

Treatment Equations

Treatment	Capital Cost Equations (Best Fit)	Capital Cost Equations (Linear)	O&M Cost Equations (Best Fit)	O&M Cost Equations (Linear)
WBA	$y = -1.0844x^2 + 5774.6x + 989158$ (R2 = 0.9985)	$y = 3507.5x + 1E+06$ (R2 = 0.9857)	1 ug/L: $y = -0.0587x^2 + 704.15x + 49654$ (R2 = 1) 2 ug/L: $y = -0.051x^2 + 622.97x + 50028$ (R2 = 1) 5 ug/L: $y = -0.0462x^2 + 580.48x + 50256$ (R2 = 1) 10 ug/L: $y = -0.0339x^2 + 457.47x + 50476$ (R2 = 1) 25 ug/L: $y = -0.0275x^2 + 379.37x + 49805$ (R2 = 1)	$y = 581.47x + 67210$ (R2 = 0.9986) $y = 516.38x + 65283$ (R2 = 0.9986) $y = 483.9x + 64078$ (R2 = 0.9987) $y = 386.49x + 60634$ (R2 = 0.9989) $y = 321.8x + 58044$ (R2 = 0.999)
RCF	$y = -1.1196x^2 + 5716x + 2E+06$ (R2 = 1)	$y = 3242.2x + 2E+06$ (R2 = 0.9873)	5 ug/L: $y = -0.0963x^2 + 448.97x + 133986$ (R2 = 1) 10 ug/L: $y = -0.0979x^2 + 499.94x + 132905$ (R2 = 1) 25 ug/L: $y = -0.0982x^2 + 564.11x + 132891$ (R2 = 1) 50 ug/L: $y = -0.0982x^2 + 722.15x + 133088$ (R2 = 1)	$y = 236.22x + 181647$ (R2 = 0.9824) $y = 283.63x + 181365$ (R2 = 0.9873) $y = 347.17x + 181490$ (R2 = 0.9915) $y = 505.06x + 181721$ (R2 = 0.9959)
RCF+GMF	$y = -0.3889x^2 + 3922.6x + 2E+06$ (R2 = 1)	$y = 3063.3x + 2E+06$ (R2 = 0.9983)	5 ug/L: $y = -0.1127x^2 + 473.03x + 87905$ (R2 = 1) 10 ug/L: $y = -0.1133x^2 + 481.36x + 87076$ (R2 = 1) 25 ug/L: $y = -0.114x^2 + 491.83x + 86838$ (R2 = 1) 50 ug/L: $y = -0.1141x^2 + 513.87x + 87034$ (R2 = 1)	$y = 223.98x + 143697$ (R2 = 0.9735) $y = 231.08x + 143147$ (R2 = 0.9748) $y = 239.83x + 143291$ (R2 = 0.9763) $y = 261.72x + 143522$ (R2 = 0.98)
RCF+Vac	$y = -1.1753x^2 + 5691.9x + 1E+06$ (R2 = 1)	$y = 3095x + 2E+06$ (R2 = 0.9847)	$y = -0.1204x^2 + 582.83x + 88441$ (R2 = 1)	$y = 316.82x + 148034$ (R2 = 0.9847)
RCF+PSR	$y = -0.1704x^2 + 3206.5x + 2E+06$ (R2 = 1)	$y = 2829.9x + 2E+06$ (R2 = 0.9996)	$y = -0.1116x^2 + 571.96x + 94240$ (R2 = 1)	$y = 325.36x + 149484$ (R2 = 0.9875)
SBA	$y = -0.0357x^2 + 1508.5x + 1E+06$ (R2 = 0.9907)	$y = 1171.7x + 2E+06$ (R2 = 0.9855)	$y = 0.001x^2 + 126.59x + 124645$ (R2 = 0.9998)	$y = 136.46x + 116532$ (R2 = 0.9994)

The x in each equation is the design flow in GPM.