

December 15, 2000

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 2001)

I present herewith the 66th 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, 1999 through October 31, 2000. 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 2001. 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 2000, 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 16, 1999.

During 2000, 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 (2001) dwelling unit figures formulated by each municipality in 2000.

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, 1999, through October 31, 2000 and projected for a twelve (12) month period in 2001. 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 2001, 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 366 day period from November 1, 1999, through October 31, 2000, and projected for 2001 and are based upon actual 1999-2000 operating statistics as well as a recent upgraded 2000 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                                       | 23,901.3800 MG/Year   | 65.3043 MGD              |
| 2. | BOD  | 17,299.5044 Tons/Year | 94,532.8109 Lbs/Day      |
|    | TSS  | 13,149.1175 Tons/Year | 71,853.1011 Lbs/Day      |
| 3. | Estimated Industrial Flow                  | 842.0620 MG/Year      | 2.3007 MGD               |
| 4. | Estimated Industrial BOD                   | 2,720.1653 Tons/Year  | 14,864.2913 Lbs/Day      |
| 5. | Estimated Industrial TSS                   | 965.7094 Tons/Year    | 5,277.1005 Lbs/Day       |
| 6. | Estimated Total Operating Expenses in 2000 |                       |                          |
|    |  |                       | \$11,314,574 STP         |
|    |  |                       | 3,773,176 SDWF           |
|    |  |                       | 1,425,699 SDF            |
|    |  |                       | 306,507 Sewers           |
|    |  |                       | <hr/> \$16,819,956 Total |
| 7. | Estimated Total Dwelling Units in System   |                       |                          |
|    |  |                       | 147,589 JM Members       |
|    |  |                       | 47,181 Elizabeth         |
|    |  |                       | <hr/> 194,770 Total      |

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

|                  |             |
|------------------|-------------|
| Flow             | 29.0293506% |
| BOD              | 46.2910534% |
| Suspended Solids | 24.6795960% |

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 2001 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 2001**

**Treatment Plant**

|                 | <u><b>Total for 2001</b></u>      | <u><b>Domestic &amp; Commercial</b></u> | <u><b>Industrial</b></u> |
|-----------------|-----------------------------------|---|--------------------------|
| Flow            | 23,901.3800 MG/Yr. <sup>1</sup>   | 23,059.3180 MG/Yr.                      | 842.0620 MG/Yr.          |
| BOD             | 17,299.5044 Tons/Yr. <sup>1</sup> | 14,579.3391 Tons/Yr.                    | 2,720.1653 Tons/Yr.      |
| Suspended Solid | 13,149.1175 Tons/Yr. <sup>1</sup> | 12,183.4081 Tons/Yr.                    | 965.7094 Tons/Yr.        |

(1) Based upon data from November 1, 1999 thru October 31, 2000 (366 days)

**Cost Allocation**

|                 | <u><b>Total for 2001</b></u> | <u><b>Domestic &amp; Commercial</b></u> | <u><b>Industrial</b></u> |
|-----------------|------------------------------|---|--------------------------|
| Flow            | \$4,793,747.00               | \$4,624,860.00                          | \$168,887.00             |
| BOD             | 7,644,249.50                 | 6,442,272.00                            | 1,201,977.50             |
| Suspended Solid | 4,075,452.50                 | 3,776,139.00                            | 299,313.50               |
|                 | <u>\$16,513,449.00</u>       | <u>\$14,843,271.00</u>                  | <u>\$1,670,178.00</u>    |
|                 | 100.000000%                  | 89.88595300%                            | 10.11404700%             |

**Elizabeth Contribution**

|      |   |                     |
|------|---|---------------------|
| Flow | - | 5,962.2880 MG/Yr.   |
| BOD  | - | 7,546.6780 Tons/Yr. |
| TSS  | - | 3,744.5827 Tons/Yr. |

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

| <u><b>Total for 2001</b></u>    | <u><b>Domestic &amp; Commercial</b></u> | <u><b>Industrial</b></u> |
|---------------------------------|---|--------------------------|
| 17,939.0920 MG/Yr. <sup>2</sup> | 17,298.6090 MG/Yr.                      | 640.483 MG/Yr.           |

(1) Based upon data from November 1, 1999 thru October 31, 2000 (366 days)

(2) (23,901.380 - 5,962.2880)

**COST ALLOCATION**

|              |              |             |
|--------------|--------------|-------------|
| \$306,507.00 | \$295,563.72 | \$10,943.28 |
|--------------|--------------|-------------|

Member municipalities will be assessed \$2.00 (\$295,563.72/147,589) for trunk sewer O&M per equivalent dwelling unit.

The estimated cost for treating industrial wastes has been determined to be \$217.65 per MG for flow, \$441.88 per ton of BOD, and \$309.94 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             | \$168,887.00   | / | 842.0620   | = | \$200.5636165 | /MG  |
| BOD              | \$1,201,977.50 | / | 2,720.1653 | = | \$441.8766389 | /Ton |
| Suspended Solids | \$299,313.50   | / | 965.7094   | = | \$309.9415828 | /Ton |

All industries within the member municipalities (excluding Elizabeth) will be required to pay an additional \$17.09/MG of flow for trunk sewer use ( $\$10943.28/640.483 = \$17.086/\text{MG}$ ). This brings the total flow cost to \$217.65/MG ( $\$200.564 + \$17.086$ ) for the indicated industries of member municipalities.

Based upon the user charges for 2001, 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 2000 industrial waste survey of the service area. These are estimates for 2001 and must be verified on an annual basis to reflect the actual flow and waste characteristics.

The basis for the industrial waste flow and characteristics are set forth in Appendix B of this report. The dwelling unit figures have been compiled by each municipality with the exception of Elizabeth in accordance with the revised Schedule of Dwelling Units incorporated into the User Charge Ordinance.

Table VII sets forth the cost to each municipality to establish the budget requirements of \$16,819,956.00 for 2001. 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 36.2056472% 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**  
**2001**

| <u>Municipality</u> | <u>Dwelling Units <sup>1</sup></u> | <u>User Charges<br/>Industrial</u> |
|---------------------|------------------------------------|------------------------------------|
| East Orange         | 7,218                              | \$ -                               |
| Hillside            | 8,417                              | 22,325                             |
| Irvington           | 26,641                             | 29,939                             |
| Maplewood           | 9,283                              | 12,316                             |
| Millburn            | 9,763 <sup>4</sup>                 | -                                  |
| Newark              | 16,972                             | -                                  |
| Roselle Park        | 4,739                              | 596                                |
| South Orange        | 6,847                              | -                                  |
| Summit              | 13,964 <sup>2</sup>                | 60,433 <sup>3</sup>                |
| Union               | 24,214                             | 560,265                            |
| West Orange         | 19,531                             | 11,484                             |
| Elizabeth           | 47,181                             | 983,763                            |
|                     | <u>194,770</u>                     | <u>\$ 1,681,121</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 (3589)

(3) Includes Murray Hill

(4) Includes Livingston (392)

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

**For Period 11/1/99-10/31/2000 and Projected Contribution for 2001**

| Flow:   | Treatment Plant     | Elizabeth Pumping Station |                 | Joint Meeting     |                 |
|---|---------------------|---------------------------|-----------------|-------------------|-----------------|
|   | 23,901.38 MG        | 5,962.288 MG              |                 | 17,939.092 MG     |                 |
|   |                     | <i>Industrial</i>         | <i>D&amp;C</i>  | <i>Industrial</i> | <i>D&amp;C</i>  |
|   |                     | 174.285                   | 5,788.003       | 640.483           | 17,298.609      |
|   |                     | \$ 34,955.23              | \$ 1,160,862.81 | \$ 139,400.87     | \$ 3,765,035.28 |
| Unit Charge \$ 200.5636165 Per MG for Elizabeth     |                     |                           |                 |                   |                 |
| Unit Charge \$ 217.6495969 Per MG for Joint Meeting |                     |                           |                 |                   |                 |
| <b>BOD:</b>   | 17299.5044 Tons     | 7,546.678 Tons            |                 | 9,752.8264 Tons   |                 |
|   |                     | <i>Industrial</i>         | <i>D&amp;C</i>  | <i>Industrial</i> | <i>D&amp;C</i>  |
|   |                     | 1,797.985                 | 5,748.693       | 882.6472          | 8,870.1792      |
|   |                     | \$ 794,487.57             | \$ 2,540,213.14 | \$ 390,021.18     |                 |
| Unit Charge   | 441.8766389 Per Ton |                           |                 |                   |                 |
| <b>TSS:</b>   | 13,149.1175 Tons    | 3,744.5827 Tons           |                 | 9,404.5348 Tons   |                 |
|   |                     | <i>Industrial</i>         | <i>D&amp;C</i>  | <i>Industrial</i> | <i>D&amp;C</i>  |
|   |                     | 410.4337                  | 3,334.149       | 541.8314          | 8,862.7034      |
|   |                     | \$ 127,210.47             | \$ 1,033,391.42 | \$ 167,936.08     |                 |
| Unit Charge   | 309.9415828 Per Ton |                           |                 |                   |                 |
|   |                     |                           | \$ 5,691,120.64 | \$ 697,358.13     |                 |

City of Elizabeth (Contribution from Pumping Station) \$ 5,691,120.64

City of Elizabeth (Industry Tributary to Joint Meeting Trunk)

|              |                      |                |           |
|--------------|----------------------|----------------|-----------|
| <b>Flow:</b> | 27.2940 MG/Year at   | \$ 200.5636165 | 5,474.18  |
| <b>BOD:</b>  | 39.5331 Tons/Year at | 441.8766389    | 17,468.75 |
| <b>TSS:</b>  | 13.4443 Tons/Year at | 309.9415828    | 4,166.95  |

|                          |                 |
|--------------------------|-----------------|
| Joint Meeting Industrial | 697,358.13      |
| Subtotal                 | \$ 6,415,588.65 |

|                   |                  |
|-------------------|------------------|
| Total 2001 Budget | \$ 16,819,956.00 |
| Subtotal (above)  | (6,415,588.65)   |
| Subtotal (EDU's)  | \$ 10,404,367.35 |

Joint Meeting EDU's (X + Y) + Elmora EDU's (X) = \$ 10,404,367  
 (Y = Additional Assessment to Member Municipalities for Trunk Sewer O&M)  
 147,589 (X + \$2.002613474) + 3905 (X) = \$ 10,404,367

Equivalent Units-Member Municipalities 147,589

|                |       |                  |                |
|----------------|-------|------------------|----------------|
| Elmora EDU's = | 3,905 | \$ 66.7274191060 | Per Unit = X   |
|                |       | \$ 68.7300325800 | Per Unit = X+Y |

|                              |                  |
|------------------------------|------------------|
| Joint Meeting EDU Assessment | \$ 10,143,796.78 |
| Elmora Area Assessment       | \$ 260,570.57    |

Total Anticipated Payment from the City of Elizabeth

|                   |                 |
|-------------------|-----------------|
| Pumping Station   | \$ 5,691,120.64 |
| Elmora EDU's      | 260,570.57      |
| Elmora Industrial | 27,109.88       |
|                   | <hr/>           |
|                   | \$ 5,978,801.09 |

Total Anticipated Payment from Member Municipalities

|            |                  |
|------------|------------------|
| EDU's      | 10,143,796.78    |
| Industrial | 697,358.13       |
|            | <hr/>            |
|            | \$ 10,841,154.91 |

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

\$ 5,978,801.09 / \$ 16,513,449.00 = 36.2056472%





**Table IV - A**  
**Joint Meeting of Essex and Union Counties**  
**Adjusted 2000 - Summary of Infiltration and Inflow**

| Municipality | Phase IIB               |                         | 2000                       |                         | Phase IIB         |                   | 2000                 |                   |
|--------------|-------------------------|-------------------------|----------------------------|-------------------------|-------------------|-------------------|----------------------|-------------------|
|              | SSES Infiltration (GPD) | 1999 Infiltration (GPD) | Infiltration Removed (GPD) | 2000 Infiltration (GPD) | SSES Inflow (GPD) | 1999 Inflow (GPD) | Inflow Removed (GPD) | 2000 Inflow (GPD) |
| East Orange  | 70,747                  | 54,327                  | -                          | 54,327                  | 3,007,440         | 3,007,440         | -                    | 3,007,440         |
| 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         | 5,449,680         | -                    | 5,449,680         |
| Millburn     | 191,609                 | 152,240                 | -                          | 152,240                 | 2,729,520         | 2,384,640         | -                    | 2,384,640         |
| Newark       | 234,484                 | 216,248                 | -                          | 216,248                 | 1,959,540         | 1,959,840         | -                    | 1,959,840         |
| Roselle Park | 106,187                 | 65,147                  | -                          | 65,147                  | 1,576,080         | 1,576,080         | -                    | 1,576,080         |
| South Orange | 410,876                 | 83,906                  | -                          | 83,906                  | 2,183,760         | 2,178,000         | -                    | 2,178,000         |
| Summit       | 171,657                 | 88,296                  | 2,880                      | 85,416                  | 3,651,120         | 2,079,360         | -                    | 2,079,360         |
| Union        | 329,127                 | 238,013                 | -                          | 238,013                 | 14,534,640        | 14,246,640        | -                    | 14,246,640        |
| West Orange  | 250,811                 | 154,847                 | -                          | 154,847                 | 7,097,040         | 6,744,600         | -                    | 6,744,600         |
| <b>Total</b> | <b>3,349,260</b>        | <b>2,082,515</b>        | <b>2,880</b>               | <b>2,079,635</b>        | <b>51,986,580</b> | <b>48,603,240</b> | <b>-</b>             | <b>48,603,240</b> |

Table V

## Joint Meeting of Essex and Union Counties

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

|              |                          | Total                        | Domestic & Commercial | Industrial    |
|--------------|--------------------------|------------------------------|-----------------------|---------------|
| Flow         |                          | 17,939,0920 MG               | 17,298.6090 MG        | 640.4830 MG   |
|              |                          | \$3,616,752.36               | \$3,477,351.49        | \$139,400.87  |
| Infiltration | 3.9401402%               | 706.83                       | 681.59                | 25.24         |
| Inflow       | 8.9888608%               | 1,612.52                     | 1,554.95              | 57.57         |
| BOD          | at \$441.8766389 Per Ton | 9,752.8264 Tons              | 8,870.1792 Tons       | 882.6472 Tons |
|              |                          | \$4,309,546.15               | \$3,919,524.97        | \$390,021.18  |
| TSS          | at \$309.9415828 Per Ton | 9,404.5348 Tons              | 8,862.7034 Tons       | 541.8314 Tons |
|              |                          | \$2,914,856.40               | \$2,746,920.32        | \$167,936.08  |
| Total        |                          | \$10,841,154.91 <sup>1</sup> | \$10,143,796.78       | \$697,358.13  |

(1) Amount anticipated from Members after allocation of 36.2056472% to City of Elizabeth \$ 5,978,801.09

"Base Year - 1982"

Infiltration: 3.35 MGD / 52.79 MGD = 6.34590% (Per H&amp;S Phase IIB Report)

Inflow: 113 MGD (Excluding Elizabeth) / 137 MGD (Total) = 82.4817518% 1 inch of rain = 50 mg of inflow (Per H&amp;S Phase IIB Report)

"1999 - 2000"

Infiltration: 2.080 MGD/52.79MGD =

X 17,939.0920 706.83 MG / Year  
(November 1, 1999 - October 31, 2000)

Inflow: Rainfall = 39.1 Inches X 50 MG X 82.482%

1,612.52 MG / Year

|                                   |                       |
|-----------------------------------|-----------------------|
| Total D&C                         | \$10,143,796.78       |
| Less: Infiltration                | (137,012.64)          |
| Less: Inflow                      | (312,574.71)          |
| Net after infiltration and inflow | <u>\$9,694,209.43</u> |
| Equivalent Dwelling Units         | 147,589               |
| User Charge Per Unit              | \$65.6838208132042    |

Table VI  
Joint Meeting of Essex and Union Counties  
Estimated Annual Operation Expenses To Member Municipalities  
2001

| Domestic & Commercial |                     |             |                      |                      |              |                      |              |                 |                |
|-----------------------|---------------------|-------------|----------------------|----------------------|--------------|----------------------|--------------|-----------------|----------------|
| Municipality          | Dwelling Units      | User Charge |                      | Infiltration         |              | Inflow               |              | Total Cost      | Unit Cost      |
|                       |                     | \$          | 65.68382081 Per Unit | Percent <sup>1</sup> | Amount       | Percent <sup>2</sup> | Amount       |                 |                |
| East Orange           | 7,218               |             | \$474,105.82         | 2.61%                | \$3,576.03   | 6.19%                | \$19,348.37  | \$497,030.22    | \$68.8598      |
| Hillside              | 8,417               |             | 552,860.72           | 1.59%                | 2,178.50     | 2.44%                | 7,626.82     | 562,666.04      | 66.8488        |
| Irvington             | 26,641              |             | 1,749,882.67         | 38.33%               | 52,516.94    | 16.03%               | 50,105.73    | 1,852,505.34    | 69.5359        |
| Maplewood             | 9,283               |             | 609,742.91           | 9.59%                | 13,139.51    | 11.21%               | 35,039.62    | 657,922.04      | 70.8739        |
| Millburn              | 9,763 <sup>3</sup>  |             | 641,271.14           | 7.32%                | 10,029.33    | 4.91%                | 15,347.42    | 666,647.89      | 68.2831        |
| Newark                | 16,972              |             | 1,114,785.81         | 10.40%               | 14,249.31    | 4.03%                | 12,596.76    | 1,141,631.88    | 67.2656        |
| Roselle Park          | 4,739               |             | 311,275.63           | 3.13%                | 4,288.50     | 3.24%                | 10,127.42    | 325,691.55      | 68.7258        |
| South Orange          | 6,847               |             | 449,737.12           | 4.03%                | 5,521.61     | 4.48%                | 14,003.35    | 469,262.08      | 68.5354        |
| Summit                | 13,964 <sup>4</sup> |             | 917,208.87           | 4.11%                | 5,631.22     | 4.28%                | 13,378.20    | 936,218.29      | 67.0451        |
| Union                 | 24,214              |             | 1,590,468.04         | 11.44%               | 15,674.25    | 29.31%               | 91,615.65    | 1,697,757.94    | 70.1147        |
| West Orange           | 19,531              |             | 1,282,870.70         | 7.45%                | 10,207.44    | 13.88%               | 43,385.37    | 1,336,463.51    | 68.4278        |
|                       | 147,589             |             | \$9,694,209.43       | 100.00%              | \$137,012.64 | 100.00%              | \$312,574.71 | \$10,143,796.78 | \$68.7300      |
|                       |                     |             |                      |                      |              |                      |              |                 | \$68.4775 2000 |
|                       |                     |             |                      |                      |              |                      |              |                 | \$63.5817 1999 |
|                       |                     |             |                      |                      |              |                      |              |                 | \$75.6967 1998 |
|                       |                     |             |                      |                      |              |                      |              |                 | \$73.9447 1997 |

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

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

(3) Eastwood Livingston (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 (392)

(4) Includes New Providence (3589)

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

| Municipality        | 2001                 |                               |                      |                               |                |                           |                     |        |                                |               |
|---------------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------|---------------------------|---------------------|--------|--------------------------------|---------------|
|                     | Industrial           |                               |                      |                               |                |                           |                     |        |                                |               |
|                     | Flow (MG / Year)     |                               |                      |                               |                |                           |                     |        |                                |               |
|                     | BOD<br>(Tons / Year) | BOD <sup>1</sup><br>(\$/Year) | TSS<br>(Tons / Year) | TSS <sup>2</sup><br>(\$/Year) | Dry<br>Weather | Infiltration<br>3.940140% | Inflow<br>8.988861% | Total  | Flow <sup>3</sup><br>(\$/Year) | Total<br>Cost |
| East Orange         | 0.0000               | \$0.00                        | 0.0000               | \$0.00                        | 0.00           | 0.00                      | 0.00                | 0.00   | \$0.00                         | \$0.00        |
| Hillside            | 21.4691              | 9,486.69                      | 13.3149              | 4,126.84                      | 34.85          | 1.58                      | 3.60                | 40.03  | 8,711.86                       | 22,325.39     |
| Irvington           | 34.0220              | 15,033.53                     | 25.5319              | 7,913.40                      | 27.97          | 1.27                      | 2.89                | 32.13  | 6,992.21                       | 29,939.14     |
| Maplewood           | 13.5730              | 5,997.59                      | 13.5980              | 4,214.59                      | 8.42           | 0.38                      | 0.87                | 9.67   | 2,104.02                       | 12,316.20     |
| Millburn            | 0.0000               | 0.00                          | 0.0000               | 0.00                          | 0.00           | 0.00                      | 0.00                | 0.00   | 0.00                           | 0.00          |
| Newark              | 0.0000               | 0.00                          | 0.0000               | 0.00                          | 0.00           | 0.00                      | 0.00                | 0.00   | 0.00                           | 0.00          |
| Roselle Park        | 0.1749               | 77.28                         | 0.3486               | 108.05                        | 1.64           | 0.07                      | 0.17                | 1.89   | 410.70                         | 596.03        |
| South Orange        | 0.0000               | 0.00                          | 0.0000               | 0.00                          | 0.00           | 0.00                      | 0.00                | 0.00   | 0.00                           | 0.00          |
| Summit <sup>4</sup> | 29.9311              | 13,225.85                     | 39.2458              | 12,163.91                     | 140.19         | 6.34                      | 14.47               | 161.00 | 35,042.46                      | 60,432.22     |
| Union               | 775.2028             | 342,544.01                    | 441.1239             | 136,722.64                    | 324.04         | 14.66                     | 33.45               | 372.15 | 80,998.30                      | 560,264.95    |
| West Orange         | 8.2743               | 3,656.22                      | 8.6683               | 2,686.67                      | 20.57          | 0.93                      | 2.12                | 23.62  | 5,141.32                       | 11,484.21     |
|                     | 882.6472             | \$ 390,021.17                 | 541.8314             | \$167,936.10                  | 557.68         | 25.24                     | 57.57               | 640.48 | \$139,400.87                   | \$697,358.14  |

- (1) At \$441.8766389/Ton  
(2) At \$309.9415828/Ton  
(3) At \$217.6495969/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**  
**2001**

| Municipality | Domestic & Commercial          |   |                         |                               |                       |
|--------------|--------------------------------|---|-------------------------|-------------------------------|-----------------------|
|              | Total Assessments <sup>1</sup> | User Charge Domestic Sewage 65.68382081 | User Charges Industrial | Infiltration / Inflow Charges | Assessment Percentage |
| East Orange  | \$497,030.22                   | \$474,105.82                            | \$0.00                  | \$22,924.40                   | 4.5847%               |
| Hillside     | 584,991.43                     | 552,860.72                              | 22,325.39               | 9,805.32                      | 5.3960%               |
| Irvington    | 1,882,444.48                   | 1,749,882.67                            | 29,939.14               | 102,622.67                    | 17.3639%              |
| Maplewood    | 670,238.24                     | 609,742.91                              | 12,316.20               | 48,179.13                     | 6.1824%               |
| Millburn     | 666,647.89                     | 641,271.14                              | 0.00                    | 25,376.75                     | 6.1492%               |
| Newark       | 1,141,631.88                   | 1,114,785.81                            | 0.00                    | 26,846.07                     | 10.5305%              |
| Roselle Park | 326,287.58                     | 311,275.63                              | 596.03                  | 14,415.92                     | 3.0097%               |
| South Orange | 469,262.08                     | 449,737.12                              | 0.00                    | 19,524.96                     | 4.3285%               |
| Summit       | 996,650.51                     | 917,208.87                              | 60,432.22               | 19,009.42                     | 9.1932%               |
| Union        | 2,258,022.89                   | 1,590,468.04                            | 560,264.95              | 107,289.90                    | 20.8283%              |
| West Orange  | 1,347,947.72                   | 1,282,870.70                            | 11,484.21               | 53,592.81                     | 12.4336%              |
|              | <u>\$10,841,154.92</u>         | <u>\$9,694,209.43</u>                   | <u>\$697,358.14</u>     | <u>\$449,587.35</u>           | <u>100.0000%</u>      |
| Elizabeth    | 5,978,801.09                   |   |                         |                               |                       |
| <b>Total</b> | <b><u>\$16,819,956.00</u></b>  |   |                         |                               |                       |

(1) Reflects anticipated payment of \$5,978,801.09 from the City of Elizabeth which is 36.2056472% of allocation from Treatment Plant, Sludge Dewatering, and Sludge Drying budget. Exact 2001 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 2001 Assessment with 2000 Assessment**

| Municipality | 2000                   | 2001                   |            | Comparison          |              |
|--------------|------------------------|------------------------|------------|---------------------|--------------|
|              |                        |                        |            | Amount              | Percentage   |
| East Orange  | \$495,550.61           | \$497,030.22           | (+)        | \$1,479.61          | 0.30%        |
| Hillside     | 740,506.55             | 584,991.43             | (-)        | (155,515.12)        | -21.00%      |
| Irvington    | 1,882,378.82           | 1,882,444.48           | (+)        | 65.66               | 0.00%        |
| Maplewood    | 667,097.12             | 670,238.24             | (+)        | 3,141.12            | 0.47%        |
| Millburn     | 663,879.75             | 666,647.89             | (+)        | 2,768.14            | 0.42%        |
| Newark       | 1,136,940.45           | 1,141,631.88           | (+)        | 4,691.43            | 0.41%        |
| Roselle Park | 325,076.11             | 326,287.58             | (+)        | 1,211.47            | 0.37%        |
| South Orange | 466,554.01             | 469,262.08             | (+)        | 2,708.07            | 0.58%        |
| Summit       | 1,017,498.65           | 996,650.51             | (-)        | (20,848.14)         | -2.05%       |
| Union        | 2,268,941.38           | 2,258,022.89           | (-)        | (10,918.49)         | -0.48%       |
| West Orange  | 1,340,107.23           | 1,347,947.72           | (+)        | 7,840.49            | 0.59%        |
|              | \$11,004,530.68        | \$10,841,154.92        | (-)        | (\$163,375.76)      | -1.48%       |
| Elizabeth    | 5,523,456.45           | 5,978,801.09           | (+)        | \$ 455,344.64       | 8.24%        |
| <b>Total</b> | <b>\$16,527,987.12</b> | <b>\$16,819,956.00</b> | <b>(+)</b> | <b>\$291,968.88</b> | <b>1.77%</b> |

City of Elizabeth percentage

|      |              |
|------|--------------|
| 1997 | 37.06967270% |
| 1998 | 34.89536790% |
| 1999 | 31.17283950% |
| 2000 | 37.78119050% |
| 2001 | 36.20564720% |

The decrease in the Hillside assessment is attributable to significant reductions of industrial flows & loadings.

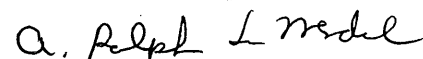
Table III, IV, V, VI, and VII, have been prepared to reflect the Domestic Sewer Usage and Industrial User assessment to each municipality for 2001 as a result of the Agreement with the City of Elizabeth which requires 36.2056472% of the 2001 Treatment Plant, Sludge Dewatering and Sludge Drying Budget to be paid in Quarterly assessments with adjustments made following the determination of the actual percentage of contribution for each quarter. The 36.2056472% 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 2000.

### **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 2001 are apportioned as follows:

|             | <u>2001</u> | <u>2000</u> |              | <u>2001</u>             | <u>2000</u>             |
|-------------|-------------|-------------|--------------|-------------------------|-------------------------|
| East Orange | 4.5847%     | 4.5032%     | Roselle Park | 3.0097%                 | 2.9540%                 |
| Hillside    | 5.3960%     | 6.7291%     | South Orange | 4.3285%                 | 4.2397%                 |
| Irvington   | 17.3639%    | 17.1055%    | Summit       | 9.1932%                 | 9.2462%                 |
| Maplewood   | 6.1824%     | 6.0620%     | Union        | 20.8283%                | 20.6182%                |
| Millburn    | 6.1492%     | 6.0328%     | West Orange  | 12.4336%                | 12.1778%                |
| Newark      | 10.5305%    | 10.3316%    | <b>Total</b> | <b><u>100.0000%</u></b> | <b><u>100.0001%</u></b> |

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**  
**2001 Budget**

|  | <b>Treatment<br/>Plant</b> | <b>Dewatering<br/>Facility</b> | <b>Drying<br/>Facility</b> | <b>Sewer</b>      | <b>Total</b>         |
|--|----------------------------|--------------------------------|----------------------------|-------------------|----------------------|
| Electric Service                       | \$ 1,538,250               | \$ 150,500                     | \$ 61,250                  | \$ -              | \$ 1,750,000         |
| Gas Service                            | 22,000                     | 93,000                         | 615,000                    | -                 | 730,000              |
| Fuel, Oil & Kerosene                   | 216,800                    | 200                            | -                          | -                 | 217,000              |
| Water Service                          | 158,000                    | 71,000                         | 13,000                     | -                 | 242,000              |
| Chemicals                              | 280,700                    | 568,900                        | 16,600                     | 2,200             | 868,400              |
| Sludge Disposal                        | -                          | 892,156                        | -                          | -                 | 892,156              |
| Insurance                              | 232,194                    | 62,410                         | 26,049                     | 4,347             | 325,000              |
| Administration                         | 1,177,000                  | 561,400                        | 45,000                     | 46,200            | 1,829,600            |
| Labor                                  | 3,698,000                  | 738,000                        | 78,000                     | 8,000             | 4,522,000            |
| Benefits                               | 1,156,830                  | 220,410                        | 6,300                      | 17,360            | 1,400,900            |
| Equipment                              | 165,500                    | 25,500                         | 6,000                      | 11,500            | 208,500              |
| Printing & Stationery                  | 18,000                     | 5,000                          | 1,000                      | 1,000             | 25,000               |
| Maintenance, Supplies &<br>Spare Parts | 890,500                    | 253,000                        | 50,000                     | 175,500           | 1,369,000            |
| Screening Disposal                     | 170,000                    | -                              | -                          | -                 | 170,000              |
| Reserve Contingency                    | 77,000                     | -                              | -                          | -                 | 77,000               |
| Miscellaneous Expenses                 | 120,000                    | 50,000                         | -                          | 25,000            | 195,000              |
| Technical & Professional Services      | 229,500                    | 80,000                         | 250,000                    | 10,000            | 569,500              |
| Replacement Fund                       | 850,000                    | -                              | -                          | -                 | 850,000              |
| NJPDES & Miscellaneous Permit Fee      | 314,300                    | 1,700                          | 257,500                    | 5,400             | 578,900              |
|  | <b>\$ 11,314,574</b>       | <b>\$ 3,773,176</b>            | <b>\$ 1,425,699</b>        | <b>\$ 306,507</b> | <b>\$ 16,819,956</b> |
|  | 67.27%                     | 22.43%                         | 8.48%                      | 1.82%             | 100.00%              |

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

|   | Estimated<br>Total Cost | Percent<br>Flow | Cost Flow           | Percent<br>SS | Cost SS             | Percent<br>BOD | Cost BOD            |
|---|-------------------------|-----------------|---------------------|---------------|---------------------|----------------|---------------------|
| General Expenditures <sup>1</sup>                                       | \$ 1,379,694            | 80%             | \$ 1,103,755        | 10%           | \$ 137,969          | 10%            | \$ 137,970          |
| Power   | 1,538,250               | 40%             | \$ 615,300          | 5%            | \$ 76,913           | 55%            | \$ 846,037          |
| Chlorine  | 50,000                  | 40%             | \$ 20,000           |               |                     | 60%            | \$ 30,000           |
| Maintenance, Equipment,<br>Supplies, Spare Parts,<br>& Replacement Fund | 1,983,000               | 28%             | \$ 555,240          | 27%           | \$ 535,410          | 45%            | \$ 892,350          |
| Fuel, Oil & Kerosene  | 216,800                 | 40%             | \$ 86,720           | 30%           | \$ 65,040           | 30%            | \$ 65,040           |
| Administration, Labor<br>& Benefits<br>(Payroll Retirement)             | 6,031,830               | 40%             | 2,412,732           | 10%           | \$ 603,183          | 50%            | \$ 3,015,915        |
| Sludge Processing <sup>2</sup>  | 115,000                 |                 |                     | 50%           | \$ 57,500           | 50%            | \$ 57,500           |
| <b>Total</b>  | <b>\$11,314,574</b>     |                 | <b>\$ 4,793,747</b> |               | <b>\$ 1,476,015</b> |                | <b>\$ 5,044,812</b> |
|   | <b>100%</b>             |                 | <b>42.3678965%</b>  |               | <b>13.0452547%</b>  |                | <b>44.5868488%</b>  |

(1) General Expenditures  
(From the Approved Budget)

Insurance \$ 232,194  
Technical & Professional Services 229,500  
Stationery & Printing 18,000  
Gas 22,000  
Water 158,000  
Miscellaneous 120,000  
Service Contracts 170,000  
Permit Fees 314,300  
Sodium Bisulfite & Misc. Chemicals 115,700

\$1,379,694

(2) Sludge Processing

Polymer \$ 115,000  
K2MnO4 -

\$ 115,000

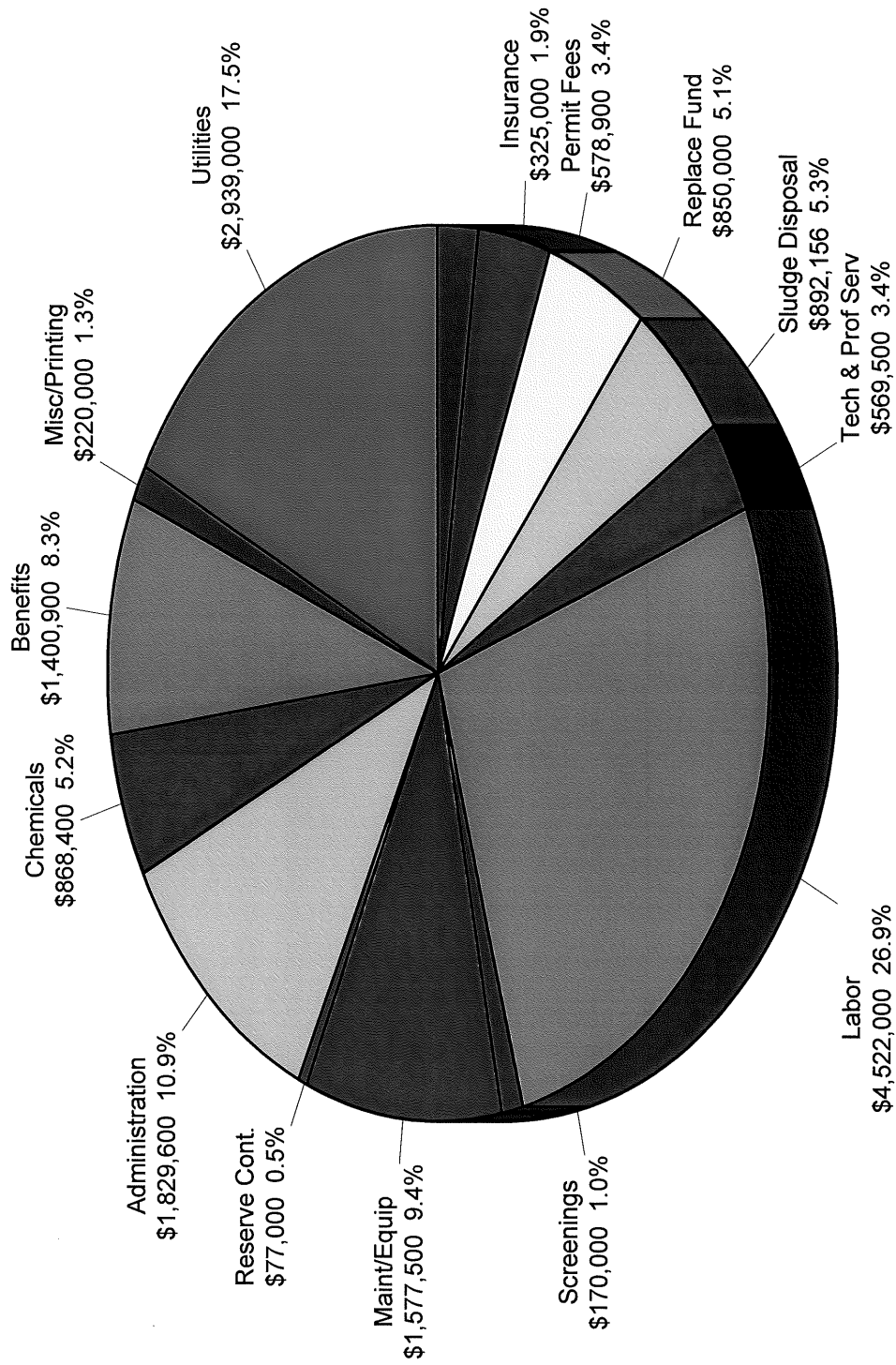
**Joint Meeting of Essex and Union Counties**  
**Annual Report of the Sewer Contribution of the Municipalities**  
**Appendix A (Continued)**  
**Operations and Management Allocations**

|                     | Estimated            |                     |                     |                     |
|---------------------|----------------------|---------------------|---------------------|---------------------|
|                     | Total Cost           | Cost Flow           | Cost TSS            | Cost BOD            |
| Treatment Plant     | \$ 11,314,574        | \$ 4,793,747        | \$ 1,476,015        | \$ 5,044,812        |
| Dewatering Facility | 3,773,176            |                     | 1,886,588           | 1,886,588           |
| Drying Facility     | 1,425,699            |                     | 712,850             | 712,850             |
|                     | <u>\$ 16,513,449</u> | <u>\$ 4,793,747</u> | <u>\$ 4,075,453</u> | <u>\$ 7,644,250</u> |
| Subtotal            | 100.00%              | 29.0293506%         | 24.6795960%         | 46.2910534%         |
| Sewers <sup>1</sup> | \$ 306,507           |                     |                     |                     |
| Total               | <u>\$ 16,819,956</u> |                     |                     |                     |

(1) Joint Meeting Members Only

# Joint Meeting of Essex & Union Counties

## 2001 O&M Budget



# JOINT MEETING OF ESSEX & UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001 SUMMARY

| MUNICIPALITY         | LOADINGS     |               |               |
|----------------------|--------------|---------------|---------------|
|                      | FLOW<br>(MG) | BOD<br>(tons) | TSS<br>(tons) |
| HILLSIDE             | 40.027       | 21.46908237   | 13.31487672   |
| IRVINGTON            | 32.126       | 34.02196665   | 25.53191754   |
| MAPLEWOOD            | 9.667        | 13.57302057   | 13.59800721   |
| MURRAY HILL          | 91.927       | 11.77649283   | 13.14238050   |
| ROSELLE PARK         | 1.887        | 0.17485227    | 0.34855779    |
| SUMMIT               | 69.077       | 18.15457455   | 26.10337017   |
| UNION                | 372.150      | 775.20275814  | 441.12392121  |
| WEST ORANGE          | 23.622       | 8.27431416    | 8.66832912    |
| <i>MEMBERS TOTAL</i> | 640.483      | 882.64706154  | 541.83136026  |
| <i>ELIZABETH</i>     | 201.579      | 1837.51811025 | 423.87798549  |
| <b>GRAND TOTAL</b>   | 842.062      | 2720.16517179 | 965.70934575  |

| MUNICIPALITY         | COSTS        |                |              | TOTAL          |
|----------------------|--------------|----------------|--------------|----------------|
|                      | FLOW         | BOD            | TSS          |                |
| HILLSIDE             | \$8,711.86   | \$9,486.69     | \$4,126.83   | \$22,325.38    |
| IRVINGTON            | \$6,992.21   | \$15,033.51    | \$7,913.40   | \$29,939.13    |
| MAPLEWOOD            | \$2,104.02   | \$5,997.60     | \$4,214.59   | \$12,316.21    |
| MURRAY HILL          | \$20,007.87  | \$5,203.76     | \$4,073.37   | \$29,285.00    |
| ROSELLE PARK         | \$410.70     | \$77.26        | \$108.03     | \$596.00       |
| SUMMIT               | \$15,034.58  | \$8,022.08     | \$8,090.52   | \$31,147.18    |
| UNION                | \$80,998.30  | \$342,543.99   | \$136,722.65 | \$560,264.93   |
| WEST ORANGE          | \$5,141.32   | \$3,656.23     | \$2,686.68   | \$11,484.22    |
| <i>MEMBERS TOTAL</i> | \$139,400.87 | \$390,021.12   | \$167,936.07 | \$697,358.05   |
| <i>ELIZABETH</i>     | \$40,429.41  | \$811,956.33   | \$131,377.41 | \$983,763.15   |
| <b>GRAND TOTAL</b>   | \$179,830.28 | \$1,201,977.44 | \$299,313.48 | \$1,681,121.21 |

**JOINT MEETING OF ESSEX & UNION COUNTIES**

**INDUSTRIAL USER CHARGE - 2001  
COST FACTORS**

|                              | <b>FLOW</b>   | <b>BOD</b>    | <b>TSS</b>    |
|------------------------------|---------------|---------------|---------------|
| <b>MEMBER MUNICIPALITIES</b> | \$217.6495969 | \$441.8766389 | \$309.9415828 |
| <b>ELIZABETH</b>             | \$200.5636165 | \$441.8766389 | \$309.9415828 |

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: HILLSIDE

|                 |                      |         | Cost Factors  |            |               |               |               |                |
|-----------------|----------------------|---------|---------------|------------|---------------|---------------|---------------|----------------|
|                 |                      |         | Concentration |            | Flow per MG   | BOD per Ton   | TSS per Ton   |                |
|                 |                      |         |               |            | \$217.6495969 | \$441.8766389 | \$309.9415828 |                |
| IU #            | INDUSTRY             | SITE    | BOD (mg/l)    | TSS (mg/l) | FLOW (MG)     | BOD (Tons)    | TSS (Tons)    | ANNUAL PAYMENT |
| 1012            | Atlantic Metal       | 1       | 13            | 88         | 5.002         | 0.2712        | 1.8355        |                |
|                 |                      | 2       | 25            | 83         | 6.148         | 0.6409        | 2.1279        |                |
|                 |                      | 99      | 177           | 133        | 0.988         | 0.7292        | 0.5480        |                |
|                 |                      | Totals: |               |            | 12.138        | 1.6413        | 4.5114        |                |
|                 | Cost Analysis:       |         |               | \$2,641.83 | \$725.26      | \$1,398.26    | \$4,765.35    |                |
| 1015            | Bristol-Myers R&D    | 1       | 203           | 205        | 5.503         | 4.6583        | 4.7042        |                |
|                 |                      | Totals: |               |            | 5.503         | 4.6583        | 4.7042        |                |
|                 | Cost Analysis:       |         |               | \$1,197.73 | \$2,058.41    | \$1,458.04    | \$4,714.18    |                |
| 1020            | Bristol Myers Pilot  | 5       | 142           | 68         | 0.092         | 0.0545        | 0.0261        |                |
|                 |                      | Totals: |               |            | 0.092         | 0.0545        | 0.0261        |                |
|                 | Cost Analysis:       |         |               | \$20.02    | \$24.07       | \$8.09        | \$52.18       |                |
| 1025            | Certified Processing | 1       | 820           | 20         | 2.724         | 9.3144        | 0.2272        |                |
|                 |                      | Totals: |               |            | 2.724         | 9.3144        | 0.2272        |                |
|                 | Cost Analysis:       |         |               | \$592.88   | \$4,115.84    | \$70.41       | \$4,779.13    |                |
| 1035            | ECD                  | 2       | 5             | 44         | 11.239        | 0.2343        | 2.0621        |                |
|                 |                      | 3       | 34            | 62         | 0.046         | 0.0065        | 0.0119        |                |
|                 |                      | Totals: |               |            | 11.285        | 0.2409        | 2.0740        |                |
|                 | Cost Analysis:       |         |               | \$2,456.18 | \$106.43      | \$642.83      | \$3,205.43    |                |
| 1042            | GEC Marconi / BAE    | 1       | 5             | 6          | 5.149         | 0.1074        | 0.1288        |                |
|                 |                      | Totals: |               |            | 5.149         | 0.1074        | 0.1288        |                |
|                 | Cost Analysis:       |         |               | \$1,120.68 | \$47.44       | \$39.93       | \$1,208.05    |                |
| 1050            | Manhattan Drug Co.   | 2       | 158           | 127        | 0.377         | 0.2484        | 0.1997        |                |
|                 |                      | 3       | 904           | 265        | 0.134         | 0.5051        | 0.1481        |                |
|                 |                      | Totals: |               |            | 0.511         | 0.7535        | 0.3477        |                |
|                 | Cost Analysis:       |         |               | \$111.22   | \$332.97      | \$107.78      | \$551.96      |                |
| 1054            | Oasis Foods          | 3       | 504           | 114        | 2.025         | 4.2559        | 0.9626        |                |
|                 |                      | 99      | 177           | 133        | 0.600         | 0.4429        | 0.3328        |                |
|                 |                      | Totals: |               |            | 2.625         | 4.6988        | 1.2954        |                |
|                 | Cost Analysis:       |         |               | \$571.33   | \$2,076.27    | \$401.50      | \$3,049.10    |                |
| HILLSIDE TOTALS |                      |         |               |            | 40.0270       | 21.4691       | 13.3149       |                |
|                 |                      |         |               |            | \$8,711.86    | \$9,486.69    | \$4,126.83    | \$22,325.38    |

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: IRVINGTON

|                  |                      |         | Cost Factors  |               |                              |                              |                              |                   |
|------------------|----------------------|---------|---------------|---------------|------------------------------|------------------------------|------------------------------|-------------------|
|                  |                      |         | Concentration |               | Flow per MG<br>\$217.6495969 | BOD per Ton<br>\$441.8766389 | TSS per Ton<br>\$309.9415828 |                   |
| IU #             | INDUSTRY             | SITE    | BOD<br>(mg/l) | TSS<br>(mg/l) | FLOW<br>(MG)                 | BOD<br>(Tons)                | TSS<br>(Tons)                | ANNUAL<br>PAYMENT |
| 2008             | Archon Vitamin       | 2       | 170           | 51            | 0.322                        | 0.2283                       | 0.0685                       |                   |
|                  |                      | 3       | 389           | 57            | 0.297                        | 0.4818                       | 0.0706                       |                   |
|                  | Totals:              |         |               | 0.619         | 0.7100                       | 0.1391                       |                              |                   |
|                  | Cost Analysis:       |         |               | \$134.73      | \$313.75                     | \$43.10                      |                              |                   |
|                  |                      |         |               |               |                              |                              | \$491.58                     |                   |
| 2035             | Industrial Retaining | 2       | 21            | 30            | 1.582                        | 0.1385                       | 0.1979                       |                   |
|                  |                      | 99      | 177           | 133           | 0.270                        | 0.1993                       | 0.1497                       |                   |
|                  | Totals:              |         |               | 1.852         | 0.3378                       | 0.3477                       |                              |                   |
|                  | Cost Analysis:       |         |               | \$403.09      | \$149.27                     | \$107.75                     |                              |                   |
|                  |                      |         |               |               |                              |                              | \$660.11                     |                   |
| 2036             | Intergel             | 1       | 715           | 80            | 1.506                        | 4.4902                       | 0.5024                       |                   |
|                  |                      | Totals: |               |               | 1.506                        | 4.4902                       | 0.5024                       |                   |
|                  | Cost Analysis:       |         |               | \$327.78      | \$1,984.12                   | \$155.72                     |                              |                   |
|                  |                      |         |               |               |                              |                              | \$2,467.62                   |                   |
| 2040             | Jabel                | 1       | 211           | 73            | 0.916                        | 0.8060                       | 0.2788                       |                   |
|                  |                      | Totals: |               |               | 0.916                        | 0.8060                       | 0.2788                       |                   |
|                  | Cost Analysis:       |         |               | \$199.37      | \$356.14                     | \$86.42                      |                              |                   |
|                  |                      |         |               |               |                              |                              | \$641.93                     |                   |
| 2050             | Max Marx Color       | 2       | 200           | 123           | 8.314                        | 6.9339                       | 4.2643                       |                   |
|                  |                      | Totals: |               |               | 8.314                        | 6.9339                       | 4.2643                       |                   |
|                  | Cost Analysis:       |         |               | \$1,809.54    | \$3,063.92                   | \$1,321.69                   |                              |                   |
|                  |                      |         |               |               |                              |                              | \$6,195.15                   |                   |
| 2055             | Revlon               | 4       | 149           | 330           | 1.647                        | 1.0233                       | 2.2664                       |                   |
|                  |                      | 99      | 177           | 133           | 3.446                        | 2.5435                       | 1.9112                       |                   |
|                  | Totals:              |         |               | 5.093         | 3.5668                       | 4.1776                       |                              |                   |
|                  | Cost Analysis:       |         |               | \$1,108.49    | \$1,576.08                   | \$1,294.82                   |                              |                   |
|                  |                      |         |               |               |                              |                              | \$3,979.39                   |                   |
| 2057             | SAL Cleaners         | 1       | 554           | 75            | 2.013                        | 4.6504                       | 0.6296                       |                   |
|                  |                      | 99      | 177           | 133           | 0.106                        | 0.0782                       | 0.0588                       |                   |
|                  | Totals:              |         |               | 2.119         | 4.7286                       | 0.6884                       |                              |                   |
|                  | Cost Analysis:       |         |               | \$461.20      | \$2,089.47                   | \$213.35                     |                              |                   |
|                  |                      |         |               |               |                              |                              | \$2,764.02                   |                   |
| 2060             | Cintas               | 1       | 255           | 310           | 11.707                       | 12.4486                      | 15.1336                      |                   |
|                  |                      | Totals: |               |               | 11.707                       | 12.4486                      | 15.1336                      |                   |
|                  | Cost Analysis:       |         |               | \$2,548.02    | \$5,500.76                   | \$4,690.54                   |                              |                   |
|                  |                      |         |               |               |                              |                              | \$12,739.33                  |                   |
| IRVINGTON TOTALS |                      |         |               |               | 32.1260                      | 34.0220                      | 25.5319                      |                   |
|                  |                      |         |               |               | \$6,992.21                   | \$15,033.51                  | \$7,913.40                   | \$29,939.13       |



## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: MAPLEWOOD

| IU #             | INDUSTRY                 | SITE | Concentration | BOD<br>(mg/l) | TSS<br>(mg/l) | Cost Factors  |               |               | ANNUAL<br>PAYMENT |
|------------------|--------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|
|                  |                          |      |               |               |               | Flow per MG   | BOD per Ton   | TSS per Ton   |                   |
|                  |                          |      |               |               |               | \$217,649.969 | \$441,876.389 | \$309.9415828 |                   |
| 3020             | Gleason Cleaners         | 1    | 248           | 74            | 1.042         | 1.0776        | 0.3215        |               |                   |
|                  | Totals:                  |      |               |               | 1.042         | 1.0776        | 0.3215        |               |                   |
|                  | Cost Analysis:           |      |               |               | \$226.79      | \$476.16      | \$99.66       |               | \$802.61          |
| 3033             | NJ Transit - Hilton Gar. | 3    | 351           | 373           | 8.527         | 12.4807       | 13.2630       |               |                   |
|                  | Totals:                  |      |               |               | 8.527         | 12.4807       | 13.2630       |               |                   |
|                  | Cost Analysis:           |      |               |               | \$1,855.90    | \$5,514.94    | \$4,110.75    |               | \$11,481.58       |
| 3045             | Carlton Chain            | 2    | 36            | 33            | 0.098         | 0.0147        | 0.0135        |               |                   |
|                  | Totals:                  |      |               |               | 0.098         | 0.0147        | 0.0135        |               |                   |
|                  | Cost Analysis:           |      |               |               | \$21.33       | \$6.50        | \$4.18        |               | \$32.01           |
| MAPLEWOOD TOTALS |                          |      |               |               | 9.6670        | 13.5730       | 13.5980       |               |                   |
|                  |                          |      |               |               | \$2,104.02    | \$5,997.60    | \$4,214.59    |               | \$12,316.21       |

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: MURRAY HILL

| IU #               | INDUSTRY           | SITE | Concentration |               | Cost Factors  |               |               | ANNUAL<br>PAYMENT |
|--------------------|--------------------|------|---------------|---------------|---------------|---------------|---------------|-------------------|
|                    |                    |      |               |               | Flow per MG   | BOD per Ton   | TSS per Ton   |                   |
|                    |                    |      |               |               | \$217.6495969 | \$441.8766389 | \$309.9415828 |                   |
|                    |                    |      | BOD<br>(mg/l) | TSS<br>(mg/l) | FLOW<br>(MG)  | BOD<br>(Tons) | TSS<br>(Tons) |                   |
| 5010               | Bell Labs / Lucent | 1    | 7             | 24            | 72.555        | 2.1179        | 7.2613        |                   |
|                    | Totals:            |      |               |               | 72.555        | 2.1179        | 7.2613        |                   |
|                    | Cost Analysis:     |      |               |               | \$15,791.57   | \$935.84      | \$2,250.58    | \$18,977.99       |
| 5020               | Fablok Mills       | 1    | 235           | 130           | 9.299         | 9.1126        | 5.0410        |                   |
|                    | Totals:            |      |               |               | 9.299         | 9.1126        | 5.0410        |                   |
|                    | Cost Analysis:     |      |               |               | \$2,023.92    | \$4,026.63    | \$1,562.41    | \$7,612.96        |
| 5021               | FRC-Electrical Ind | 1    | 13            | 20            | 10.073        | 0.5461        | 0.8401        |                   |
|                    | Totals:            |      |               |               | 10.073        | 0.5461        | 0.8401        |                   |
|                    | Cost Analysis:     |      |               |               | \$2,192.38    | \$241.29      | \$260.38      | \$2,694.05        |
| MURRAY HILL TOTALS |                    |      |               |               | 91.9270       | 11.7765       | 13.1424       |                   |
|                    |                    |      |               |               | \$20,007.87   | \$5,203.76    | \$4,073.37    | \$29,285.00       |

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2001

Municipality: ROSELLE PARK

| IU #                | INDUSTRY         | SITE | Concentration |               | Cost Factors  |               |               | ANNUAL<br>PAYMENT |
|---------------------|------------------|------|---------------|---------------|---------------|---------------|---------------|-------------------|
|                     |                  |      |               |               | Flow per MG   | BOD per Ton   | TSS per Ton   |                   |
|                     |                  |      |               |               | \$217.6495969 | \$441.8766389 | \$309.9415828 |                   |
|                     |                  |      | BOD<br>(mg/l) | TSS<br>(mg/l) | FLOW<br>(MG)  | BOD<br>(Tons) | TSS<br>(Tons) |                   |
| 6005                | Hexacon Electric | 1    | 6             | 35            | 1.708         | 0.0427        | 0.2493        |                   |
|                     |                  | 99   | 177           | 133           | 0.179         | 0.1321        | 0.0993        |                   |
|                     | Totals:          |      |               |               | 1.887         | 0.1749        | 0.3486        |                   |
|                     | Cost Analysis:   |      |               |               | \$410.70      | \$77.26       | \$108.03      | \$596.00          |
| ROSELLE PARK TOTALS |                  |      |               |               | 1.8870        | 0.1749        | 0.3486        |                   |
|                     |                  |      |               |               | \$410.70      | \$77.26       | \$108.03      | \$596.00          |

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2001

Municipality: SUMMIT

| IU #          | INDUSTRY | SITE           | Concentration | BOD<br>(mg/l) | TSS<br>(mg/l) | Cost Factors  |               |               | ANNUAL<br>PAYMENT |
|---------------|----------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|
|               |          |                |               |               |               | Flow per MG   | BOD per Ton   | TSS per Ton   |                   |
|               |          |                |               |               |               | \$217.6495969 | \$441.8766389 | \$309.9415828 |                   |
| 5505          | Ticona   | 1              | 78            | 126           |               | 10.659        | 3.4669        | 5.6005        |                   |
|               |          | Totals:        |               |               |               | 10.659        | 3.4669        | 5.6005        |                   |
|               |          | Cost Analysis: |               |               |               | \$2,319.93    | \$1,531.96    | \$1,735.81    | \$5,587.70        |
| 5510          | Novartis | 3a             | 36            | 74            |               | 48.353        | 7.2588        | 14.9208       |                   |
|               |          | 99             | 177           | 133           |               | 10.065        | 7.4289        | 5.5821        |                   |
|               |          | Totals:        |               |               |               | 58.418        | 14.6876       | 20.5029       |                   |
|               |          | Cost Analysis: |               |               |               | \$12,714.65   | \$6,490.12    | \$6,354.71    | \$25,559.48       |
| SUMMIT TOTALS |          |                |               |               |               | 69.0770       | 18.1546       | 26.1034       |                   |
|               |          |                |               |               |               | \$15,034.58   | \$8,022.08    | \$8,090.52    | \$31,147.18       |

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: UNION

| IU # | INDUSTRY                | SITE | Concentration |               | Cost Factors  |               |               | ANNUAL<br>PAYMENT |
|------|-------------------------|------|---------------|---------------|---------------|---------------|---------------|-------------------|
|      |                         |      |               |               | Flow per MG   | BOD per Ton   | TSS per Ton   |                   |
|      |                         |      |               |               | \$217.6495969 | \$441.8766389 | \$309.9415828 |                   |
|      |                         |      | BOD<br>(mg/l) | TSS<br>(mg/l) | FLOW<br>(MG)  | BOD<br>(Tons) | TSS<br>(Tons) |                   |
| 7015 | ACuPowder               | 3    | 154           | 183           | 0.266         | 0.1708        | 0.2030        |                   |
|      |                         | 4    | 49            | 62            | 2.052         | 0.4193        | 0.5305        |                   |
|      | Totals:                 |      |               |               | 2.318         | 0.5901        | 0.7335        |                   |
|      | Cost Analysis:          |      |               |               | \$504.51      | \$260.75      | \$227.35      | \$992.61          |
| 7025 | Allied Processing       | 1    | 3             | 2             | 0.497         | 0.0062        | 0.0041        |                   |
|      | Totals:                 |      |               |               | 0.497         | 0.0062        | 0.0041        |                   |
|      | Cost Analysis:          |      |               |               | \$108.17      | \$2.75        | \$1.28        | \$112.20          |
| 7045 | Breeze /TransTechnology | 1    | 205           | 213           | 1.037         | 0.8865        | 0.9211        |                   |
|      | Totals:                 |      |               |               | 1.037         | 0.8865        | 0.9211        |                   |
|      | Cost Analysis:          |      |               |               | \$225.70      | \$391.71      | \$285.48      | \$902.90          |
| 7060 | National Envelope       | 1    | 727           | 842           | 2.220         | 6.7301        | 7.7947        |                   |
|      | Totals:                 |      |               |               | 2.220         | 6.7301        | 7.7947        |                   |
|      | Cost Analysis:          |      |               |               | \$483.18      | \$2,973.89    | \$2,415.91    | \$5,872.98        |
| 7070 | Durex                   | 1    | 67            | 153           | 11.067        | 3.0920        | 7.0609        |                   |
|      | Totals:                 |      |               |               | 11.067        | 3.0920        | 7.0609        |                   |
|      | Cost Analysis:          |      |               |               | \$2,408.73    | \$1,366.29    | \$2,188.45    | \$5,963.47        |
| 7080 | Foremost Mfg            | 2    | 11            | 306           | 22.032        | 1.0106        | 28.1133       |                   |
|      | Totals:                 |      |               |               | 22.032        | 1.0106        | 28.1133       |                   |
|      | Cost Analysis:          |      |               |               | \$4,795.26    | \$446.56      | \$8,713.47    | \$13,955.29       |
| 7088 | Hanovia                 | 1    | 77            | 27            | 2.406         | 0.7725        | 0.2709        |                   |
|      | Totals:                 |      |               |               | 2.406         | 0.7725        | 0.2709        |                   |
|      | Cost Analysis:          |      |               |               | \$523.66      | \$341.37      | \$83.96       | \$948.99          |
| 7092 | Interlux / Courtaulds   | 2    | 76            | 106           | 5.772         | 1.8293        | 2.5513        |                   |
|      | Totals:                 |      |               |               | 5.772         | 1.8293        | 2.5513        |                   |
|      | Cost Analysis:          |      |               |               | \$1,256.27    | \$808.31      | \$790.77      | \$2,855.35        |
| 7105 | Stonco Lighting         | 2    | 58            | 122           | 3.082         | 0.7454        | 1.5679        |                   |
|      | Totals:                 |      |               |               | 3.082         | 0.7454        | 1.5679        |                   |
|      | Cost Analysis:          |      |               |               | \$670.80      | \$329.38      | \$485.97      | \$1,486.15        |
| 7110 | NEI DoAll               | 1    | 37            | 12            | 0.961         | 0.1483        | 0.0481        |                   |
|      |                         | 99   | 177           | 133           | 0.187         | 0.1380        | 0.1037        |                   |
|      | Totals:                 |      |               |               | 1.148         | 0.2863        | 0.1518        |                   |
|      | Cost Analysis:          |      |               |               | \$249.86      | \$126.51      | \$47.05       | \$423.42          |
| 7145 | Schering                | 5    | 31            | 29            | 192.263       | 24.8538       | 23.2504       |                   |
|      | Totals:                 |      |               |               | 192.263       | 24.8538       | 23.2504       |                   |
|      | Cost Analysis:          |      |               |               | \$41,845.96   | \$10,982.33   | \$7,206.25    | \$60,034.55       |

**JOINT MEETING OF ESSEX & UNION COUNTIES**

**INDUSTRIAL USER CHARGE - 2001**

**Municipality: UNION**

| IU #                | INDUSTRY        | SITE | Concentration |               | Cost Factors   |                |                | ANNUAL<br>PAYMENT |
|---------------------|-----------------|------|---------------|---------------|----------------|----------------|----------------|-------------------|
|                     |                 |      |               |               | Flow per MG    | BOD per Ton    | TSS per Ton    |                   |
|                     |                 |      |               |               | \$217,649.5969 | \$441,876.6389 | \$309,941.5828 |                   |
|                     |                 |      | BOD<br>(mg/l) | TSS<br>(mg/l) | FLOW<br>(MG)   | BOD<br>(Tons)  | TSS<br>(Tons)  |                   |
| 7150                | SS Studios      | 1    | 100           | 84            | 0.263          | 0.1097         | 0.0921         |                   |
|                     | Totals:         |      |               |               | 0.263          | 0.1097         | 0.0921         |                   |
|                     | Cost Analysis:  |      |               |               | \$57.24        | \$48.46        | \$28.55        | \$134.26          |
| 7155                | Tessler & Weiss | 20   | 298           | 37            | 2.130          | 2.6469         | 0.3286         |                   |
|                     | Totals:         |      |               |               | 2.130          | 2.6469         | 0.3286         |                   |
|                     | Cost Analysis:  |      |               |               | \$463.59       | \$1,169.59     | \$101.86       | \$1,735.04        |
| 7167                | Turbo Braze     | 1    | 342           | 229           | 1.253          | 1.7870         | 1.1965         |                   |
|                     | Totals:         |      |               |               | 1.253          | 1.7870         | 1.1965         |                   |
|                     | Cost Analysis:  |      |               |               | \$272.71       | \$789.61       | \$370.85       | \$1,433.18        |
| 7170                | Tuscan Dairy    | 2a   | 1481          | 736           | 110.184        | 680.4710       | 338.1679       |                   |
|                     |                 | 2b   | 818           | 479           | 14.478         | 49.3853        | 28.9188        |                   |
|                     | Totals:         |      |               |               | 124.662        | 729.8564       | 367.0867       |                   |
|                     | Cost Analysis:  |      |               |               | \$27,132.63    | \$322,506.48   | \$113,775.44   | \$463,414.55      |
| <b>UNION TOTALS</b> |                 |      |               |               | 372.1500       | 775.2028       | 441.1239       |                   |
|                     |                 |      |               |               | \$80,998.30    | \$342,543.99   | \$136,722.65   | \$560,264.93      |

JOINT MEETING OF ESSEX & UNION COUNTIES

INDUSTRIAL USER CHARGE - 2001

Municipality: WEST ORANGE

| IU #               | INDUSTRY | SITE           | Concentration | BOD<br>(mg/l) | TSS<br>(mg/l) | Cost Factors  |               |               | ANNUAL<br>PAYMENT |
|--------------------|----------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|
|                    |          |                |               |               |               | Flow per MG   | BOD per Ton   | TSS per Ton   |                   |
|                    |          |                |               |               |               | \$217.6495969 | \$441.8766389 | \$309.9415828 |                   |
| 8030               | Organon  | 1              | 84            | 88            |               | 23.622        | 8.2743        | 8.6683        |                   |
|                    |          | Totals:        |               |               |               | 23.622        | 8.2743        | 8.6683        |                   |
|                    |          | Cost Analysis: |               |               |               | \$5,141.32    | \$3,656.23    | \$2,686.68    | \$11,484.22       |
| WEST ORANGE TOTALS |          |                |               |               |               | 23.6220       | 8.2743        | 8.6683        |                   |
|                    |          |                |               |               |               | \$5,141.32    | \$3,656.23    | \$2,686.68    | \$11,484.22       |

## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: ELIZABETH

| IU # | INDUSTRY               | SITE | Concentration | BOD<br>(mg/l) | TSS<br>(mg/l) | Cost Factors                 |                              |                              | ANNUAL<br>PAYMENT |
|------|------------------------|------|---------------|---------------|---------------|------------------------------|------------------------------|------------------------------|-------------------|
|      |                        |      |               |               |               | Flow per MG<br>\$200.5636165 | BOD per Ton<br>\$441.8766389 | TSS per Ton<br>\$309.9415828 |                   |
|      |                        |      |               |               |               | FLOW<br>(MG)                 | BOD<br>(Tons)                | TSS<br>(Tons)                |                   |
| 0025 | Interbake Foods        | 3    | 820           | 384           |               | 24.083                       | 82.3494                      | 38.5636                      |                   |
|      | Totals:                |      |               |               |               | 24.083                       | 82.3494                      | 38.5636                      |                   |
|      | Cost Analysis:         |      |               |               |               | \$4,830.17                   | \$36,388.28                  | \$11,952.47                  | \$53,170.93       |
| 0030 | Concord Beverage       | 1    | 5149          | 84            |               | 20.861                       | 447.9134                     | 7.3072                       |                   |
|      | Totals:                |      |               |               |               | 20.861                       | 447.9134                     | 7.3072                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$4,183.96                   | \$197,922.47                 | \$2,264.80                   | \$204,371.23      |
| 0037 | Deb-El Foods           | 1    | 1896          | 313           |               | 6.196                        | 48.9876                      | 8.0871                       |                   |
|      | Totals:                |      |               |               |               | 6.196                        | 48.9876                      | 8.0871                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$1,242.69                   | \$21,646.46                  | \$2,506.52                   | \$25,395.67       |
| 0055 | Emkay Chemical Co.     | 1    | 505           | 111           |               | 0.719                        | 1.5141                       | 0.3328                       |                   |
|      | Totals:                |      |               |               |               | 0.719                        | 1.5141                       | 0.3328                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$144.21                     | \$669.05                     | \$103.15                     | \$916.40          |
| 0062 | Garcia Laundry         | 1    | 319           | 114           |               | 3.118                        | 4.1477                       | 1.4822                       |                   |
|      | Totals:                |      |               |               |               | 3.118                        | 4.1477                       | 1.4822                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$625.36                     | \$1,832.75                   | \$459.41                     | \$2,917.52        |
| 0067 | Purepac Pharmaceutical | 1    | 1448          | 22            |               | 3.658                        | 22.0876                      | 0.3356                       |                   |
|      | 99                     |      | 177           | 133           |               | 23.636                       | 17.4455                      | 13.1088                      |                   |
|      | Totals:                |      |               |               |               | 27.294                       | 39.5331                      | 13.4443                      |                   |
|      | Cost Analysis:         |      |               |               |               | \$5,474.18                   | \$17,468.75                  | \$4,166.96                   | \$27,109.89       |
| 0078 | Magnolia Beef          | 1    | 1162          | 231           |               | 0.390                        | 1.8898                       | 0.3757                       |                   |
|      | Totals:                |      |               |               |               | 0.390                        | 1.8898                       | 0.3757                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$78.22                      | \$835.04                     | \$116.44                     | \$1,029.70        |
| 0091 | NJ Turnpike Authority  | 1    | 9             | 6             |               | 1.412                        | 0.0530                       | 0.0353                       |                   |
|      | Totals:                |      |               |               |               | 1.412                        | 0.0530                       | 0.0353                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$283.20                     | \$23.42                      | \$10.95                      | \$317.56          |
| 0095 | OK Towel & Uniform     | 2    | 366           | 164           |               | 16.808                       | 25.6527                      | 11.4947                      |                   |
|      | Totals:                |      |               |               |               | 16.808                       | 25.6527                      | 11.4947                      |                   |
|      | Cost Analysis:         |      |               |               |               | \$3,371.07                   | \$11,335.33                  | \$3,562.67                   | \$18,269.08       |
| 0100 | Papetti's Hygrade Eggs | 4    | 2392          | 643           |               | 21.783                       | 217.2776                     | 58.4070                      |                   |
|      | 99                     |      | 177           | 133           |               | 2.236                        | 1.6504                       | 1.2401                       |                   |
|      | Totals:                |      |               |               |               | 24.019                       | 218.9280                     | 59.6471                      |                   |
|      | Cost Analysis:         |      |               |               |               | \$4,817.34                   | \$96,739.15                  | \$18,487.11                  | \$120,043.60      |
| 0105 | Jersey Pride Foods     | 2    | 4357          | 1212          |               | 50.991                       | 926.4397                     | 257.7106                     |                   |
|      | 2a                     |      | 594           | 107           |               | 2.771                        | 6.8637                       | 1.2364                       |                   |
|      | 2b                     |      | 431           | 54            |               | 1.663                        | 2.9889                       | 0.3745                       |                   |
|      | Totals:                |      |               |               |               | 55.425                       | 936.2922                     | 259.3214                     |                   |
|      | Cost Analysis:         |      |               |               |               | \$11,116.24                  | \$413,725.67                 | \$80,374.49                  | \$505,216.40      |
| 0120 | Phelps Dodge           | 1    | 12            | 36            |               | 0.948                        | 0.0474                       | 0.1423                       |                   |
|      | 99                     |      | 177           | 133           |               | 0.338                        | 0.2495                       | 0.1875                       |                   |
|      | Totals:                |      |               |               |               | 1.286                        | 0.2969                       | 0.3298                       |                   |
|      | Cost Analysis:         |      |               |               |               | \$257.92                     | \$131.20                     | \$102.21                     | \$491.33          |



## JOINT MEETING OF ESSEX &amp; UNION COUNTIES

## INDUSTRIAL USER CHARGE - 2001

Municipality: ELIZABETH

| IU #             | INDUSTRY                | SITE           | Concentration | BOD<br>(mg/l) | TSS<br>(mg/l) | Cost Factors                 |                              |                              | ANNUAL<br>PAYMENT |
|------------------|-------------------------|----------------|---------------|---------------|---------------|------------------------------|------------------------------|------------------------------|-------------------|
|                  |                         |                |               |               |               | Flow per MG<br>\$200.5636165 | BOD per Ton<br>\$441.8766389 | TSS per Ton<br>\$309.9415828 |                   |
| 0148             | Superior Powder Coating | 1              | 80            | 44            |               | 0.869                        | 0.2899                       | 0.1594                       |                   |
|                  |                         | 99             | 177           | 133           |               | 0.627                        | 0.4628                       | 0.3477                       |                   |
|                  |                         | Totals:        |               |               |               | 1.496                        | 0.7527                       | 0.5072                       |                   |
|                  |                         | Cost Analysis: |               |               |               | \$300.04                     | \$332.59                     | \$157.20                     | \$789.83          |
|                  |                         |                |               |               |               |                              |                              |                              |                   |
| 0155             | S&G Packaging           | 1              | 92            | 119           |               | 5.500                        | 2.1100                       | 2.7293                       |                   |
|                  |                         | 2              | 211           | 244           |               | 1.241                        | 1.0919                       | 1.2627                       |                   |
|                  |                         | 3              | 156           | 154           |               | 0.255                        | 0.1659                       | 0.1638                       |                   |
|                  |                         | Totals:        |               |               |               | 6.996                        | 3.3678                       | 4.1557                       |                   |
|                  |                         | Cost Analysis: |               |               |               | \$1,403.14                   | \$1,488.16                   | \$1,288.03                   | \$4,179.33        |
| 0165             | Wakefern Food Corp.     | 2              | 362           | 181           |               | 2.663                        | 4.0199                       | 2.0100                       |                   |
|                  |                         | 3              | 625           | 444           |               | 7.715                        | 20.1072                      | 14.2842                      |                   |
|                  |                         | 4              | 254           | 482           |               | 0.790                        | 0.8368                       | 1.5879                       |                   |
|                  |                         | 7              | 682           | 710           |               | 0.308                        | 0.8759                       | 0.9119                       |                   |
|                  |                         | Totals:        |               |               |               | 11.476                       | 25.8398                      | 18.7939                      |                   |
|                  |                         | Cost Analysis: |               |               |               | \$2,301.67                   | \$11,418.01                  | \$5,825.00                   | \$19,544.68       |
| ELIZABETH TOTALS |                         |                |               |               |               | 201.5790                     | 1,837.5181                   | 423.8780                     |                   |
|                  |                         |                |               |               |               | \$40,429.41                  | \$811,956.33                 | \$131,377.41                 | \$983,763.15      |