

December 20, 2013

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 2014)

I present herewith the 79<sup>th</sup> 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, 2012 through October 31, 2013. 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 2014. 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 2013, 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 21, 2012.

During 2013, 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 (2014) dwelling unit figures formulated by each municipality in 2013.

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, 2012, through October 31, 2013 and projected for a twelve (12) month period in 2014. 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 2014, 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, 2012, through October 31, 2013, and projected for 2014 and are based upon actual 2012-2013 operating statistics as well as a recent upgraded 2013 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	19,545.4650 MG/Year	53.5492 MGD
2.	BOD	15,614.3904 Tons/Year	85,558.3036 Lbs/Day
	TSS	14,138.9999 Tons/Year	77,473.9721 Lbs/Day

3.	Estimated Industrial Flow	578.6670 MG/Year	1.5854 MGD
4.	Estimated Industrial BOD	3,658.7497 Tons/Year	20,047.9436 Lbs/Day
5.	Estimated Industrial TSS	579.8963 Tons/Year	3,177.5140 Lbs/Day
6.	Estimated Total Operating Expenses in 2014		

\$21,798,977	STP
6,886,738	SDWF
301,080	SDF
1,042,306	Sewers
<hr/>	
\$30,029,101	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	33.7244494%
BOD	44.6501657%
Suspended Solids	21.6253849%

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 2014 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 2014**

**Treatment Plant**

	<u>Total for 2014</u>	<u>Domestic &amp; Commercial</u>	<u>Industrial</u>
Flow	19,545.4650 MG/Yr. <sup>1</sup>	18,966.7980 MG/Yr.	578.6670 MG/Yr.
BOD	15,614.3904 Tons/Yr. <sup>1</sup>	11,955.6407 Tons/Yr.	3,658.7497 Tons/Yr.
Suspended Solids	14,138.9999 Tons/Yr. <sup>1</sup>	13,559.1036 Tons/Yr.	579.8963 Tons/Yr.

(1) Based upon data from November 1, 2012 thru October 31, 2013 (365 days)

**Cost Allocation**

	<u>Total for 2014</u>	<u>Domestic &amp; Commercial</u>	<u>Industrial</u>
Flow	\$9,775,637.00	\$9,486,218.00	\$289,419.00
BOD	12,942,652.00	9,909,942.00	3,032,710.00
Suspended Solids	6,268,506.00	6,011,410.00	257,096.00
	\$28,986,795.00	\$25,407,570.00	\$3,579,225.00
	100.000000%	87.65222230%	12.34777770%

**Elizabeth Contribution**

Flow	-	5,183.7420 MG/Yr.
BOD	-	6,224.4995 Tons/Yr.
TSS	-	3,692.4336 Tons/Yr.

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

<u>Total for 2014</u>	<u>Domestic &amp; Commercial</u>	<u>Industrial</u>
14,361.7230 MG/Yr. <sup>2</sup>	13,963.0910 MG/Yr.	398.632 MG/Yr.

(1) Based upon data from November 1, 2012 thru October 31, 2013 (365 days)

(2) (19,545.465 - 5,183.7420)

**COST ALLOCATION**

\$1,042,306.00	\$1,013,375.17	\$28,930.83
----------------	----------------	-------------

Member municipalities will be assessed \$6.69 (\$1,013,375.17/151,474) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$500.15 per MG for flow, \$828.89 per ton of BOD, and \$443.89 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	\$289,419.00	/	578.6670	=	\$500.1477534 /MG
BOD	\$3,032,710.00	/	3,658.7497	=	\$828.8924492 /Ton
Suspended Solids	\$257,096.00	/	579.8963	=	\$443.3482331 /Ton

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$72.63/MG of flow for trunk sewer use ( $\$28,930.83/398.632 = \$72.632/\text{MG}$ ). This brings the total flow cost to \$572.78/MG ( $\$500.148 + \$72.63$ ) for the indicated industries of member municipalities.

Based upon the user charges for 2014, 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 2013 industrial waste survey of the service area. These are estimates for 2014 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 \$30,029,102.00 for 2014. However, it should be noted that in accordance with the Agreement between the Joint Meeting and the City of Elizabeth noted previously, and as a result of the monitoring of the Trenton Avenue Pumping Station, the City would provide for 34.1765238% 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**  
**2014**

<u>Municipality</u>	<u>Dwelling Units <sup>1</sup></u>	<u>User Charges Industrial</u>
East Orange	7,215	\$ -
Hillside	8,543	324,693
Irvington	26,957	858,213
Maplewood	9,585	9,851
Millburn	9,851 <sup>4</sup>	-
Newark	17,427	-
Roselle Park	4,752	682
South Orange	7,988	-
Summit	14,084 <sup>2</sup>	76,234 <sup>3</sup>
Union	24,995	351,589
West Orange	20,077	-
Elizabeth	47,181	1,986,898
	<u>198,655</u>	<u>\$ 3,608,160</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 (3515)

(3) Includes Murray Hill

(4) Includes Livingston (402)

**Table III**  
**Joint Meeting of Essex and Union Counties**  
**Computation of Estimated Percent**  
**Contribution By City of Elizabeth**  
**For Period 11/1/2012-10/31/2013 and Projected Contribution for 2014**

Flow:	Treatment Plant	Elizabeth Pumping Station		Joint Meeting	
	19,545.465 MG	5,183.742 MG		14,361.723 MG	
		<i>Industrial</i>	<i>D&amp;C</i>	<i>Industrial</i>	<i>D&amp;C</i>
		161.457	5,022.285	398.632	13,963.091
		\$ 80,752.36	\$ 2,511,884.56	\$ 228,305.73	\$ 7,996,983.87

Unit Charge \$ 500.1477534 Per MG for Elizabeth

Unit Charge \$ 572.7230359 Per MG for Joint Meeting

<b>BOD:</b>	15,614.3904 Tons	6,224.4995 Tons		9,389.8909 Tons	
		<i>Industrial</i>	<i>D&amp;C</i>	<i>Industrial</i>	<i>D&amp;C</i>
		2,055.129	4,169.3705	1,540.8698	7,849.0211
		\$ 1,703,480.91	\$ 3,455,959.73	\$ 1,277,215.34	
Unit Charge	\$828.8924492 Per Ton				
<b>TSS:</b>	14,138.9999 Tons	3,692.4336 Tons		10,446.5663 Tons	
		<i>Industrial</i>	<i>D&amp;C</i>	<i>Industrial</i>	<i>D&amp;C</i>
		306.6023	3,385.8313	261.0537	10,185.5126
		\$ 135,931.59	\$ 1,501,102.32	\$ 115,737.70	
Unit Charge	\$443.3482331 Per Ton				
			\$ 9,389,111.47	\$ 1,621,258.77	

City of Elizabeth (Contribution from Pumping Station) \$ 9,389,111.47

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

<b>Flow:</b>	18.5780 MG/Year at	\$ 500.1477534	9,291.74
<b>BOD:</b>	62.7509 Tons/Year at	828.8924492	52,013.75
<b>TSS:</b>	12.2403 Tons/Year at	443.3482331	5,426.72

Joint Meeting Industrial	1,621,258.77
Subtotal	\$ 11,077,102.45

Total 2014 Budget	\$ 30,029,101.00
Subtotal (above)	(11,077,102.45)
Subtotal (EDU's)	\$ 18,951,998.55

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 18,951,999  
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)  
 151,474 (X + \$6.690093151) + 3905 (X) = \$ 18,951,999

Equivalent Units-Member Municipalities 151,474

Elmora EDU's = 3,905 \$115.4507583390 Per Unit = X  
 \$122.1408514900 Per Unit = X+Y

Joint Meeting EDU Assessment \$ 18,501,163.34  
 Elmora Area Assessment \$ 450,835.21

Total Anticipated Payment from the City of Elizabeth

Pumping Station	\$ 9,389,111.47
Elmora EDU's	450,835.21
Elmora Industrial	66,732.21
	<hr/>
	\$ 9,906,678.89

Total Anticipated Payment from Member Municipalities

EDU's	18,501,163.34
Industrial	1,621,258.77
	<hr/>
	\$ 20,122,422.11

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

\$ 9,906,678.89 / \$ 28,986,795.00 = 34.1765238%



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

Municipality	Base Year - 1982		Base Year - 1982		Base Year - 1982		Base Year - 1982	
	Capacity By Contract	Capacity By Contract	Phase IIB - SSES <sup>1</sup>	Infiltration	SSES - November 2013	Inflow	Phase IIB - SSES <sup>2</sup>	SSES - November 2013
	(MGD)	(Percent)	(GPD) <sup>3</sup>	(Percent)	(GPD) <sup>4</sup>	(Percent)	(GPD)	(Percent)
East Orange	5.50	4.88%	70,747	2.11%	32,773	2.18%	3,007,440	5.79%
Hillside	12.20	10.83%	79,012	2.36%	24,655	1.64%	1,185,120	2.28%
Irvington	18.61	16.52%	1,115,672	33.31%	593,981	39.51%	8,612,640	16.57%
Maplewood	7.08	6.29%	389,078	11.62%	148,683	9.89%	5,449,680	10.48%
Millburn	6.00	5.33%	191,609	5.72%	113,504	7.55%	2,729,520	5.25%
Newark	15.50	13.76%	234,484	7.00%	137,558	9.15%	1,959,540	3.77%
Roselle Park	9.44	8.38%	106,187	3.17%	48,559	3.23%	1,576,080	3.03%
South Orange	7.00	6.22%	410,876	12.27%	62,540	4.16%	2,183,760	4.20%
Summit	7.50	6.66%	171,657	5.13%	83,906	3.22%	3,651,120	7.02%
Union	10.30	9.14%	329,127	9.83%	48,409	11.80%	1,764,720	27.96%
West Orange	13.50	11.99%	250,811	7.48%	238,013	7.68%	14,534,640	13.65%
					115,459		6,332,300	
					1,503,519		38,944,031	
	112.63	100.00%	3,349,260	100.00%	2,017,045	100.01%	51,986,580	100.00%
							41,452,120	100.00%

(1) Identified by Hazen & Sawyer Phase IIB SSES (pg. S-2) with trunk sewer infiltration allocated based on contract capacity.

(2) Identified by Hazen & Sawyer Phase IIB SSES (pg. S-3)

(3) "Base Year - 1982" Infiltration: 3.35 MGD / 52.79 MGD = 6.346%

(4) 2013 - Infiltration related to base year total = 2.017 MGD / 52.79 MGD = 3.82079939%

- Adjusted for period 11/1/2012 - 10/31/2013; (3.82079939% x 14,361,7230 = 548.73 MG / Year / 365 = 1,503,519 GPD)

(5) 2013 inflow adjusted for period 11/1/2012 - 10/31/2013 - (31.21" / 33.22") x (41,452,120 ) = 38,944,031 GPD

Table IV - A  
Joint Meeting of Essex and Union Counties  
Adjusted 2013 - Summary of Infiltration and Inflow

Municipality	Phase IIB		2013		Phase IIB		2012		2013		2013	
	SSES	Infiltration (GPD)	2012	Infiltration (GPD)	2013	Infiltration (GPD)	2012	Infiltration (GPD)	2013	Infiltration (GPD)	2013	Inflow Removed (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	
Irvington	1,115,672		797,026	-	797,026	8,612,640	7,610,400	-	7,610,400	-	7,610,400	
Maplewood	389,078		199,485	-	199,485	5,449,680	2,134,800	-	2,134,800	-	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	1,972,080	29,520	1,942,560			
Summit	171,657		64,916	-	64,916	3,651,120	1,775,520	10,800	1,764,720			
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	41,492,440	40,320	41,452,120			

Table V

## Joint Meeting of Essex and Union Counties

Cost Allocation - Flow, BOD & TSS with Infiltration / Inflow				Domestic & Commercial		Industrial	
		Total					
Flow		14,361.7230 MG		13,963.0910 MG		398.6320 MG	
		\$7,707,745.74		\$7,479,440.01		\$228,305.73	
Infiltration	3.8207994%	548.73		533.50	\$285,773.49	15.23	
Inflow	8.9622255%	1,287.13		1,251.40	\$670,322.30	35.73	
BOD	at \$828.8924492 Per Ton	9,389.8909 Tons		7,849.0211 Tons		1,540.8698 Tons	
		\$7,783,209.67		\$6,505,994.32		\$1,277,215.34	
TSS	at \$443.3482331 Per Ton	10,446.5663 Tons		10,185.5126 Tons		261.0537 Tons	
		\$4,631,466.71		\$4,515,729.01		\$115,737.70	
Total		\$20,122,422.12 <sup>1</sup>		\$18,501,163.34		\$1,621,258.77	
(1) Amount anticipated from Members after allocation of				34.1765238% to City of Elizabeth	\$ 9,906,678.89		
"Base Year - 1982"				6.34590% (Per H&S Phase IIB Report)			
Infiltration: 3.35 MGD / 52.79 MGD =				82.4817518% 1 inch of rain = 50 mg of inflow (Per H&S Phase IIB Report)			
Inflow:	113 MGD (Excluding Elizabeth) / 137 MGD (Total) =						
"2012 - 2013"							
Infiltration:	2.017 MGD/52.79MGD =	3.82079939%	X	14,361.7230	548.73 MG / Year		
				(November 1, 2012 - October 31, 2013)			
Inflow:	Rainfall = 31.21 Inches X 50 MG X 82.482%			1,287.13	MG / Year		
Total D&C		\$18,501,163.34					
Less: Infiltration		(285,773.49)					
Less: Inflow		(670,322.30)					
Net after infiltration and inflow		\$17,545,067.55					
Equivalent Dwelling Units		151,474					
User Charge Per Unit		\$115.82890496059					

Table VI  
Joint Meeting of Essex and Union Counties  
Estimated Annual Operation Expenses To Member Municipalities  
2014

Domestic & Commercial									
Municipality	Dwelling Units	User Charge		Infiltration		Inflow		Total Cost	Unit Cost
		\$ 115.82890496	Per Unit	Percent <sup>1</sup>	Amount	Percent <sup>2</sup>	Amount		
East Orange	7,215		\$835,705.55	2.18%	\$6,229.86	0.53%	\$3,552.71	\$845,488.12	\$117.1848
Hillside	8,543		989,526.34	1.64%	4,686.69	2.86%	19,171.22	1,013,384.25	118.6216
Irvington	26,957		3,122,399.79	39.51%	112,909.11	18.36%	123,071.17	3,358,380.07	124.5829
Maplewood	9,585		1,110,220.05	9.89%	28,263.00	5.15%	34,521.60	1,173,004.65	122.3792
Millburn	9,851 <sup>3</sup>		1,141,030.54	7.55%	21,575.90	5.75%	38,543.53	1,201,149.97	121.9318
Newark	17,427		2,018,550.33	9.15%	26,148.27	4.71%	31,572.18	2,076,270.78	119.1410
Roselle Park	4,752		550,418.96	3.23%	9,230.48	3.80%	25,472.25	585,121.69	123.1317
South Orange	7,988		925,241.29	4.16%	11,888.18	4.69%	31,438.12	968,567.59	121.2528
Summit	14,084 <sup>4</sup>		1,631,334.30	3.22%	9,201.91	4.26%	28,555.73	1,669,091.94	118.5098
Union	24,995		2,895,143.48	11.80%	33,721.27	33.63%	225,429.39	3,154,294.14	126.1970
West Orange	20,077		2,325,496.92	7.68%	21,947.40	16.26%	108,994.41	2,456,438.73	122.3509
	151,474		\$17,545,067.55	100.01%	\$285,802.07	100.00%	\$670,322.31	\$18,501,191.93	\$122.1410
									\$125.0975 2013
									\$103.1856 2012
									\$97.1815 2011
									\$100.7932 2010

(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 (402)

(4) Includes New Providence (3515)

(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 (402)

(4) Includes New Providence (3515)

Table VI (Continued)  
Joint Meeting of Essex and Union Counties  
Estimated Annual Operation Expenses To Member Municipalities  
2014

Municipality	Industrial										
	BOD (Tons / Year)	BOD <sup>1</sup> (\$/Year)	TSS (Tons / Year)	TSS <sup>2</sup> (\$/Year)	Flow (MG / Year)			Inflow 8.962225%	Total 3.820799%	Flow <sup>3</sup> (\$/Year)	Total Cost
					Dry Weather	Infiltration					
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	319.3745	264,727.11	38.3685	17,010.61	65.41	2.87	6.72	75.00	42,954.80	324,692.52	
Irvington	952.0723	789,165.54	39.4244	17,478.74	78.53	3.44	8.07	90.04	51,567.98	858,212.26	
Maplewood	6.3973	5,302.67	2.5598	1,134.88	5.20	0.23	0.53	5.96	3,412.86	9,850.41	
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	0.1290	106.93	0.1548	68.63	0.77	0.03	0.08	0.88	506.29	681.85	
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 <sup>4</sup>	28.6204	23,723.23	26.7360	11,853.36	61.91	2.71	6.36	70.99	40,655.89	76,232.48	
Union	234.2763	194,189.86	153.8102	68,191.48	135.85	5.95	13.96	155.76	89,207.91	351,589.25	
West Orange	0.0000	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,540.8698	\$1,277,215.34	261.0537	\$115,737.70	347.67	15.23	35.73	398.63	\$228,305.73	\$1,621,258.77	

- (1) At \$828.8924492/Ton  
(2) At \$443.348231/Ton  
(3) At \$572.7230359/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**  
**2014**

Municipality	Total Assessments <sup>1</sup>	Domestic & Commercial			
		User Charge Domestic Sewage 115.828905	User Charges Industrial	Infiltration / Inflow Charges	Assessment Percentage
East Orange	\$845,488.12	\$835,705.55	\$0.00	\$9,782.57	4.2017%
Hillside	1,338,076.77	989,526.34	324,692.52	23,857.91	6.6497%
Irvington	4,216,592.33	3,122,399.79	858,212.26	235,980.28	20.9547%
Maplewood	1,182,855.06	1,110,220.05	9,850.41	62,784.60	5.8783%
Millburn	1,201,149.97	1,141,030.54	0.00	60,119.43	5.9692%
Newark	2,076,270.78	2,018,550.33	0.00	57,720.45	10.3182%
Roselle Park	585,803.54	550,418.96	681.85	34,702.73	2.9112%
South Orange	968,567.59	925,241.29	0.00	43,326.30	4.8134%
Summit	1,745,324.42	1,631,334.30	76,232.48	37,757.64	8.6735%
Union	3,505,883.39	2,895,143.48	351,589.25	259,150.66	17.4227%
West Orange	2,456,438.73	2,325,496.92	0.00	130,941.81	12.2074%
	<u>\$20,122,450.70</u>	<u>\$17,545,067.55</u>	<u>\$1,621,258.77</u>	<u>\$956,124.38</u>	<u>100.0000%</u>
Elizabeth	9,906,651.30				
<b>Total</b>	<u><b>\$30,029,102.00</b></u>				

(1) Reflects anticipated payment of \$9,906,651.30 from the City of Elizabeth which is 34.1765238% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2014 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 2014 Assessment with 2013 Assessment**

<b>Municipality</b>	<b>2013</b>	<b>2014</b>		<b>Comparison</b>	
				<b>Amount</b>	<b>Percentage</b>
East Orange	\$867,024.73	\$845,488.12	(-)	(\$21,536.61)	-2.48%
Hillside	1,598,364.88	1,338,076.77	(-)	(260,288.11)	-16.28%
Irvington	3,513,760.55	4,216,592.33	(+)	702,831.78	20.00%
Maplewood	1,591,145.57	1,182,855.06	(-)	(408,290.51)	-25.66%
Millburn	1,228,395.93	1,201,149.97	(-)	(27,245.96)	-2.22%
Newark	2,128,022.38	2,076,270.78	(-)	(51,751.60)	-2.43%
Roselle Park	599,921.18	585,803.54	(-)	(14,117.64)	-2.35%
South Orange	994,330.15	968,567.59	(-)	(25,762.56)	-2.59%
Summit	1,812,322.82	1,745,324.42	(-)	(66,998.40)	-3.70%
Union	3,600,291.51	3,505,883.39	(-)	(94,408.12)	-2.62%
West Orange	2,516,336.30	2,456,438.73	(-)	(59,897.57)	-2.38%
	<u>\$20,449,916.00</u>	<u>\$20,122,450.70</u>	(-)	<u>(\$327,465.30)</u>	<u>-1.60%</u>
Elizabeth	10,819,077.01	9,906,651.30	(-)	\$ (912,425.71)	-8.43%
<b>Total</b>	<b><u>\$31,268,993.01</u></b>	<b><u>\$30,029,102.00</u></b>	<b>(-)</b>	<b><u>(\$1,239,891.01)</u></b>	<b><u>-3.97%</u></b>

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

City of Elizabeth percentage	
2010	34.62822260%
2011	38.46028870%
2012	38.46747020%
2013	35.5058206%

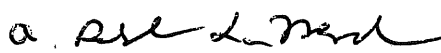
Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2014 as a result of the Agreement with the City of Elizabeth which requires 34.1765238% of the 2014 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 34.1765238 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 2013.

### **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 2014 are apportioned as follows:

	<u>2014</u>	<u>2013</u>		<u>2014</u>	<u>2013</u>
East Orange	4.2017%	4.2397%	Roselle Park	2.9112%	2.9336%
Hillside	6.6497%	7.8160%	South Orange	4.8134%	4.8623%
Irvington	20.9547%	17.1823%	Summit	8.6735%	8.8623%
Maplewood	5.8783%	7.7807%	Union	17.4227%	17.6054%
Millburn	5.9692%	6.0069%	West Orange	12.2074%	12.3048%
Newark	10.3182%	10.4060%	<b>Total</b>	<b><u>100.0000%</u></b>	<b><u>100.0000%</u></b>

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**  
**2014 Budget**

	<b>Treatment Plant</b>	<b>Dewatering Facility</b>	<b>Drying Facility</b>	<b>Sewer</b>	<b>Total</b>
Electric Service	\$ 844,000	\$ 111,000	\$ 5,000	\$ -	\$ 960,000
Gas Service	645,200	120,000	-	-	765,200
Fuel, Oil & Kerosene	188,500	75,500	-	-	264,000
Water Service	150,000	85,000	3,500	-	238,500
Chemicals	1,951,625	655,900	6,800	2,200	2,616,525
Sludge Disposal	-	2,148,480	-	-	2,148,480
Insurance	541,500	108,000	50,500	22,000	722,000
Administration	3,952,686	1,145,504	10,000	222,933	5,331,123
Labor	5,100,000	1,050,000	135,000	16,000	6,301,000
Benefits	3,978,766	687,104	85,280	52,723	4,803,873
Equipment	332,200	87,000	-	-	419,200
Printing & Stationery	21,000	2,000	-	1,000	24,000
Maintenance, Supplies & Spare Parts	1,261,500	461,750	5,000	570,750	2,299,000
Screening Disposal	160,000	-	-	-	160,000
Reserve Contingency	115,000	-	-	-	115,000
Miscellaneous Expenses	177,500	87,500	-	120,000	385,000
Technical & Professional Services	662,500	50,000	-	25,000	737,500
Replacement Fund	1,250,000	-	-	-	1,250,000
NJPDES & Miscellaneous Permit Fee:	467,000	12,000	-	9,700	488,700
	<b>\$ 21,798,977</b>	<b>\$ 6,886,738</b>	<b>\$ 301,080</b>	<b>\$ 1,042,306</b>	<b>\$ 30,029,101</b>
	72.59%	22.93%	1.00%	3.48%	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	\$ 3,729,525	80%	\$ 2,983,620	10%	\$ 372,953	10%	\$ 372,952
Power	844,000	40%	\$ 337,600	5%	\$ 42,200	55%	\$ 464,200
Chlorine	845,000	40%	\$ 338,000			60%	\$ 507,000
Maintenance, Equipment, Supplies, Spare Parts, & Replacement Fund	2,958,700	28%	\$ 828,436	27%	\$ 798,849	45%	\$ 1,331,415
Fuel, Oil & Kerosene	188,500	40%	\$ 75,400	30%	\$ 56,550	30%	\$ 56,550
Administration, Labor & Benefits (Payroll Retirement)	13,031,452	40%	5,212,581	10%	\$ 1,303,145	50%	\$ 6,515,726
Sludge Processing 2	201,800			50%	\$ 100,900	50%	\$ 100,900
Total	\$21,798,977		\$ 9,775,637		\$ 2,674,597		\$ 9,348,743
	100%		44.8444760%		12.2693693%		42.8861547%

(1) General Expenditures  
(From the Approved Budget)

Insurance	\$ 541,500
Technical & Professional Services	662,500
Stationery & Printing	21,000
Gas	645,200
Water	150,000
Miscellaneous	177,500
Service Contracts	160,000
Permit Fees	467,000
Sodium Bisulfite & Misc. Chemicals	904,825
	<u>\$3,729,525</u>

(2) Sludge Processing

Polymer	\$ 170,000
K2MnO4	31,800
	<u>\$ 201,800</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	\$ 21,798,977	\$ 9,775,637	\$ 2,674,597	\$ 9,348,743
Dewatering Facility	6,886,738		3,443,369	3,443,369
Drying Facility	301,080		150,540	150,540
	<u>\$ 28,986,795</u>	<u>\$ 9,775,637</u>	<u>\$ 6,268,506</u>	<u>\$12,942,652</u>
Subtotal	100.00%	33.7244494%	21.6253849%	44.6501657%
Sewers 1	\$ 1,042,306			
Total	<u>\$ 30,029,101</u>			

(1) Joint Meeting Members Only

**JOINT MEETING OF ESSEX & UNION COUNTIES**

**INDUSTRIAL USER CHARGE - 2014  
SUMMARY**

<b>MUNICIPALITY</b>	<b>FLOW (MG)</b>	<b>LOADINGS</b>	
		<b>BOD (tons)</b>	<b>TSS (tons)</b>
HILLSIDE	75.001	319.37445366	38.36845773
IRVINGTON	90.040	952.07229233	39.42441265
MAPLEWOOD	5.959	6.39728874	2.55983790
MURRAY HILL	19.020	9.28769922	5.22321273
ROSELLE PARK	0.884	0.12901980	0.15482376
SUMMIT	51.967	19.33272882	21.51282567
UNION	155.761	234.27633375	153.81022899
<i>MEMBERS TOTAL</i>	398.632	1540.86981632	261.05379943
<i>ELIZABETH</i>	180.035	2117.87986203	318.84263897
<b>GRAND TOTAL</b>	578.666	3658.74967835	579.89643840

<b>MUNICIPALITY</b>	<b>FLOW</b>	<b>COSTS</b>		
		<b>BOD</b>	<b>TSS</b>	<b>TOTAL</b>
HILLSIDE	\$42,954.80	\$264,727.07	\$17,010.59	\$324,692.46
IRVINGTON	\$51,567.87	\$789,165.53	\$17,478.74	\$858,212.15
MAPLEWOOD	\$3,412.86	\$5,302.66	\$1,134.90	\$9,850.42
MURRAY HILL	\$10,893.19	\$7,698.50	\$2,315.70	\$20,907.40
ROSELLE PARK	\$506.29	\$106.94	\$68.64	\$681.87
SUMMIT	\$29,762.70	\$16,024.75	\$9,537.67	\$55,325.12
UNION	\$89,207.91	\$194,189.88	\$68,191.49	\$351,589.29
<i>MEMBERS TOTAL</i>	\$228,305.61	\$1,277,215.36	\$115,737.74	\$1,621,258.71
<i>ELIZABETH</i>	\$90,043.85	\$1,755,494.63	\$141,358.32	\$1,986,896.80
<b>GRAND TOTAL</b>	\$318,349.47	\$3,032,709.98	\$257,096.06	\$3,608,155.51

**JOINT MEETING OF ESSEX & UNION COUNTIES**

**INDUSTRIAL USER CHARGE - 2014  
COST FACTORS**

	<b>FLOW</b>	<b>BOD</b>	<b>TSS</b>
<b>MEMBER MUNICIPALITIES</b>	\$572.7230359	\$828.8924492	\$443.3482331
<b>ELIZABETH</b>	\$500.1477534	\$828.8924492	\$443.3482331

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: HILLSIDE

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$572.7230359	BOD per Ton \$828.8924492	TSS per Ton \$443.3482331	
1042	GEC Marconi / BAE	1	2	3					
	Totals:					7.355	0.0613	0.0920	
	Cost Analysis:					7.355	0.0613	0.0920	
						\$4,212.38	\$50.84	\$40.79	\$4,304.02
1050	Manhattan Drug Co.	4	706	438					
	Totals:					0.704	2.0726	1.2858	
	Cost Analysis:					0.704	2.0726	1.2858	
						\$403.20	\$1,717.95	\$570.07	\$2,691.22
1094	Oasis Foods	3	1267	335					
	(AAK Inc.)	99	198	177					
	Totals:					8.089	42.7373	11.2999	
	Cost Analysis:					1.059	0.8744	0.7816	
						9.148	43.6117	12.0816	
						\$5,239.27	\$36,149.42	\$5,356.34	\$46,745.03
1058	Quest Industries	2	69	61					
		99	198	177					
	Totals:					0.394	0.1134	0.1002	
	Cost Analysis:					0.005	0.0041	0.0037	
						0.399	0.1175	0.1039	
						\$228.52	\$97.39	\$46.07	\$371.98
1090	Union Beverages	1	1172	97					
		2	153	164					
	Totals:					51.109	249.7819	20.6731	
	Cost Analysis:					1.443	0.9206	0.9868	
						52.552	250.7026	21.6599	
						\$30,097.74	\$207,805.49	\$9,602.89	\$247,506.12
1091	Hillside Beverage	2	2030	44					
		99	198	177					
	Totals:					2.101	17.7852	0.3855	
	Cost Analysis:					0.135	0.1115	0.0996	
						2.236	17.8966	0.4851	
						\$1,280.61	\$14,834.39	\$215.08	\$16,330.08
1092	A&H Products	1	468	249					
		99	198	177					
	Totals:					2.451	4.7833	2.5449	
	Cost Analysis:					0.156	0.1288	0.1151	
						2.607	4.9121	2.6601	
						\$1,493.09	\$4,071.58	\$1,179.35	\$6,744.02
HILLSIDE TOTALS						75.0010	319.3745	38.3685	
						\$42,954.80	\$264,727.07	\$17,010.59	\$324,692.46

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: IRVINGTON

IU #	INDUSTRY	SITE	Concentration	Cost Factors				ANNUAL PAYMENT
				Flow per MG	BOD per Ton	TSS per Ton		
				\$572.7230359	\$828.8924492	\$443.3482331		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
2066	Wayne County Foods	1	3541	142	0.150	2.2149	0.0888	
		99	198	177	0.135	0.1115	0.0996	
		Totals:			0.285	2.3264	0.1885	
		Cost Analysis:			\$163.23	\$1,928.30	\$83.55	\$2,175.08
2072	Clean-Tex Services	1	244	82	49.249	50.1099	16.8402	
		99	198	177	0.349	0.2882	0.2576	
		Totals:			49.598	50.3980	17.0978	
		Cost Analysis:			\$28,405.92	\$41,774.54	\$7,580.28	\$77,760.74
2076	International Vitamin	1	565	133	2.513	5.9208	1.3937	
		Totals:			2.513	5.9208	1.3937	
		Cost Analysis:			\$1,439.25	\$4,907.67	\$617.91	\$6,964.83
2077	Table Linen LLC	1	237	802	0.324	0.3202	1.0836	
		99	198	177	0.392	0.3237	0.2893	
					0.716	0.6439	1.3729	
					\$410.07	\$533.69	\$608.67	\$1,552.44
3055	Maplewood Beverage	2	5885	125	36.361	892.3153	18.9532	
		99	198	177	0.567	0.4680	0.4183	
					36.928	892.7833	19.3715	
					\$21,149.40	\$740,021.32	\$8,588.33	\$769,759.06
IRVINGTON TOTALS					90.0398	952.0723	39.4244	
					\$51,567.87	\$789,165.53	\$17,478.74	\$858,212.15

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: SUMMIT

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$572.7230359	BOD per Ton \$828.8924492	TSS per Ton \$443.3482331	
5511	Novartis Groundwater	4	2	1		0.881	0.0073	0.0037	
	Totals:					0.881	0.0073	0.0037	
	Cost Analysis:					\$504.57	\$6.09	\$1.63	\$512.29
5512	Summit Property Co. (MSD Corp)	03A 99	30 198	34 177		37.676	4.7133	5.3417	
	Totals:					3.182	2.6273	2.3486	
	Cost Analysis:					40.858	7.3405	7.6903	
						\$23,400.32	\$6,084.50	\$3,409.48	\$32,894.30
5513	Celgene Corporation	1	281	324		10.228	11.9849	13.8188	
	Totals:					10.228	11.9849	13.8188	
	Cost Analysis:					\$5,857.81	\$9,934.16	\$6,126.56	\$21,918.54
SUMMIT TOTALS						51.9670	19.3327	21.5128	
						\$29,762.70	\$16,024.75	\$9,537.67	\$55,325.12



## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: MAPLEWOOD

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG	BOD per Ton	TSS per Ton	
						\$572.7230359	\$828.8924492	\$443.3482331	
3020	Gleason Cleaners	1	244	52	0.605	0.6156	0.1312		
		99	198	177	0.120	0.0991	0.0886		
	Totals:				0.725	0.7147	0.2198		
	Cost Analysis:				\$415.22	\$592.37	\$97.43		\$1,105.03
3033	NJ Transit - Hilton Gar.	3a	297	375	1.106	1.3698	1.7295		
		4	415	42	2.164	3.7449	0.3790		
	Totals:				3.270	5.1147	2.1085		
	Cost Analysis:				\$1,872.80	\$4,239.52	\$934.80		\$7,047.13
3046	UniClean	1	57	14	1.792	0.4259	0.1046		
		99	198	177	0.172	0.1420	0.1270		
	Totals:				1.964	0.5680	0.2316		
	Cost Analysis:				\$1,124.83	\$470.77	\$102.67		\$1,698.27
MAPLEWOOD TOTALS					5.9590	6.3973	2.5598		
					\$3,412.86	\$5,302.66	\$1,134.90		\$9,850.42

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: MURRAY HILL

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG \$572.7230359	BOD per Ton \$828.8924492	TSS per Ton \$443.3482331	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
5010	Alcatel-Lucentd USA	1	7	20	12.381	0.3614	1.0326	
	Totals:				12.381	0.3614	1.0326	
	Cost Analysis:				\$7,090.88	\$299.56	\$457.79	\$7,848.24
5011	Baxter Pharmaceutical	1	339	819	0.099	0.1399	0.3381	
	Totals:				0.099	0.1399	0.3381	
	Cost Analysis:				\$56.70	\$116.00	\$149.90	\$322.60
5020	Fablok Mills	4	437	171	4.542	8.2768	3.2388	
		99	198	177	0.138	0.1139	0.1019	
	Totals:				4.6800	8.3908	3.3406	
	Cost Analysis:				\$2,680.34	\$6,955.06	\$1,481.06	\$11,116.46
5021	FRC-Electrical Ind	1	51	66	1.860	0.3956	0.5119	
	Totals:				1.860	0.3956	0.5119	
	Cost Analysis:				\$1,065.26	\$327.88	\$226.95	\$1,620.10
MURRAY HILL TOTALS					19.0200	9.2877	5.2232	
					\$10,893.19	\$7,698.50	\$2,315.70	\$20,907.40

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2014

Municipality: ROSELLE PARK

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG	BOD per Ton	TSS per Ton	
						\$572.7230359	\$828.8924492	\$443.3482331	
6005	Hexacon Electric	2	35	42		0.884	0.1290	0.1548	
	Totals:					0.884	0.1290	0.1548	
	Cost Analysis:					\$506.29	\$106.94	\$68.64	\$681.87
ROSELLE PARK TOTALS						0.8840	0.1290	0.1548	
						\$506.29	\$106.94	\$68.64	\$681.87

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$572.7230359	BOD per Ton \$828.8924492	TSS per Ton \$443.3482331	
7015	ACuPowder	3 (99) 4		198 104	177 116	0.016	0.0132	0.0118	\$430.12
						0.353	0.1531	0.1708	
						0.369	0.1663	0.1826	
						\$211.33	\$137.84	\$80.94	
7035	American Products	1		198	270	0.469	0.3872	0.5280	\$823.69
						0.469	0.3872	0.5280	
						\$268.61	\$320.98	\$234.11	
7070	Durex	1		102	204	3.283	1.3964	2.7928	\$4,275.88
						3.283	1.3964	2.7928	
						\$1,880.25	\$1,157.46	\$1,238.18	
7077	Siemens Water Technology	4		178	275	1.780	1.3212	2.0412	\$3,019.57
						1.780	1.3212	2.0412	
						\$1,019.45	\$1,095.15	\$904.97	
7080	Foremost Mfg	2		13	195	14.574	0.7901	11.8508	\$14,255.79
						14.574	0.7901	11.8508	
						\$8,346.87	\$654.87	\$5,254.05	
7092	International Paint	2		41	36	6.809	1.1641	1.0222	\$5,317.79
						6.809	1.1641	1.0222	
						\$3,899.67	\$964.94	\$453.18	
7145	Merck Sharp & Dohme Corp. (Schering)	5		9	13	71.958	2.7006	3.9008	\$45,179.93
						71.958	2.7006	3.9008	
						\$41,212.00	\$2,238.49	\$1,729.43	
7155	Tessler & Weiss	22		107	180	1.283	0.5725	0.9630	\$1,636.27
						1.283	0.5725	0.9630	
						\$734.80	\$474.51	\$426.95	
7167	Turbo Braze	1		380	442	0.194	0.3074	0.3576	\$524.45
						0.194	0.3074	0.3576	
						\$111.11	\$254.81	\$158.53	

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: UNION

IU #	INDUSTRY	SITE	Concentration		Cost Factors			ANNUAL PAYMENT
					Flow per MG	BOD per Ton	TSS per Ton	
					\$572.7230359	\$828.8924482	\$443.3482331	
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
7191	Cintas	1	267	291	27.351	30.4523	33.1896	
		Totals:			27.351	30.4523	33.1896	
		Cost Analysis:			\$15,664.55	\$25,241.71	\$14,714.56	\$55,620.81
7192	Merril Corporation	1	259	295	0.834	0.9007	1.0259	
		Totals:			0.834	0.9007	1.0259	
		Cost Analysis:			\$477.65	\$746.62	\$454.85	\$1,679.12
7193	Lioni Latticini	1	2486	694	6.964	72.1931	20.1537	
		99	198	177	0.702	0.5796	0.5181	
		Totals:			7.666	72.7728	20.6718	
		Cost Analysis:			\$4,390.49	\$60,320.79	\$9,164.81	\$73,876.09
7194	BASF Catalysts	1	145	260	0.077	0.0466	0.0835	
		99	198	177	0.864	0.7134	0.6377	
		Totals:			0.941	0.7599	0.7212	
		Cost Analysis:			\$538.93	\$629.90	\$319.74	\$1,488.57
7195	Deep Foods	1	1597	987	18.087	120.4502	74.4423	
		2(99)	198	177	0.163	0.1346	0.1203	
		Totals:			18.25	120.5848	74.5626	
		Cost Analysis:			\$10,452.20	\$99,951.81	\$33,057.20	\$143,461.21
UNION TOTALS					155.7610	234.2763	153.8102	
					\$89,207.91	\$194,189.88	\$68,191.49	\$351,589.29

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration	BOD (mg/l)	TSS (mg/l)	Cost Factors			ANNUAL PAYMENT
						Flow per MG \$500.1477534	BOD per Ton \$828.8924492	TSS per Ton \$443.3482331	
0192	Wild Flavors Inc.	1	3457	308		0.159	2.2921	0.2042	
	Totals:					0.159	2.2921	0.2042	
	Cost Analysis:					\$79.52	\$1,899.90	\$90.54	\$2,069.96
0037	Deb-El Foods	1	2535	445		5.229	55.2755	9.7032	
	Totals:					5.229	55.2755	9.7032	
	Cost Analysis:					\$2,615.27	\$45,817.44	\$4,301.89	\$52,734.61
0062	Garcia Laundry	2	982	271		2.185	8.9474	2.4692	
		99	198	177		0.114	0.0941	0.0841	
	Totals:					2.299	9.0416	2.5533	
	Cost Analysis:					\$1,149.84	\$7,494.49	\$1,132.02	\$9,776.35
0067	Actavis (formerly Purepac)	3	810	158		18.578	62.7509	12.2403	
	Totals:					18.578	62.7509	12.2403	
	Cost Analysis:					\$9,291.74	\$52,013.76	\$5,426.72	\$66,732.22
0070	LORCO	2	10491	91		21.466	939.0832	8.1457	
	Totals:					21.466	939.0832	8.1457	
	Cost Analysis:					\$10,736.17	\$778,398.97	\$3,611.38	\$792,746.52
0075	Mastercraft Electroplating	99	198	177		0.027	0.0223	0.0199	
	Totals:					0.027	0.0223	0.0199	
	Cost Analysis:					\$13.50	\$18.48	\$8.84	\$40.82
0078	Magnolia Beef	1	1728	524		0.149	1.0737	0.3256	
		99	198	177		0.192	0.1585	0.1417	
	Totals:					0.341	1.2322	0.4673	
	Cost Analysis:					\$170.55	\$1,021.35	\$207.17	\$1,399.07
0093	OENJ	4	11	32		2.578	0.1183	0.3440	
	Totals:					2.578	0.1183	0.3440	
	Cost Analysis:					\$1,289.38	\$98.02	\$152.52	\$1,539.92
0098	Olympia Trails	1	654	195		2.061	5.6207	1.6759	
		99	198	177		0.439	0.3625	0.3240	
	Totals:					2.500	5.9832	1.9999	
	Cost Analysis:					\$1,250.37	\$4,959.41	\$886.66	\$7,096.45
0100	Michaels Foods - North Avenue Facility	4	2155	686		66.015	593.2339	188.8438	
		4a	3455	718		9.168	132.0866	27.4495	
		4b	1510	364		8.798	55.3984	13.3543	
		99	198	177		0.457	0.3773	0.3373	
	Totals:					84.438	781.0962	229.9850	
	Cost Analysis:					\$42,231.48	\$647,444.72	\$101,963.44	\$791,639.63

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2014

Municipality: ELIZABETH

IU #	INDUSTRY	SITE	Concentration	Cost Factors			ANNUAL PAYMENT	
				Flow per MG	BOD per Ton	TSS per Ton		
				\$500.1477534	\$828.8924492	\$443.3482331		
			BOD (mg/l)	TSS (mg/l)	FLOW (MG)	BOD (Tons)	TSS (Tons)	
0105	Michaels Foods - Papetti Plaza Facility	2	3082	437	15.221	195.6194	27.7371	
		2a	2414	338	1.671	16.8209	2.3552	
		2b	2055	390	1.802	15.4420	2.9306	
		3	381	459	0.145	0.2304	0.2775	
	Totals:				18.8390	228.1126	33.3004	
	Cost Analysis:				\$9,422.28	\$189,080.84	\$14,763.68	\$213,266.81
0120	Phelps Dodge	99	198	177	0.218	0.1800	0.1609	
		Totals:			0.218	0.1800	0.1609	
		Cost Analysis:			\$109.03	\$149.20	\$71.34	\$329.56
0148	Superior Powder Coating	1	172	34	2.637	1.8914	0.3739	
		99	198	177	0.481	0.3971	0.3550	
		Totals:			3.118	2.2885	0.7289	
		Cost Analysis:			\$1,559.46	\$1,896.92	\$323.15	\$3,779.54
	0155	Duro Bag	1	301	211	5.115	6.4202	4.5005
2			61	45	3.050	0.7758	0.5723	
3			306	546	1.182	1.5083	2.6912	
Totals:					9.347	8.7043	7.7641	
Cost Analysis:				\$4,674.88	\$7,214.91	\$3,442.19	\$15,331.98	
0165	Wakefern Food Corp.	2	52	104	3.340	0.7242	1.4485	
		3a	287	298	3.890	4.6555	4.8339	
		4						
		99 (7)	198	177	0.269	0.2221	0.1985	
	Totals:			7.499	5.6019	6.4810		
Cost Analysis:			\$3,750.61	\$4,643.34	\$2,873.33	\$11,267.28		
0178	814 Americas	3	402	236	2.168	3.6343	2.1336	
		99	198	177	0.119	0.0983	0.0878	
		Totals:			2.287	3.7326	2.2214	
		Cost Analysis:			\$1,143.84	\$3,093.89	\$984.86	\$5,222.58
0189	Prince Donut Co.	3	3109	610	0.943	12.2256	2.3987	
		99	198	177	0.169	0.1391	0.1244	
		Totals:			1.112	12.3647	2.5231	
		Cost Analysis:			\$555.91	\$10,248.99	\$1,118.60	\$11,923.50
ELIZABETH TOTALS					180.0345	2,117.8799	318.8426	
					\$90,043.85	\$1,755,494.63	\$141,358.32	\$1,986,896.80