

December 17, 2010

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 2011)

I present herewith the 76th 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, 2009 through October 31, 2010. 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 2011. 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 2010, 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 18, 2009.

During 2010, 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 (2011) dwelling unit figures formulated by each municipality in 2010.

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, 2009, through October 31, 2010 and projected for a twelve (12) month period in 2011. 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 2011, 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, 2009, through October 31, 2010, and projected for 2011 and are based upon actual 2009-2010 operating statistics as well as a recent upgraded 2010 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	21,441.2180	MG/Year	58.7431	MGD
2.	BOD	16,158.0409	Tons/Year	88,537.2104	Lbs/Day
	TSS	12,570.2899	Tons/Year	68,878.3008	Lbs/Day
3.	Estimated Industrial Flow	694.3910	MG/Year	1.9024	MGD
4.	Estimated Industrial BOD	4,210.9890	Tons/Year	23,073.9123	Lbs/Day
5.	Estimated Industrial TSS	734.8877	Tons/Year	4,026.7819	Lbs/Day
6.	Estimated Total Operating Expenses in 2011			\$17,279,104	STP
				6,859,775	SDWF
				448,175	SDF
				743,466	Sewers
				<hr/>	
				\$25,330,520	Total
7.	Estimated Total Dwelling Units in System			151,334	JM Members
				47,181	Elizabeth
				<hr/>	
				198,515	Total

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

Flow	30.5632265%
BOD	45.6828500%
Suspended Solids	23.7539235%

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 2011 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 2011

Treatment Plant

	<u>Total for 2011</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	21,441.2180 MG/Yr. ¹	20,746.8270 MG/Yr.	694.3910 MG/Yr.
BOD	16,158.0409 Tons/Yr. ¹	11,947.0519 Tons/Yr.	4,210.9890 Tons/Yr.
Suspended Solids	12,570.2899 Tons/Yr. ¹	11,835.4022 Tons/Yr.	734.8877 Tons/Yr.

(1) Based upon data from November 1, 2009 thru October 31, 2010 (365 days)

Cost Allocation

	<u>Total for 2011</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	\$7,514,597.00	\$7,271,231.00	\$243,366.00
BOD	11,232,067.00	8,304,849.00	2,927,218.00
Suspended Solids	5,840,390.00	5,498,948.00	341,442.00
	<u>\$24,587,054.00</u>	<u>\$21,075,028.00</u>	<u>\$3,512,026.00</u>
	100.000000%	85.71595440%	14.28404560%

Elizabeth Contribution

Flow	-	5,649.5780 MG/Yr.
BOD	-	7,698.3412 Tons/Yr.
TSS	-	3,645.7974 Tons/Yr.

Trunk Sewer Flow ¹

<u>Total for 2011</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
15,791.6400 MG/Yr. ²	15,337.1880 MG/Yr.	454.452 MG/Yr.

(1) Based upon data from November 1, 2009 thru October 31, 2010 (365 days)

(2) (21,441.218 - 5,649.5780)

COST ALLOCATION

\$743,466.00	\$722,070.53	\$21,395.47
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Member municipalities will be assessed \$4.77 (\$722,070.53/151,334) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$350.47 per MG for flow, \$695.14 per ton of BOD, and \$464.62 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	\$243,366.00	/	694.3910	=	\$350.4740125	/MG
BOD	\$2,927,218.00	/	4,210.9890	=	\$695.1378880	/Ton
Suspended Solids	\$341,442.00	/	734.8877	=	\$464.6179273	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$47.08/MG of flow for trunk sewer use ($\$21,395.47/454.452 = \$47.080/\text{MG}$). This brings the total flow cost to \$397.55/MG ($\$350.474 + \47.08) for the indicated industries of member municipalities.

Based upon the user charges for 2011, 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 2010 industrial waste survey of the service area. These are estimates for 2011 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 \$25,330,520.00 for 2011. 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 38.4602887% 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
2011

<u>Municipality</u>	<u>Dwelling Units ¹</u>	<u>User Charges Industrial</u>
East Orange	7,215	\$ -
Hillside	8,536	415,006
Irvington	27,104	52,907
Maplewood	9,561	294,028
Millburn	9,843 ⁴	-
Newark	17,427	-
Roselle Park	4,752	448
South Orange	7,879	-
Summit	14,043 ²	88,431 ³
Union	24,999	316,606
West Orange	19,975	-
Elizabeth	47,181	2,365,996
	<u>198,515</u>	<u>\$ 3,533,422</u>

(1) Based on actual calculation and verification by Municipalities; City of Elizabeth computed by Elson T. Killam Associates in 1979 and updated by City Engineer on February 9, 1982.

(2) Includes New Providence (3557)

(3) Includes Murray Hill

(4) Includes Livingston (409)

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

For Period 11/1/2009-10/31/2010 and Projected Contribution for 2011

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	21,441.218 MG	5,649.578 MG		15,791.640 MG	
		<i>Industrial</i>	<i>D&C</i>	<i>Industrial</i>	<i>D&C</i>
		221.858	5,427.72	454.452	15,337.188
		\$ 77,755.46	\$ 1,902,274.81	\$ 180,669.09	\$ 6,097,356.24

Unit Charge \$ 350.4740125 Per MG for Elizabeth

Unit Charge \$ 397.5537261 Per MG for Joint Meeting

BOD:	16,158.0409 Tons	7,698.3412 Tons		8,459.6997 Tons	
		<i>Industrial</i>	<i>D&C</i>	<i>Industrial</i>	<i>D&C</i>
		2,876.4436	4,821.8976	1,251.0047	7,208.695
		\$ 1,999,524.93	\$ 3,351,883.71	\$ 869,620.77	
Unit Charge	\$695.1378880 Per Ton				
TSS:	12,570.2899 Tons	3,645.7974 Tons		8,924.4925 Tons	
		<i>Industrial</i>	<i>D&C</i>	<i>Industrial</i>	<i>D&C</i>
		470.638	3,175.1594	252.1107	8,672.3818
		\$ 218,666.85	\$ 1,475,235.98	\$ 117,135.15	
Unit Charge	\$464.6179273 Per Ton				
			\$ 9,025,341.74	\$ 1,167,425.01	

City of Elizabeth (Contribution from Pumping Station)

\$ 9,025,341.74

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

Flow:	18.0810 MG/Year at	\$ 350.4740125	6,336.92
BOD:	83.5407 Tons/Year at	695.1378880	58,072.31
TSS:	12.139 Tons/Year at	464.6179273	5,640.00

Joint Meeting Industrial
Subtotal

1,167,425.01
\$ 10,262,815.98

Total 2011 Budget
Subtotal (above)
Subtotal (EDU's)

\$ 25,330,520.00
(10,262,815.98)
\$ 15,067,704.02

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 15,067,704
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)
 151,334 (X + \$4.771370148) + 3905 (X) = \$ 15,067,704

Equivalent Units-Member Municipalities 151,334

Elmora EDU's = 3,905 \$ 92.4099838960 Per Unit = X
 \$ 97.1813540440 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 14,706,843.03
 Elmora Area Assessment \$ 360,860.99

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 9,025,341.74
 Elmora EDU's 360,860.99
 Elmora Industrial 70,049.23
\$ 9,456,251.96

Total Anticipated Payment from Member Municipalities

EDU's 14,706,843.03
 Industrial 1,167,425.01
\$ 15,874,268.04

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

\$ 9,456,251.96 / \$ 24,587,054.00 = 38.4602887%

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 2010 - Summary of Infiltration and Inflow

Municipality	Phase IIB		2010				Phase IIB		2010	
	SSES Infiltration (GPD)	2009 Infiltration (GPD)	Infiltration Removed (GPD)	2010 Infiltration (GPD)	SSES Inflow (GPD)	2009 Inflow (GPD)	Inflow Removed (GPD)	2010 Inflow (GPD)	Inflow Removed (GPD)	2010 Inflow (GPD)
East Orange	70,747	44,022	-	44,022	3,007,440	218,160	-	218,160	-	218,160
Hillside	79,012	32,980	-	32,980	1,185,120	1,185,120	-	1,185,120	-	1,185,120
Irrington	1,115,672	797,026	-	797,026	8,612,640	7,791,840	-	7,791,840	-	7,791,840
Maplewood	389,078	199,485	-	199,485	5,449,680	2,137,680	2,880	2,134,800	2,880	2,134,800
Millburn	191,609	152,240	-	152,240	2,729,520	2,384,640	-	2,384,640	-	2,384,640
Newark	234,484	184,463	-	184,463	1,959,540	1,951,200	-	1,951,200	-	1,951,200
Roselle Park	106,187	65,147	-	65,147	1,576,080	1,576,080	-	1,576,080	-	1,576,080
South Orange	410,876	83,906	-	83,906	2,183,760	2,027,520	48,240	1,979,280	48,240	1,979,280
Summit	171,657	64,916	-	64,916	3,651,120	1,872,720	-	1,872,720	-	1,872,720
Union	329,127	238,013	-	238,013	14,534,640	13,170,240	230,400	12,939,840	230,400	12,939,840
West Orange	250,811	154,847	-	154,847	7,097,040	6,744,600	-	6,744,600	-	6,744,600
Total	3,349,260	2,017,045	-	2,017,045	51,986,580	41,059,800	281,520	40,778,280	281,520	40,778,280

Table V

Joint Meeting of Essex and Union Counties

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

	Total	Domestic & Commercial		Industrial	
		MG	MG	MG	MG
Flow	15,791.6400		15,337.1880		454.4520
	\$5,847,131.04		\$5,666,461.95		
Infiltration	3.8207994%				\$180,669.09
Inflow	10.8849999%	603.36	586.00	\$216,502.97	17.36
		1,718.92	1,669.45	\$616,793.31	49.47
BOD	at \$695.1378880 Per Ton	8,459.6997 Tons	7,208.6950 Tons		1,251.0047 Tons
		\$5,880,657.78	\$5,011,037.02		\$869,620.77
TSS	at \$464.6179273 Per Ton	8,924.4925 Tons	8,672.3818 Tons		252.1107 Tons
		\$4,146,479.21	\$4,029,344.06		\$117,135.15
Total		\$15,874,268.03 ¹	\$14,706,843.03		\$1,167,425.01

(1) Amount anticipated from Members after allocation of

38.4602887% to City of Elizabeth \$ 9,456,251.96

"Base Year - 1982"

Infiltration: 3.35 MGD / 52.79 MGD =

6.34590% (Per H&S Phase IIB Report)

Inflow: 113 MGD (Excluding Elizabeth) / 137 MGD (Total) =

82.4817518% 1 inch of rain = 50 mg of inflow (Per H&S Phase IIB Report)

"2009 - 2010"

Infiltration: 2.017 MGD / 52.79 MGD =

15,791.6400 603.37 MG / Year

(November 1, 2009 - October 31, 2010)

Inflow: Rainfall = 41.68 Inches X 50 MG X 82.482%

1,718.92 MG / Year

Total D&C

\$14,706,843.03

Less: Infiltration

(216,502.97)

Less: Inflow

(616,793.31)

Net after infiltration and inflow

\$13,873,546.75

Equivalent Dwelling Units

151,334

User Charge Per Unit

\$91.6750151981709

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2011

Domestic & Commercial									
User Charge			Infiltration				Inflow		Unit Cost
Dwelling Units	\$ 91.67501520 Per Unit	Percent ¹	Amount	Percent ²	Amount	Total Cost			
East Orange	7,215	\$661,435.23	2.18%	\$4,719.76	0.53%	\$3,269.00	\$669,423.99	\$92.7823	
Hillside	8,536	782,537.93	1.64%	3,550.65	2.91%	17,948.69	804,037.27	94.1937	
Irvington	27,104	2,484,759.61	39.51%	85,540.32	19.11%	117,869.20	2,688,169.13	99.1798	
Maplewood	9,561	876,504.82	9.89%	21,412.14	5.24%	32,319.97	930,236.93	97.2949	
Millburn	9,843 ³	902,357.17	7.55%	16,345.97	5.85%	36,082.41	954,785.55	97.0015	
Newark	17,427	1,597,620.49	9.15%	19,810.02	4.78%	29,482.72	1,646,913.23	94.5035	
Roselle Park	4,752	435,639.67	3.23%	6,993.05	3.86%	23,808.22	466,440.94	98.1568	
South Orange	7,879	722,307.44	4.16%	9,006.52	4.85%	29,914.48	761,228.44	96.6149	
Summit	14,043 ⁴	1,287,392.24	3.22%	6,971.40	4.59%	28,310.81	1,322,674.45	94.1875	
Union	24,999	2,291,783.70	11.80%	25,547.35	31.73%	195,708.52	2,513,039.57	100.5256	
West Orange	19,975	1,831,208.43	7.68%	16,627.43	16.55%	102,079.29	1,949,915.15	97.6178	
	151,334	\$13,873,546.73	100.01%	\$216,524.61	100.00%	\$616,793.31	\$14,706,864.65	\$97.1815	
(1) See Table IV - Infiltration for November of the Prior Year									\$100.7932 2010
(2) See Table IV - Inflow for November of the Prior Year									\$97.9839 2009
(3) Includes Livingston (409)									\$95.9708 2008
									\$89.5386 2007

(1) See Table IV - Infiltration for November of the Prior Year

(2) See Table IV - Inflow for November of the Prior Year

(3) Includes Livingston (409)

(4) Includes New Providence (3557)

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2011

Industrial											
Municipality	BOD (Tons / Year)	BOD ¹ (\$/Year)	TSS (Tons / Year)	TSS ² (\$/Year)	Flow (MG / Year)			Inflow 10.885000%	Total	Flow ³ (\$/Year)	Total Cost
					Dry Weather	Infiltration 3.820799%					
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	535.2733	372,088.75	34.6783	16,112.16	57.51	2.58	7.34	67.43	26,805.06	415,005.97	
Irvington	40.1539	27,912.50	18.3949	8,546.60	35.29	1.58	4.50	41.37	16,448.39	52,907.49	
Maplewood	384.8591	267,530.14	26.4767	12,301.55	30.46	1.36	3.89	35.71	14,196.25	294,027.94	
Millburn	0.0000	0.00	0.0000	0.00	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	0.00
Roselle Park	0.1490	103.58	0.1630	75.73	0.58	0.03	0.07	0.67	267.95	447.26	
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summit ⁴	43.4616	30,211.80	42.9583	19,959.20	82.08	3.68	10.48	96.24	38,258.98	88,429.98	
Union	247.1078	171,773.99	129.4395	60,139.91	181.71	8.14	23.19	213.03	84,692.46	316,606.36	
West Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,251.0047	\$ 869,620.76	252.1107	\$117,135.15	387.62	17.36	49.47	454.45	\$180,669.09	\$1,167,425.00	

- (1) At \$695.137888/Ton
(2) At \$464.6179273/Ton
(3) At \$397.5537261/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
2011

Municipality	Domestic & Commercial				
	Total Assessments ¹	User Charge	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
		Domestic Sewage 91.6750152			
East Orange	\$669,423.99	\$661,435.23	\$0.00	\$7,988.76	4.2170%
Hillside	1,219,043.24	782,537.93	415,005.97	21,499.34	7.6794%
Irvington	2,741,076.62	2,484,759.61	52,907.49	203,409.52	17.2674%
Maplewood	1,224,264.87	876,504.82	294,027.94	53,732.11	7.7122%
Millburn	954,785.55	902,357.17	0.00	52,428.38	6.0147%
Newark	1,646,913.23	1,597,620.49	0.00	49,292.74	10.3747%
Roselle Park	466,888.20	435,639.67	447.26	30,801.27	2.9412%
South Orange	761,228.44	722,307.44	0.00	38,921.00	4.7954%
Summit	1,411,104.43	1,287,392.24	88,429.98	35,282.21	8.8892%
Union	2,829,645.93	2,291,783.70	316,606.36	221,255.87	17.8253%
West Orange	1,949,915.15	1,831,208.43	0.00	118,706.72	12.2835%
	<u>\$15,874,289.65</u>	<u>\$13,873,546.73</u>	<u>\$1,167,425.00</u>	<u>\$833,317.92</u>	<u>100.0000%</u>
Elizabeth	9,456,230.35				
Total	<u>\$25,330,520.00</u>				

(1) Reflects anticipated payment of \$9,456,230.35 from the City of Elizabeth which is 38.4602887% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2011 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 2011 Assessment with 2010 Assessment

Municipality	2010	2011		Comparison	
				Amount	Percentage
East Orange	\$696,293.07	\$669,423.99	(-)	(\$26,869.08)	-3.86%
Hillside	1,306,182.91	1,219,043.24	(-)	(87,139.67)	-6.67%
Irvington	2,853,908.83	2,741,076.62	(-)	(112,832.21)	-3.95%
Maplewood	1,286,680.39	1,224,264.87	(-)	(62,415.52)	-4.85%
Millburn	987,721.12	954,785.55	(-)	(32,935.57)	-3.33%
Newark	1,710,921.26	1,646,913.23	(-)	(64,008.03)	-3.74%
Roselle Park	483,566.91	466,888.20	(-)	(16,678.71)	-3.45%
South Orange	790,642.08	761,228.44	(-)	(29,413.64)	-3.72%
Summit	1,464,329.77	1,411,104.43	(-)	(53,225.34)	-3.63%
Union	2,861,990.26	2,829,645.93	(-)	(32,344.33)	-1.13%
West Orange	2,013,147.33	1,949,915.15	(-)	(63,232.18)	-3.14%
	\$16,455,383.93	\$15,874,289.65	(-)	(\$581,094.28)	-3.53%
Elizabeth	8,378,937.34	9,456,230.35	(+)	\$ 1,077,293.01	12.86%
Total	\$24,834,321.27	\$25,330,520.00	(+)	\$496,198.73	2.00%

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

City of Elizabeth percentage	
2007	32.78089120%
2008	33.62887370%
2009	35.97984850%
2010	34.62822260%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2011 as a result of the Agreement with the City of Elizabeth which requires 38.4602887% of the 2011 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 38.4602887 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 2010.

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 2011 are apportioned as follows:

	<u>2011</u>	<u>2010</u>		<u>2011</u>	<u>2010</u>
East Orange	4.2170%	4.2314%	Roselle Park	2.9412%	2.9387%
Hillside	7.6794%	7.9377%	South Orange	4.7954%	4.8048%
Irvington	17.2674%	17.3433%	Summit	8.8892%	8.8988%
Maplewood	7.7122%	7.8192%	Union	17.8253%	17.3924%
Millburn	6.0147%	6.0024%	West Orange	12.2835%	12.2340%
Newark	10.3747%	10.3973%	Total	<u>100.0000%</u>	<u>100.0000%</u>

Respectfully submitted,



A. Ralph LaMendola
Chief Engineer

**Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A
2011 Budget**

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 680,000	\$ 80,000	\$ 11,000	\$ -	\$ 771,000
Gas Service	402,150	98,500	-	-	500,650
Fuel, Oil & Kerosene	134,000	247,500	-	-	381,500
Water Service	195,000	65,000	3,500	-	263,500
Chemicals	926,220	845,900	6,800	2,200	1,781,120
Sludge Disposal	-	2,411,291	-	-	2,411,291
Insurance	510,260	102,051	47,624	20,410	680,345
Administration	1,806,166	944,438	10,000	198,623	2,959,227
Labor	5,567,871	908,444	65,751	9,188	6,551,254
Benefits	3,218,604	559,984	48,500	82,845	3,909,933
Equipment	165,000	61,000	-	-	226,000
Printing & Stationery	15,000	2,000	-	1,000	18,000
Maintenance, Supplies & Spare Parts	1,128,333	376,167	5,000	276,000	1,785,500
Screening Disposal	209,000	-	-	-	209,000
Reserve Contingency	175,000	-	-	-	175,000
Miscellaneous Expenses	177,500	87,500	-	120,000	385,000
Technical & Professional Services	267,500	50,000	-	25,000	342,500
Replacement Fund	1,174,000	-	-	-	1,174,000
NJPDES & Miscellaneous Permit Fee:	527,500	20,000	250,000	8,200	805,700
	\$ 17,279,104	\$ 6,859,775	\$ 448,175	\$ 743,466	\$ 25,330,520
	68.21%	27.08%	1.77%	2.94%	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	\$ 2,482,610	80%	\$ 1,986,088	10%	\$ 248,261	10%	\$ 248,261
Power	680,000	40%	\$ 272,000	5%	\$ 34,000	55%	\$ 374,000
Chlorine	565,000	40%	\$ 226,000			60%	\$ 339,000
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	2,642,333	28%	\$ 739,853	27%	\$ 713,430	45%	\$ 1,189,050
Fuel, Oil & Kerosene	134,000	40%	\$ 53,600	30%	\$ 40,200	30%	\$ 40,200
Administration, Labor & Benefits (Payroll Retirement)	10,592,641	40%	4,237,056	10%	\$ 1,059,264	50%	\$ 5,296,321
Sludge Processing 2	182,520			50%	\$ 91,260	50%	\$ 91,260
Total	\$17,279,104		\$ 7,514,597		\$ 2,186,415		\$ 7,578,092
	100%		43.4895062%		12.6535207%		43.8569731%

(1) General Expenditures
(From the Approved Budget)

Insurance	\$ 510,260
Technical & Professional Services	267,500
Stationery & Printing	15,000
Gas	402,150
Water	195,000
Miscellaneous	177,500
Service Contracts	209,000
Permit Fees	527,500
Sodium Bisulfite & Misc. Chemicals	178,700
	<u>\$2,482,610</u>

(2) Sludge Processing

Polymer	\$ 85,000
K2MnO4	97,520
	<u>\$ 182,520</u>

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

	Estimated			
	Total Cost	Cost Flow	Cost TSS	Cost BOD
Treatment Plant	\$ 17,279,104	\$ 7,514,597	\$ 2,186,415	\$ 7,578,092
Dewatering Facility	6,859,775		3,429,888	3,429,888
Drying Facility	448,175		224,088	224,088
	<u>\$ 24,587,054</u>	<u>\$ 7,514,597</u>	<u>\$ 5,840,390</u>	<u>\$ 11,232,067</u>
Subtotal	100.00%	30.5632265%	23.7539235%	45.6828500%
Sewers 1	\$ 743,466			
Total	<u>\$ 25,330,520</u>			

(1) Joint Meeting Members Only

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011 SUMMARY

MUNICIPALITY	FLOW (MG)	LOADINGS	
		BOD (tons)	TSS (tons)
HILLSIDE	67.425	535.27333053	34.67825793
IRVINGTON	41.374	40.15390161	18.39490833
MAPLEWOOD	35.709	384.85910367	26.47668942
MURRAY HILL	25.391	12.10532235	7.20735711
ROSELLE PARK	0.674	0.14896074	0.16301364
SUMMIT	70.845	31.35625662	35.75091537
UNION	213.034	247.10781990	129.43951467
<i>MEMBERS TOTAL</i>	454.452	1251.00469542	252.11065647
<i>ELIZABETH</i>	239.939	2959.98430707	482.77701288
GRAND TOTAL	694.391	4210.98900249	734.88766935

MUNICIPALITY	FLOW	COSTS		TOTAL
		BOD	TSS	
HILLSIDE	\$26,805.06	\$372,088.77	\$16,112.14	\$415,005.97
IRVINGTON	\$16,448.39	\$27,912.50	\$8,546.60	\$52,907.49
MAPLEWOOD	\$14,196.25	\$267,530.14	\$12,301.54	\$294,027.94
MURRAY HILL	\$10,094.29	\$8,414.87	\$3,348.67	\$21,857.82
ROSELLE PARK	\$267.95	\$103.55	\$75.74	\$447.24
SUMMIT	\$28,164.69	\$21,796.92	\$16,610.52	\$66,572.13
UNION	\$84,692.46	\$171,774.01	\$60,139.92	\$316,606.39
<i>MEMBERS TOTAL</i>	\$180,669.09	\$869,620.76	\$117,135.13	\$1,167,424.98
<i>ELIZABETH</i>	\$84,092.38	\$2,057,597.24	\$224,306.86	\$2,365,996.48
GRAND TOTAL	\$264,761.47	\$2,927,218.00	\$341,441.99	\$3,533,421.46

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2011
COST FACTORS**

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$397.5537261	\$695.1378880	\$464.6179273
ELIZABETH	\$350.4740125	\$695.1378880	\$464.6179273

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$397.5537261	BOD per Ton \$695.1378880	TSS per Ton \$464.6179273	
1042	GEC Marconi / BAE	1	2	2		8.736	0.0729	0.0729	
	Totals:					8.736	0.0729	0.0729	
	Cost Analysis:					\$3,473.03	\$50.65	\$33.85	\$3,557.53
1050	Manhattan Drug Co.	4	426	150		0.567	1.0072	0.3547	
	Totals:					0.567	1.0072	0.3547	
	Cost Analysis:					\$225.41	\$700.16	\$164.78	\$1,090.36
1054	Oasis Foods	3	2291	401		5.556	53.0791	9.2906	
		99	193	149		1.506	1.2120	0.9357	
	Totals:					7.062	54.2911	10.2263	
	Cost Analysis:					\$2,807.52	\$37,739.82	\$4,751.32	\$45,298.66
1058	Quest Industries	2	46	45		0.351	0.0673	0.0659	
		99	193	149		0.005	0.0040	0.0031	
	Totals:					0.356	0.0714	0.0690	
	Cost Analysis:					\$141.53	\$49.60	\$32.05	\$223.17
1090	Union Beverages	1	2421	87		45.756	461.9329	16.5998	
		2	935	851		1.084	4.2265	3.8468	
	Totals:					46.84	466.1594	20.4466	
	Cost Analysis:					\$18,621.42	\$324,045.03	\$9,499.85	\$352,166.30
1091	Hillside Bottling	2	1437	119		1.623	9.7255	0.8054	
		99	193	149		0.035	0.0282	0.0217	
	Totals:					1.658	9.7537	0.8271	
	Cost Analysis:					\$659.14	\$6,780.14	\$384.30	\$7,823.58
1092	A&H Products	1	443	302		2.055	3.7962	2.5879	
		99	193	149		0.151	0.1215	0.0938	
	Totals:					2.206	3.9177	2.6818	
	Cost Analysis:					\$877.00	\$2,723.38	\$1,246.00	\$4,846.37
HILLSIDE TOTALS						67.4250	535.2733	34.6783	
						\$26,805.06	\$372,088.77	\$16,112.14	\$415,005.97

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Concentration	Cost Factors				ANNUAL PAYMENT
				Flow per MG	BOD per Ton	TSS per Ton		
				\$397.5537261	\$695.1378880	\$464.6179273		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
2030	Hi-Speed Plating	1	80	24	0.015	0.0050	0.0015	
		99	193	149	0.061	0.0491	0.0379	
	Totals:				0.076	0.0541	0.0394	
	Cost Analysis:				\$30.21	\$37.61	\$18.31	\$86.13
2066	Wayne County Foods	1	4231	138	0.121	2.1348	0.0696	
		99	193	149	0.353	0.2841	0.2193	
	Totals:				0.474	2.4189	0.2890	
	Cost Analysis:				\$188.44	\$1,681.49	\$134.26	\$2,004.19
2072	Clean-Tex Services	1	187	91	37.187	28.9981	14.1114	
		99	193	149	1.552	1.2491	0.9643	
	Totals:				38.739	30.2471	15.0757	
	Cost Analysis:				\$15,400.83	\$21,025.92	\$7,004.42	\$43,431.17
2076	International Vitamin	1	855	344	2.085	7.4338	2.9909	
		Totals:				2.085	7.4338	2.9909
	Cost Analysis:				\$828.90	\$5,167.48	\$1,389.62	\$7,386.01
IRVINGTON TOTALS					41.3740	40.1539	18.3949	
					\$16,448.39	\$27,912.50	\$8,546.60	\$52,907.49

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: MAPLEWOOD

			Concentration	Cost Factors			
				Flow per MG	BOD per Ton	TSS per Ton	

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$397.5537261	BOD per Ton \$695.1378880	TSS per Ton \$464.6179273	
5010	Bell Labs / Lucent	1		7	12	17.748	0.5181	0.8881	
	Totals:					17.748	0.5181	0.8881	
	Cost Analysis:					\$7,055.78	\$360.13	\$412.63	\$7,828.54
5011	Baxter Pharmaceutical	1		626	838	0.942	2.4590	3.2918	
	Totals:					0.942	2.4590	3.2918	
	Cost Analysis:					\$374.50	\$1,709.35	\$1,529.42	\$3,613.27
5020	Fablok Mills	4		423	127	4.882	8.6114	2.5855	
		99		193	149	0.185	0.1489	0.1149	
	Totals:					5.067	8.7603	2.7004	
	Cost Analysis:					\$2,014.40	\$6,089.62	\$1,254.66	\$9,358.68
5021	FRC-Electrical Ind	1		54	48	1.634	0.3679	0.3271	
	Totals:					1.634	0.3679	0.3271	
	Cost Analysis:					\$649.60	\$255.77	\$151.96	\$1,057.33
MURRAY HILL TOTALS						25.3910	12.1053	7.2074	
						\$10,094.29	\$8,414.87	\$3,348.67	\$21,857.82

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: ROSELLE PARK

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$397.5537261	BOD per Ton \$695.1378880	TSS per Ton \$464.6179273	
6005	Hexacon Electric	2	53	58	0.674	0.1490	0.1630		
	Totals:				0.674	0.1490	0.1630		
	Cost Analysis:				\$267.95	\$103.55	\$75.74		\$447.24
ROSELLE PARK TOTALS					0.6740	0.1490	0.1630		
					\$267.95	\$103.55	\$75.74		\$447.24

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: SUMMIT

			Cost Factors					
			Concentration		Flow per MG	BOD per Ton	TSS per Ton	
					\$397.5537261	\$695.1378880	\$464.6179273	
IU #	INDUSTRY	SITE	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	ANNUAL PAYMENT
5511	Novartis Groundwater	4	1	2	0.642	0.0027	0.0054	
	Totals:				0.642	0.0027	0.0054	
	Cost Analysis:				\$255.23	\$1.86	\$2.49	\$259.58
5512	Summit Property Co.	03A	67	72	54.914	15.3424	16.4874	
		99	193	149	4.038	3.2498	2.5089	
	Totals:				58.952	18.5922	18.9963	
	Cost Analysis:				\$23,436.59	\$12,924.17	\$8,826.03	\$45,186.79
5513	Celgene Corporation	1	272	357	11.251	12.7613	16.7493	
	Totals:				11.251	12.7613	16.7493	
	Cost Analysis:				\$4,472.88	\$8,870.89	\$7,782.00	\$21,125.77
SUMMIT TOTALS					70.8450	31.3563	35.7509	
					\$28,164.69	\$21,796.92	\$16,610.52	\$66,572.13

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration	Cost Factors			ANNUAL PAYMENT	
				Flow per MG	BOD per Ton	TSS per Ton		
				\$397.5537261	\$695.1378880	\$464.6179273		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7015	ACuPowder	3 (99)	193	149	0.035	0.0282	0.0217	
		4	132	127	0.652	0.3589	0.3453	
	Totals:				0.687	0.3871	0.3670	
	Cost Analysis:				\$273.12	\$269.06	\$170.53	\$712.71
7035	American Products	1	367	493	0.555	0.8494	1.1410	
	Totals:				0.555	0.8494	1.1410	
	Cost Analysis:				\$220.64	\$590.43	\$530.12	\$1,341.19
7070	Durex	1	171	262	4.225	3.0127	4.6160	
	Totals:				4.225	3.0127	4.6160	
	Cost Analysis:				\$1,679.66	\$2,094.26	\$2,144.67	\$5,918.59
7077	Siemens Water Technology	4	23	33	3.058	0.2933	0.4208	
	Totals:				3.058	0.2933	0.4208	
	Cost Analysis:				\$1,215.72	\$203.88	\$195.52	\$1,615.11
7080	Foremost Mfg	2	9	79	12.531	0.4703	4.1281	
	Totals:				12.531	0.4703	4.1281	
	Cost Analysis:				\$4,981.75	\$326.92	\$1,917.98	\$7,226.64
7092	International Paint	2	228	344	4.947	4.7034	7.0964	
	Totals:				4.947	4.7034	7.0964	
	Cost Analysis:				\$1,966.70	\$3,269.52	\$3,297.10	\$8,533.32
7105	Stonco Lighting	2	296	440	0.767	0.9467	1.4073	
	Totals:				0.767	0.9467	1.4073	
	Cost Analysis:				\$304.92	\$658.10	\$653.85	\$1,616.88
7145	Schering	5	30	26	135.277	16.9232	14.6667	
	Totals:				135.277	16.9232	14.6667	
	Cost Analysis:				\$53,779.88	\$11,763.92	\$6,814.43	\$72,358.23
7155	Tessler & Weiss	22	145	163	1.476	0.8925	1.0033	
	Totals:				1.476	0.8925	1.0033	
	Cost Analysis:				\$586.79	\$620.39	\$466.13	\$1,673.30
7167	Turbo Braze	1	245	204	0.231	0.2360	0.1965	
	Totals:				0.231	0.2360	0.1965	
	Cost Analysis:				\$91.83	\$164.05	\$91.30	\$347.19

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$397.5537261	BOD per Ton \$695.1378880	TSS per Ton \$464.6179273	
7191	Cintas	1	276	139	29.92	34.4355	17.3425		
	Totals:				29.92	34.4355	17.3425		
	Cost Analysis:				\$11,894.81	\$23,937.44	\$8,057.65		\$43,889.90
7192	Merril Corporation	1	990	499	0.59	2.4357	1.2277		
	Totals:				0.59	2.4357	1.2277		
	Cost Analysis:				\$234.56	\$1,693.15	\$570.41		\$2,498.11
7193	Lioni Latticini	1	3828	1406	7.16	114.2934	41.9792		
		99	193	149	0.313	0.2519	0.1945		
	Totals:				7.473	114.5453	42.1737		
	Cost Analysis:				\$2,970.92	\$79,624.76	\$19,594.66		\$102,190.33
7194	BASF Catalysts	1	23	64	0.061	0.0059	0.0163		
		99	193	149	0.894	0.7195	0.5555		
	Totals:				0.955	0.7254	0.5717		
	Cost Analysis:				\$379.66	\$504.22	\$265.64		\$1,149.53
7195	Deep Foods	1	1589	786	9.935	65.8306	32.5632		
		2	248	305	0.407	0.4209	0.5176		
	Totals:				10.342	66.2515	33.0808		
	Cost Analysis:				\$4,111.50	\$46,053.93	\$15,369.93		\$65,535.36
UNION TOTALS						213.0340	247.1078	129.4395	
						\$84,692.46	\$171,774.01	\$60,139.92	\$316,606.39

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration	Cost Factors			ANNUAL PAYMENT	
				Flow per MG	BOD per Ton	TSS per Ton		
				\$350.4740125	\$695.1378880	\$464.6179273		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
0033	Cargill Flavor Systems	1	2696	484	0.389	4.3733	0.7851	
	Totals:				0.389	4.3733	0.7851	
	Cost Analysis:				\$136.33	\$3,040.02	\$364.78	\$3,541.13
0037	Deb-El Foods	1	1694	260	6.628	46.8201	7.1861	
	Totals:				6.628	46.8201	7.1861	
	Cost Analysis:				\$2,322.94	\$32,546.40	\$3,338.78	\$38,208.12
0062	Garcia Laundry	2	866	274	2.737	9.8839	3.1272	
		99	193	149	0.104	0.0837	0.0646	
	Totals:				2.841	9.9676	3.1919	
	Cost Analysis:				\$995.70	\$6,928.86	\$1,483.00	\$9,407.55
0067	Actavis (formerly Purepac)	3	1108	161	18.081	83.5407	12.1390	
	Totals:				18.081	83.5407	12.1390	
	Cost Analysis:				\$6,336.92	\$58,072.33	\$5,640.02	\$70,049.26
0070	LORCO	2	12600	59	19.018	999.2438	4.6790	
	Totals:				19.018	999.2438	4.6790	
	Cost Analysis:				\$6,665.31	\$694,612.19	\$2,173.95	\$703,451.46
0075	Mastercraft Electroplating	99	193	149	0.024	0.0193	0.0149	
	Totals:				0.024	0.0193	0.0149	
	Cost Analysis:				\$8.41	\$13.43	\$6.93	\$28.77
0078	Magnolia Beef	1	1424	680	0.143	0.8491	0.4055	
		99	193	149	0.365	0.2938	0.2268	
	Totals:				0.508	1.1429	0.6323	
	Cost Analysis:				\$178.04	\$794.47	\$293.77	\$1,266.28
0093	OENJ	4	7	45	10.699	0.3123	2.0077	
	Totals:				10.699	0.3123	2.0077	
	Cost Analysis:				\$3,749.72	\$217.09	\$932.80	\$4,899.61
0098	Olympia Trails	1	310	318	2.408	3.1128	3.1932	
		99	193	149	0.521	0.4193	0.3237	
	Totals:				2.929	3.5321	3.5169	
	Cost Analysis:				\$1,026.54	\$2,455.32	\$1,634.00	\$5,115.85
0100	Michaels Foods - North Avenue Facility	4	2681	710	78.074	872.8494	231.1537	
		4a	1518	366	5.435	34.4039	8.2950	
		4b	1057	234	4.510	19.8787	4.4008	
		99	193	149	0.448	0.3606	0.2784	
	Totals:				88.467	927.4925	244.1278	
	Cost Analysis:				\$31,005.38	\$644,735.16	\$113,426.16	\$789,166.71

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	FLOW (MG)	Cost Factors			ANNUAL PAYMENT
							Flow per MG \$350.4740125	BOD per Ton \$695.1378880	TSS per Ton \$464.6179273	
0105	Michaels Foods - Papetti Plaza Facility	2	3417	761	55.372	788.9895			175.7158	
		2a	1497	228	6.764	42.2242			6.4309	
		2b	1389	216	1.176	6.8115			1.0592	
		3	462	745	0.392	0.7552			1.2178	
		Totals:			63.704	838.7805			184.4238	
	Cost Analysis:				\$22,326.60	\$583,068.10			\$85,686.62	\$691,081.31
0120	Phelps Dodge	99	193	149	0.198	0.1594			0.1230	
		Totals:			0.198	0.1594			0.1230	
		Cost Analysis:			\$69.39	\$110.77			\$57.16	\$237.32
0148	Superior Powder Coating	1	160	84	2.366	1.5786			0.8288	
		99	193	149	0.411	0.3308			0.2554	
		Totals:			2.777	1.9094			1.0841	
		Cost Analysis:			\$973.27	\$1,327.28			\$503.71	\$2,804.25
0155	Duro Bag	1	491	209	4.236	8.6731			3.6918	
		2	80	81	5.191	1.7317			1.7534	
		3	176	133	0.542	0.3978			0.3006	
		Totals:			9.969	10.8026			5.7458	
	Cost Analysis:				\$3,493.88	\$7,509.29			\$2,669.58	\$13,672.75
0165	Wakefern Food Corp.	2	155	121	3.684	2.3812			1.8588	
		3a	361	305	3.179	4.7856			4.0432	
		4	121	151	0.558	0.2816			0.3514	
		7	24	20	0.500	0.0500			0.0417	
		Totals:			7.921	7.4983			6.2951	
	Cost Analysis:				\$2,776.10	\$5,212.36			\$2,924.82	\$10,913.28
0178	814 Americas	3	508	230	3.374	7.1473			3.2360	
		99	193	149	0.042	0.0338			0.0261	
		Totals:			3.416	7.1811			3.2621	
	Cost Analysis:				\$1,197.22	\$4,991.89			\$1,515.63	\$7,704.74
0186	One Great Burger	1	274	153	0.955	1.0912			0.6093	
		2	333	352	0.318	0.4416			0.4668	
		Totals:			1.273	1.5327			1.0761	
	Cost Analysis:				\$446.15	\$1,065.47			\$499.96	\$2,011.58
0189	Prince Donut Co.	3	4070	622	0.915	15.5293			2.3733	
		99	193	149	0.182	0.1465			0.1131	
		Totals:			1.097	15.6758			2.4864	
	Cost Analysis:				\$384.47	\$10,896.82			\$1,155.20	\$12,436.49
ELIZABETH TOTALS					239.9390	2,959.9843			482.7770	
					\$84,092.38	\$2,057,597.24			\$224,306.86	\$2,365,996.48