

Appendix VIII

Municipal Funding Allocation Model

Reference System Input Worksheet

| Reference Recycling System | Population Density | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|----------------------------|--------------------|---------------|---------------|---------------|--------------|--------------|--------------|------------------|--------------|---------------|---------------|--------------|------------|
| | | | ONP | Hhd Paper | OCC | OBB | OCC-OBB | Polycoat/aseptic | Mixed fibre | Aluminum | Steel Cans | Glass | |
| 23 | | Tonnes | 652,853 | 176,975 | 1,664 | 45,995 | 17,646 | 33,640 | 845 | 234,767 | 10,073 | 29,923 | 101,325 |
| | | Cubic Metres | 5,026,283.58 | 707,900.64 | 12,323.48 | 1,022,100.00 | 284,614.68 | 600,710.36 | 23,465.83 | 1,203,935.03 | 335,780.67 | 328,826.59 | 506,626.30 |
| | | Revenue/tonne | \$ 95.66 | \$88 | \$80 | \$73 | \$41 | \$41 | \$55 | \$82 | \$1,736 | \$46 | \$9 |
| | | Total Revenue | \$ 66,700,000 | \$ 15,632,216 | \$ 133,094 | \$ 3,372,777 | \$ 729,314 | \$ 1,390,332 | \$ 46,462 | \$ 19,171,100 | \$ 17,487,457 | \$ 1,376,468 | \$ 911,927 |
| | | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| | | | PETE | HDPE | Plastic Film | Plastic Tubs | Poly-styrene | Mixed Plastic | Commingled 1 | Commingled 2 | Commingled 3 | Commingled 4 | |
| | | | 12,679 | 6,894 | 1,814 | 509 | 304 | 3,785 | 11,249 | 6,073 | 777 | 285 | |
| | | | 507,156.40 | 275,779.60 | 64,796.79 | 15,437.27 | 25,326.67 | 151,401.60 | 56,813.74 | 33,929.72 | 13,637.19 | 3,697.14 | |
| | | | \$266 | \$282 | \$7 | \$4 | \$125 | \$243 | \$98 | \$115 | \$368 | \$443 | |
| | | | \$ 3,372,590 | \$ 1,946,521 | \$ 12,700 | \$ 2,206 | \$ 37,990 | \$ 918,516 | \$ 1,106,126 | \$ 696,439 | \$ 286,310 | \$ 126,207 | |

Reference System and Cost Distribution Parameters

| | | |
|-------------------------------------|-----------|---|
| Average Reference System Gross Cost | \$ 185.31 | /tonne |
| Weight Based Share | 40% | of total costs distributed in proportion to weight of material. |
| Glass Factor | 1.50 | Increase glass volume by a ratio of 1.5 to compensate for glass related problems. |

Note! Only shaded cells require input or are changeable.

Funding Parameters

| | | |
|-----------------------------------|----------|---|
| Funding Slope Multiplier (1 to 3) | 1.500 | Per tonne spread (\$0.00) between - MAXIMUM = \$0.00 () & MINIMUM = \$0.00 () |
| Average Provincial Net Cost | \$ 89.65 | /tonne for all recycling programs funded by WDO. |
| WDO Funding Share | 47.9% | of net costs |

Revenue Discount

| | |
|-------|---|
| 10.0% | maximum discount applied to revenue for communities with lowest total tonnes to compensate for economies of scale - discount is proportional to total tonnes with community with largest tonnes discounted at 0%. |
|-------|---|

Reference System Costs

| | | |
|--------------------------|----------------|---|
| Total Tonnes Marketed | 652,853 | |
| Average Gross Cost/Tonne | \$ 185.31 | |
| Total Gross Cost | \$ 120,980,230 | (\$185.31 per tonne times 652,853 tonnes) |
| Weight Based Share | 40% | \$ 48,392,092 \$ 74.12 /tonne (distributed in proportion to weight) |
| Volume Based Share | 60% | \$ 72,588,138 \$ 14.44 /cubic metre (distributed in proportion to volume) |
| Average Revenue | \$ 66,700,000 | \$ 95.66 /tonne |
| Net Cost | \$ 54,280,230 | \$ 83.14 /tonne |

Funding Area

| | | |
|----------------------------------|---------------|-------------------------------|
| Total Provincial Fundable Tonnes | 697,224 | carried over from Input sheet |
| Average Net Cost/tonne | \$ 89.65 | |
| Net Cost | \$ 62,506,119 | |
| Funded Share | 47.9% | of net costs |
| Funded Total | \$ 29,952,932 | 47.9% of net costs cap |
| Average | \$ 42.96 | /tonne |

Model Parameters

| | | |
|-----------------------------------|----------|---|
| Reference Net Cost/tonne | \$ 83.14 | |
| Reference System Funding | \$ 39.84 | /tonne based on 47.92% funding of total net costs |
| Actual Reference System Funding | \$ 31.23 | /tonne due to adjustment of 37.56% of Reference Community cost per tonne to meet total funding share of \$29,952,932. |
| Funding Slope Multiplier (1 to 3) | 1.5000 | Per tonne spread (\$0.00) between - MAXIMUM = \$0.00 () & MINIMUM = \$0.00 () |
| Glass Factor | 1.50 | Increase glass volume by 1.5 times to compensate for glass related problems. |
| Minimum Population Density | 0.006 | 'BARRIE ISLAND, TOWNSHIP OF' has the smallest population density of 0,006 people per hectare. |
| FF | 6.27 | Calculated Value that sets the 'Population Density Factor' for the 'Reference System' to 1.00. |

Reference Community and All Communities Material Tonnage Comparisons

WDO_Model

| Material | Total | Fibres | | | | | | | Containers | | | | | Commingled | | | |
|--|---------|---------|------------|--------|--------|---------|------------------|-------------|------------|------------|---------|--------|-------|--------------|--------------|--------------|--------------|
| | | ONP | Hhld Paper | OCC | OBB | OCC-OBB | Polycoat/aseptic | Mixed fibre | Aluminum | Steel Cans | Glass | PETE | HDPE | Commingled 1 | Commingled 2 | Commingled 3 | Commingled 4 |
| Reference Community | | | | | | | | | | | | | | | | | |
| Tonnes | 697,224 | 176,975 | 1,664 | 45,995 | 17,646 | 33,640 | 845 | 234,767 | 10,073 | 29,923 | 101,325 | 12,679 | 6,894 | 11,249 | 6,073 | 777 | 285 |
| % of Total | 100% | 25.4% | 0.2% | 6.6% | 2.5% | 4.8% | 0.1% | 33.7% | 1.4% | 4.3% | 14.5% | 1.8% | 1.0% | 1.6% | 0.9% | 0.1% | 0.0% |
| All Communities | | | | | | | | | | | | | | | | | |
| Tonnes | 690,811 | 176,975 | 1,664 | 45,995 | 17,646 | 33,640 | 845 | 234,767 | 10,073 | 29,923 | 101,325 | 12,679 | 6,894 | 11,249 | 6,073 | 777 | 285 |
| % of Total | 100% | 25.6% | 0.2% | 6.7% | 2.6% | 4.9% | 0.1% | 34.0% | 1.5% | 4.3% | 14.7% | 1.8% | 1.0% | 1.6% | 0.9% | 0.1% | 0.0% |
| ESSEX-WINDSOR SOLID WASTE AUTHORITY | | | | | | | | | | | | | | | | | |
| Tonnes | 19,811 | 13,112 | 31 | 1,474 | 1,339 | - | - | - | 341 | 890 | 1,990 | 383 | 4 | - | - | 247 | - |
| % of Total | 100% | 66.2% | 0.2% | 7.4% | 6.8% | - | - | - | 1.7% | 4.5% | 10.0% | 1.9% | 0.0% | - | - | 1.2% | - |

| Community | | Tonnes | WDO Funding | |
|-----------------------------|---|-----------|-------------|------------|
| | | | Total | Per Tonne |
| Essex-Windsor | ESSEX-WINDSOR SOLID WASTE AUTHORITY (7) | 19,811 | \$753,974 | \$38.06 |
| <i>Pop. Density = 2.071</i> | <i>Rank</i> | <i>10</i> | <i>12</i> | <i>129</i> |

This version of the model updated October 21, 2002 to reflect AMO/IFO Agreement on 2001 Gross and Net Cost
 Tonnage is based on 2001 Data Call tonnage
 Population density is based on 2001 census data
 Revenue is based on 2001 average revenue

