth		
		Flow per MG	Cost I BOD pe	er Ton	TSS per Ton	
		206.0306510	419.81		278.3302495	
⊥U #:	0058 Exac	t Anodizing	Corp.			
ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	7.267	144.778	4.6940	0.1422	2.8339	
	Totals: Cost Ana	lysis:	4.6940 967.1079	0.1422 59.6979	2.8339 788.7601	1,815.5658
IU #:	0062 Garc	ia Laundry			,	
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	489.231	166.643	2.2850	4.6616	1.5878	-
	Totals: Cost Ana	lysis:	2.2850 470.7800		1.5878 441.9328	2,869.7283
U #:	0067 Pure	epac Pharmac	eutical Co.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 99	1,304.610	14.620 166.000	3.3020 21.3360	17.9636 17.7942		
	Totals: Cost Ana	alysis:	24.6380 5,076.1832			24,254.6322
IU #:	0078 Magr	nolia Beef C	ompany			
₃ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	1,543.800	279.900	0.2990	1.9249	0.3490	
	Totals: Cost Ana	alysis:	0.2990 61.6032	1.9249 808.1043		966.8448

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er (Charge	Re	eport	

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The state of the s	========	=========	 09/01/98 Th	ru 08/31/99	:======================================	
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Municipality	y: Elizabeth		
			Cost I BOD pe	er Ton		
		206.0306510			278.3302495	
#:	0095 OK 5	Towel & Unif	orm Supply Co	0		
Hite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	238.091	109.000	16.2780	16.1614	7.3988	
	Totals: Cost And	alysis:		16.1614 6,784.8186	7.3988 2,059.3099	12,197.8954
IU #:	: 0100 Pap	etti's Hygra	de Egg Compai	ny		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
4 99	1,669.267	309.154 166.000	19.5990 6.2020	136.4255 5.1725	25.2665 4.2931	
Total Control	Totals: Cost An	alysis:	25.8010 5,315.7968		29.5596 8,227.3308	72,988.2712
EU #	: 0105 Jer	sey Pride Fc	ods			
3ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2 2a 2b	3,028.800 627.250 389.250	488.600 76.750 33.500	25.4350 1.4050 0.8420	321.2465 3.6750 1.3667	0.4497	
T.C. Accounting to	Totals: Cost An	alysis:	27.6820 5,703.3405	326.2882 136,981.0936	52.3901 14,581.7496	157,266.1837
IU #	: 0120 Phe	elps Dodge Ma	agnet Wire Co).		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)		Annual Payment
1 99	12.930	32.550 166.000	0.8620 0.1590	0.0465 0.1326	0.1170	
110000	Totals: Cost Ar	: nalysis:	1.0210 210.3573	0.1791 75.1891		348.7552

Joint	Meeting	of	Essex	&	Union	Counties
	TTale	(The man	D		

User Charge Report

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			09/01/98 Th	ru 08/31/99		
			Municipality	: Elizabeth		
		Flow per MG	Cost F BOD pe		TSS per Ton	
ted		206.0306510	419.81	62656	278.3302495	
_U #:	0148 Supe	rior Powder	Coating			
lite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 99	89.136 200.000	60.818 166.000	0.8260 0.4830	0.3070 0.4028	0.2095 0.3343	
	Totals: Cost Ana	lysis:	1.3090 269.6941	0.7098 297.9856		719.0357
:#:	0155 S &	G Packaging				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 2 99	71.129 130.243 200.000	63.714 140.214 166.000	6.7720 1.5280 0.3420	2.0086 0.8299 0.2852	0.8934	
	Totals: Cost Ana	alysis:	8.6420 1,780.5169	3.1237 1,311.3801		3,907.2098
IU #:	0165 Wake	efern Food C	orp.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2 3 4 7	232.667 881.333 193.833 200.000	182.500 645.333 374.500 166.000	1.5140 7.7140 0.0570 0.8150	1.4689 28.3502 0.0461 0.6797	20.7587	
	Totals: Cost An	alysis:	10.1000 2,080.9096	30.5449 12,823.2459		21,184.4270

12/07/99		of Essex & Unionser Charge Report		Page 5			
	09/01/98 Thru 08/31/99						
	Munic	cipality: Elizabe	th				
	Flow per MG	Cost Factors BOD per Ton	TSS per Ton				
ted .	206.0306510	419.8162656	278.3302495				
	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment			
lizabeth Totals Cost Analysis:		1,013.3252 425,410.4013	182.8655 50,897.0002	512,708.8970			

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2/07/	99	Joint Me	eeting of Ess User Char		Counties	Page 1
====	: ==== ====		09/01/98 Th	ru 08/31/99		========
			Municipalit	y: Hillside		
		Flow per MG	Cost F BOD pe	actors er Ton	TSS per Ton	
		224.2888957	419.81	62656	278.3302495	
⊥U #:	1012 Atla	ntic Metal	Products			
Jite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 2 99	20.273 54.833 200.000	81.250 43.714 166.000	6.0760 6.7990 0.9720	0.5136 1.5546 0.8106	2.0586 1.2394 0.6728	
	Totals: Cost Ana	alysis:	13.8470 3,105.7283	2.8788 1,208.5671		5,419.4892
[U #:	1015 Bris	stol-Myers P	roducts R&D			
 }ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	316.917	202.909	4.8900	6.4623	4.1376	
	Totals: Cost Ana	alysis:	4.8900 1,096.7727	6.4623 2,712.9787		4,961.3706
IU #:	1020 Bris	stol-Myers F	roducts - Pi	lot		

Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
5	143.333	29.333	0.2560	0.1530	0.0313	
	Totals: Cost Ana	lysis:	0.2560 57.4180	0.1530 64.2319	0.0313 8.7117	130.3616

IU	#:	1025	Certified	Processing

Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	293.125	18.222	1.9340	2.3640	0.1470	
	Totals: Cost Analysis:		1.9340 433.7747	2.3640 992.4457	0.1470 40.9145	1,467.1349

	Joint Meeting of Essex & Union Counties		
12/07/99	User Charge Report	Page	2
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09/01/98 Thru 08/31/99

.,			09/01/98 1	'nru 08/31/99		
			Municipali	ty: Hillside		
		Flow per MG	BOD p	Factors per Ton	TSS per Ton	
		224.2888957		3162656	278.3302495	
U #:	1032 McC	ain Citrus, 1	Inc.			
ite		TSS (mg/L)		BOD (Tons)	TSS (Tons)	Annual Payment
3 4	,358.295	216.432	17.6540	320.8454	15.9331	
	Totals: Cost An	alysis:	17.6540 3,959.5962	320.8454 134,696.1177	15.9331 4,434.6637	143,090.3775
U #:	1035 ECD	, Inc.				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
2	4.911	11.523 166.000	19.7490		0.9489	
	Totals: Cost An	alysis:	20.1900 4,528.3928			5,201.656
.u #:	1045 Par	kway Busines	s Center			
Site		TSS (mg/L)	Flow (MG)	BOD (Tons)		Annual Paymen
1	111.375	290.778	0.3930	0.1825	0.4765	
:	Totals: Cost Ar	nalysis:	0.3930 88.1455			297.386
IU #:	1050 Mar	nhattan Drug	Company, In	C.		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
2 3	211.417 787.800	89.750 180.000	0.3510 0.1300	0.3094		
	Totals Cost A	: nalysis:	0.4810 107.8830			480.815

12/07/	/99	Joint Me		sex & Union (rge Report	Counties	Page 3
		·	09/01/98 T	hru 08/31/99		
			Municipali	ty: Hillside		
		Flow per MG	Cost BOD p	Factors er Ton	TSS per Ton	
		224.2888957	419.8	162656	278.3302495	
_U #:	1054 Oas	is Foods Comp	oany			
ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
3 99		1,037.125 166.000	2.8060 0.8310	34.9860 0.6931		
:	Totals: Cost An	alysis:		35.6791 14,978.6665	12.7106 3,537.7445	19,332.1497
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment

_ _ _ _ _

370.0738

155,363.0007

_ _ _ _ _

180,380.7418

38.8901

10,824.2912

_ - - -

63.2820

14,193.4499

Willside Totals:

ost Analysis:

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er (Charge	Re	eport	

12/07/99 09/01/98 Thru 08/31/99

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		N	Municipality	: Irvington		
		Flow per MG	BOD pe	actors r Ton	TSS per Ton	
		224.2888957		62656	278.3302495	
IU #:	2008 Arcl	non Vitamin Co	orporation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
lite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2 3	121.375	83.750 140.000	0.3430	0.1736 0.5235	0.1198	
	Totals: Cost Ana	alysis:	0.6600 148.0307	0.6971 292.6539		525.5475
U #:	2035 Ind	ustrial Retai	ning Ring			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2 99	183.454	34.000 166.000	1.1750	0.8989 0.1735	0.1666	
	Totals: Cost An	alysis:	1.3830 310.1915	1.0724 450.2110		846.8519
IU #:	2036 Int	ergel				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	631.000	181.375	1.8030	4.7442	1.3637	
	Totals: Cost An	alysis:	1.8030 404.3929	4.7442 1,991.6923		2,775.6442
IU #:	2040 Jab	el, Incorpora	ted			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	194.000	86.900	1.0220	0.8268	0.3703	
i U	Totals: Cost Ar	nalysis:	1.0220 229.2233	0.8268 347.1041		679.3930

Joint	Meeting	of	Essex	&	Union	Counties
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			09/01/98 Tr	ıru 08/31/99		
			Municipality	: Irvington		
		Flow per ${\tt MG}$	Cost F BOD pe	er Ton	TSS per Ton	
3		224.2888957	419.81	62656	278.3302495	
	2050 Max	Marx Color (Corporation	9. Alberta 10.		
lite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	189.167	50.182	8.2000	6.4684	1.7159	
	Totals: Cost Ana	alysis:		6.4684 2,715.5395	1.7159 477.5869	5,032.2954
IU #:	2055 Rev	lon, Incorpo	rated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
4 99	155.656 200.000	365.444 166.000	1.5970 4.0620	1.0366 3.3877		
	Totals: Cost Ana	alysis:	5.6590 1,269.2509		5.2455 1,459.9813	4,586.6253
 [U #:	2057 Sal	's Cleaners				
3ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 99	506.200	62.200 166.000	1.6710 0.1060	3.5272 0.0884	0.4334	
	Totals: Cost An	alysis:	1.7770 398.5614	3.6156 1,517.8877		2,057.5068
IU #:	2060 Cin	tas (Formerl	y Standard)			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Paymen
1	531.000	170.364	12.9890	28.7612	9.2276	
	Totals: Cost An		12.9890 2,913.2885	28.7612 12,074.4196		17,556.028

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		09/0	01/98 Thru 08/31/	/99	
		Munio	cipality: Irvingt	con	
	Flow	per MG	- Cost Factors BOD per Ton	TSS per Ton	
	224.2	2888957	419.8162656	278.3302495	
		Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
rvington Tot Cost Analysis		33.4930 7,512.1080		19.0453 5,300.8831	34,059.8923

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er	Charge	Re	eport	

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			03/02/30 22			
			Municipality	y: Maplewood		
[]	- F	low per MG		Factors er Ton	TSS per Ton	
	2	24.2888957	419.83	162656	278.3302495	
_U #:	3020 Gleas	on Cleaners	5			
ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	273.333	74.250	1.1770	1.3415	0.3644	
	Totals: Cost Anal	ysis:	1.1770 263.9880	1.3415 563.1835	0.3644 101.4235	928.5951
IU #:	3033 NJ Tr	ansit Bus '	Terminal		,	
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
3	285.500	189.750	10.2910	12.2518	8.1428	
	Totals: Cost Anal	ysis:	10.2910 2,308.1570	12.2518 5,143.5049		9,718.0495
#:	3045 Carlt	on Chain C	ompany			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	39.500	21.818	0.1420	0.0234	0.0129	
	Totals: Cost Anal	lysis:	0.1420 31.8490	0.0234 9.8237		45.2632
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	ewood Totals Analysis:		.6100 .9941 5	13.6167 5,716.5121	8.5201 2,371.4016	10,691.9078

Joint	Meeting	of	Essex	&	Union	Counties
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Municipality:	Murray	Hill
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		I	Municipality:	Murray Hill	L	
	- I	Flow per MG		r Ton	TSS per Ton	
	-	224.2888957	419.81		278.3302495	
_U #:	5010 Bell	Labs (Form	erly Lucent)			
ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	7.864	19.655	91.8790	3.0128	7.5304	
	Totals: Cost Ana	lysis:	91.8790 20,607.4394	3.0128 1,264.8224		23,968.2000
IU #:	5020 Fabl	ok Mills, I	ncorporated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	274.222	83.778	9.7730	11.1755	3.4142	
	Totals: Cost Ana	lysis:	9.7730 2,191.9754			7,833.9072
]U #:	5021 FRC-	Electrical	Industries			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	11.111	11.078	9.7550	0.4520	0.4506	
	Totals: Cost Ana	lysis:	9.7550 2,187.9382	0.4520 189.7570		2,503.1107
		•	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	y Hill Tota Analysis:	als: 111 24,987	4070 7.3530 6	14.6403 ,146.2361	11.3952 3,171.6289	34,305.2179

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	Use	er	Charge	Re	eport	

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Municipality: Roselle Park

	Cost Factors	
Flow per MG	BOD per Ton	TSS per Ton
224.2888957	419.8162656	278.3302495

U #: 6005 Hexacon Electric Company

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ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
199	4.300	32.100 166.000		0.0274 0.1468	0.2043 0.1218	
	Totals: Cost Ana	lysis:	1.7020 381.7397	0.1742 73.1320	0.3261 90.7635	545.6352
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 401	le Park Tot Analysis:		1.7020 381.7397	0.1742 73.1320	0.3261 90.7635	545.6352

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er	Charge	Re	eport	

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10.3			09/01/98 Th	nru 08/31/99		
	•		Municipal:	ity: Summit		
		Flow per MG	BOD pe	Factors er Ton 	TSS per Ton	
Lear Cons		224.2888957	419.8	162656	278.3302495	
tu #:	5505 Tic	ona (formerl	y Celanese)			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	89.611	120.222	13.7550	5.1399		
	Totals: Cost An	alysis:	13.7550 3,085.0938	5.1399 2,157.8136		7,162.1893
IU #:	5510 Nov	artis Pharma	ceuticals Co	rp		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
3a 99	37.357 200.000		98.6330 15.0560	15.3650 12.5567	22.6802	
	Totals: Cost An		113.6890 25,499.1803	27.9217 11,721.9838		46,434.5355
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
	t Totals: Analysis:		7.4440 4.2740 13	33.0616 3,879.7974	39.9980 11,132.6533	53,596.7248

Joint	Meeting	of	Essex	&	Union	Counties
	IIa	~~ (Thorac	D	nont	

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			Municipalit	y: Union		
			Cost Fa	ctors		
		Flow per MG	BOD per		TSS per Ton	
		224.2888957	419.816		278.3302495	
_U #:	7015 ACuF	Powder Interna	ational			
ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
3a 4a	83.800	120.000 89.667	0.2480 2.1510	0.0867 0.9185	0.1241 0.8043	
	Totals: Cost Ana	alysis:	2.3990 538.0691	1.0052 421.9993	0.9284 258.4018	1,218.4702
ːU #:	7025 All	ied Processing	g Corp.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	5.167	4.433	0.5300	0.0114	0.0098	
	Totals: Cost Ana	alysis:	0.5300 118.8731	0.0114 4.7859		126.3867
[U #:	7035 Ame:	rican Product	s Company			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	388.800	286.167	0.9030	1.4640	1.0776	
	Totals: Cost An	alysis:	0.9030 202.5329	1.4640 614.6110		1,117.0726
IU #:	7045 Tra	nsTechnology	/ Breeze			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	-	Annual Payment
1	126.500	89.100	1.7410	0.9184		
	Totals: Cost An	alysis:	1.7410 390.4870	0.9184 385.5593		956.0981

Joint	Meeting	of	Essex	&	Union	Counties
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			05/01/50 11	II		
The same of the sa			Municipali	ty: Union		,
.)		Flow per MG	Cost F BOD pe	actors er Ton	TSS per Ton	
TANA AND AND AND AND AND AND AND AND AND		224.2888957	419.81	62656	278.3302495	
U #:	7060 Nati	onal Envelo	pe Corp. East	-		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	756.000	767.000	2.2750	7.1720	7.2763	
	Totals: Cost Ana	alysis:	2.2750 510.2572	7.1720 3,010.9223	7.2763 2,025.2144	5,546.3939
IU #:	7070 Dure	ex, Incorpor	ated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	30.281	35.500	17.3050	2.1852	2.5617	
· ·	Totals: Cost Ana	alysis:	17.3050 3,881.3193	2.1852 917.3825		5,511.7004
[U #:	7080 Fore	emost Manufa	cturing Co.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	14.840	389.700	21.9230	1.3567	35.6259	
	Totals: Cost Ana	alysis:	21.9230 4,917.0855	1.3567 569.5647		15,402.4158
IU #:	7088 Han	ovia				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	49.125	24.813	1.5850	0.3247	0.1640	
	Totals: Cost An	alysis:	1.5850 355.4979	0.3247 136.3143		537.4584

Joint	Meeting	of	Essex	&	Union	Counties
	Use	er	Charge	Re	eport	

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			Municipali	ty: Union	•	
		Flow per MG		er Ton	TSS per Ton	
224.288895			L62656	278.3302495		
	7092 Inte	erlux/Courta	uld Coating	,		
ite	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	59.220	64.600	5.5390	1.3678	1.4921	
	Totals: Cost Analysis:		5.5390 1,242.3362	1.3678 574.2247		2,231.8574
IU #:	7105 Stor	nco Lighting	ı			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	68.500	107.400	3.1310	0.8944	1.4022	
	Totals: Cost Ana	alysis:	3.1310 702.2485	0.8944 375.4837		1,468.0069
	7110 NEI,	/DoAll	-			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 99	102.700	9.980 166.000	1.3680 0.2180	0.5859 0.1818		
4	Totals: Cost Analysis:		1.5860 355.7222	0.7677 322.2929		735.8522
IU #:	7145 Sch	ering Corpo	ration	· · · · · · · · · · · · · · · · · · ·		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
5	39.118	38.474	190.9010	31.1399	30.6273	
	Totals: Cost An	alysis:	190.9010 42,816.9745	31.1399 13,073.0365		64,414.5151

Joint	Meeting	of	Essex	&	Union	Counties
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			03/01/30 1	111 0 00, 01, 00		
			Municipal	ity: Union		
		Flow per MG		Factors er Ton	TSS per Ton	
		224.2888957	419.8	419.8162656		
IU #:	7150 SS	Studios, Inc	corporated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	388.800	179.300	0.2420	0.3924	0.1809	
Totals: Cost Analysis:			0.2420 54.2779	0.3924 164.7359	0.1809 50.3499	269.3638
IU #:	7155 Tes	sler & Weiss	Inc.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
20	272.625	82.625	1.9800	2.2510	0.6822	
Totals: Cost Analysis:			1.9800 444.0920	2.2510 945.0064	0.6822 189.8769	1,578.9753
IU #:	7167 Tur	rbo Braze Con	rporation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	692.111	103.556	1.4220	4.1040	0.6141	
Totals: Cost Analysis:			1.4220 318.9388	4.1040 1,722.9260		2,212.7874
IU #:	: 7170 Tus	scan Dairy F	arms, Incorp			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2a 2b	1,918.115 633.667	1,070.680 428.583	93.0890 12.5130	744.5762 33.0642		
	Totals Cost Aı	: nalysis:	105.6020 23,685.3560	777.6404 326,466.0887	437.9809 121,903.3332	472,054.7778

Joint	Meeting o	of	Essex	&	Union	Counties
	User		Charge		eport	

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Post Post St. 1		Municipality: West Orange							
		low per MG	BOD per Ton			TSS per Ton			
		24.2888957	419.816		62656	278.3302495			
IU #:	8030 Organ	on, Incorpo	rated						
Site	BOD (mg/L)	TSS (mg/L)	1)	low MG)	BOD (Tons)	TSS (Tons)	Annual Payment		
1	97.222	35.889		5830	11.5880	4.2776			
	Totals: Cost Anal	ysis:	28.5 6,410.5	5830 8495	11.5880 4,864.8309		12,466.2659		
IU #:	: 8040 Turtl	e Back Zoo							
Site	BOD (mg/L)	TSS (mg/L)	(1	low MG)	BOD (Tons)	TSS (Tons)	Annual Payment		
1	15.625	12.588		8320	0.0542	0.0437			
	Totals: Cost Anal	ysis:	0. 186.	8320 6084	0.0542 22.7540		221.5254		
			Flow (MG)		BOD (Tons)	TSS (Tons)	Annual Payment		
	Orange Total Analysis:	s: 29. 6,597.	4150	4	11.6422 ,887.5849	4.3213 1,202.7485	12,687.7913		
			Flow (MG)		BOD (Tons)	TSS (Tons)	Annual Payment		
	d Totals: Analysis:	914. 201,795.	.0970 .9400		,340.1392 ,428.4999	826.8397 230,134.5000	1,414,358.9399		