December 11, 1997

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 1998)

I present herewith the 63nd 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, 1996 through October 31, 1997. 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 1998. 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 1997, 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 12, 1996.

During 1997, 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 (1998) dwelling unit figures formulated by each municipality in 1997.

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, 1996, through October 31, 1997 and projected for a twelve (12) month period in 1998. 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 1998, 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, 1996, through October 31, 1997, and projected for 1998 and are based upon actual 1996-1997 operating statistics as well as a recent upgraded 1997 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. 2.	Flow BOD TSS	23,852.3310 16,327.8665 15,032.9589	Tons/Year		65.3489 89,467.7616 82,372.3775	Lbs/Day
3.4.5.6.	Estimated Indus Estimated Indus Estimated Indus Estimated Total	strial BOD strial TSS	2,376.1808 1,067.8209		2.6856 13,020.1688 5,851.0734 \$11,072,710 5,364,610 624,100 584,320 \$17,645,740	Lbs/Day Lbs/Day STP SDWF SDF Sewers
7.	Estimated Total	Dwelling Unit	s in System	_	147,009 47,181	JM Members Elizabeth

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

194,190 Total

Flow	28.2157640%
BOD	45.5697474%
Suspended Solids	26.2144886%

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 1998 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 1998

Treatment Plant

		Domestic &	
	Total for 1998	Commercial	Industrial
Flow	23,852.3310 MG/Yr	22,872.0920 MG/Yr.	980.2390 MG/Yr.
BOD	16,327.8665 Tons/Y	r. ¹ 13,951.6857 Tons/Yr.	2,376.1808 Tons/Yr.
Suspended Solid	15,032.9589 Tons/Y	r. ¹ 13,965.1380 Tons/Yr.	1,067.8209 Tons/Yr.

(1) Based upon data from November 1, 1996 thru October 31, 1997 (365 days)

Cost Allocation

		Domestic &	
	Total for 1998	Commercial	Industrial
Flow	\$4,814,010.00	\$4,616,173.00	\$197,837.00
BOD	7,774,846.00	6,643,379.00	1,131,467.00
Suspended Solid	4,472,564.00	4,154,869.00	317,695.00
•	\$17,061,420.00	\$15,414,421.00	\$1,646,999.00
	100.000000%	90.34664760%	9.65335240%

Elizabeth Contribution

Flow	-	5,946.0460	MG/Yr.
BOD	-	5,972.7448	Tons/Yr.
TSS	-	3,242.3508	Tons/Yr.

Trunk Sewer Flow 1

	Domestic &	
Total for 1998	Commercial	Industrial
17.906.2850 MG/Yr. ²	17.112.1940 MG/Yr.	794.091 MG/Yr.

- (1) Based upon data from November 1, 1996 thru October 31, 1997 (365 days)
- (2) (23,852.331 5,946.0460)

COST ALLOCATION

\$584,320.00 \$558,407.13 \$25,912.87

Member municipalities will be assessed \$3.80 (\$58,407.13/147,009) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$234.46 per MG for flow, \$476.17 per ton of BOD, and \$297.52 per ton of suspended solids. These estimates are predicated upon the cost allocation to industry and the estimates of flow and strength characteristics of the industrial waste, all as indicated on Table I. These costs were determined as follows:

Flow	\$197,837.00	/	980.2390 =	\$201.8252691	/MG
BOD	\$1,131,467.00	/	2,376.1808 =	\$476.1704160	_
Suspended Solids	\$317,695.00	/	1,067.8209 =	\$297.5171211	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$32.63/MG of flow for trunk sewer use (\$25,912.87/794.091 = \$32.632/MG). This brings the total flow cost to \$234.46/MG (\$201.825 + \$32.632) for the indicated industries of member municipalities.

Based upon the user charges for 1998, 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 1997 industrial waste survey of the service area. These are estimates for 1998 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 \$17,645,740.00 for 1998. However, it should be noted that in accordance with the Agreement between the Joint Meeting and the City of Elizabeth noted previously, and as a result of the monitoring of the Trenton Avenue Pumping Station, the City would provide for 31.1728395% 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

1998

Municipality	Dwelling Units ¹	User Charges Industrial
East Orange	7,245	\$ -
Hillside	8,421	98,714
Irvington	26,721	37,336
Maplewood	9,093	9,536
Millburn	9,730 4	-
Newark	16,972	-
Roselle Park	4,736	427
South Orange	6,834	-
Summit	14,039 2	109,255 3
Union	24,196	937,087
West Orange	19,022	6,755
Elizabeth	47,181 194,190	\$ 1,672,910

⁽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 (3697)

⁽³⁾ Includes Murray Hill

⁽⁴⁾ Includes Livingston (431)

Table III

Joint Meeting of Essex and Union Counties

Computation of Estimated Percent Contribution By City of Elizabeth

For Period 11/1/96-10/31/97 and Projected Contribution for 1998

101	Treatment Plant		imping Station	Joint N	Meeting
Flow:	23,852.331 MG	5,946.046	MG	17,906.285	
		Industrial	D&C	Industrial	D&C
		164.486	5,781.56	794.091	17,112.194
		\$ 33,197.43	\$ 1,166,864.90	\$ 186,180.50	\$ 4,012,080.27
Unit Charge Unit Charge					
omt ominge	ψ 234.4373830 Tel MG	Tor Joint Meeting			
BOD:	16327.8665 Tons	5,972.7448	Tons	10,355.1217	Tons
		Industrial	<i>D&C</i>	Industrial	D&C
		768.5564	5,204.1884	1,564.0447	8,791.077
Unit Charge	476.170416 Per Ton	\$ 365,963.82	\$ 2,478,080.56	\$ 744,751.82	
TSS:	15,032.9589 Tons	3,242.3508	Tons	11,790.6081	Tons
		Industrial	D&C	Industrial	<i>D&C</i>
		153.3869	3,088.9639	901.3879	10,889.2202
		\$ 45,635.23	\$ 919,019.65	\$ 268,178.33	
Unit Charge	297.5171211 Per Ton				
			\$ 5,008,761.59	\$ 1,199,110.65	
	City of Elizabeth (Contribution	on from Pumping Sta	tion)	\$ 5,008,761.59	
	City of Elizabeth (Industry T	ributary to Joint Meet	ting Trunk)		
	Flow: 21.6620	MG/Year at	\$ 201.8252691	4,371.94	
		Tons/Year at	476.1704160	20,751.36	
	TSS: 13.0461	Tons/Year at	297.5171211	3,881.44	
	Joint Meeting Industrial			1,199,110.65	
ì	Subtotal			\$ 6,236,876.98	
	Гotal 1997 Budget		\$ 17,645,740.00		
9	Subtotal (above)		(6,236,876.98)		

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

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

147,009 (X + \$3.798455401) + 3905 (X) = \$ 11,408,863

Equivalent Units-Member Municipalities 147,009

75.6967278610 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 11,128,100.27

Elmora Area Assessment \$ 280,762.75

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 5,008,761.59

Elmora EDU's 280,762.75

Elmora Industrial 29,004.74

\$ 5,318,529.08

11,408,863

Total Anticipated Payment from Member Municipalities

EDU's 11,128,100.27

Industrial 1,199,110.65

\$ 12,327,210.92

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

\$ 5,318,529.08 / \$ 17,061,420.00 = 31.1728395%

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

			Base Year - 1982	т - 1982			Base Year - 1982	1982		
	Capacity By	Capacity By	Phase IIB - SSES 1	- SSES			Phase IIB - SSES 2	SES 2		
	Contract	Contract	Infiltration	ation	SSES - November 1997	nber 1997	Inflow		SSES - November 1997	er 1997
Municipality	(MGD)	(Percent)	(GPD) ³	(Percent)	(GPD)	(Percent)	(GPD)	(Percent)	(GPD) ⁵	(Percent)
					50,523				3,925,815	
East Orange	5.50	4.88%	70,747	2.11%	54,327	2.61%	3,007,440	5.79%	3,007,440	6.15%
					30,585				1,544,792	
Hillside	12.20	10.83%	79,012	2.36%	32,980	1.58%	1,185,120	2.28%	1,185,120	2.42%
					740,813				10,175,203	
Irvington	18.61	16.52%	1,115,672	33.31%	797,026	38.27%	8,612,640	16.57%	7,791,840	15.94%
					185,445				7,117,535	
Maplewood	7.08	6.29%	389,078	11.62%	199,485	9.58%	5,449,680	10.48%	5,449,680	11.15%
					141,504				3,115,119	
Millburn	00.9	5.33%	191,609	5.72%	152,240	7.31%	2,729,520	5.25%	2,384,640	4.88%
					200,931			١,	2,559,759	
Newark	15.50	13.76%	234,484	7.00%	216,248	10.38%	1,959,540	3.77%	1,959,840	4.01%
					60,589				2,055,468	
Roselle Park	9.44	8:38%	106,187	3.17%	65,147	3.13%	1,576,080	3.03%	1,576,080	3.22%
					78,011				2,847,014	
South Orange	7.00	6.22%	410,876	12.27%	83,906	4.03%	2,183,760	4.20%	2,178,000	4.46%
					82,076				3,070,434	
Summit	7.50	%99.9	171,657	5.13%	88,296	4.24%	3,651,120	7.02%	2,348,640	4.81%
					221,257				18,607,726	
Union	10.30	9.14%	329,127	9.83%	238,013	11.43%	14,534,640	27.96%	14,246,640	29.15%
					144,020				8,815,531	
West Orange	13.50	11.99%	250,811	7.48%	154,847	7.44%	7,097,040	13.65%	6,744,600	13.81%
					1,935,754				63,834,396	
	112.63	100.00%	3,349,260	100.00%	2,082,515	100.00%	51,986,580	100.00%	48,872,520	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) &}quot;Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD = 6.346%

⁽⁴⁾ 1997 - Infiltration related to base year total = 2.083 MGD / 52.79 MGD = <math>3.94582307%

⁻ Adjusted for period 11/1/96 - 10/31/97; $(3.94582307\% \times 17,906.2850 = 706.55 \, MG \, / \, Year \, / \, 365 = 1,935,754 \, GPD)$

^{(5) 1997} inflow adjusted for period 11/1/96 - 10/31/97 - (43.39" / 33.22") x (48,872,520) = 63,834,396 GPD

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 1997 - Summary of Infiltration and Inflow

	Phase IIB		1997	,	Phase IIB		1997	
	SSES	1996	Infiltration	1997	SSES	1996	Inflow	1997
	Infiltration	Infiltration	Removed	Infiltration	Inflow	Inflow	Removed	Inflow
Municipality	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
East Orange	70 747	772 75		700 73	2 007 440			
	(+,'6)	140.40		74,527	3,007,440	3,007,440	ı	3,007,440
Hillside	79,012	32,980	•	32,980	1,185,120	1,185,120	ı	1,185,120
Irvington	1,115,672	797,026	ı	797,026	8,612,640	7,820,640	28,800	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	2,441,520	56,880	2,384,640
Newark	234,484	216,248	ı	216,248	1,959,540	1,959,840	ı	1,959,840
Roselle Park	106,187	65,147	•	65,147	1,576,080	1,576,080	,	1,576,080
South Orange	410,876	83,906	ı	83,906	2,183,760	2,178,000	,	2,178,000
Summit	171,657	88,296	1	88,296	3,651,120	2,378,160	29,520	2,348,640
Union	329,127	238,013	•	238,013	14,534,640	14,246,640	1	14,246,640
West Orange	250,811	154,847	ı	154,847	7,097,040	6,744,600	•	6.744.600
Total	3,349,260	2,082,515	1	2,082,515	51,986,580	48,987,720	115,200	48,872,520

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

					TOO WITH AMINING AUGUS / JUNIOR	THIOTH	
			<u>Total</u>		Domestic & Commercial	<u>ial</u>	<u>Industrial</u>
Flow			17,906.2850 MG	Ö	17,112.1940 MG	MG	794.0910 MG
			\$3,888,500.54		\$3,702,320.04		
							\$186,180.50
Infiltration		3.9458231%	706.55		675.22	\$146,087.67	31.33
Inflow		9.9933627%	1,789.44		1,710.08	\$369,985.49	79.36
ВОБ	aţ	\$476.1704160 Per Ton	10,355.1217 To	Tons	8,791.0770	Tons	1.564.0447 Tons
			\$4,930,802.61		\$4,186,050.79		
TSS	aţ	\$297.5171211 Per Ton	11,790.6081 Tons	su	10,889.2202		901.3879
			\$3,507,907.78		\$3,239,729.44		\$268,178.33
Total			\$12,327,210.93		\$11,128,100.27	`,	\$1,199,110.65
(1) Amount a	ınticipate	(1) Amount anticipated from Members after allocation of		31.1728395%	31.1728395% to City of Elizabeth	\$ 5,318,529.08	
"Base Year - 1982" Infiltration: 3.35 N	1982" 3.35 MG	"Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD =	6.34590% (Pe	6.34590% (Per H&S Phase IIB Report)	IB Report)		
Inflow:	113 MG	113 MGD (Excluding Elizabeth) / 137 MGD (Total) =	(Total) =		82.4817518%	1 inch of rain = 50 mg of infl	82.4817518% 1 inch of rain = 50 mg of inflow (Per H&S Phase IIB Report)
"1996 - 1997" Infiltration:	- 2.083 M	"1996 - 1997" Infiltration: 2.083 MGD/52.79MGD =	3.94582307%	×	17,906.2850	706.55 MG / Year	
					(November 1, 1996 - October 31, 1997)	ctober 31, 1997)	
Inflow:	Rainfall :	Rainfall = 43.39 Inches X 50 MG X 82.482%		1,789.44	MG / Year		

(369,985.49) \$10,612,027.11 147,009

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

Less: Infiltration Less: Inflow

Total D&C

\$72.1862410464665

\$11,128,100.27 (146,087.67)

Table VI Joint Meeting of Essex and Union Counties Estimated Annual Operation Expenses To Member Municipalities 1998

				To Composite P. Common	10,000			
			Ď	Domestic & Commercial	nerciai			
	Dwelling	User Charge	Infil	Infiltration	,=	Inflow		
Municipality	Units	Per Unit	Percent 1	Amount	Percent 2	Amount	Total Cost	Unit Cost
East Orange	7,245	\$522,989.32	2.61%	\$3,812.89	6.15%	\$22,754.11	\$549,556.32	\$75.8532
Hillside	8,421	607,880.34	1.58%	2,308.19	2.42%	8,953.65	619,142.18	73.5236
Irvington	26,721	1,928,888.55	38.27%	55,907.75	15.94%	58,975.69	2,043,771.99	76.4856
Maplewood	9,093	656,389.49	9.58%	13,995.20	11.15%	41,253.38	711,638.07	78.2622
Millburn	9,730 ³	702,372.13	7.31%	10,679.01	4.88%	18,055.29	731,106.43	75.1394
Newark	16,972	1,225,144.88	10.38%	15,163.90	4.01%	14,836.42	1,255,145.20	73.9539
Roselle Park	4,736	341,874.04	3.13%	4,572.54	3.22%	11,913.53	358,360.11	75.6673
South Orange	6,834	493,320.77	4.03%	5,887.33	4.46%	16,501.35	515,709.45	75.4623
Summit	14,039 4	1,013,422.64	4.24%	6,194.12	4.81%	17,796.30	1,037,413.06	73.8951
Union	24,196	1,746,618.28	11.43%	16,697.82	29.15%	107,850.77	1,871,166.87	77.3337
West Orange	19,022	1,373,126.67 \$10,612,027.11	7.44%	10,868.92	13.81%	51,095.00 \$369,985.49	1,435,090.59	\$75.6967 \$73.9447 1997
	(1) See Table(2) See Table(3) Includes L(4) Includes N	 See Table IV - Infiltration for November of the Prior Year See Table IV - Inflow for November of the Prior Year Includes Livingston (431) Includes New Providence (3697) 	ovember of the nber of the Pri)	e Prior Year or Year				\$72.7161 1996 \$79.2640 1995 \$80.7878 1994

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities 1997

				Inc	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	3.945823%	9.993363%	Total	(\$/Year)	Cost
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	170.3470	81,114.20	24.0602	7,158.32	38.33	1.76	4.45	44.54	10,442.26	98,714.79
Irvington	40.5215	19,295.14	31.9683	9,511.12	31.31	1.44	3.64	36.38	8,529.79	37,336.05
Maplewood	13.5514	6,452.78	3.6231	1,077.93	7.36	0.34	0.85	8.55	2,004.61	9,535.32
Millburn	0.0000	0.00	0.0000	00.00	0.00	0.00	00:0	0.00	0.00	0.00
Newark	0.0000	0.00	0.0000	00.0	0.00	0.00	0.00	0.00	0.00	0.00
Roselle Park	0.1430	68.09	0.2036	60.57	1.09	0.05	0.13	1.27	298.00	426.66
South Orange	0.0000	0.00	0.0000	00.0	0.00	0.00	00.00	0.00	0.00	0.00
Summit ⁴	58.9433	28,067.06	49.5934	14,754.89	243.85	11.18	28.32	283.35	66,433.50	109,255.44
Union	1,277.8810	608,489.13	789.3823	234,854.75	344.10	15.78	39.96	399.83	93,743.33	937,087.21
West Orange	2.6575	2.6575 1,265.42 1,564.0447 \$ 744,751.82	2.5570	760.75 \$268,178.33	17.36	0.80	2.02	20.17	4,729.01	6,755.18

(1) At \$476.170416/Ton

(2) At \$297.5171211/Ton (3) At \$234.4573856/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

1998

		Domestic & Co			
Municipality	Total Assessments ¹	User Charge Domestic Sewage 72.18624105	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$549,556.32	\$522,989.32	\$0.00	\$26,567.00	4.4581%
Hillside	717,856.97	607,880.34	98,714.79	11,261.84	5.8234%
Irvington	2,081,108.04	1,928,888.55	37,336.05	114,883.44	16.8822%
Maplewood	721,173.39	656,389.49	9,535.32	55,248.58	5.8503%
Millburn	731,106.43	702,372.13	0.00	28,734.30	5.9308%
Newark	1,255,145.20	1,225,144.88	0.00	30,000.32	10.1819%
Roselle Park	358,786.77	341,874.04	426.66	16,486.07	2.9105%
South Orange	515,709.45	493,320.77	0.00	22,388.68	4.1835%
Summit	1,146,668.50	1,013,422.64	109,255.44	23,990.42	9.3019%
Union	2,808,254.08	1,746,618.28	937,087.21	124,548.59	22.7809%
West Orange	1,441,845.77	1,373,126.67	6,755.18	61,963.92	11.6965%
	\$12,327,210.92	\$10,612,027.11	\$1,199,110.65	\$516,073.16	100.0000%
Elizabeth	5,318,529.08				
Total	\$ 17,645,740.00				

⁽¹⁾ Reflects anticipated payment of \$5,318,529.08 from the City of Elizabeth which is 31.1728395% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 1998 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 1998 Assessment with 1997 Assessment

				Comp	arison
Municipality	1997	1998		Amount	Percentage
East Orange	\$537,745.85	\$549,556.32	(+)	\$11,810.47	2.20%
Hillside	706,434.36	717,856.97	(+)	11,422.61	1.62%
Irvington	2,029,381.37	2,081,108.04	(+)	51,726.67	2.55%
Maplewood	704,957.67	721,173.39	(+)	16,215.72	2.30%
Millburn	709,857.47	731,106.43	(+)	21,248.96	2.99%
Newark	1,213,298.91	1,255,145.20	(+)	41,846.29	3.45%
Roselle Park	350,401.25	358,786.77	(+)	8,385.52	2.39%
South Orange	503,099.46	515,709.45	(+)	12,609.99	2.51%
Summit	1,084,144.69	1,146,668.50	(+)	62,523.81	5.77%
Union	3,202,483.99	2,808,254.08	(-)	(394,229.91)	-12.31%
West Orange	1,415,434.82	1,441,845.77	(+)	26,410.95	1.87%
	\$12,457,239.84	\$12,327,210.92	(-)	(\$130,028.92)	-1.04%
Elizabeth	6,222,508.16	5,318,529.08	(-)	\$ (903,979.08)	-14.53%
Total	\$18,679,748.00	\$17,645,740.00	(-)	(\$1,034,008.00)	-5.54%

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

1994	32.84626490%
1995	33.09447430%
1996	37.06967270%
1997	34.89536790%
1998	31.17283950%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 1998 as a result of the Agreement with the City of Elizabeth which requires 31.1728395% of the 1998 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 31.1728395% 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 1997.

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 1998 are apportioned as follows:

1998	1997		1998	1997
4.4581%	4.3167%	Roselle Park	2.9105%	2.8128%
5.8234%	5.6709%	South Orange	4.1835%	4.0386%
16.8822%	16.2908%	Summit	9.3019%	8.7029%
5.8503%	5.6590%	Union	22.7809%	25.7078%
5.9308%	5.6984%	West Orange	11.6965%	11.3623%
10.1819%	9.7397%	Total	100.0000%	100.0000%
	4.4581% 5.8234% 16.8822% 5.8503% 5.9308%	4.4581%4.3167%5.8234%5.6709%16.8822%16.2908%5.8503%5.6590%5.9308%5.6984%	4.4581% 4.3167% Roselle Park 5.8234% 5.6709% South Orange 16.8822% 16.2908% Summit 5.8503% 5.6590% Union 5.9308% 5.6984% West Orange	4.4581% 4.3167% Roselle Park 2.9105% 5.8234% 5.6709% South Orange 4.1835% 16.8822% 16.2908% Summit 9.3019% 5.8503% 5.6590% Union 22.7809% 5.9308% 5.6984% West Orange 11.6965%

Respectfully submitted,

A. Ralph La Medela

Chief Engineer

Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A 1998 Budget

	7	Treatment Plant	I	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$	1,260,000	\$	112,000	\$ 28,000	\$ -	\$ 3 1,400,000
Gas Service		107,000		12,000	-	-	119,000
Fuel, Oil & Kerosene		209,000		70,000	-	-	279,000
Water Service		83,000		45,000	-	_	128,000
Chemicals		314,500		707,500	2,000	2,000	1,026,000
Sludge Disposal		-		2,272,000	-	-	2,272,000
Insurance		369,500		79,500	37,500	13,500	500,000
Administration		1,187,000		502,660	300,000	33,840	2,023,500
Labor		3,451,850		740,950	-	12,700	4,205,500
Benefits		1,068,080		234,280	-	10,880	1,313,240
Equipment		100,000		30,000	-	-	130,000
Printing & Stationery		15,000		4,000	-	1,000	20,000
Maintenance, Supplies & Spare Parts		914,280		434,720	5,600	445,900	1,800,500
Screening Disposal		130,000		-	-	-	130,000
Reserve Contingency		43,000		-	-	-	43,000
Miscellaneous Expenses		110,000		50,000	-	25,000	185,000
Technical & Professional Services		400,000		65,000	-	35,000	500,000
Replacement Fund		800,000		-	-	-	800,000
NJPDES & Miscellaneous Permit Fee		510,500		5,000	251,000	4,500	771,000
•	\$ 1	1,072,710	\$	5,364,610	\$ 624,100	\$ 584,320	\$ 17,645,740
		62.75%		30.40%	3.54%	3.31%	100.00%

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

Operations and Management Cost Allocations (Treatment Plant)

	Estimated Total Cost	Percent Flow	_ (Cost Flow		Percent SS	Cost SS	Percent BOD	Cost BOD
General Expenditures ¹	\$ 1,733,500	80%	\$	1,386,800		10%	\$ 173,350	10%	\$
Power	1,260,000	40%	\$	504,000		5%	\$ 63,000	55%	\$ 693,000
Chlorine	92,000	40%	\$	36,800				60%	\$ 55,200
Maintenance, Equipment, Supplies, Spare Parts,									
& Replacement Fund	1,857,280	28%	\$,	520,038		27%	\$ 501,466	45%	\$ 835,776
Fuel, Oil & Kerosene	209,000	40%	\$	83,600		30%	\$ 62,700	30%	\$ 62,700
Administration, Labor & Benefits									
(Payroll Retirement)	5,706,930	40%		2,282,772		10%	\$ 570,693	50%	\$ 2,853,465
Sludge Processing ²	214,000					50%	\$ 107,000	50%	\$ 107,000
Total	\$11,072,710 100%			4,814,010 .4763486%			1,478,209 3500200%		\$ 4,780,491 3.1736314%
	492,985								
(1) General Expenditures (From the Approved Budg	get)		(2)	Sludge Proce	essin	g			
Insurance		\$ 369,500	Poly	ymer	\$	209,000			
Technical & Professional	Services	400,000	-	MnO4	Ψ	5,000			
Stationery & Printing		15,000				ŕ			
Gas		107,000							
Water		83,000							
Miscellaneous		110,000							
Service Contracts Permit Fees		130,000							
Weed Killer, Bug Spray &	Destant	510,500 8,500							
Weed Killer Rug Somu Pr									

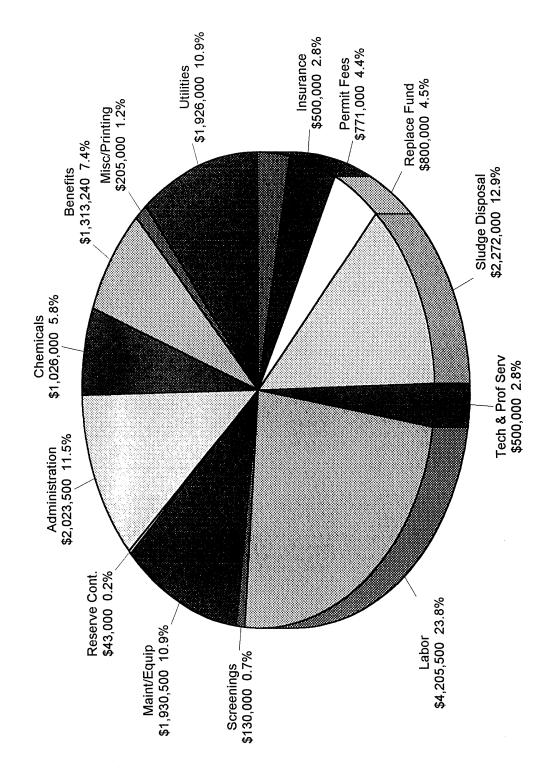
Joint Meeting of Essex and Union Counties Annual Report of the Sewer Contribution of the Municipalities Appendix A (Continued)

Operations and Management Allocations

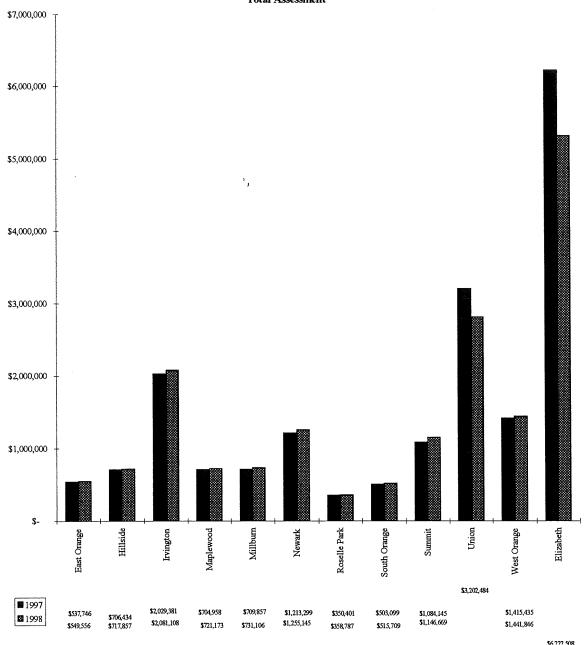
			- COMP	
	Estimated			
	Total Cost	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 11,072,710	\$ 4,814,010	\$ 1,478,209	\$ 4,780,491
Dewatering Facility	5,364,610		2,682,305	2,682,305
Drying Facility	624,100		312,050	312,050
	\$ 17,061,420	\$ 4,814,010	\$ 4,472,564	\$ 7,774,846
Subtotal	100.00%	28.2157640%	26.2144886%	45.5697474%
	,1			
Sewers ¹	\$ 584,320			
Total	\$ 17,645,740			

⁽¹⁾ Joint Meeting Members Only

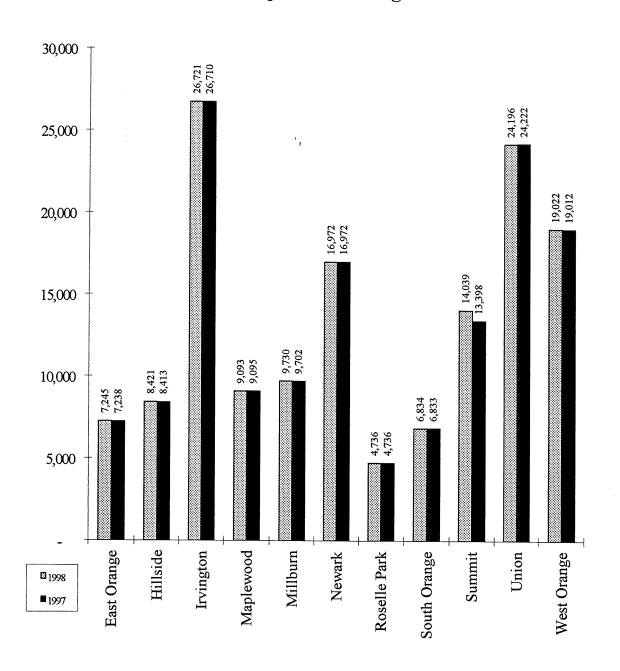
Joint Meeting of Essex & Union Counties 1998 O&M Budget



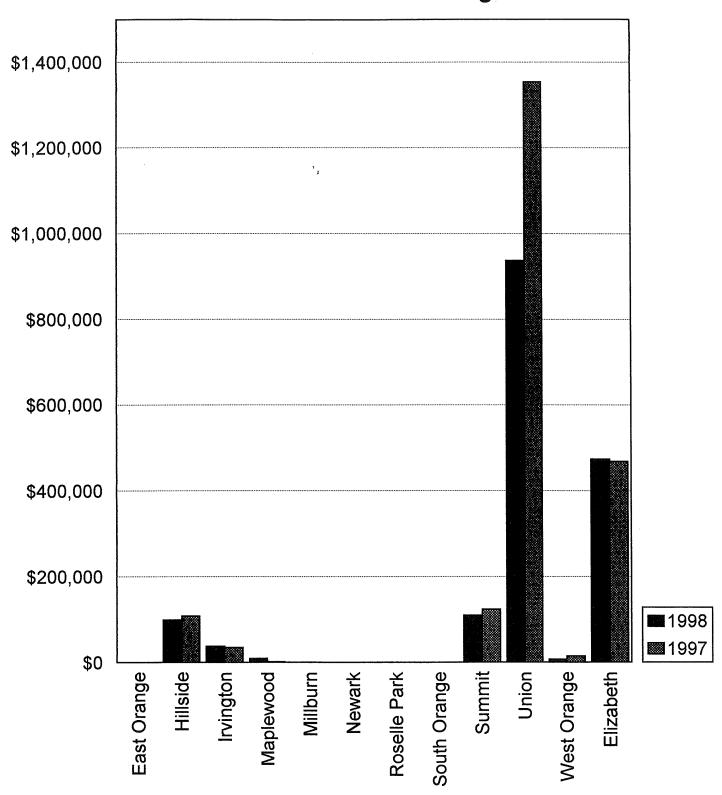
Joint Meeting of Essex & Union Counties 1998 O&M Expenses Total Assessment



Joint Meeting of Essex & Union Counties 1998 Equivalent Dwelling Units



Joint Meeting of Essex & Union Counties 1998 Industrial User Charges



11/20/97

User Charge Report _____

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09/01/96 Thru 08/31/97

		· Cost Factors ·	
Municipality	Flow per MG	BOD per Ton	TSS per Ton
Elizabeth	201.8252691	476.1704160	297.5171211
Hillside	234.4573856	476.1704160	297.5171211
Irvington	234.4573856	476.1704160	297.5171211
Map l ewood	234.4573856	476.1704160	297.5171211
Millburn	234.4573856	476.1704160	297.5171211
Murray Hill	234.4573856	476.1704160	297.5171211
Roselle Park	234.4573856	476.1704160	297.5171211
Summit	234.4573856	476.1704160	297.5171211
Union	234.4573856	476.1704160	297.5171211
West Orange	234.4573856	476.1704160	297.5171211

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Munic	inal	i +	e 1 3	izabeth
Munic	IDat	1 () :	E L 1	zabetn

			Municipali	ty: Elizabeth		
		Flow per MG	BOD	Factors per Ton	TSS per Ton	
		201.8252691		1704160	297.5171211	
IU #:	: 0010 Ape	x Chemical C	orporation			
0:4:	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons) -,	Payment
1	36.625	23.125	0.2170	0.0331	0.0209	
	Totals:		0.2170	0.0331	0.0209	
	Cost An	alysis:	43.7961	15.7612		65.7754
IU #:	: 0025 Int	erbake Foods				
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
3	757.000	393.000	29.9730	94.6155	49.1201	
	Totals:		29.9730	94.6155		
	Cost An	alysis:	6,049.3088	45,053.1020	14,614.0707	65,716.4815
IU #:	0030 Con	cord Beverag	e			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	1,826.000	104.700	47.4720	361.4717	20.7262	
	Totals:		47.4720	361.4717	20.7262	
	Cost An			172,122.1298		187,869.5783
IU #:	0037 Deb	El Foods Co	гр		***************************************	
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	1,703.091	291.000	6.3450	45.0615	7.6995	
	Totals:		6.3450	45.0615	7.6995	
	Cost An	alysis:	1,280.5813			25,028.2676
			·	·	·	

09/01/96 Thru 08/31/97

Municipality: E	lizabeth	١
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		Flow per MG	-	er Ton	TSS per Ton	
		201.8252691		704160	297.5171211	
IU #:	0055 Emk	ay Chemical C	ompany			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	/07 770	75 500			-,	
'	407.770	35.580	1.2490	2.1238	0.1853	
	Totals:		1.2490	2,1238	0.1853	
	Cost An	alysis:	252.0798	1,011.2907	55.1299	1,318.5004
0:+-	BOD	TSS	Flow	BOD	TSS	Annual
	(mg/L)	(mg/L)	(MG)	BOD (Tons)	TSS (Tons)	
	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	
	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
	(mg/L) 10.750	(mg/L) 147.750	(MG) 3.0050	(Tons) 0.1347	(Tons) 1.8514	Payment
1	(mg/L) 10.750 Totals: Cost Ana	(mg/L) 147.750	(MG) 3.0050 3.0050	(Tons) 0.1347	(Tons) 1.8514 1.8514	Payment
1	(mg/L) 10.750 Totals: Cost Ana	(mg/L) 147.750 alysis:	(MG) 3.0050 3.0050	(Tons) 0.1347	(Tons) 1.8514 1.8514	Payment
1	(mg/L) 10.750 Totals: Cost Ana	(mg/L) 147.750 alysis:	(MG) 3.0050 3.0050 606.4849	0.1347 0.1347 0.1347 64.1402	(Tons) 1.8514 1.8514 550.8232	Payment 1,221.4483
1 IU #:	(mg/L) 10.750 Totals: Cost Ana 0062 Gard BOD (mg/L)	(mg/L) 147.750 alysis: cia Laundry TSS (mg/L)	(MG) 3.0050 3.0050 606.4849 Flow (MG)	(Tons) 0.1347 0.1347 64.1402	(Tons) 1.8514 1.8514 550.8232	Payment 1,221.4483 Annual
1 #: Site	(mg/L) 10.750 Totals: Cost And 0062 Gard BOD (mg/L) 573.417	(mg/L) 147.750 alysis: cia Laundry TSS (mg/L) 227.364	(MG) 3.0050 3.0050 606.4849 Flow (MG) 2.0190	(Tons) 0.1347 0.1347 64.1402 BOD (Tons) 4.8277	(Tons) 1.8514 1.8514 550.8232	Payment 1,221.4483 Annual Payment
1 IU #:	(mg/L) 10.750 Totals: Cost Ana 0062 Gard BOD (mg/L)	(mg/L) 147.750 alysis: cia Laundry TSS (mg/L)	(MG) 3.0050 3.0050 606.4849 Flow (MG)	(Tons) 0.1347 0.1347 64.1402 BOD (Tons)	(Tons) 1.8514 1.8514 550.8232 TSS (Tons)	Payment 1,221.4483 Annual Payment
1 #: Site	(mg/L) 10.750 Totals: Cost And 0062 Gard BOD (mg/L) 573.417	(mg/L) 147.750 alysis: cia Laundry TSS (mg/L) 227.364	(MG) 3.0050 3.0050 606.4849 Flow (MG) 2.0190	(Tons) 0.1347 0.1347 64.1402 BOD (Tons) 4.8277	(Tons) 1.8514 1.8514 550.8232 TSS (Tons) 1.9142	Payment 1,221.4483 Annual Payment

IU #: 0067 Purepac Pharmaceutical Co.

Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	2,501.455	76.100	2.9030	30.2814	0.9212	
99	170.000	155.000	18.7590	13.2983	12.1249	
	Totals:		21.6620	43.5797	13.0461	
	Cost Ana	lysis:	4,371.9390	20,751.3639	3,881.4381	29,004.7410

09/01/96 Thru 08/31/97

Municipality: Elizabeth

	- Cost Factors	
Flow per MG	BOD per Ton	TSS per Ton
201.8252691	476.1704160	297.5171211

IU	#:	0078	Magnolia	Beef	Company
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	ВОР	133	rtow	ROD	188	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
		****			-,	
1	1,615.714	368.500	0.2950	1.9876	0.4533	
	Totals:		0.2950	1.9876	0.4533	
	Cost Ana	lysis:	59.5385	946.4363	134.8645	1,140.8393

IU #: 0095 OK Towel & Uniform Supply Co

	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
2	282.000	113.700	15.8100	18.5916	7.4960	
	Totals:		15.8100	18.5916	7.4960	
	Cost Ana	lysis:	3,190.8575	8,852.7699	2,230.1883	14,273.8158

IU #: 0100 Papetti's Hygrade Egg Company

	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
4	1,459.929	250.929	16.2960	99.2085	17.0517	
99	170.000	155.000	6.7830	4.8085	4.3842	
	Totals:		23.0790	104.0170	21.4359	
	Cost Ana	lysis:	4,657.9254	49,529.8182	6,377.5473	60,565.2908

IU #: 0105 Jersey Pride Foods

Site 2	BOD (mg/L) 1,662.857	TSS (mg/L) 360.875	Flow (MG) 14.1840	BOD (Tons) 98.3535	TSS (Tons) 21.3448	Annual Payment
	Totals: Cost Ana	lysis:	14.1840 2,862.6896	98.3535 46,833.0270	21.3448 6.350.4434	56.046.1601

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Municipality: Elizabeth

		Flow per MG	BOD pe		TSS per Ton	
		201.8252691	476.170		297.5171211	
IU#:	0120 Phel	ps Dodge Mag	net Wire Co.			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1 99	21.300 170.000	19.563 155.000	1.0220 1.1690	0.0908 0.8287	0.0834 0.7556	
	Totals: Cost Ana	alysis:	2.1910 442.1992	0.9195 437.8387	0.8390 249.6169	1,129.6547
IU #:	0148 Supe	erior Powder	Coating			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	80.674	77.526	1.0900	0.3667	0.3524	
99	170.000	155.000	0.3190	0.2261	0.2062	
	Totals:		1.4090	0.5928	0.5586	
	0	alysis:	284.3718	282.2738	166.1931	732.8387

IU #: 0155 S & G Packaging

	BOD	TSS	Flow	BOD	TSS	Annua l
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	222.833	219.143	4.7320	4.3970	4.3242	
2	235.667	250.000	1.0680	1.0496	1.1134	
	Totals:		5.8000	5.4466	5.4376	
	Cost Ana	lysis:	1,170.5866	2,593.5098	1,617.7791	5,381.8754

Joint	Meeting	of	Essex	&	Union	Counties
	Her	n 1	Chargo	О.		

11/20/97 User Charge Rep	ort

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Municipality: Elizabeth

	Cost Factors -	
Flow per MG	BOD per Ton	TSS per Ton
201.8252691	476.1704160	297.5171211

IU #: 0165 Wakefern Food Corp.

Annual Payment	TSS (Tons)	BOD (Tons)	Flow (MG)	TSS (mg/L)	BOD (mg/L)	Site
	14.2802	30.3536	11.4010	300.369	638.456	98
	14.2802	30.3536	11.4010		Totals:	
21,003.1002	4,248.6040	14,453.4863	2,301.0099	/sis:	Cost Analysis:	
Annual	TSS	BOD	Flow			
Payment	(Tons)	(Tons)	(MG)			
	166.4330	812.1361	.1480	186	eth Totals:	Elizab
473 . 801 . 2218	49,516.6670	,715.1846	.3702 386	37,569	nalysis:	Cost A

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09/01/96 Thru 08/31/97

			Municipali	ty: Hillside		
			Cost	Factors	•	
		Flow per MC		er Ton	TSS per Ton	
		234.4573856	476.1	704160	297.5171211	
	1003 Acc	cufleet				
	,,,,,,	, ar coot				
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	156.857	54.286	1.7410	1.1388	0.3941	
	Totals:		1.7410	1.1388	0.3941	
	Cost An		408.1903	542.2629	117.2515	1,067.7047
IU #:	1010 Ari	ston, Inc				
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	228.333	236.500	0.5510	0.5246	0.5434	
	Totals:		0.5510	0.5246	0.5434	
	Cost An	alysis:	129.1860	249.7990	161.6708	540.6558
IU #:	1012 Atl	antic Metal	Products			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
4	37 900	 F0 222	F 5000			
1 2	23.800 39.111	58.222 33.143	5.5200 8.0180	0.5478 1.3077	1.3402	
99	170.000	155.000	0.9550	0.6770	1.1081 0.6173	
	Totals:		14.4930	2.5325	3.0656	
	Cost Ana	alysis:	3,397.9909	1,205.9016	912.0685	5,515.9610
IU #: '	1015 Bris	stol-Myers Pi	roducts R&D			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	81.100	93.600	4.9700	1.6808	1.9399	
	Totals:		4.9700	1_6808	1 0300	
	Cost Ana	alysis:	1,165.2532	800.3472	577.1535	2,542.7539
		alysis:	4.9700 1,165.2532	1.6808 800.3472	1.9399 577.1535	2,542

09/01/96 Thru 08/31/97

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			Municipal	ity: Hillside		
		Flow per MC		Factors per Ton	TSS per Ton	
		234.4573856		1704160	297.5171211	
IU #:	: 1020 Bri	stol-Myers F	roducts - P	ilot		
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
5	209.556	200.889	0.2240	0.1957	0.1876	
	Totals:		0.2240	0.1957	0.1876	
	Cost An	alysis:	52.5185	93.1866	55.8142	201.5192
IU #:	1025 Cer	tified Proce	essing			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	449.750	10.025	2.3860	4.4748	0.0997	
	Tabalas		2 70/0			
	Totals: Cost An	alysis:	2.3860 559.4153	4.4748 2,130.7674	0.0997 29.6625	2,719.8452
IU #:	1032 McC	ain Citrus,	Inc.			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
3	4,765.932	293.776	7.6850	 152. <i>7</i> 312	9.4145	
	Totals: Cost Ana	alysis:	7.6850 1,801.8050	152.7312 72,726.0790	9.4145 2,800.9749	77,328.8590
IU #:	1035 ECD	, Inc.				
	BOD	TSS	Flow	200		
Site	(mg/L)	(mg/L)	(MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	11.400	176.300	8.4870	0.4035	6.2394	
99	170.000	155.000	1.0330	0.7323	0.6677	
	Totals:		9.5200	1.1358	6.9071	
	Cost Ana	alysis:	2,232.0343	540.8344	2,054.9805	4,827.8492

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09/01/96 Thru 08/31/97

Municipality: Hillside

			···a·····o··pa··	rey : mretorae		
			Cost	Factors		
		Flow per MG		per Ton	TSS per Ton	
		234.4573856		1704160	297.5171211	
IU #:	1037 Fab	ric Wash		000		
•	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	928.625	86.571	1.2620	4.8869	0.4556	
	Totals:		1.2620	4.8869	0.4556	
	Cost Ana	alysis:	295.8852	2,326.9972	135.5488	2,758.4312
IU #: Site	BOD (mg/L)	(way Business TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	59.571	105.857	1.3030	0.3237	0.5752	
	Totals: Cost Ana	nlysis:	1.3030 305.4980	0.3237 154.1364	0.5752 171.1318	630.7662
IU#:	1050 Manh	attan Drug Co	ompany, Ind	÷.		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	429.750	284.111	0.4030	0.7222	0.4775	
	Totals: Cost Ana	lysis:	0.4030 94.4863	0.7222 343.8903	0.4775 142.0644	580.4410
		F	·low	BOD	TSS	Annual
		((MG)	(Tons)	(Tons)	Payment
u:11-2	da Takil			470.7470		
	de Totals: nalysis:	44.5 10,442.2		170.3470 ,114.2019	24.0602 7,158.3214	98,714.7863

09/01/96 Thru 08/31/97

Municipality: Irvington

		Flow per MG	BOD p	er Ton	TSS per Ton	
		234.4573856	476.1	704160	297.5171211	
IU #:	2008 Arc	hon Vitamin C	orporation			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	169.620 264.920	87.800 264.200	0.2460	0.1740 0.2718	0.0901 0.2710	•••••
	Totals: Cost An	alysis:	0.4920 115.3530	0.4458 212.2768		435.0632
IU #:	2035 Ind	ustrial Retain	ning Ring	7 (T) 2 T (1 T) 4 T (1 T		
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	254.275	822.333	1.2500	1.3254	4.2864	
	Totals: Cost An	alysis:	1.2500 293.0717	1.3254 631.1163	4.2864 1,275.2774	2,199.4654
IU #:	2036 Int	ergel				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	459.600	114.800	2.4280	4.6533	1.1623	
	Totals: Cost An	alysis:	2.4280 569.2625			3,130.8305
IU #:	2040 Jab	el, Incorpora	ted			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	168.250	59.000	0.9740	0.6834	0.2396	
	Totals: Cost An	alysis:	0.9740 228.3615	0.6834 325.4149	0.2396 71.2851	625.0615

IU #: 2057 Sal's Cleaners

IU #: 2060 Standard Uniform Service

09/01/96 Thru 08/31/97

Municipality: Irvington

	Cost Factors	
Flow per MG	BOD per Ton	TSS per Ton
234.4573856	476.1704160	297.5171211

***************************************		234.457385	6 476.1	1704160	297.5171211	
IU #:	: 2050 Max	Marx Color	Corporation			4.0
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2	328.227	183.655	8.3190	11.3863	6.3710	
-	Totals: Cost An	alysis:	8.3190 1,950.4510	11.3863 5,421.8192	6.3710 1,895.4816	9,267.7518
IU #:	2055 Rev	lon, Incorp	orated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
4 99	172.300 170.000	477.778 155.000	1.3470 4.5950	0.9678 3.2574	2.6837 2.9700	
	Totals: Cost Ana	alysis:	5.9420 1,393.1458	4.2252 2,011.9152	5.6537 1,682.0725	5,087.1336

Site 1 99	BOD (mg/L) 256.571 170.000	TSS (mg/L) 64.857 155.000	Flow (MG) 2.6050 0.1040	BOD (Tons) 2.7871 0.0737	TSS (Tons) 0.7045 0.0672	Annual Payment
	Totals: Cost Ana	lysis:	2.7090 635.1451	2.8608 1,362.2283	0.7717 229.5940	2,226.9673

Site 1	BOD (mg/L) 251.143	TSS (mg/L) 220.571	Flow (MG) 14.2670	BOD (Tons) 14.9413	TSS (Tons) 13.1225	Annual Payment
	Totals: Cost Analysis:		14.2670 3,345.0035	14.9413 7,114.6050	13.1225 3,904.1684	14,363.7770

Joint	Meeting	of	Essex	&	Union	Counties
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11/20/97	User	Charge	Report
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09/01/96 Thru 08/31/97

Municipality: Irvington

 Flow	v per MG	Cost Factors BOD per Ton	TSS per Ton	
234.	.4573856	476.1704160	297.5171211	
	Flow	BOD	TSS	Annual
	(MG)	(Tons)	(Tons)	Payment
Irvington Totals:	36.3810	40.5215	31.9683	
Cost Analysis:	8,529.7941	19,295.1395	9,511,1166	37,336.0502

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09/01/96 Thru 08/31/97

nicipality: Manleyood

	Municipality: Maplewood									
		Flow per MG		Factors er Ton						
		234.4573856		704160	TSS per Ton 					
IU #: 3020 Gleason Cleaners										
10 #:	3020 GTe	ason cleaners	5							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	413.636	166.909	1.5090	2.6028	1.0503					
	Totals:		1.5090	2.6028	1.0503					
	Cost An	alysis:	353.7962	1,239.3764	312.4822	1,905.6548				
IU #:	3033 NJ	Transit Bus 1	[erminal							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	392.167	89.500	6.6630	10.8962	2.4867					
	Totals:		6.6630	10.8962	2.4867					
	Cost An	alysis:	1,562.1896	5,188.4481	739.8358	7,490.4735				
IU #:	3045 Uni	versal Chain	Company			LE L				
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
2	33.240	54.600	0.3780	0.0524	0.0861					
	Totals:		0.3780	0.0524	0.0861					
	Cost An	alysis:	88.6249	24.9513	25.6162	139.1924				
			Flow	BOD	TSS	Annual				
			(MG)	(Tons)	(Tons)	Payment				
	wood Total		.5500	13.5514	3.6231					
Cost A	Analysis:	2,004.	.6106 6	,452.7758	1,077.9343	9,535.3207				

09/01/96 Thru 08/31/97

Municipality: Mu	urrav Hill
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	Mulliotpatity. Mullay Hitt									
		Flow per M		Factors						
			•	per Ton	TSS per Ton					
		234.457385	6 476.1	1704160	297.5171211					
IU #:	5010 Luc	ent Technol	ogies							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	15.230	18.536	68.4030	4.3442	5. ² 2873	•				
	Totals:		68.4030	4.3442	5.2873					
	Cost Ana	alysis:	16,037.5885	2,068.5795	1,573.0623	19,679.2303				
IU #:	5020 Fab	lok Mills,	Incorporated							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	223.556	107.000	12.3410	11.5046	5.5064					
	Totals:		12.3410	11.5046	5.5064					
	Cost Ana	alysis:	2,893.4386	5,478.1502	1,638.2483	10,009.8370				
IU #:	5021 FRC-	Electrical	Industries							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	13.457	10.543	12.5950	0.7068	0.5537					
	Totals:		12.5950	0.7068	0.5537					
	Cost Ana	ılysis:	2,952.9908	336.5573	164.7352	3,454.2833				
			Flow	BOD	TSS	Annual				
			(MG)	(Tons)	(Tons)	Payment				
	Hill Tota		3.3390	16.5556	11.3474					
LOST A	nalysis:	21,884	.0179 7	,883.2869	3,376.0458	33,143.3506				

Joint	Meeting	of	Essex	&	Union	Counties

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User Charge Report

09/01/96 Thru 08/31/97

Municipality: Roselle Park

234.4573856 476.1704160 IU #: 6005 Hexacon Electric Company BOD TSS Flow BOD Site (mg/L) (mg/L) (MG) (Tons) 1 8.851 23.633 1.1280 0.0416 99 170.000 155.000 0.1430 0.1014											
BOD TSS Flow BOD Site (mg/L) (mg/L) (MG) (Tons)	297.5171211										
Site (mg/L) (mg/L) (MG) (Tons) 1 8.851 23.633 1.1280 0.0416	IU #: 6005 Hexacon Electric Company										
1 8.851 23.633 1.1280 0.0416	TSS	Annual									
11,120	(Tons)	Payment									
11,120											
99 170.000 155.000 0.1430 0.1014	0.1112										
	0.0924										
Totals: 1.2710 0.1430	0.2036										
Cost Analysis: 297.9953 68.0924	60.5745	426.6622									
Flow BOD	TSS	Annual									
(MG) (Tons)	(Tons)	Payment									
Roselle Park Totals: 1.2710 0.1430	0.2036										
Cost Analysis: 297.9953 68.0924	60,5745	426.6622									

Cost Analysis:

44,549.4823

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			09/01/96	inru 08/31/9/		
			Municipa	lity: Summit		
		Flow per	Cost			
				per Ton	TSS per Ton	
		234.45738		1704160	297.5171211	
IU#:	5505 Cela	anese Resea	arch Company			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	105.250	125.875	20.7860	9.1228	10.9105	******
	Totals:		20.7860	9.1228	10.9105	
	Cost Ana	alysis:	4,873.4312	4,344.0075	3,246.0605	12,463.4992
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
3a 99	34.974 170.000	27.289 155.000	152.3870	22.2242	17.3408	
,,	170.000	133.000	15.0560	10.6732	9.7314	
	Totals:		167.4430	32.8974	27.0722	
	Cost Ana	lysis:	39,258.2480	15,664.7686	8,054.4430	62,977.4597
IU#:	5515 Colu	mbia Clean	ers Inc.			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
1	/7 //7					
1 2	43.667 52.571	43.111 31.286	0.6240	0.1136	0.1122	
_	72.371	31.200	1.1580	0.2539	0.1511	
	Totals:		1.7820	0.3675	0.2633	
	Cost Anal	lysis:	417.8031	174.9926	78.3363	671.1319
			Flow	BOD	TSS	Annual
			(MG)	(Tons)	(Tons)	Payment
Summit	Totals:	190	 0.0110	42.3877	38.2460	
					30.2400	

20,183.7687

76,112.0909

11,378.8398

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Mun	10	מו:	alı	ty:	Union

		Cost Factors								
		Flow per MG	BOD per		TSS per Ton					
		234.4573856	476.170		297.5171211					
IU #: 7015 ACuPowder International										
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
 За	1/1 125	15/ 770	0.21/0	0 1250	0 4791					
3a 4a	141.125 98.125	154.778 58.750	0.2140 0.9730	0.1259 0.3981	0.1381 0.2384					
	Totals:		1.1870	0.5240	0.3765					
	Cost Ana	lysis:	278.3009	249.5133	112.0152	639.8294				
IU #:	7025 Alli	ed Processing	g Corp.							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	12.840	5.250	0.4510	0.0241	0.0099	******				
	Totals:		0.4510	0.0241	0.0099					
	Cost Ana	lysis:	105.7403	11.4757	2.9454	120.1614				
IU #:	7035 Amer	ican Product	s Company							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	269.333	234.333	1.3600	1.5274	1.3290					
·	2071000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,					
	Totals:		1.3600	1.5274						
	Cost Ana	ilysis:	318.8620	727.3027	395.4003	1,441.5650				
IU #:	7045 Tran	nsTechnology ,	/ Breeze							
	BOD	TSS	Flow	BOD	TSS	Annual				
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment				
1	85.963	63.750	2.5790	0.9245	0.6856					
	Totals:		2.5790	0.9245	0.6856					

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			Municipal	ity: Union		
		Flow per MG	Cost	Factors er Ton	TSS per Ton	
		234.4573856		704160	297.5171211	
 IU #:	7060 Nati	ional Envelo	pe Corp. Eas			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	293.200	273.273	1.7910	2.1898	2.0409	
	Totals: Cost Ana	alysis:	1.7910 419.9132	2.1898 1,042.7180	2.0409 607.2027	2,069.8338
IU #:	7065 Cull	ligan Water	Conditioning			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	11.973	24.273	3.8710	0.1933	0.3918	
	Totals: Cost Ana	alysis:	3.8710 907.5845	0.1933 92.0437	0.3918 116.5672	1,116.1955
IU#:	7070 Dure	ex, Incorpor	ated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	43.111 Totals:	58.500	12.9120	2.3212	3.1498 3.1498	
 IU #:	Cost Ana	alysis: 	3,027.3138 cturing Co.	1,105.2868	937.1194	5,069.7200
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
 2	22.286	271.429	19.3280	1.7962	21.8765	Payment
	Totals: Cost Ana		19.3280 4,531.5923	1.7962 855.2973	21.8765 6,508.6333	11,895.5229

09/01/96 Thru 08/31/97

М	uni	CI	pa	l i t	y: '	Unio	n
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		Flow per MG	•		TSS per Ton	
		234.4573856			297.5171211	
IU #:	7092 Int	erlux/Courta	uld Coating			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Paymen
2	81.600	84.640	5.9750	2.0331	2.1089	
	Totals:		5.9750	2.0331	2 4000	
				2.0331	2.1089	
Site	7105 Stor	alysis: nco Lighting TSS (mg/L)	Flow (MG)	968.1021 BOD (Tons)	2.1089 627.4339 TSS (Tons)	Annua l Paymen
Site	7105 Stor	TSS (mg/L)	Flow (MG)	968.1021 BOD (Tons)	627.4339 TSS (Tons)	2,996.418 Annual Paymen
	7105 Stor	TSS (mg/L)	Flow	968.1021 BOD	627.4339 TSS	Annual
Site	7105 Stor	TSS (mg/L) 184.000	Flow (MG)	968.1021 BOD (Tons)	7SS (Tons)	Annual Paymen
Site 2	7105 Stor BOD (mg/L) 161.475 Totals: Cost Ana 7110 NEI/	TSS (mg/L) 184.000 alysis:	Flow (MG) 2.2850 2.2850 535.7351	BOD (Tons) 1.5386 1.5386 732.6358	TSS (Tons) 1.7532 1.7532 521.6070	Annual Paymen 1,789.977
Site 2 U #:	7105 Stor BOD (mg/L) 161.475 Totals: Cost Ana	TSS (mg/L) 184.000 alysis:	Flow (MG) 2.2850 2.2850 535.7351	BOD (Tons) 1.5386 1.5386 732.6358	TSS (Tons) 1.7532 1.7532 521.6070	Annual Paymen 1,789.977 Annual Paymen
U #:	7105 Stor BOD (mg/L) 161.475 Totals: Cost Ana 7110 NEI/ BOD (mg/L)	TSS (mg/L) 184.000 alysis: /DoAll TSS (mg/L)	Flow (MG) 2.2850 2.2850 535.7351 Flow (MG)	BOD (Tons) 1.5386 1.5386 732.6358	TSS (Tons) 1.7532 1.7532 521.6070	Annual Paymen 1,789.977 Annual Paymen
Site 2	7105 Stor BOD (mg/L) 161.475 Totals: Cost Ana 7110 NEI BOD (mg/L) 62.667	TSS (mg/L) 184.000 alysis: /DoAll TSS (mg/L) 7.278	Flow (MG) 2.2850 2.2850 535.7351 Flow (MG) 	BOD (Tons) 1.5386 732.6358 BOD (Tons) 0.3734	TSS (Tons) 1.7532 1.7532 521.6070 TSS (Tons) 0.0434	Annual Paymen 1,789.977

IU #:

Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
5	102.132	37.853	188.8830	80.4431	29.8144	
	Totals: Cost Ana	lysis:	188.8830 44.285.0144	80.4431 38.304.6244	29.8144 8.870.2945	91,459,9332

Cost Analysis:

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			Municipal	ity: Union		
		Flow per MC		Factors per Ton	TSS per Ton	
		234.4573856		704160	297.5171211	
IU #:	7150 SS	Studios, Ind	corporated			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	203.125	74.000	0.2770	0.2346	0.0855	
	Totals: Cost Ar	nalysis:	0.2770 64.9447	0.2346 111.7096	0.0855 25.4377	202.0920
 IU #:	7167 Tur	bo Braze Co	poration			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
1	177.143	76.667	1.6880	1.2469	0.5397	
	Totals: Cost Ar	nalysis:	1.6880 395.7641	1.2469 593.7369	0.5397 160.5700	1,150.0709
IU #:	7170 Tus	scan Dairy Fa	arms, Incorp			
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
2a 2b	2,017.118 501.600		135.5910 20.0080	1,140.5075 41.8502	702.5940 22.4436	
	Totals: Cost Ar	alysis:	155.5990 36,481.3347	•	725.0376 215,711.0994	815,196.192
			Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
Union	Totals:	39	9.8310	1,277.8810	789.3823	

93,743.3309 608,489.1274 234,854.7493 937,087.2077

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09/01/96 Thru 08/31/97

Municipality: West Orange

			Cost	Idetois		
		Flow per MG	BOD p	er Ton	TSS per Ton	
		234.4573856	476.1	704160	297.5171211	
IU #:	8030 Orga	anon, Incorp	orated			
	BOD	TSS	Flow	BOD	TSS	Annual
Site	(mg/L)	(mg/L)	(MG)	(Tons)	(Tons)	Payment
	77 500	70.574			- -	
1	33.500	32.571	18.2890	2.5549	2.4841	
	Totals:		18.2890	2.5549	2.4841	
	Cost Ana	ılysis:	4,287.9911	1,216.5678	739.0623	6,243.6212
10 #:	8040 Turt	ile Back Zoo				
Site	BOD (mg/L)	TSS (mg/L)	Flow (MG)	BOD (Tons)	TSS (Tons)	Annual Payment
Site 1		TSS			(Tons)	Annual Payment
	(mg/L) 13.075	TSS (mg/L)	(MG) 1.8810	(Tons) 0.1026	(Tons) 0.0729	Payment
	(mg/L)	TSS (mg/L) 9.300	(MG)	(Tons)	(Tons) 0.0729	Payment
	(mg/L) 13.075 Totals:	TSS (mg/L) 9.300	(MG) 1.8810 1.8810	(Tons) 0.1026 0.1026	(Tons) 0.0729	Payment 511.5584 Annual
1	(mg/L) 13.075 Totals: Cost Ana	TSS (mg/L) 9.300	(MG) 1.8810 1.8810 441.0143 Flow (MG)	(Tons) 0.1026 0.1026 48.8551 BOD (Tons)	(Tons) 0.0729 0.0729 21.6890 TSS (Tons)	Payment
1 West O	(mg/L) 13.075 Totals:	TSS (mg/L) 9.300	(MG) 1.8810 1.8810 441.0143 Flow (MG)1700	(Tons) 0.1026 0.1026 48.8551 BOD (Tons)	(Tons) 0.0729 0.0729 21.6890 TSS (Tons)	Payment 511.5584 Annual Payment
1 West O	(mg/L) 13.075 Totals: Cost Ana	TSS (mg/L) 9.300 alysis: 20.	(MG) 1.8810 1.8810 441.0143 Flow (MG)1700	(Tons) 0.1026 0.1026 48.8551 BOD (Tons) 2.6575	(Tons) 0.0729 0.0729 21.6890 TSS (Tons) 2.5570	Payment 511.5584 Annual Payment
1 1 West 0	(mg/L) 13.075 Totals: Cost Ana	TSS (mg/L) 9.300 alysis: 20.	(MG) 1.8810 1.8810 441.0143 Flow (MG)1700	(Tons) 0.1026 0.1026 48.8551 BOD (Tons) 2.6575	(Tons) 0.0729 0.0729 21.6890 TSS (Tons) 2.5570	Payment 511.5584 Annual Payment
1 West O	(mg/L) 13.075 Totals: Cost Ana	TSS (mg/L) 9.300 alysis: 20.	(MG) 1.8810 1.8810 441.0143 Flow (MG)1700 .0055 1	(Tons) 0.1026 0.1026 48.8551 BOD (Tons) 2.6575 ,265.4229 BOD (Tons)	(Tons) 0.0729 0.0729 21.6890 TSS (Tons) 2.5570 760.7513	Annual Annual Annual Annual
1 West O	(mg/L) 13.075 Totals: Cost Ana	TSS (mg/L) 9.300 Alysis: 20, 4,729.	(MG) 1.8810 1.8810 441.0143 Flow (MG)1700 .0055 1	(Tons) 0.1026 0.1026 48.8551 BOD (Tons) 2.6575 ,265.4229	(Tons) 0.0729 0.0729 21.6890 TSS (Tons) 2.5570 760.7513	Payment