

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Á.C. Acum.	Área Aterro	Á. A. Acum.	Semi-Dis.	Vol.Corte	V.C.Acum.	Vol.Aterro	V.A.Acum.
0	0,022	0,022	0,062	0,062					
					10,000	0,220	0,220	7,460	7,460
1	0,000	0,022	0,684	0,746					
					10,000	0,000	0,220	25,750	33,210
2	0,000	0,022	1,891	2,637					
					10,000	0,000	0,220	62,510	95,720
3	0,000	0,022	4,360	6,997					
					10,000	0,000	0,220	75,940	171,660
4	0,000	0,022	3,234	10,231					
					10,000	0,000	0,220	85,300	256,960
5	0,000	0,022	5,296	15,527					
					10,000	0,000	0,220	77,320	334,280
6	0,000	0,022	2,436	17,963					
					10,000	22,350	22,570	24,360	358,640
7	2,235	2,257	0,000	17,963					
					10,000	73,870	96,440	0,000	358,640
8	5,152	7,409	0,000	17,963					
					10,000	61,590	158,030	0,000	358,640
9	1,007	8,416	0,000	17,963					
					10,000	14,200	172,230	0,000	358,640
10	0,413	8,829	0,000	17,963					
					10,000	15,050	187,280	0,000	358,640
11	1,092	9,921	0,000	17,963					
					10,000	32,700	219,980	0,000	358,640
12	2,178	12,099	0,000	17,963					
					10,000	28,820	248,800	0,040	358,680
13	0,704	12,803	0,004	17,967					
					10,000	7,040	255,840	15,240	373,920
14	0,000	12,803	1,520	19,487					
					10,000	0,000	255,840	50,220	424,140
15	0,000	12,803	3,502	22,989					
					10,000	0,000	255,840	74,350	498,490
16	0,000	12,803	3,933	26,922					
					8,160	0,000	255,840	43,754	542,244
16+16,320	0,000	12,803	1,429	28,351					
					1,840	0,000	255,840	3,570	545,814
17	0,000	12,803	0,511	28,862					
					10,000	29,200	285,040	5,110	550,924
18	2,920	15,723	0,000	28,862					
					10,000	41,570	326,610	0,000	550,924
19	1,237	16,960	0,000	28,862					
					10,000	28,810	355,420	0,000	550,924
20	1,644	18,604	0,000	28,862					
					10,000	40,940	396,360	0,000	550,924
21	2,450	21,054	0,000	28,862					
					10,000	76,470	472,830	0,000	550,924
22	5,197	26,251	0,000	28,862					
					10,000	70,330	543,160	0,000	550,924
23	1,836	28,087	0,000	28,862					

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23	1,836	28,087	0,000	28,862					
					10,000	29,170	502,000	0,000	550,924
24	1,081	29,168	0,000	28,862					
					7,105	16,256	518,256	0,000	550,924
24+14,210	1,207	30,375	0,000	28,862					
					2,895	5,721	523,977	0,000	550,924
25	0,769	31,144	0,000	28,862					
					10,000	18,910	542,887	0,000	550,924
26	1,122	32,266	0,000	28,862					
					7,058	31,356	574,243	0,000	550,924
26+14,115	3,321	35,587	0,000	28,862					
					2,942	15,098	589,341	0,000	550,924
27	1,810	37,397	0,000	28,862					
					6,918	14,859	604,200	0,713	551,637
27+13,835	0,338	37,735	0,103	28,965					
					3,082	2,518	606,718	0,391	552,028
28	0,479	38,214	0,024	28,989					
					10,000	24,460	631,178	0,240	552,268
29	1,967	40,181	0,000	28,989					
					10,000	19,670	650,848	19,930	572,198
30	0,000	40,181	1,993	30,982					
					6,262	1,371	652,219	12,725	584,923
30+12,525	0,219	40,400	0,039	31,021					
					3,738	4,907	657,126	0,146	585,069
31	1,094	41,494	0,000	31,021					
					8,688	39,407	696,533	0,000	585,069
31+17,375	3,442	44,936	0,000	31,021					
					1,313	9,450	705,983	0,000	585,069
32	3,758	48,694	0,000	31,021					
					10,000	63,480	769,463	0,000	585,069
33	2,590	51,284	0,000	31,021					
					10,000	25,900	795,363	27,180	612,249
34	0,000	51,284	2,718	33,739					
					10,000	0,000	795,363	144,250	756,499
35	0,000	51,284	11,707	45,446					
					3,351	0,000	795,363	98,849	855,348
35+6,703	0,000	51,284	17,787	63,233					
					6,649	0,000	795,363	266,100	1.121,448
36	0,000	51,284	22,237	85,470					
					10,000	0,000	795,363	430,820	1.552,268
37	0,000	51,284	20,845	106,315					
					10,000	0,000	795,363	359,960	1.912,228
38	0,000	51,284	15,151	121,466					
					10,000	0,000	795,363	245,290	2.157,518
39	0,000	51,284	9,378	130,844					
					10,000	0,000	795,363	129,820	2.287,338
40	0,000	51,284	3,604	134,448					
					10,000	0,000	795,363	44,850	2.332,188
41	0,000	51,284	0,881	135,329					

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41	0,000	51,284	0,881	135,329					
					10,000	0,790	866,483	9,380	2.296,718
42	0,079	51,363	0,057	135,386					
					10,000	10,740	877,223	0,570	2.297,288
43	0,995	52,358	0,000	135,386					
					10,000	13,670	890,893	0,000	2.297,288
44	0,372	52,730	0,000	135,386					
					10,000	3,720	894,613	25,700	2.322,988
45	0,000	52,730	2,570	137,956					
					10,000	0,000	894,613	106,350	2.429,338
46	0,000	52,730	8,065	146,021					
					10,000	0,000	894,613	212,250	2.641,588
47	0,000	52,730	13,160	159,181					
					10,000	0,000	894,613	213,900	2.855,488
48	0,000	52,730	8,230	167,411					
					10,000	19,650	914,263	82,300	2.937,788
49	1,965	54,695	0,000	167,411					
					10,000	143,710	1.057,973	0,000	2.937,788
50	12,406	67,101	0,000	167,411					
					10,000	308,340	1.366,313	0,000	2.937,788
51	18,428	85,529	0,000	167,411					
					10,000	269,950	1.636,263	0,000	2.937,788
52	8,567	94,096	0,000	167,411					
					10,000	107,270	1.743,533	0,000	2.937,788
53	2,160	96,256	0,000	167,411					
					10,000	24,390	1.767,923	0,000	2.937,788
54	0,279	96,535	0,000	167,411					
					10,000	12,050	1.779,973	0,910	2.938,698
55	0,926	97,461	0,091	167,502					
					10,000	24,900	1.804,873	0,910	2.939,608
56	1,564	99,025	0,000	167,502					
					10,000	26,040	1.830,913	0,000	2.939,608
57	1,040	100,065	0,000	167,502					
					10,000	14,940	1.845,853	0,000	2.939,608
58	0,454	100,519	0,000	167,502					
					10,000	4,540	1.850,393	7,240	2.946,848
59	0,000	100,519	0,724	168,226					
					10,000	10,730	1.861,123	7,240	2.954,088
60	1,073	101,592	0,000	168,226					
					10,000	39,180	1.900,303	0,000	2.954,088
61	2,845	104,437	0,000	168,226					
					10,000	47,190	1.947,493	0,000	2.954,088
62	1,874	106,311	0,000	168,226					
					10,000	59,540	2.007,033	0,000	2.954,088
63	4,080	110,391	0,000	168,226					
					10,000	122,550	2.129,583	0,000	2.954,088
64	8,175	118,566	0,000	168,226					
					10,000	195,530	2.325,113	0,000	2.954,088
65	11,378	129,944	0,000	168,226					

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65	11,378	129,944	0,000	168,226					
					10,000	232,550	2.362,133	0,000	2.998,938
66	11,877	141,821	0,000	168,226					
					10,000	163,300	2.525,433	0,000	2.998,938
67	4,453	146,274	0,000	168,226					
					5,650	25,162	2.550,595	12,465	3.011,403
67+11,301	0,000	146,274	2,206	170,432					
					4,350	0,000	2.550,595	55,208	3.066,611
68	0,000	146,274	10,487	180,919					
					10,000	0,000	2.550,595	286,540	3.353,151
69	0,000	146,274	18,167	199,086					
					10,000	0,000	2.550,595	329,140	3.682,291
70	0,000	146,274	14,747	213,833					
					10,000	0,000	2.550,595	284,480	3.966,771
71	0,000	146,274	13,701	227,534					
					4,428	0,000	2.550,595	95,705	4.062,476
71+8,855	0,000	146,274	7,915	235,449					
					0,129	0,000	2.550,595	2,004	4.064,480
71+9,112	0,000	146,274	7,684	243,133					
					5,444	0,000	2.550,595	45,550	4.110,030
72	0,000	146,274	0,683	243,816					
					10,000	152,030	2.702,625	6,830	4.116,860
73	15,203	161,477	0,000	243,816					
					10,000	481,240	3.183,865	0,000	4.116,860
74	32,921	194,398	0,000	243,816					
					10,000	754,630	3.938,495	0,000	4.116,860
75	42,542	236,940	0,000	243,816					
					10,000	851,450	4.789,945	0,000	4.116,860
76	42,603	279,543	0,000	243,816					
					10,000	816,610	5.606,555	0,000	4.116,860
77	39,058	318,601	0,000	243,816					
					9,623	566,583	6.173,138	0,000	4.116,860
77+19,246	19,820	338,421	0,000	243,816					
					0,309	12,081	6.185,219	0,000	4.116,860
77+19,865	19,215	357,636	0,000	243,816					
					0,067	2,583	6.187,802	0,000	4.116,860
78	19,058	376,694	0,000	243,816					
					10,000	191,120	6.378,922	6,100	4.122,960
79	0,054	376,748	0,610	244,426					
					10,000	0,540	6.379,462	222,640	4.345,600
80	0,000	376,748	21,654	266,080					
					10,000	0,000	6.379,462	584,100	4.929,700
81	0,000	376,748	36,756	302,836					
					10,000	0,000	6.379,462	649,990	5.579,690
82	0,000	376,748	28,243	331,079					
					7,627	0,000	6.379,462	363,709	5.943,399
82+15,254	0,000	376,748	19,444	350,523					
					0,128	0,000	6.379,462	4,930	5.948,329
82+15,509	0,000	376,748	19,221	369,744					

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82+15,509	0,000	376,748	19,221	369,744					
					2,245	0,000	6.574,992	78,550	6.021,949
83	0,000	376,748	15,760	385,504					
					10,000	0,000	6.574,992	273,090	6.295,039
84	0,000	376,748	11,549	397,053					
					10,000	0,000	6.574,992	142,750	6.437,789
85	0,000	376,748	2,726	399,779					
					10,000	0,000	6.574,992	72,810	6.510,599
86	0,000	376,748	4,555	404,334					
					10,000	0,000	6.574,992	181,710	6.692,309
87	0,000	376,748	13,616	417,950					
					10,000	0,000	6.574,992	294,610	6.986,919
88	0,000	376,748	15,845	433,795					
					10,000	0,000	6.574,992	206,550	7.193,469
89	0,000	376,748	4,810	438,605					
					5,136	0,395	6.575,387	25,449	7.218,918
89+10,272	0,077	376,825	0,145	438,750					
					4,864	3,667	6.579,054	0,798	7.219,716
90	0,677	377,502	0,019	438,769					
					10,000	6,770	6.585,824	17,350	7.237,066
91	0,000	377,502	1,716	440,485					
					10,000	0,000	6.585,824	36,800	7.273,866
92	0,000	377,502	1,964	442,449					
					10,000	21,420	6.607,244	19,640	7.293,506
93	2,142	379,644	0,000	442,449					
					10,000	25,070	6.632,314	0,660	7.294,166
94	0,365	380,009	0,066	442,515					
					10,000	3,650	6.635,964	56,660	7.350,826
95	0,000	380,009	5,600	448,115					
					10,000	0,000	6.635,964	127,860	7.478,686
96	0,000	380,009	7,186	455,301					
					2,716	0,000	6.635,964	37,280	7.515,966
96+5,432	0,000	380,009	6,540	461,841					
					7,284	0,000	6.635,964	67,195	7.583,161
97	0,000	380,009	2,685	464,526					
					10,000	17,660	6.653,624	26,850	7.610,011
98	1,766	381,775	0,000	464,526					
					10,000	52,640	6.706,264	0,000	7.610,011
99	3,498	385,273	0,000	464,526					
					10,000	60,640	6.766,904	0,000	7.610,011
100	2,566	387,839	0,000	464,526					
					9,786	44,468	6.811,372	0,000	7.610,011
100+19,572	1,978	389,817	0,000	464,526					
					0,214	0,846	6.812,218	0,000	7.610,011
101	1,974	391,791	0,000	464,526					
					10,000	40,190	6.852,408	0,000	7.610,011
102	2,045	393,836	0,000	464,526					
					10,000	34,610	6.887,018	0,000	7.610,011
103	1,416	395,252	0,000	464,526					

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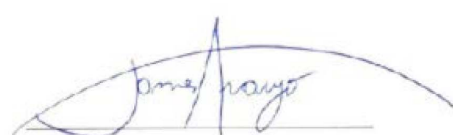
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103	1,416	395,252	0,000	464,526					
					10,000	59,910	6.912,318	0,000	7.614,941
104	4,575	399,827	0,000	464,526					
					10,000	158,470	7.070,788	0,000	7.614,941
105	11,272	411,099	0,000	464,526					
					10,000	191,010	7.261,798	0,000	7.614,941
106	7,829	418,928	0,000	464,526					
					10,000	78,290	7.340,088	12,930	7.627,871
107	0,000	418,928	1,293	465,819					
					10,000	0,000	7.340,088	141,700	7.769,571
108	0,000	418,928	12,877	478,696					
					10,000	0,000	7.340,088	330,960	8.100,531
109	0,000	418,928	20,219	498,915					
					5,425	0,000	7.340,088	216,116	8.316,647
109+10,850	0,000	418,928	19,618	518,533					
					4,575	0,000	7.340,088	181,403	8.498,050
110	0,000	418,928	20,033	538,566					
					10,000	0,000	7.340,088	362,530	8.860,580
111	0,000	418,928	16,220	554,786					
					10,000	0,000	7.340,088	285,340	9.145,920
112	0,000	418,928	12,314	567,100					
					10,000	0,000	7.340,088	155,570	9.301,490
113	0,000	418,928	3,243	570,343					
					10,000	68,560	7.408,648	32,430	9.333,920
114	6,856	425,784	0,000	570,343					
					10,000	129,720	7.538,368	0,000	9.333,920
115	6,116	431,900	0,000	570,343					
					10,000	176,360	7.714,728	0,000	9.333,920
116	11,520	443,420	0,000	570,343					
					10,000	351,870	8.066,598	0,000	9.333,920
117	23,667	467,087	0,000	570,343					
					10,000	257,730	8.324,328	0,000	9.333,920
118	2,106	469,193	0,000	570,343					
					10,000	21,060	8.345,388	58,650	9.392,570
119	0,000	469,193	5,865	576,208					
					10,000	0,000	8.345,388	115,790	9.508,360
120	0,000	469,193	5,714	581,922					
					10,000	0,000	8.345,388	76,910	9.585,270
121	0,000	469,193	1,977	583,899					
					10,000	41,830	8.387,218	19,770	9.605,040
122	4,183	473,376	0,000	583,899					
					10,000	167,990	8.555,208	0,000	9.605,040
123	12,616	485,992	0,000	583,899					
					10,000	251,810	8.807,018	0,000	9.605,040
124	12,565	498,557	0,000	583,899					
					10,000	188,770	8.995,788	0,000	9.605,040
125	6,312	504,869	0,000	583,899					
					10,000	63,120	9.058,908	17,540	9.622,580
126	0,000	504,869	1,754	585,653					

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126	0,000	504,869	1,754	585,653					
					10,000	0,000	9.030,398	145,260	9.750,300
127	0,000	504,869	12,772	598,425					
					10,000	0,000	9.030,398	346,150	10.096,450
128	0,000	504,869	21,843	620,268					
					10,000	0,000	9.030,398	459,780	10.556,230
129	0,000	504,869	24,135	644,403					
					10,000	0,000	9.030,398	468,600	11.024,830
130	0,000	504,869	22,725	667,128					
					3,315	0,000	9.030,398	148,611	11.173,441
130+6,631	0,000	504,869	22,098	689,226					
					6,685	0,000	9.030,398	273,389	11.446,830
131	0,000	504,869	18,801	708,027					
					10,000	0,000	9.030,398	296,950	11.743,780
132	0,000	504,869	10,894	718,921					
					10,000	0,000	9.030,398	173,970	11.917,750
133	0,000	504,869	6,503	725,424					
					10,000	0,000	9.030,398	109,020	12.026,770
134	0,000	504,869	4,399	729,823					
					10,000	0,000	9.030,398	71,160	12.097,930
135	0,000	504,869	2,717	732,540					
					6,376	0,000	9.030,398	17,942	12.115,872
135+12,752	0,000	504,869	0,097	732,637					

	Corte	Aterro
Áreas	504,8690 m²	732,637 m²
Volumes	9.093,518 m³	12.133,412 m³


 João Lúcio Galvão Gonçalves
 Engenheiro Civil/Mecânico
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 Elias James Araújo do Carmo
 Secretário Municipal de Obras e Urbanismo