

**DIMENSIONAMENTO DA BACIA DE INFILTRAÇÃO Nº 11 PARA TR = 10 ANOS**  
MÉTODO RACIONAL

**K(cm/s)= 0.000211111**

**K (mm/h) = 7.6**

**K x 0.50= 3.8**

**K (m/s) = 1.05556E-06**

**Área de infiltração do RES (m²) = 3189.00**

**Área de Contribuição (ha) = 5.695**

**Tempo de Retorno = 10**

| Tempo (h) | Tempo (min) | Tr (anos) | I (mm/h) | C (adim) | A (ha) | Q (m³/s) | Vin (m³) | Vout (m³) | Máx. (Vin-Vout) (m³) | H=(Vin-Voput)/As (m) |
|-----------|-------------|-----------|----------|----------|--------|----------|----------|-----------|----------------------|----------------------|
| 1.0       | 60          | 10        | 58       | 0.57     | 5.70   | 0.53     | 1893     | 12        | 1881                 | 0.59                 |
| 2.0       | 120         | 10        | 35       | 0.57     | 5.70   | 0.32     | 2298     | 24        | 2274                 | 0.71                 |
| 3.0       | 180         | 10        | 26       | 0.57     | 5.70   | 0.23     | 2535     | 36        | 2499                 | 0.78                 |
| 5.0       | 300         | 10        | 17       | 0.57     | 5.70   | 0.16     | 2840     | 61        | 2780                 | 0.87                 |
| 7.0       | 420         | 10        | 13       | 0.57     | 5.70   | 0.12     | 3048     | 85        | 2963                 | 0.93                 |
| 9.0       | 540         | 10        | 11       | 0.57     | 5.70   | 0.10     | 3208     | 109       | 3099                 | 0.97                 |
| 11.0      | 660         | 10        | 9        | 0.57     | 5.70   | 0.08     | 3339     | 133       | 3206                 | 1.01                 |
| 13.0      | 780         | 10        | 8        | 0.57     | 5.70   | 0.07     | 3451     | 158       | 3293                 | 1.03                 |
| 15.0      | 900         | 10        | 7        | 0.57     | 5.70   | 0.07     | 3549     | 182       | 3367                 | 1.06                 |
| 17.0      | 1020        | 10        | 7        | 0.57     | 5.70   | 0.06     | 3636     | 206       | 3430                 | 1.08                 |
| 19.0      | 1140        | 10        | 6        | 0.57     | 5.70   | 0.05     | 3715     | 230       | 3485                 | 1.09                 |
| 21.0      | 1260        | 10        | 6        | 0.57     | 5.70   | 0.05     | 3787     | 254       | 3533                 | 1.11                 |
| 23.0      | 1380        | 10        | 5        | 0.57     | 5.70   | 0.05     | 3854     | 279       | 3575                 | 1.12                 |
| 25.0      | 1500        | 10        | 5        | 0.57     | 5.70   | 0.04     | 3916     | 303       | 3613                 | 1.13                 |
| 27.0      | 1620        | 10        | 5        | 0.57     | 5.70   | 0.04     | 3974     | 327       | 3646                 | 1.14                 |
| 29.0      | 1740        | 10        | 4        | 0.57     | 5.70   | 0.04     | 4028     | 351       | 3677                 | 1.15                 |
| 31.0      | 1860        | 10        | 4        | 0.57     | 5.70   | 0.04     | 4079     | 376       | 3704                 | 1.16                 |
| 33.0      | 1980        | 10        | 4        | 0.57     | 5.70   | 0.03     | 4128     | 400       | 3728                 | 1.17                 |
| 35.0      | 2100        | 10        | 4        | 0.57     | 5.70   | 0.03     | 4174     | 424       | 3750                 | 1.18                 |
| 37.0      | 2220        | 10        | 4        | 0.57     | 5.70   | 0.03     | 4218     | 448       | 3770                 | 1.18                 |
| 39.0      | 2340        | 10        | 3        | 0.57     | 5.70   | 0.03     | 4261     | 473       | 3788                 | 1.19                 |
| 41.0      | 2460        | 10        | 3        | 0.57     | 5.70   | 0.03     | 4301     | 497       | 3804                 | 1.19                 |
| 43.0      | 2580        | 10        | 3        | 0.57     | 5.70   | 0.03     | 4340     | 521       | 3819                 | 1.20                 |
| 45.0      | 2700        | 10        | 3        | 0.57     | 5.70   | 0.03     | 4377     | 545       | 3832                 | 1.20                 |
| 47.0      | 2820        | 10        | 3        | 0.57     | 5.70   | 0.03     | 4413     | 570       | 3844                 | 1.21                 |
| 49.0      | 2940        | 10        | 3        | 0.57     | 5.70   | 0.03     | 4448     | 594       | 3854                 | 1.21                 |
| 51.0      | 3060        | 10        | 3        | 0.57     | 5.70   | 0.02     | 4481     | 618       | 3863                 | 1.21                 |
| 53.0      | 3180        | 10        | 3        | 0.57     | 5.70   | 0.02     | 4514     | 642       | 3872                 | 1.21                 |
| 55.0      | 3300        | 10        | 3        | 0.57     | 5.70   | 0.02     | 4545     | 667       | 3879                 | 1.22                 |
| 57.0      | 3420        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4576     | 691       | 3885                 | 1.22                 |
| 59.0      | 3540        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4606     | 715       | 3891                 | 1.22                 |
| 61.0      | 3660        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4635     | 739       | 3895                 | 1.22                 |
| 63.0      | 3780        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4663     | 763       | 3899                 | 1.22                 |
| 65.0      | 3900        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4690     | 788       | 3902                 | 1.22                 |
| 67.0      | 4020        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4717     | 812       | 3905                 | 1.22                 |
| 69.0      | 4140        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4743     | 836       | 3907                 | 1.23                 |
| 71.0      | 4260        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4768     | 860       | 3908                 | 1.23                 |

*João Paulo*

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|-----------|-------------|-----------|----------|----------|--------|----------|----------|-----------|----------------------|----------------------|
| 73.0      | 4380        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4793     | 885       | 3908                 | 1.23                 |
| 75.0      | 4500        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4817     | 909       | 3908                 | 1.23                 |
| 77.0      | 4620        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4841     | 933       | 3908                 | 1.23                 |
| 79.0      | 4740        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4864     | 957       | 3907                 | 1.23                 |
| 81.0      | 4860        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4887     | 982       | 3906                 | 1.22                 |
| 83.0      | 4980        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4909     | 1006      | 3904                 | 1.22                 |
| 85.0      | 5100        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4931     | 1030      | 3901                 | 1.22                 |
| 87.0      | 5220        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4953     | 1054      | 3899                 | 1.22                 |
| 89.0      | 5340        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4974     | 1079      | 3895                 | 1.22                 |
| 91.0      | 5460        | 10        | 2        | 0.57     | 5.70   | 0.02     | 4995     | 1103      | 3892                 | 1.22                 |
| 93.0      | 5580        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5015     | 1127      | 3888                 | 1.22                 |
| 95.0      | 5700        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5035     | 1151      | 3884                 | 1.22                 |
| 97.0      | 5820        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5054     | 1175      | 3879                 | 1.22                 |
| 99.0      | 5940        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5074     | 1200      | 3874                 | 1.21                 |
| 101.0     | 6060        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5093     | 1224      | 3869                 | 1.21                 |
| 103.0     | 6180        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5111     | 1248      | 3863                 | 1.21                 |
| 105.0     | 6300        | 10        | 2        | 0.57     | 5.70   | 0.01     | 5130     | 1272      | 3857                 | 1.21                 |
| 107.0     | 6420        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5148     | 1297      | 3851                 | 1.21                 |
| 109.0     | 6540        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5166     | 1321      | 3845                 | 1.21                 |
| 111.0     | 6660        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5183     | 1345      | 3838                 | 1.20                 |
| 113.0     | 6780        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5200     | 1369      | 3831                 | 1.20                 |
| 115.0     | 6900        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5217     | 1394      | 3824                 | 1.20                 |
| 117.0     | 7020        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5234     | 1418      | 3816                 | 1.20                 |
| 119.0     | 7140        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5251     | 1442      | 3809                 | 1.19                 |
| 121.0     | 7260        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5267     | 1466      | 3801                 | 1.19                 |
| 123.0     | 7380        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5283     | 1491      | 3793                 | 1.19                 |
| 125.0     | 7500        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5299     | 1515      | 3784                 | 1.19                 |
| 127.0     | 7620        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5315     | 1539      | 3776                 | 1.18                 |
| 129.0     | 7740        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5330     | 1563      | 3767                 | 1.18                 |
| 131.0     | 7860        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5345     | 1587      | 3758                 | 1.18                 |
| 133.0     | 7980        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5361     | 1612      | 3749                 | 1.18                 |
| 135.0     | 8100        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5375     | 1636      | 3740                 | 1.17                 |
| 137.0     | 8220        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5390     | 1660      | 3730                 | 1.17                 |
| 139.0     | 8340        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5405     | 1684      | 3720                 | 1.17                 |
| 141.0     | 8460        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5419     | 1709      | 3710                 | 1.16                 |
| 143.0     | 8580        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5433     | 1733      | 3700                 | 1.16                 |
| 145.0     | 8700        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5447     | 1757      | 3690                 | 1.16                 |

*João Paulo L*

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|-----------|-------------|-----------|----------|----------|--------|----------|----------|-----------|----------------------|----------------------|
| 147.0     | 8820        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5461     | 1781      | 3680                 | 1.15                 |
| 149.0     | 8940        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5475     | 1806      | 3669                 | 1.15                 |
| 151.0     | 9060        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5489     | 1830      | 3659                 | 1.15                 |
| 153.0     | 9180        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5502     | 1854      | 3648                 | 1.14                 |
| 155.0     | 9300        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5515     | 1878      | 3637                 | 1.14                 |
| 157.0     | 9420        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5529     | 1903      | 3626                 | 1.14                 |
| 159.0     | 9540        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5542     | 1927      | 3615                 | 1.13                 |
| 161.0     | 9660        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5555     | 1951      | 3603                 | 1.13                 |
| 163.0     | 9780        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5567     | 1975      | 3592                 | 1.13                 |
| 165.0     | 9900        | 10        | 1        | 0.57     | 5.70   | 0.01     | 5580     | 2000      | 3580                 | 1.12                 |
| 167.0     | 10020       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5592     | 2024      | 3569                 | 1.12                 |
| 169.0     | 10140       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5605     | 2048      | 3557                 | 1.12                 |
| 171.0     | 10260       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5617     | 2072      | 3545                 | 1.11                 |
| 173.0     | 10380       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5629     | 2096      | 3533                 | 1.11                 |
| 175.0     | 10500       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5641     | 2121      | 3521                 | 1.10                 |
| 177.0     | 10620       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5653     | 2145      | 3508                 | 1.10                 |
| 179.0     | 10740       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5665     | 2169      | 3496                 | 1.10                 |
| 181.0     | 10860       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5677     | 2193      | 3483                 | 1.09                 |
| 183.0     | 10980       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5688     | 2218      | 3471                 | 1.09                 |
| 185.0     | 11100       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5700     | 2242      | 3458                 | 1.08                 |
| 187.0     | 11220       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5711     | 2266      | 3445                 | 1.08                 |
| 189.0     | 11340       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5723     | 2290      | 3432                 | 1.08                 |
| 191.0     | 11460       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5734     | 2315      | 3419                 | 1.07                 |
| 193.0     | 11580       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5745     | 2339      | 3406                 | 1.07                 |
| 195.0     | 11700       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5756     | 2363      | 3393                 | 1.06                 |
| 197.0     | 11820       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5767     | 2387      | 3379                 | 1.06                 |
| 199.0     | 11940       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5778     | 2412      | 3366                 | 1.06                 |
| 201.0     | 12060       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5788     | 2436      | 3353                 | 1.05                 |
| 203.0     | 12180       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5799     | 2460      | 3339                 | 1.05                 |
| 205.0     | 12300       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5810     | 2484      | 3325                 | 1.04                 |
| 207.0     | 12420       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5820     | 2508      | 3312                 | 1.04                 |
| 209.0     | 12540       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5830     | 2533      | 3298                 | 1.03                 |
| 211.0     | 12660       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5841     | 2557      | 3284                 | 1.03                 |
| 213.0     | 12780       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5851     | 2581      | 3270                 | 1.03                 |
| 215.0     | 12900       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5861     | 2605      | 3256                 | 1.02                 |
| 217.0     | 13020       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5871     | 2630      | 3242                 | 1.02                 |
| 219.0     | 13140       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5881     | 2654      | 3227                 | 1.01                 |

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|-----------|-------------|-----------|----------|----------|--------|----------|----------|-----------|----------------------|----------------------|
| 221.0     | 13260       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5891     | 2678      | 3213                 | 1.01                 |
| 223.0     | 13380       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5901     | 2702      | 3199                 | 1.00                 |
| 225.0     | 13500       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5911     | 2727      | 3184                 | 1.00                 |
| 227.0     | 13620       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5921     | 2751      | 3170                 | 0.99                 |
| 229.0     | 13740       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5930     | 2775      | 3155                 | 0.99                 |
| 231.0     | 13860       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5940     | 2799      | 3141                 | 0.98                 |
| 233.0     | 13980       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5949     | 2824      | 3126                 | 0.98                 |
| 235.0     | 14100       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5959     | 2848      | 3111                 | 0.98                 |
| 237.0     | 14220       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5968     | 2872      | 3096                 | 0.97                 |
| 239.0     | 14340       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5977     | 2896      | 3081                 | 0.97                 |
| 241.0     | 14460       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5987     | 2920      | 3066                 | 0.96                 |
| 243.0     | 14580       | 10        | 1        | 0.57     | 5.70   | 0.01     | 5996     | 2945      | 3051                 | 0.96                 |
| 245.0     | 14700       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6005     | 2969      | 3036                 | 0.95                 |
| 247.0     | 14820       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6014     | 2993      | 3021                 | 0.95                 |
| 249.0     | 14940       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6023     | 3017      | 3006                 | 0.94                 |
| 251.0     | 15060       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6032     | 3042      | 2990                 | 0.94                 |
| 253.0     | 15180       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6041     | 3066      | 2975                 | 0.93                 |
| 255.0     | 15300       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6050     | 3090      | 2960                 | 0.93                 |
| 257.0     | 15420       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6059     | 3114      | 2944                 | 0.92                 |
| 259.0     | 15540       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6067     | 3139      | 2929                 | 0.92                 |
| 261.0     | 15660       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6076     | 3163      | 2913                 | 0.91                 |
| 263.0     | 15780       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6085     | 3187      | 2898                 | 0.91                 |
| 265.0     | 15900       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6093     | 3211      | 2882                 | 0.90                 |
| 267.0     | 16020       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6102     | 3236      | 2866                 | 0.90                 |
| 269.0     | 16140       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6110     | 3260      | 2850                 | 0.89                 |
| 271.0     | 16260       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6119     | 3284      | 2834                 | 0.89                 |
| 273.0     | 16380       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6127     | 3308      | 2819                 | 0.88                 |
| 275.0     | 16500       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6135     | 3333      | 2803                 | 0.88                 |
| 277.0     | 16620       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6143     | 3357      | 2787                 | 0.87                 |
| 279.0     | 16740       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6152     | 3381      | 2771                 | 0.87                 |
| 281.0     | 16860       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6160     | 3405      | 2755                 | 0.86                 |
| 283.0     | 16980       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6168     | 3429      | 2738                 | 0.86                 |
| 285.0     | 17100       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6176     | 3454      | 2722                 | 0.85                 |
| 287.0     | 17220       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6184     | 3478      | 2706                 | 0.85                 |
| 289.0     | 17340       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6192     | 3502      | 2690                 | 0.84                 |
| 291.0     | 17460       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6200     | 3526      | 2673                 | 0.84                 |
| 293.0     | 17580       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6208     | 3551      | 2657                 | 0.83                 |

*João Paulo L*

**DIMENSIONAMENTO DA BACIA DE INFILTRAÇÃO Nº 11 PARA TR = 10 ANOS**  
MÉTODO RACIONAL

K(cm/s)= 0.000211111

K (mm/h) = 7.6

K x 0.50= 3.8

K (m/s) = 1.05556E-06

Área de infiltração do RES (m²) = 3189.00

Área de Contribuição (ha) = 5.695

Tempo de Retorno = 10

| Tempo (h) | Tempo (min) | Tr (anos) | I (mm/h) | C (adim) | A (ha) | Q (m³/s) | Vin (m³) | Vout (m³) | Máx. (Vin-Vout) (m³) | H=(Vin-Voput)/As (m) |
|-----------|-------------|-----------|----------|----------|--------|----------|----------|-----------|----------------------|----------------------|
| 295.0     | 17700       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6216     | 3575      | 2641                 | 0.83                 |
| 297.0     | 17820       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6223     | 3599      | 2624                 | 0.82                 |
| 299.0     | 17940       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6231     | 3623      | 2608                 | 0.82                 |
| 301.0     | 18060       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6239     | 3648      | 2591                 | 0.81                 |
| 303.0     | 18180       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6247     | 3672      | 2575                 | 0.81                 |
| 305.0     | 18300       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6254     | 3696      | 2558                 | 0.80                 |
| 307.0     | 18420       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6262     | 3720      | 2541                 | 0.80                 |
| 309.0     | 18540       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6269     | 3745      | 2525                 | 0.79                 |
| 311.0     | 18660       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6277     | 3769      | 2508                 | 0.79                 |
| 313.0     | 18780       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6284     | 3793      | 2491                 | 0.78                 |
| 315.0     | 18900       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6292     | 3817      | 2474                 | 0.78                 |
| 317.0     | 19020       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6299     | 3841      | 2458                 | 0.77                 |
| 319.0     | 19140       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6306     | 3866      | 2441                 | 0.77                 |
| 321.0     | 19260       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6314     | 3890      | 2424                 | 0.76                 |
| 323.0     | 19380       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6321     | 3914      | 2407                 | 0.75                 |
| 325.0     | 19500       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6328     | 3938      | 2390                 | 0.75                 |
| 327.0     | 19620       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6335     | 3963      | 2373                 | 0.74                 |
| 329.0     | 19740       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6343     | 3987      | 2356                 | 0.74                 |
| 331.0     | 19860       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6350     | 4011      | 2339                 | 0.73                 |
| 333.0     | 19980       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6357     | 4035      | 2322                 | 0.73                 |
| 335.0     | 20100       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6364     | 4060      | 2304                 | 0.72                 |
| 337.0     | 20220       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6371     | 4084      | 2287                 | 0.72                 |
| 339.0     | 20340       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6378     | 4108      | 2270                 | 0.71                 |
| 341.0     | 20460       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6385     | 4132      | 2253                 | 0.71                 |
| 343.0     | 20580       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6392     | 4157      | 2235                 | 0.70                 |
| 345.0     | 20700       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6399     | 4181      | 2218                 | 0.70                 |
| 347.0     | 20820       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6406     | 4205      | 2201                 | 0.69                 |
| 349.0     | 20940       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6412     | 4229      | 2183                 | 0.68                 |
| 351.0     | 21060       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6419     | 4253      | 2166                 | 0.68                 |
| 353.0     | 21180       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6426     | 4278      | 2148                 | 0.67                 |
| 355.0     | 21300       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6433     | 4302      | 2131                 | 0.67                 |
| 357.0     | 21420       | 10        | 1        | 0.57     | 5.70   | 0.01     | 6439     | 4326      | 2113                 | 0.66                 |
| 359.0     | 21540       | 10        | 1        | 0.57     | 5.70   | 0.00     | 6446     | 4350      | 2096                 | 0.66                 |
| 361.0     | 21660       | 10        | 1        | 0.57     | 5.70   | 0.00     | 6453     | 4375      | 2078                 | 0.65                 |
| 363.0     | 21780       | 10        | 1        | 0.57     | 5.70   | 0.00     | 6459     | 4399      | 2060                 | 0.65                 |
| 365.0     | 21900       | 10        | 1        | 0.57     | 5.70   | 0.00     | 6466     | 4423      | 2043                 | 0.64                 |
| 367.0     | 22020       | 10        | 1        | 0.57     | 5.70   | 0.00     | 6473     | 4447      | 2025                 | 0.64                 |

**DIMENSIONAMENTO DA BACIA DE INFILTRAÇÃO Nº 11 PARA TR = 10 ANOS**  
MÉTODO RACIONAL

**K(cm/s)= 0.000211111**

**K (mm/h) = 7.6**

**K x 0.50= 3.8**

**K (m/s) = 1.05556E-06**

**Área de infiltração do RES (m²) = 3189.00**

**Área de Contribuição (ha) = 5.695**

**Tempo de Retorno = 10**

| Tempo<br>(h) | Tempo<br>(min) | Tr<br>(anos) | I<br>(mm/h) | C<br>(adim) | A<br>(ha) | Q<br>(m³/s) | Vin<br>(m³) | Vout<br>(m3) | Máx. (Vin-Vout)<br>(m³) | H=(Vin-Voput)/As<br>(m) |
|--------------|----------------|--------------|-------------|-------------|-----------|-------------|-------------|--------------|-------------------------|-------------------------|
| 369.0        | 22140          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6479        | 4472         | 2007                    | 0.63                    |
| 371.0        | 22260          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6486        | 4496         | 1990                    | 0.62                    |
| 373.0        | 22380          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6492        | 4520         | 1972                    | 0.62                    |
| 375.0        | 22500          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6498        | 4544         | 1954                    | 0.61                    |
| 377.0        | 22620          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6505        | 4569         | 1936                    | 0.61                    |
| 379.0        | 22740          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6511        | 4593         | 1918                    | 0.60                    |
| 381.0        | 22860          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6518        | 4617         | 1901                    | 0.60                    |
| 383.0        | 22980          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6524        | 4641         | 1883                    | 0.59                    |
| 385.0        | 23100          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6530        | 4666         | 1865                    | 0.58                    |
| 387.0        | 23220          | 10           | 1           | 0.57        | 5.70      | 0.00        | 6536        | 4690         | 1847                    | 0.58                    |

*João Paulo*