$$(1)\ \text{CityFE} = \frac{0.905}{(\text{StartFC} + \text{RunningFC})}$$

Where:

$$\text{StartFC} = 0.33 \times \left(\frac{(0.76 \times \text{StartFuel}_{75} + 0.24 \times \text{StartFuel}_{20})}{4.1} \right)$$

$$\text{StartFuel}_x = 3.6 \times \left[\frac{1}{\text{Bag 1 FE}_x} - \frac{1}{\text{Bag 3 FE}_x} \right]$$

$$\text{RunningFC} = 0.82 \times \left[\frac{0.48}{\text{Bag 2 FE}_{75}} + \frac{0.41}{\text{Bag 3 FE}_{75}} + \frac{0.11}{\text{US06 City FE}} \right] + 0.18 \times \left[\frac{0.5}{\text{Bag 2 FE}_{20}} + \frac{0.5}{\text{Bag 3 FE}_{20}} \right]$$

$$+ 0.133 \times 1.083 \times \left[\frac{1}{\text{SC0 3FE}} - \left(\frac{0.61}{\text{Bag 3 FE}_{75}} + \frac{0.39}{\text{Bag 2 FE}_{75}} \right) \right]$$