

December 16, 2011

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 2012)

I present herewith the 77th 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, 2010 through October 31, 2011. 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 2012. 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 2011, this "User Charge System" was utilized by the various municipalities for collection of the charges associated with the operation and maintenance of the trunk sewer system, the treatment plant, and the Sludge Dewatering Facility, the percentage of assessment based upon a report dated December 17, 2010.

During 2011, 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 (2012) dwelling unit figures formulated by each municipality in 2011.

It should be noted that the methodology used to assess the City of Elizabeth for services rendered by the Joint Meeting is based on quantity and quality of sewage as measured at the Trenton Avenue Pumping Station, plus the Equivalent Dwelling Units (EDU's) tributary to the gravity Joint Meeting sewer through the Elmora Avenue Area in Elizabeth, plus the tributary area from the City of Linden. This methodology was approved by the Joint Meeting and the Elizabeth City Council. The percentage used in this assessment report for the City will be based upon a twelve (12) month, 366 day period of November 1, 2010, through October 31, 2011 and projected for a twelve (12) month period in 2012. 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 2012, 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, 2010, through October 31, 2011, and projected for 2012 and are based upon actual 2010-2011 operating statistics as well as a recent upgraded 2011 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	23,074.7210 MG/Year	63.2184 MGD
2.	BOD	15,891.2093 Tons/Year	87,075.1195 Lbs/Day
	TSS	13,002.9719 Tons/Year	71,249.1611 Lbs/Day
3.	Estimated Industrial Flow	639.5940 MG/Year	1.7523 MGD
4.	Estimated Industrial BOD	3,801.4439 Tons/Year	20,829.8296 Lbs/Day
5.	Estimated Industrial TSS	807.2313 Tons/Year	4,423.1852 Lbs/Day
6.	Estimated Total Operating Expenses in 2012		
			\$18,285,958 STP
			7,062,994 SDWF
			518,684 SDF
			828,253 Sewers
			<hr/> \$26,695,889 Total
7.	Estimated Total Dwelling Units in System		
			151,474 JM Members
			47,181 Elizabeth
			<hr/> 198,655 Total

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

Flow	31.2143406%
BOD	45.1677030%
Suspended Solids	23.6179564%

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 2012 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 2012

Treatment Plant

	<u>Total for 2012</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	23,074.7210 MG/Yr. ¹	22,435.1270 MG/Yr.	639.5940 MG/Yr.
BOD	15,891.2093 Tons/Yr. ¹	12,089.7654 Tons/Yr.	3,801.4439 Tons/Yr.
Suspended Solids	13,002.9719 Tons/Yr. ¹	12,195.7406 Tons/Yr.	807.2313 Tons/Yr.

(1) Based upon data from November 1, 2010 thru October 31, 2011 (365 days)

Cost Allocation

	<u>Total for 2012</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
Flow	\$8,074,412.00	\$7,850,602.00	\$223,810.00
BOD	11,683,817.00	8,888,852.00	2,794,965.00
Suspended Solids	6,109,407.00	5,730,132.00	379,275.00
	\$25,867,636.00	\$22,469,586.00	\$3,398,050.00
	100.000000%	86.86370100%	13.13629900%

Elizabeth Contribution

Flow	-	6,214.6940 MG/Yr.
BOD	-	7,656.8531 Tons/Yr.
TSS	-	3,596.2081 Tons/Yr.

Trunk Sewer Flow¹

	<u>Total for 2012</u>	<u>Domestic & Commercial</u>	<u>Industrial</u>
	16,860.0270 MG/Yr. ²	16,455.8060 MG/Yr.	404.221 MG/Yr.

(1) Based upon data from November 1, 2010 thru October 31, 2011 (365 days)

(2) (23,074.721 - 6,214.6940)

COST ALLOCATION

\$828,253.00	\$808,395.54	\$19,857.46
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Member municipalities will be assessed \$5.34 (\$808,395.54/151,474) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$349.93 per MG for flow, \$735.24 per ton of BOD, and \$469.85 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	\$223,810.00	/	639.5940	=	\$349.9251087	/MG
BOD	\$2,794,965.00	/	3,801.4439	=	\$735.2377343	/Ton
Suspended Solids	\$379,275.00	/	807.2313	=	\$469.8467465	/Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$49.13/MG of flow for trunk sewer use ($\$19,857.46/404.221 = \$49.125/\text{MG}$). This brings the total flow cost to \$399.06/MG ($\$349.925 + \49.13) for the indicated industries of member municipalities.

Based upon the user charges for 2012, 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 2011 industrial waste survey of the service area. These are estimates for 2012 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 \$26,695,889.00 for 2012. 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 38.4674702% 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
2012

<u>Municipality</u>	<u>Dwelling Units ¹</u>	<u>User Charges Industrial</u>
East Orange	7,215	\$ -
Hillside	8,534	333,630
Irvington	27,006	48,330
Maplewood	9,561	270,801
Millburn	9,822 ⁴	-
Newark	17,427	-
Roselle Park	4,752	441
South Orange	8,000	-
Summit	14,101 ²	97,943 ³
Union	25,006	364,207
West Orange	20,050	-
Elizabeth	47,181	2,302,554
	<u>198,655</u>	<u>\$ 3,417,906</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 (3625)

(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 11/1/2010-10/31/2011 and Projected Contribution for 2012

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	23,074.721 MG	6,214.694 MG		16,860.027 MG	
		Industrial	D&C	Industrial	D&C
		217.135	5,997.559	404.221	16,455.806
		\$ 75,980.99	\$ 2,098,696.49	\$ 161,304.54	\$ 6,566,695.38
Unit Charge \$ 349.9251087 Per MG for Elizabeth					
Unit Charge \$ 399.0503644 Per MG for Joint Meeting					
BOD:	15,891.2093 Tons	7,656.8531 Tons		8,234.3562 Tons	
		Industrial	D&C	Industrial	D&C
		2,601.8588	5,054.9943	1,113.4937	7,120.8625
Unit Charge	\$735.2377343 Per Ton	\$ 1,912,984.77	\$ 3,716,622.56	\$ 818,682.59	
TSS:	13,002.9719 Tons	3,596.2081 Tons		9,406.7638 Tons	
		Industrial	D&C	Industrial	D&C
		508.7038	3,087.5043	288.1083	9,118.6555
Unit Charge	\$469.8467465 Per Ton	\$ 239,012.83	\$ 1,450,653.85	\$ 135,366.75	
		\$ 9,493,951.49		\$ 1,115,353.88	

City of Elizabeth (Contribution from Pumping Station) \$ 9,493,951.49

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

Flow:	18.2380 MG/Year at	\$ 349.9251087	6,381.93
BOD:	86.0914 Tons/Year at	735.2377343	63,297.65
TSS:	10.4192 Tons/Year at	469.8467465	4,895.43

Joint Meeting Industrial	1,115,353.88
Subtotal	\$ 10,683,880.38

Total 2012 Budget	\$ 26,695,889.00
Subtotal (above)	(10,683,880.38)
Subtotal (EDU's)	\$ 16,012,008.62

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 16,012,009
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)
 151,474 (X + \$5.336860055) + 3905 (X) = \$ 16,012,009

Equivalent Units-Member Municipalities 151,474

Elmora EDU's = 3,905 \$ 97.8485707850 Per Unit = X
 \$103.1854308400 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 15,629,909.95
 Elmora Area Assessment \$ 382,098.67

Total Anticipated Payment from the City of Elizabeth

Pumping Station \$ 9,493,951.49

Elmora EDU's 382,098.67

Elmora Industrial 74,575.01

\$ 9,950,625.17

Total Anticipated Payment from Member Municipalities

EDU's 15,629,909.95

Industrial 1,115,353.88

\$ 16,745,263.83

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

\$ 9,950,625.17 / \$ 25,867,636.00 = 38.4674702%

Table IV - A
Joint Meeting of Essex and Union Counties
Adjusted 2011 - Summary of Infiltration and Inflow

Municipality	Phase IIB		2011		Phase IIB		2011		2011	
	SSES	Infiltration (GPD)	2010	Infiltration Removed (GPD)	2011	Infiltration (GPD)	2010	Inflow Removed (GPD)	2011	Inflow (GPD)
East Orange	70,747		44,022	-	44,022	3,007,440	218,160	-	218,160	
Hillside	79,012		32,980	-	32,980	1,185,120	1,185,120	-	1,185,120	
Irvington	1,115,672		797,026	-	797,026	8,612,640	7,791,840	-	7,791,840	
Maplewood	389,078		199,485	-	199,485	5,449,680	2,134,800	-	2,134,800	
Millburn	191,609		152,240	-	152,240	2,729,520	2,384,640	-	2,384,640	
Newark	234,484		184,463	-	184,463	1,959,540	1,951,200	-	1,951,200	
Roselle Park	106,187		65,147	-	65,147	1,576,080	1,576,080	-	1,576,080	
South Orange	410,876		83,906	-	83,906	2,183,760	1,979,280	7,200	1,972,080	
Summit	171,657		64,916	-	64,916	3,651,120	1,872,720	97,200	1,775,520	
Union	329,127		238,013	-	238,013	14,534,640	13,939,840	-	13,939,840	
West Orange	250,811		154,847	-	154,847	7,097,040	6,744,600	-	6,744,600	
Total	3,349,260		2,017,045	-	2,017,045	51,986,580	41,778,280	104,400	41,673,880	

Table V

Joint Meeting of Essex and Union Counties

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

		Total	Domestic & Commercial	Industrial
Flow		16,860,0270 MG	16,455,8060 MG	404,2210 MG
		\$6,271,317.06	\$6,110,012.52	
Infiltration	3.8207994%	644.18	628.74	\$161,304.54
Inflow	14.3682451%	2,422.49	2,364.41	15.44
				\$877,901.37
BOD	at \$735.2377343 Per Ton	8,234,3562 Tons	7,120,8625 Tons	1,113,4937 Tons
		\$6,054,209.40	\$5,235,526.81	\$818,682.59
TSS	at \$469.8467465 Per Ton	9,406,7638 Tons	9,118,6555 Tons	288,1083 Tons
		\$4,419,737.37	\$4,284,370.62	\$135,366.75
Total		\$16,745,263.83	\$15,629,909.95	\$1,115,353.88

(1) Amount anticipated from Members after allocation of

38.4674702% to City of Elizabeth \$ 9,950,625.17

"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)

"2010 - 2011"

Infiltration: 2.017 MGD/52.79MGD =

X 16,860,0270 644.19 MG / Year
(November 1, 2010 - October 31, 2011)

Inflow: Rainfall = 58.74 Inches X 50 MG X 82.482%

2,422.49 MG / Year

Total D&C

\$15,629,909.95

Less: Infiltration

(233,450.08)

Less: Inflow

(877,901.37)

Net after infiltration and inflow

\$14,518,558.50

Equivalent Dwelling Units

151,474

User Charge Per Unit

\$95.8485185576403

Table VI
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2012

Municipality	Dwelling Units	User Charge		Domestic & Commercial				Total Cost	Unit Cost
		\$	95.84851856 Per Unit	Infiltration Percent ¹	Amount	Inflow Percent ²	Amount		
East Orange	7,215		\$691,547.06	2.18%	\$5,089.21	0.52%	\$4,565.09	\$701,201.36	\$97.1866
Hillside	8,534		817,971.26	1.64%	3,828.58	2.84%	24,932.40	846,732.24	99.2187
Irvington	27,006		2,588,485.09	39.51%	92,236.13	18.70%	164,167.56	2,844,888.78	105.3428
Maplewood	9,561		916,407.69	9.89%	23,088.21	5.12%	44,948.55	984,444.45	102.9646
Millburn	9,822 ³		941,424.15	7.55%	17,625.48	5.72%	50,215.96	1,009,265.59	102.7556
Newark	17,427		1,670,352.13	9.15%	21,360.68	4.68%	41,085.78	1,732,798.59	99.4318
Roselle Park	4,752		455,472.16	3.23%	7,540.44	3.78%	33,184.67	496,197.27	104.4186
South Orange	8,000		766,788.15	4.16%	9,711.52	4.73%	41,524.73	818,024.40	102.2531
Summit	14,101 ⁴		1,351,559.96	3.22%	7,517.09	4.26%	37,398.60	1,396,475.65	99.0338
Union	25,006		2,396,788.06	11.80%	27,547.11	33.45%	293,658.01	2,717,993.18	108.6936
West Orange	20,050		1,921,762.80	7.68%	17,928.97	16.20%	142,220.02	2,081,911.79	103.8360
	151,474		\$14,518,558.51	100.01%	\$233,473.42	100.00%	\$877,901.37	\$15,629,933.30	\$103.1856
									\$97.1815 2011
									\$100.7932 2010
									\$97.9839 2009
									\$95.9708 2008

- (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 (3625)

Table VI (Continued)
Joint Meeting of Essex and Union Counties
Estimated Annual Operation Expenses To Member Municipalities
2012

Industrial									
Municipality	BOD (Tons / Year)	BOD ¹ (\$/Year)	TSS (Tons / Year)	TSS ² (\$/Year)	Flow (MG / Year)			Flow ³ (\$/Year)	Total Cost
					Dry Weather	Infiltration 3.820799%	Inflow 14.368245%		
East Orange	0.0000	\$0.00	0.0000	\$0.00	0.00	0.00	0.00	\$0.00	\$0.00
Hillside	396.5001	291,521.84	37.2757	17,513.87	50.42	2.36	8.86	24,593.87	333,629.58
Irvington	38.7674	28,503.26	15.0803	7,085.43	26.12	1.22	4.59	12,742.48	48,331.17
Maplewood	338.9883	249,236.99	19.0656	8,957.91	25.84	1.21	4.54	12,605.60	270,800.50
Millburn	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Newark	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Roselle Park	0.1216	89.40	0.1307	61.41	0.60	0.03	0.11	290.91	441.72
South Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Summit ⁴	47.0045	34,559.48	52.2466	24,547.90	79.62	3.72	13.98	38,836.38	97,943.76
Union	292.1118	214,771.62	164.3094	77,200.24	148.09	6.92	26.01	72,235.30	364,207.16
West Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
	1,113.4937	\$ 818,682.59	288.1083	\$135,366.76	330.70	15.44	58.08	\$161,304.54	\$1,115,353.89

- (1) At \$735.2377343/Ton
(2) At \$469.8467465/Ton
(3) At \$399.0503644/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
2012

Municipality	Total Assessments ¹	Domestic & Commercial			
		User Charge Domestic Sewage 95.84851856	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$701,201.36	\$691,547.06	\$0.00	\$9,654.30	4.1875%
Hillside	1,180,361.82	817,971.26	333,629.58	28,760.98	7.0489%
Irvington	2,893,219.95	2,588,485.09	48,331.17	256,403.69	17.2778%
Maplewood	1,255,244.95	916,407.69	270,800.50	68,036.76	7.4961%
Millburn	1,009,265.59	941,424.15	0.00	67,841.44	6.0272%
Newark	1,732,798.59	1,670,352.13	0.00	62,446.46	10.3480%
Roselle Park	496,638.99	455,472.16	441.72	40,725.11	2.9658%
South Orange	818,024.40	766,788.15	0.00	51,236.25	4.8851%
Summit	1,494,419.41	1,351,559.96	97,943.76	44,915.69	8.9244%
Union	3,082,200.34	2,396,788.06	364,207.16	321,205.12	18.4064%
West Orange	2,081,911.79	1,921,762.80	0.00	160,148.99	12.4328%
	<u>\$16,745,287.19</u>	<u>\$14,518,558.51</u>	<u>\$1,115,353.89</u>	<u>\$1,111,374.79</u>	<u>100.0000%</u>
Elizabeth	9,950,601.81				
Total	<u>\$26,695,889.00</u>				

(1) Reflects anticipated payment of \$9,950,601.81 from the City of Elizabeth which is 38.4674702% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2012 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 2012 Assessment with 2011 Assessment

Municipality	2011	2012		Comparison	
				Amount	Percentage
East Orange	\$669,423.99	\$701,201.36	(+)	\$31,777.37	4.75%
Hillside	1,219,043.24	1,180,361.82	(-)	(38,681.42)	-3.17%
Irvington	2,741,076.62	2,893,219.95	(+)	152,143.33	5.55%
Maplewood	1,224,264.87	1,255,244.95	(+)	30,980.08	2.53%
Millburn	954,785.55	1,009,265.59	(+)	54,480.04	5.71%
Newark	1,646,913.23	1,732,798.59	(+)	85,885.36	5.21%
Roselle Park	466,888.20	496,638.99	(+)	29,750.79	6.37%
South Orange	761,228.44	818,024.40	(+)	56,795.96	7.46%
Summit	1,411,104.43	1,494,419.41	(+)	83,314.98	5.90%
Union	2,829,645.93	3,082,200.34	(+)	252,554.41	8.93%
West Orange	1,949,915.15	2,081,911.79	(+)	131,996.64	6.77%
	<u>\$15,874,289.65</u>	<u>\$16,745,287.19</u>	(+)	<u>\$870,997.54</u>	<u>5.49%</u>
Elizabeth	9,456,251.96	9,950,601.81	(+)	\$ 494,349.85	5.23%
Total	<u>\$25,330,541.61</u>	<u>\$26,695,889.00</u>	(+)	<u>\$1,365,347.39</u>	<u>5.39%</u>

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

City of Elizabeth percentage	
2008	33.62887370%
2009	35.97984850%
2010	34.62822260%
2011	38.46028870%

Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2012 as a result of the Agreement with the City of Elizabeth which requires 38.4674702% of the 2012 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 38.4674702 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 2011.

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 2012 are apportioned as follows:

	<u>2012</u>	<u>2011</u>		<u>2012</u>	<u>2011</u>
East Orange	4.1875%	4.2170%	Roselle Park	2.9658%	2.9412%
Hillside	7.0489%	7.6794%	South Orange	4.8851%	4.7954%
Irvington	17.2778%	17.2674%	Summit	8.9244%	8.8892%
Maplewood	7.4961%	7.7122%	Union	18.4064%	17.8253%
Millburn	6.0272%	6.0147%	West Orange	12.4328%	12.2835%
Newark	10.3480%	10.3747%	Total	<u>100.0000%</u>	<u>100.0000%</u>

Respectfully submitted,



A. Ralph LaMendola. P.E., BCEE

Joint Meeting of Essex and Union Counties
Annual Report of the Sewer Contribution of the Municipalities
Appendix A
2012 Budget

	Treatment Plant	Dewatering Facility	Drying Facility	Sewer	Total
Electric Service	\$ 937,416	\$ 106,987	\$ 13,926	\$ -	\$ 1,058,329
Gas Service	456,150	20,000	-	-	476,150
Fuel, Oil & Kerosene	181,000	144,500	-	-	325,500
Water Service	229,337	76,446	3,500	-	309,283
Chemicals	1,297,649	922,300	6,800	2,200	2,228,949
Sludge Disposal	-	2,576,496	-	-	2,576,496
Insurance	487,835	97,567	45,531	19,513	650,446
Administration	1,817,832	990,464	10,000	193,601	3,011,897
Labor	5,139,225	837,020	131,515	13,925	6,121,685
Benefits	3,479,347	611,131	52,412	89,564	4,232,454
Equipment	203,000	58,000	-	-	261,000
Printing & Stationery	15,000	2,000	-	1,000	18,000
Maintenance, Supplies & Spare Parts	1,223,167	470,583	5,000	353,750	2,052,500
Screening Disposal	216,000	-	-	-	216,000
Reserve Contingency	106,000	-	-	-	106,000
Miscellaneous Expenses	177,500	87,500	-	120,000	385,000
Technical & Professional Services	602,500	50,000	-	25,000	677,500
Replacement Fund	1,250,000	-	-	-	1,250,000
NJPDES & Miscellaneous Permit Fee:	467,000	12,000	250,000	9,700	738,700
	\$ 18,285,958	\$ 7,062,994	\$ 518,684	\$ 828,253	\$ 26,695,889
	68.50%	26.46%	1.94%	3.10%	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	\$ 2,983,221	80%	\$ 2,386,577	10%	\$ 298,322	10%	\$ 298,322
Power	937,416	40%	\$ 374,966	5%	\$ 46,871	55%	\$ 515,579
Chlorine	717,250	40%	\$ 286,900			60%	\$ 430,350
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	2,782,167	28%	\$ 779,007	27%	\$ 751,185	45%	\$ 1,251,975
Fuel, Oil & Kerosene	181,000	40%	\$ 72,400	30%	\$ 54,300	30%	\$ 54,300
Administration, Labor & Benefits (Payroll Retirement)	10,436,404	40%	4,174,562	10%	\$ 1,043,640	50%	\$ 5,218,202
Sludge Processing 2	248,500			50%	\$ 124,250	50%	\$ 124,250
Total	\$18,285,958		\$ 8,074,412		\$ 2,318,568		\$ 7,892,978
	100%		44.1563521%		12.6794998%		43.1641481%

(1) General Expenditures
(From the Approved Budget)

(2) Sludge Processing

Insurance	\$ 487,835	Polymer	\$ 142,500
Technical & Professional Services	602,500	K2MnO4	106,000
Stationery & Printing	15,000		
Gas	456,150		
Water	229,337		
Miscellaneous	177,500		
Service Contracts	216,000		
Permit Fees	467,000		
Sodium Bisulfite & Misc. Chemicals	331,899		
	<u>\$2,983,221</u>		<u>\$ 248,500</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	\$ 18,285,958	\$ 8,074,412	\$ 2,318,568	\$ 7,892,978
Dewatering Facility	7,062,994		3,531,497	3,531,497
Drying Facility	518,684		259,342	259,342
	<u>\$ 25,867,636</u>	<u>\$ 8,074,412</u>	<u>\$ 6,109,407</u>	<u>\$11,683,817</u>
Subtotal	100.00%	31.2143406%	23.6179564%	45.1677030%
Sewers 1	\$ 828,253			
Total	<u>\$ 26,695,889</u>			

(1) Joint Meeting Members Only

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2012
SUMMARY**

MUNICIPALITY	FLOW (MG)	LOADINGS	
		BOD (tons)	TSS (tons)
HILLSIDE	61.631	396.50012738	37.27574092
IRVINGTON	31.932	38.76744750	15.08031711
MAPLEWOOD	31.589	338.98828635	19.06557777
MURRAY HILL	24.146	12.25209801	4.55738883
ROSELLE PARK	0.729	0.12159720	0.13071699
SUMMIT	73.176	34.75240470	47.68917501
UNION	181.018	292.11180264	164.30935908
<i>MEMBERS TOTAL</i>	404.221	1113.49376378	288.10827571
<i>ELIZABETH</i>	235.373	2687.95017122	519.12299893
GRAND TOTAL	639.594	3801.44393500	807.23127464

MUNICIPALITY	FLOW	COSTS		TOTAL
		BOD	TSS	
HILLSIDE	\$24,593.95	\$291,521.86	\$17,513.89	\$333,629.69
IRVINGTON	\$12,742.48	\$28,503.29	\$7,085.44	\$48,331.20
MAPLEWOOD	\$12,605.60	\$249,236.98	\$8,957.90	\$270,800.48
MURRAY HILL	\$9,635.47	\$9,008.20	\$2,141.27	\$20,784.95
ROSELLE PARK	\$290.91	\$89.40	\$61.42	\$441.73
SUMMIT	\$29,200.91	\$25,551.28	\$22,406.60	\$77,158.79
UNION	\$72,235.30	\$214,771.62	\$77,200.22	\$364,207.14
<i>MEMBERS TOTAL</i>	\$161,304.62	\$818,682.63	\$135,366.74	\$1,115,353.99
<i>ELIZABETH</i>	\$82,362.78	\$1,976,282.39	\$243,908.25	\$2,302,553.43
GRAND TOTAL	\$243,667.40	\$2,750,314.10	\$379,274.99	\$3,417,907.41

JOINT MEETING OF ESSEX & UNION COUNTIES

**INDUSTRIAL USER CHARGE - 2012
COST FACTORS**

	FLOW	BOD	TSS
MEMBER MUNICIPALITIES	\$399.0503644	\$735.2377343	\$469.8467465
ELIZABETH	\$349.9251087	\$735.2377343	\$469.8467465

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$399.0503644	BOD per Ton \$735.2377343	TSS per Ton \$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
1042	GEC Marconi / BAE	1	1	2	6.401	0.0267	0.0534	
	Totals:				6.401	0.0267	0.0534	
	Cost Analysis:				\$2,554.32	\$19.63	\$25.08	\$2,599.03
1050	Manhattan Drug Co.	4	560	355	0.714	1.6673	1.0570	
	Totals:				0.714	1.6673	1.0570	
	Cost Analysis:				\$284.92	\$1,225.89	\$496.61	\$2,007.42
1054	Oasis Foods	3	1963	355	5.200	42.5657	7.6978	
		99	177	143	1.245	0.9189	0.7424	
	Totals:				6.445	43.4846	8.4402	
	Cost Analysis:				\$2,571.88	\$31,971.53	\$3,965.61	\$38,509.02
1058	Quest Industries	2	55	48	0.296	0.0679	0.0592	
		99	177	143	0.005	0.0038	0.0031	
	Totals:				0.301	0.0717	0.0623	
	Cost Analysis:				\$120.19	\$52.74	\$29.29	\$202.22
1090	Union Beverages	1	1872	94	41.832	326.5506	16.3973	
		2	895	1342	1.419	5.2959	7.9409	
	Totals:				43.251	331.8466	24.3382	
	Cost Analysis:				\$17,259.33	\$243,986.11	\$11,435.24	\$272,680.67
1091	Hillside Beverage	2	1270	24	2.645	14.0077	0.2647	
		99	177	143	0.044	0.0325	0.0262	
	Totals:				2.689	14.0401	0.2909	
	Cost Analysis:				\$1,073.05	\$10,322.83	\$136.70	\$11,532.58
1092	A&H Products	1	743	417	1.700	5.2671	2.9561	
		99	177	143	0.130	0.0960	0.0775	
	Totals:				1.830	5.3631	3.0336	
	Cost Analysis:				\$730.26	\$3,943.14	\$1,425.34	\$6,098.74
HILLSIDE TOTALS					61.6312	396.5001	37.2757	
					\$24,593.95	\$291,521.86	\$17,513.89	\$333,629.69

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		
				\$399.0503644	\$735.2377343	\$469.8467465		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
2030	Hi-Speed Plating	1	24	13	0.021	0.0021	0.0011	
		99	177	143	0.062	0.0458	0.0370	
	Totals:				0.083	0.0479	0.0381	
	Cost Analysis:				\$33.12	\$35.19	\$17.91	\$86.22
2066	Wayne County Foods	1	3800	396	0.141	2.2343	0.2328	
		99	177	143	0.256	0.1890	0.1527	
	Totals:				0.397	2.4232	0.3855	
	Cost Analysis:				\$158.42	\$1,781.66	\$181.12	\$2,121.20
2072	Clean-Tex Services	1	208	107	28.376	24.6122	12.6611	
		99	177	143	0.926	0.6835	0.5522	
	Totals:				29.302	25.2957	13.2133	
	Cost Analysis:				\$11,692.97	\$18,598.34	\$6,208.21	\$36,499.52
2076	International Vitamin	1	1227	161	2.15	11.0007	1.4434	
					2.15	11.0007	1.4434	
	Cost Analysis:				\$857.96	\$8,088.11	\$678.20	\$9,624.26
IRVINGTON TOTALS					31.9320	38.7674	15.0803	
					\$12,742.48	\$28,503.29	\$7,085.44	\$48,331.20

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2012

Municipality: MAPLEWOOD

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$399.0503644	\$735.2377343	\$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
3020	Gleason Cleaners	1	216	56	0.688	0.6197	0.1607	
		99	177	143	0.125	0.0923	0.0745	
	Totals:				0.813	0.7120	0.2352	
	Cost Analysis:				\$324.43	\$523.46	\$110.51	\$958.39
3033	NJ Transit - Hilton Gar.	3a	270	242	4.380	4.9314	4.4200	
		4	342	29	3.368	4.8032	0.4073	
	Totals:				7.748	9.7347	4.8273	
	Cost Analysis:				\$3,091.84	\$7,157.31	\$2,268.10	\$12,517.25
3046	UniClean	1	84	19	2.002	0.7013	0.1586	
		99	177	143	0.140	0.1033	0.0835	
	Totals:				2.142	0.8046	0.2421	
	Cost Analysis:				\$854.77	\$591.57	\$113.75	\$1,560.08
3050	Maplewood Beverage	1	3763	158	20.886	327.7371	13.7609	
	Totals:				20.886	327.7371	13.7609	
	Cost Analysis:				\$8,334.57	\$240,964.65	\$6,465.54	\$255,764.75
MAPLEWOOD TOTALS					31.5890	338.9883	19.0656	
					\$12,605.60	\$249,236.98	\$8,957.90	\$270,800.48

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$399.0503644	BOD per Ton \$735.2377343	TSS per Ton \$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5010	Bell Labs / Lucent	1	3	16	16.748	0.2095	1.1174	
	Totals:				16.748	0.2095	1.1174	
	Cost Analysis:				\$6,683.30	\$154.05	\$525.02	\$7,362.36
5011	Baxter Pharmaceutical	1	390	545	0.600	0.9758	1.3636	
	Totals:				0.600	0.9758	1.3636	
	Cost Analysis:				\$239.43	\$717.43	\$640.68	\$1,597.54
5020	Fablok Mills	4	522	86	4.907	10.6813	1.7597	
		99	177	143	0.185	0.1365	0.1103	
	Totals:				5.092	10.8178	1.8701	
	Cost Analysis:				\$2,031.96	\$7,953.66	\$878.64	\$10,864.27
5021	FRC-Electrical Ind	1	35	29	1.706	0.2490	0.2063	
	Totals:				1.706	0.2490	0.2063	
	Cost Analysis:				\$680.78	\$183.07	\$96.93	\$960.78
MURRAY HILL TOTALS					24.1460	12.2521	4.5574	
					\$9,635.47	\$9,008.20	\$2,141.27	\$20,784.95

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 \$399.0503644	BOD per Ton \$735.2377343	TSS per Ton \$469.8467465	
6005	Hexacon Electric	2	40	43		0.729	0.1216	0.1307	
	Totals:					0.729	0.1216	0.1307	
	Cost Analysis:					\$290.91	\$89.40	\$61.42	\$441.73
ROSELLE PARK TOTALS						0.7290	0.1216	0.1307	
						\$290.91	\$89.40	\$61.42	\$441.73

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$399.0503644	\$735.2377343	\$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5511	Novartis Groundwater	4	1	4	0.734	0.0031	0.0122	
	Totals:				0.734	0.0031	0.0122	
	Cost Analysis:				\$292.90	\$2.25	\$5.75	\$300.91
5512	Summit Property Co.	03A	62	86	55.718	14.4053	19.9816	
		99	177	143	3.401	2.5102	2.0281	
	Totals:				59.119	16.9156	22.0096	
	Cost Analysis:				\$23,591.46	\$12,436.97	\$10,341.16	\$46,369.59
5513	Celgene Corporation	1	321	462	13.323	17.8338	25.6673	
	Totals:				13.323	17.8338	25.6673	
	Cost Analysis:				\$5,316.55	\$13,112.06	\$12,059.69	\$30,488.30
SUMMIT TOTALS					73.1760	34.7524	47.6892	
					\$29,200.91	\$25,551.28	\$22,406.60	\$77,158.79

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$399.0503644	BOD per Ton \$735.2377343	TSS per Ton \$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7015	ACuPowder	3 (99)	177	143	0.035	0.0258	0.0209	
		4	128	222	0.616	0.3288	0.5703	
	Totals:				0.651	0.3546	0.5911	
	Cost Analysis:				\$259.78	\$260.74	\$277.74	\$798.26
7035	American Products	1	260	186	0.482	0.5226	0.3738	
	Totals:				0.482	0.5226	0.3738	
	Cost Analysis:				\$192.34	\$384.22	\$175.65	\$752.22
7070	Durex	1	87	226	5.469	1.9841	5.1541	
	Totals:				5.469	1.9841	5.1541	
	Cost Analysis:				\$2,182.41	\$1,458.78	\$2,421.63	\$6,062.83
7077	Siemens Water Technology	4	40	65	3.784	0.6312	1.0257	
	Totals:				3.784	0.6312	1.0257	
	Cost Analysis:				\$1,510.01	\$464.06	\$481.90	\$2,455.97
7080	Foremost Mfg	2	10	159	13.358	0.5570	8.8568	
	Totals:				13.358	0.5570	8.8568	
	Cost Analysis:				\$5,330.51	\$409.55	\$4,161.32	\$9,901.38
7092	International Paint	2	19	32	7.487	0.5932	0.9991	
	Totals:				7.487	0.5932	0.9991	
	Cost Analysis:				\$2,987.69	\$436.14	\$469.41	\$3,893.24
7145	Schering	5	13	17	90.575	4.9101	6.4209	
	Totals:				90.575	4.9101	6.4209	
	Cost Analysis:				\$36,143.99	\$3,610.07	\$3,016.82	\$42,770.88
7155	Tessler & Weiss	22	149	187	1.727	1.0730	1.3467	
	Totals:				1.727	1.0730	1.3467	
	Cost Analysis:				\$689.16	\$788.94	\$632.74	\$2,110.84
7167	Turbo Braze	1	112	119	0.636	0.2970	0.3156	
	Totals:				0.636	0.2970	0.3156	
	Cost Analysis:				\$253.80	\$218.39	\$148.28	\$620.47

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 \$399.0503644	BOD per Ton \$735.2377343	TSS per Ton \$469.8467465	
7191	Cintas	1	280	342		31.985	37.3457	45.6151	
		Totals:				31.985	37.3457	45.6151	
		Cost Analysis:				\$12,763.63	\$27,457.96	\$21,432.10	\$61,653.68
7192	Merril Corporation	1	377	372		0.819	1.2875	1.2705	
		Totals:				0.819	1.2875	1.2705	
		Cost Analysis:				\$326.82	\$946.65	\$596.92	\$1,870.40
7193	Lioni Latticini	1	4311	1276		9.244	166.1782	49.1866	
		99	177	143		0.309	0.2281	0.1843	
		Totals:				9.553	166.4063	49.3708	
		Cost Analysis:				\$3,812.13	\$122,348.16	\$23,196.73	\$149,357.02
7194	BASF Catalysts	1	38	103		0.069	0.0109	0.0296	
		99	177	143		1.545	1.1403	0.9213	
		Totals:				1.614	1.1513	0.9509	
		Cost Analysis:				\$644.07	\$846.47	\$446.79	\$1,937.33
7195	Deep Foods	1	1414	790		12.677	74.7484	41.7618	
		2	298	306		0.201	0.2498	0.2565	
		Totals:				12.878	74.9982	42.0183	
		Cost Analysis:				\$5,138.97	\$55,141.49	\$19,742.17	\$80,022.64
UNION TOTALS						181.0180	292.1118	164.3094	
						\$72,235.30	\$214,771.62	\$77,200.22	\$364,207.14

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2011

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$349.9251087	BOD per Ton \$735.2377343	TSS per Ton \$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
0033	Cargill Flavor Systems	1	2671	246	0.234	2.6063	0.2400	
	Totals:				0.234	2.6063	0.2400	
	Cost Analysis:				\$81.88	\$1,916.26	\$112.78	\$2,110.92
0037	Deb-El Foods	1	1779	321	3.920	29.0802	5.2472	
	Totals:				3.920	29.0802	5.2472	
	Cost Analysis:				\$1,371.71	\$21,380.89	\$2,465.38	\$25,217.98
0062	Garcia Laundry	2	796	267	2.691	8.9323	2.9961	
		99	177	143	0.114	0.0841	0.0680	
	Totals:				2.805	9.0164	3.0641	
	Cost Analysis:				\$981.54	\$6,629.22	\$1,439.66	\$9,050.42
0067	Actavis (formerly Purepac)	3	1132	137	18.238	86.0914	10.4192	
	Totals:				18.238	86.0914	10.4192	
	Cost Analysis:				\$6,381.93	\$63,297.63	\$4,895.42	\$74,574.99
0070	LORCO	2	7575	33	22.960	725.2547	3.1595	
	Totals:				22.960	725.2547	3.1595	
	Cost Analysis:				\$8,034.28	\$533,234.65	\$1,484.49	\$542,753.43
0075	Mastercraft Electroplating	99	177	143	0.028	0.0207	0.0167	
	Totals:				0.028	0.0207	0.0167	
	Cost Analysis:				\$9.80	\$15.19	\$7.84	\$32.84
0078	Magnolia Beef	1	1315	340	0.167	0.9158	0.2368	
		99	177	143	0.247	0.1823	0.1473	
	Totals:				0.414	1.0981	0.3841	
	Cost Analysis:				\$144.87	\$807.34	\$180.45	\$1,132.65
0093	OENJ	4	4	37	10.564	0.1762	1.6299	
	Totals:				10.564	0.1762	1.6299	
	Cost Analysis:				\$3,696.61	\$129.55	\$765.81	\$4,591.98
0098	Olympia Trails	1	425	261	2.397	4.2481	2.6088	
		99	177	143	0.507	0.3742	0.3023	
	Totals:				2.904	4.6223	2.9112	
	Cost Analysis:				\$1,016.18	\$3,398.49	\$1,367.80	\$5,782.46
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	177	143	0.505	0.3727	0.3011	
	Totals:				88.524	927.5047	244.1506	
	Cost Analysis:				\$30,976.77	\$681,936.42	\$114,713.37	\$827,626.56

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	
					\$349.9251087	\$735.2377343	\$469.8467465	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
0105	Michaels Foods - Papetti Plaza Facility	2	3626	996	52.540	794.4269	218.2154	
		2a	2463	358	6.198	63.6579	9.2527	
		2b	2117	349	1.326	11.7058	1.9298	
		3	429	687	0.223	0.3989	0.6388	
		Totals:			60.287	870.1894	230.0368	
	Cost Analysis:				\$21,095.94	\$639,796.11	\$108,082.04	\$768,974.09
0120	Phelps Dodge	99	177	143	0.274	0.2022	0.1634	
		Totals:			0.274	0.2022	0.1634	
		Cost Analysis:			\$95.88	\$148.69	\$76.77	\$321.34
0148	Superior Powder Coating	1	80	49	2.854	0.9521	0.5832	
		99	177	143	0.419	0.3093	0.2499	
		Totals:			3.273	1.2614	0.8330	
		Cost Analysis:			\$1,145.30	\$927.40	\$391.39	\$2,464.09
0155	Duro Bag	1	277	119	5.623	6.4951	2.7903	
		2	64	79	4.077	1.0881	1.3431	
		3	320	398	0.524	0.6992	0.8697	
		Totals:			10.224	8.2824	5.0030	
		Cost Analysis:			\$3,577.63	\$6,089.51	\$2,350.67	\$12,017.81
0165	Wakefern Food Corp.	2	192	191	2.261	1.8102	1.8008	
		3a	406	314	3.803	6.4386	4.9796	
		4	198	294	0.529	0.4368	0.6485	
		99 (7)	177	143	0.424	0.3130	0.2528	
		Totals:			7.017	8.9985	7.6818	
		Cost Analysis:			\$2,455.42	\$6,616.06	\$3,609.25	\$12,680.74
0178	814 Americas	3	334	211	2.809	3.9123	2.4716	
		99	177	143	0.039	0.0288	0.0233	
		Totals:			2.848	3.9411	2.4948	
		Cost Analysis:			\$996.59	\$2,897.65	\$1,172.18	\$5,066.41
0189	Prince Donut Co.	3	3084	524	0.740	9.5166	1.6170	
		99	177	143	0.119	0.0875	0.0707	
		Totals:			0.859	9.6041	1.6877	
		Cost Analysis:			\$300.45	\$7,061.33	\$792.95	\$8,154.73
ELIZABETH TOTALS					235.3726	2,687.9502	519.1230	
					\$82,362.78	\$1,976,282.39	\$243,908.25	\$2,302,553.43