

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Á.C. Acum.	Área Aterro	A. A. Acum.	Semi-Dis.	Vol.Corte	V.C.Acum.	Vol.Aterro	V.A.Acum.
0	0,000	0,000	2,607	2,607					
					5,000	2,385	2,385	20,985	20,985
	0,477	0,477	1,590	4,197					
					2,315	2,209	4,594	7,362	28,347
1+4,630	0,477	0,954	1,590	5,787					
					2,685	2,529	7,123	8,622	36,969
2	0,465	1,419	1,621	7,408					
					5,000	4,700	11,823	16,075	53,044
3	0,475	1,894	1,594	9,002					
					5,000	7,115	18,938	10,835	63,879
4	0,948	2,842	0,573	9,575					
					5,000	4,740	23,678	16,115	79,994
5	0,000	2,842	2,650	12,225					
					5,000	2,350	26,028	21,290	101,284
6	0,470	3,312	1,608	13,833					
					0,355	0,334	26,362	1,140	102,424
6+0,710	0,471	3,783	1,604	15,437					
					4,645	2,188	28,550	19,713	122,137
7	0,000	3,783	2,640	18,077					
					5,000	0,000	28,550	26,400	148,537
8	0,000	3,783	2,640	20,717					
					5,000	2,335	30,885	21,270	169,807
9	0,467	4,250	1,614	22,331					
					5,000	6,995	37,880	11,000	180,807
10	0,932	5,182	0,586	22,917					
					2,350	3,285	41,165	5,179	185,986
10+4,700	0,466	5,648	1,618	24,535					
					2,650	2,467	43,632	8,583	194,569
11	0,465	6,113	1,621	26,156					
					5,000	6,960	50,592	11,055	205,624
12	0,927	7,040	0,590	26,746					
					5,000	6,945	57,537	11,090	216,714
13	0,462	7,502	1,628	28,374					
					5,000	4,620	62,157	16,260	232,974
14	0,462	7,964	1,628	30,002					
					5,000	4,615	66,772	16,295	249,289
15	0,461	8,425	1,631	31,633					
					5,000	2,305	69,077	21,545	270,834
16	0,000	8,425	2,678	34,311					
					5,000	2,235	71,312	21,600	292,434
17	0,457	8,882	1,642	35,953					
					0,505	0,462	71,824	1,658	294,092
17+1,010	0,457	9,339	1,642	37,595					
					4,495	4,099	75,923	14,775	308,867
18	0,455	9,794	1,645	39,240					
					5,000	4,550	80,473	16,450	325,317
19	0,455	10,249	1,645	40,885					
					1,740	1,576	82,049	5,728	331,045
19+3,480	0,451	10,700	1,647	42,532					
					3,260	1,470	83,519	14,145	345,190
20	0,000	10,700	2,692	45,224					

Confere com o original
 Data 30/09/2021
 Carlos da S. Alves

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.
20	0,000	10,700	2,692	45,224					
					5,000	1,595	83,644	22,315	353,360
21	0,319	11,019	1,771	46,995					
					5,000	1,595	85,239	22,365	375,725
22	0,000	11,019	2,702	49,697					
					5,000	0,000	85,239	27,045	402,770
23	0,000	11,019	2,707	52,404					
					5,000	0,000	85,239	27,065	429,835
24	0,000	11,019	2,706	55,110					
					5,000	1,870	87,109	22,180	452,015
25	0,374	11,393	1,730	56,840					
					4,995	1,868	88,977	22,233	474,248
25+9,990	0,000	11,393	2,721	59,561					
					0,005	0,000	88,977	0,027	474,275
26	0,000	11,393	2,721	62,282					
					5,000	0,000	88,977	27,210	501,485
27	0,000	11,393	2,721	65,003					
					5,000	2,220	91,197	21,925	523,410
28	0,444	11,837	1,664	66,667					
					2,190	1,947	93,144	7,297	530,707
28+4,380	0,445	12,282	1,668	68,335					
					2,810	2,476	95,620	9,414	540,121
29	0,436	12,718	1,662	70,017					
					5,000	4,295	99,915	16,875	556,996
30	0,423	13,141	1,693	71,710					
					5,000	6,530	106,445	11,605	568,601
31	0,883	14,024	0,628	72,338					
					5,000	6,410	112,855	11,750	580,351
32	0,399	14,423	1,722	74,060					
					4,995	4,181	117,036	17,058	597,409
32+9,990	0,438	14,861	1,693	75,753					
					0,005	0,004	117,040	0,017	597,426
33	0,441	15,302	1,683	77,436					

	Corte	Aterro
Áreas	15,3020 m²	77,436 m²
Volumes	118,510 m³	611,571 m³

Confere com o original
 Data 30/09/2021
 Pedro dos S. Assi

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.
33	1,393	1,393	2,261	2,261					
					5,000	6,965	6,965	30,815	30,815
34	0,000	1,393	3,902	6,163					
					5,000	6,875	13,840	30,860	61,675
35	1,375	2,768	2,270	8,433					
					5,000	13,740	27,580	22,720	84,395
36	1,373	4,141	2,274	10,707					
					5,000	13,765	41,345	22,810	107,205
37	1,380	5,521	2,288	12,995					
					4,450	12,269	53,614	20,381	127,586
37+8,900	1,377	6,898	2,292	15,287					

	Corte	Aterro
Áreas	6,8980 m ²	15,287 m ²
Volumes	53,614 m ³	127,586 m ³

Confere com o original
 Data 30/09/2021
 Roberto dos S. Almeida

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	0,000	0,000	7,500	7,500					
					5,000	0,000	0,000	72,915	72,915
					2,315	0,000	0,000	32,794	105,709
1+4,630	0,000	0,000	7,083	21,666					
					2,685	0,000	0,000	38,036	143,745
2	0,000	0,000	7,083	28,749					
					5,000	0,000	0,000	70,820	214,565
					5,000	0,000	0,000	68,725	283,290
4	0,000	0,000	6,664	42,494					
					5,000	0,000	0,000	70,820	354,110
5	0,000	0,000	7,500	49,994					
					5,000	0,000	0,000	72,915	427,025
					0,355	0,000	0,000	5,028	432,053
6+0,710	0,000	0,000	7,081	64,158					
					4,645	0,000	0,000	67,729	499,782
7	0,000	0,000	7,500	71,658					
					5,000	0,000	0,000	74,990	574,772
					5,000	0,000	0,000	72,895	647,667
9	0,000	0,000	7,081	86,237					
					5,000	0,000	0,000	68,725	716,392
10	0,000	0,000	6,664	92,901					
					2,350	0,000	0,000	32,301	748,693
10+4,700	0,000	0,000	7,081	99,982					
					2,650	0,000	0,000	37,529	786,222
11	0,000	0,000	7,081	107,063					
					5,000	0,000	0,000	68,725	854,947
12	0,000	0,000	6,664	113,727					
					5,000	0,000	0,000	68,735	923,682
13	0,000	0,000	7,083	120,810					
					5,000	0,000	0,000	70,820	994,502
14	0,000	0,000	7,081	127,891					
					5,000	0,000	0,000	70,810	1.065,312
15	0,000	0,000	7,081	134,972					
					5,000	0,000	0,000	72,895	1.138,207
16	0,000	0,000	7,498	142,470					
					5,000	0,000	0,000	72,895	1.211,102
17	0,000	0,000	7,081	149,551					
					0,505	0,000	0,000	7,152	1.218,254
17+1,010	0,000	0,000	7,081	156,632					
					4,495	0,000	0,000	63,658	1.281,912
18	0,000	0,000	7,081	163,713					
					5,000	0,000	0,000	70,785	1.352,697
19	0,000	0,000	7,078	170,791					
					1,740	0,000	0,000	24,635	1.377,342
19+3,480	0,000	0,000	7,080	177,871					
					3,260	0,000	0,000	47,515	1.424,857
20	0,000	0,000	7,495	185,366					

Confere com o original
 Data 30/09/2021
 Pedro do S. Assi

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.
20	0,000	0,000	7,495	185,366					
					5,000	0,000	0,000	73,520	1.450,862
21	0,000	0,000	7,209	192,575					
					5,000	0,000	0,000	73,535	1.524,397
22	0,000	0,000	7,498	200,073					
					5,000	0,000	0,000	74,980	1.599,377
23	0,000	0,000	7,498	207,571					
					5,000	0,000	0,000	74,965	1.674,342
24	0,000	0,000	7,495	215,066					
					5,000	0,000	0,000	73,225	1.747,567
25	0,000	0,000	7,150	222,216					
					4,995	0,000	0,000	73,152	1.820,719
25+9,990	0,000	0,000	7,495	229,711					
					0,005	0,000	0,000	0,075	1.820,794
26	0,000	0,000	7,495	237,206					
					5,000	0,000	0,000	74,940	1.895,734
27	0,000	0,000	7,493	244,699					
					5,000	0,000	0,000	72,825	1.968,559
28	0,000	0,000	7,072	251,771					
					2,190	0,000	0,000	30,978	1.999,537
28+4,380	0,000	0,000	7,073	258,844					
					2,810	0,000	0,000	39,778	2.039,315
29	0,000	0,000	7,083	265,927					
					5,000	0,000	0,000	70,890	2.110,205
30	0,000	0,000	7,095	273,022					
					5,000	0,000	0,000	68,790	2.178,995
31	0,000	0,000	6,663	279,685					
					5,000	0,000	0,000	68,905	2.247,900
32	0,000	0,000	7,118	286,803					
					4,995	0,000	0,000	70,914	2.318,814
32+9,990	0,000	0,000	7,079	293,882					
					0,005	0,000	0,000	0,071	2.318,885
33	0,000	0,000	7,078	300,960					
					5,000	0,000	0,000	72,840	2.391,725
34	0,000	0,000	7,490	308,450					
					5,000	0,000	0,000	72,825	2.464,550
35	0,000	0,000	7,075	315,525					
					5,000	0,000	0,000	70,755	2.535,305
36	0,000	0,000	7,076	322,601					
					5,000	0,000	0,000	70,780	2.606,085
37	0,000	0,000	7,076	329,677					
					4,450	0,000	0,000	62,985	2.669,050
37+9,990	0,000	0,000	7,079	336,755					

	Corte	Aterro
Áreas	0,0000 m²	336,755 m²
Volumes	0,000 m³	2.716,565 m³

Confere com o original
 Data 30/09/2021
 Pedro da S. Assi

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Area Corte	A.C. Acum.	Area Alente	A. A. Acum.	Semi-Dia.	Vol. Corte	V.C. Acum.	Vol. Alente	V.A. Acum.
0	0,000	0,000	7,560	7,560					
					5,000	0,000	0,000	73,485	73,485
1	0,000	0,000	7,137	14,697					
					1,465	0,000	0,000	34,644	108,129
1+4,630	0,000	0,000	7,137	21,834					
					2,885	0,000	0,000	38,326	146,455
2	0,000	0,000	7,137	28,971					
					5,000	0,000	0,000	71,355	216,210
3	0,000	0,000	7,134	36,105					
					5,000	0,000	0,000	69,225	285,435
4	0,000	0,000	6,711	42,816					
					5,000	0,000	0,000	71,355	356,790
5	0,000	0,000	7,560	50,376					
					5,000	0,000	0,000	73,485	430,275
6	0,000	0,000	7,137	57,513					
					0,355	0,000	0,000	5,066	435,341
6+0,710	0,000	0,000	7,134	64,647					
					4,645	0,000	0,000	68,254	503,595
7	0,000	0,000	7,560	72,207					
					5,000	0,000	0,000	73,485	576,180
8	0,000	0,000	7,134	79,341					
					5,000	0,000	0,000	73,455	652,635
9	0,000	0,000	7,134	86,475					
					5,000	0,000	0,000	69,225	721,860
10	0,000	0,000	6,711	93,186					
					2,350	0,000	0,000	32,536	754,396
10+4,700	0,000	0,000	7,134	100,320					
					2,650	0,000	0,000	37,816	792,212
11	0,000	0,000	7,134	107,454					
					5,000	0,000	0,000	69,225	861,437
12	0,000	0,000	6,711	114,165					
					5,000	0,000	0,000	69,240	930,677
13	0,000	0,000	7,137	121,302					
					5,000	0,000	0,000	71,355	1.002.032
14	0,000	0,000	7,134	128,436					
					5,000	0,000	0,000	71,340	1.073.372
15	0,000	0,000	7,134	135,570					
					5,000	0,000	0,000	73,455	1.146.827
16	0,000	0,000	7,557	143,127					
					5,000	0,000	0,000	73,455	1.220.282
17	0,000	0,000	7,134	150,261					
					0,300	0,000	0,000	7,200	1.227.482
17+1,010	0,000	0,000	7,134	157,395					
					4,495	0,000	0,000	64,135	1.291.617
18	0,000	0,000	7,554	164,949					
					5,000	0,000	0,000	71,345	1.362.962
19	0,000	0,000	7,131	172,080					
					1,740	0,000	0,000	24,621	1.387.583
19+3,480	0,000	0,000	7,134	179,214					
					3,260	0,000	0,000	47,886	1.435.469
20	0,000	0,000	7,555	186,769					
					5,000	0,000	0,000	74,080	1.509.549
21	0,000	0,000	7,263	194,032					
					5,000	0,000	0,000	74,100	1.583.649
22	0,000	0,000	7,557	201,589					
					5,000	0,000	0,000	75,570	1.659.219
23	0,000	0,000	7,557	209,146					
					5,000	0,000	0,000	75,560	1.734.779
24	0,000	0,000	7,555	216,701					
					5,000	0,000	0,000	73,790	1.808.569
25	0,000	0,000	7,203	223,904					
					4,485	0,000	0,000	33,735	1.842.304
25+1,990	0,000	0,000	7,555	231,459					
					0,005	0,000	0,000	0,076	1.842.380
26	0,000	0,000	7,555	239,014					
					5,000	0,000	0,000	75,535	1.917.915
27	0,000	0,000	7,552	246,566					
					5,000	0,000	0,000	73,385	1.991.300
28	0,000	0,000	7,125	253,691					
					2,165	0,000	0,000	31,210	2.022.510
28+1,990	0,000	0,000	7,125	260,816					
					2,810	0,000	0,000	40,076	2.102.586
29	0,000	0,000	7,135	267,951					
					5,000	0,000	0,000	71,420	2.174.006
30	0,000	0,000	7,148	275,099					
					5,000	0,000	0,000	69,285	2.243.291
31	0,000	0,000	6,709	281,808					

Confere com o original
 Data 30/09/2021
 Edson da S. A. M.

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.
31	0,000	0,000	6,708	281,813					
					5,000	0,000	0,000	69,405	2.243,581
32	0,000	0,000	7,172	288,985					
					4,995	0,000	0,000	71,443	2.445,024
32+0,990	0,000	0,000	7,133	296,118					
					0,005	0,000	0,000	0,071	2.315,105
33	0,000	0,000	7,131	303,249					
					5,000	0,000	0,000	73,405	2.388,510
34	0,000	0,000	7,550	310,799					
					5,000	0,000	0,000	73,395	2.461,905
35	0,000	0,000	7,128	317,928					
					5,000	0,000	0,000	71,000	2.532,105
36	0,000	0,000	7,129	325,057					
					5,000	0,000	0,000	71,290	2.604,485
37	0,000	0,000	7,129	332,186					
					4,450	0,000	0,000	63,457	2.667,942
37+0,990	0,000	0,000	7,131	339,317					

	Corte	Aterro
Áreas	0,0000 m²	339,317 m²
Volumes	0,000 m³	2.737,227 m³

Confere com o original
 Data 20/08/2021
 Pedro dos S. Assis

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	2,095	2,095	0,405	0,405					
1	1,058	3,153	1,511	1,916	5,000	15,765	15,765	9,580	9,580
2	0,000	3,153	2,631	4,547	5,000	5,290	21,055	20,710	30,290
					2,875	3,059	24,114	11,874	42,164
2+5,750	1,064	4,217	1,499	6,046					
					2,125	2,261	26,375	8,766	50,930
3	0,000	4,217	2,626	8,672					
					5,000	0,000	26,375	26,260	77,190
4	0,000	4,217	2,626	11,298					
					5,000	0,000	26,375	26,260	103,450
5	0,000	4,217	2,626	13,924					
					5,000	0,000	26,375	26,260	129,710
6	0,000	4,217	2,626	16,550					
					5,000	5,960	32,335	20,395	150,105
7	1,192	5,409	1,453	18,003					
					5,000	12,215	44,550	14,410	164,515
8	1,251	6,660	1,429	19,432					
					5,000	6,255	50,805	20,250	184,765
9	0,000	6,660	2,626	22,058					
					5,000	5,305	56,110	20,560	205,325
10	1,061	7,721	1,491	23,544					
					5,000	10,590	66,700	15,000	220,325
11	1,057	8,778	1,509	25,053					
					5,000	5,285	71,985	20,625	240,950
12	0,000	8,778	2,616	27,669					
					5,000	0,000	71,985	26,160	267,110
13	0,000	8,778	2,616	30,285					
					5,000	0,000	71,985	26,140	293,250
14	0,000	8,778	2,612	32,897					
					5,000	0,000	71,985	26,120	319,370
15	0,000	8,778	2,612	35,509					
					5,000	0,000	71,985	26,120	345,490
16	0,000	8,778	2,612	38,121					
					5,000	0,000	71,985	26,095	371,585
17	0,000	8,778	2,607	40,728					
					5,000	5,305	77,290	20,555	392,140
18	1,061	9,839	1,504	42,232					
					5,000	5,305	82,595	20,555	412,695
19	0,000	9,839	2,607	44,839					
					5,000	5,320	87,915	20,530	433,225
20	1,024	10,863	1,499	46,338					
					3,900	4,150	92,065	15,978	449,203
20+7,800	0,000	10,863	2,598	48,936					
					1,100	2,341	94,406	3,268	452,491
21	2,128	13,031	0,391	49,327					
					5,000	10,640	105,046	14,965	467,456
22	0,000	13,031	2,602	51,929					
					3,615	0,000	105,046	18,831	486,287
22+7,230	0,000	13,031	2,607	54,536					

Confere com o original
 Data 30/09/2021
 Pedro dos S. Assis

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.
22+7,230	0,000	13,031	2,607	54,536					
					1,385	0,000	105,046	7,214	474,670
23	0,000	13,031	2,602	57,138					
					5,000	0,000	105,046	26,015	500,685
24	0,000	13,031	2,601	59,739					
					5,000	5,440	110,486	20,440	521,125
25	1,088	14,119	1,487	61,226					
					5,000	10,935	121,421	14,835	535,960
26	1,088	15,218	1,460	62,706					
					5,000	5,495	126,916	20,410	556,370
27	0,000	15,218	2,602	65,308					
					5,000	0,000	126,916	25,985	582,355
28	0,000	15,218	2,595	67,903					
					5,000	5,320	132,236	20,435	602,790
29	1,054	16,282	1,492	69,395					
					2,050	2,181	134,417	8,374	611,164
29+4,100	0,000	16,282	2,593	71,988					
					2,950	0,000	134,417	15,313	626,477
30	0,000	16,282	2,598	74,586					
					5,000	0,000	134,417	25,955	652,432
31	0,000	16,282	2,593	77,179					
					5,000	0,000	134,417	25,930	678,362
32	0,000	16,282	2,593	79,772					
					5,000	0,000	134,417	25,930	704,292
33	0,000	16,282	2,593	82,365					
					5,000	0,000	134,417	25,930	730,222
34	0,000	16,282	2,593	84,958					
					5,000	0,000	134,417	25,905	756,127
35	0,000	16,282	2,588	87,546					
					4,895	0,000	134,417	25,337	781,464
35+9,790	0,000	16,282	2,588	90,134					
					0,105	0,000	134,417	0,543	782,007
36	0,000	16,282	2,585	92,719					
					3,600	0,000	134,417	18,605	800,612
36+7,200	0,000	16,282	2,583	95,302					

	Corte	Aterro
Áreas	16,2820 m²	95,302 m²
Volumes	134,417 m³	819,443 m³

Confere com o original
 Data 30/09/2021
 Pedro da Silva

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	0,000	0,000	3,572	3,572					
					5,000	0,000	0,000	36,520	36,520
1	0,000	0,000	3,732	7,304					
					5,000	0,000	0,000	38,125	74,645
2	0,000	0,000	3,893	11,197					
					2,875	0,000	0,000	21,896	96,541
2+5,750	0,000	0,000	3,723	14,920					
					2,125	0,000	0,000	16,176	112,717
3	0,000	0,000	3,669	18,589					
					5,000	0,000	0,000	38,870	151,587
4	0,000	0,000	3,885	22,694					
					5,000	0,000	0,000	38,835	190,422
5	0,000	0,000	3,882	26,576					
					5,000	0,000	0,000	38,805	229,227
6	0,000	0,000	3,879	30,455					
					5,000	0,000	0,000	37,680	266,907
7	0,000	0,000	3,657	34,112					
					5,000	0,000	0,000	36,425	303,332
8	0,000	0,000	3,628	37,740					
					5,000	0,000	0,000	37,475	340,807
9	0,000	0,000	3,667	41,607					
					5,000	0,000	0,000	37,825	378,632
10	0,000	0,000	3,698	45,305					
					5,000	0,000	0,000	36,980	415,612
11	0,000	0,000	3,698	49,003					
					5,000	0,000	0,000	37,770	453,382
12	0,000	0,000	3,856	52,859					
					5,000	0,000	0,000	38,545	491,927
13	0,000	0,000	3,853	56,712					
					5,000	0,000	0,000	38,510	530,437
14	0,000	0,000	3,849	60,561					
					5,000	0,000	0,000	38,475	568,912
15	0,000	0,000	3,846	64,407					
					5,000	0,000	0,000	38,440	607,352
16	0,000	0,000	3,842	68,249					
					5,000	0,000	0,000	38,400	645,752
17	0,000	0,000	3,838	72,087					
					5,000	0,000	0,000	37,555	683,307
18	0,000	0,000	3,673	75,760					
					5,000	0,000	0,000	37,525	720,832
19	0,000	0,000	3,832	79,592					
					5,000	0,000	0,000	37,480	758,312
20	0,000	0,000	3,804	83,250					
					3,900	0,000	0,000	29,199	787,511
20+7,800	0,000	0,000	3,823	87,079					
					1,100	0,000	0,000	8,053	795,564
21	0,000	0,000	3,498	90,577					
					5,000	0,000	0,000	36,595	832,159
22	0,000	0,000	3,821	94,398					
					3,615	0,000	0,000	27,619	859,778
22+7,230	0,000	0,000	3,819	98,217					

Confere com o original
 Data 30/09/2021
 [Assinatura]

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.
22+7,230	0,000	0,000	3,819	98,217					
					1,385	0,000	0,000	10,576	842,735
23	0,000	0,000	3,817	102,034					
					5,000	0,000	0,000	38,155	880,890
24	0,000	0,000	3,814	105,848					
					5,000	0,000	0,000	37,265	918,155
25	0,000	0,000	3,639	109,487					
					5,000	0,000	0,000	36,345	954,500
26	0,000	0,000	3,630	113,117					
					5,000	0,000	0,000	37,165	991,665
27	0,000	0,000	3,803	116,920					
					5,000	0,000	0,000	38,010	1.029,675
28	0,000	0,000	3,799	120,719					
					5,000	0,000	0,000	37,165	1.066,840
29	0,000	0,000	3,634	124,353					
					2,050	0,000	0,000	15,227	1.082,067
29+4,100	0,000	0,000	3,794	128,147					
					2,950	0,000	0,000	22,382	1.104,449
30	0,000	0,000	3,793	131,940					
					5,000	0,000	0,000	37,910	1.142,359
31	0,000	0,000	3,789	135,729					
					5,000	0,000	0,000	37,870	1.180,229
32	0,000	0,000	3,785	139,514					
					5,000	0,000	0,000	37,835	1.218,064
33	0,000	0,000	3,782	143,296					
					5,000	0,000	0,000	37,800	1.255,864
34	0,000	0,000	3,778	147,074					
					5,000	0,000	0,000	37,765	1.293,629
35	0,000	0,000	3,775	150,849					
					4,895	0,000	0,000	36,943	1.330,572
35+9,790	0,000	0,000	3,772	154,621					
					0,105	0,000	0,000	0,792	1.331,364
36	0,000	0,000	3,772	158,393					
					3,600	0,000	0,000	27,144	1.358,508
36+7,200	0,000	0,000	3,768	162,161					

	Corte	Aterro
Áreas	0,0000 m²	162,161 m²
Volumes	0,000 m³	1.386,127 m³

Confere com o original
 Data 30/09/2021
 Pedro A. J. Alves

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	0,000	0,000	3,671	3,671					
					5,000	0,000	0,000	37,555	37,555
1	0,000	0,000	3,840	7,511	5,000	0,000	0,000	39,255	76,810
					2,875	0,000	0,000	22,546	99,356
2	0,000	0,000	4,011	11,522					
					2,125	0,000	0,000	16,656	116,012
2+5,750	0,000	0,000	3,831	15,353					
					5,000	0,000	0,000	40,050	156,062
3	0,000	0,000	4,007	19,360					
					5,000	0,000	0,000	40,020	196,082
4	0,000	0,000	4,003	23,363					
					5,000	0,000	0,000	39,990	236,072
5	0,000	0,000	4,001	27,364					
					5,000	0,000	0,000	38,800	274,872
6	0,000	0,000	3,997	31,361					
					5,000	0,000	0,000	37,485	312,357
7	0,000	0,000	3,763	35,124					
					5,000	0,000	0,000	38,590	350,947
8	0,000	0,000	3,734	38,858					
					5,000	0,000	0,000	38,945	389,892
9	0,000	0,000	3,964	42,842					
					5,000	0,000	0,000	38,050	427,942
10	0,000	0,000	3,805	46,647					
					5,000	0,000	0,000	38,895	466,837
11	0,000	0,000	3,805	50,452					
					5,000	0,000	0,000	39,720	506,557
12	0,000	0,000	3,974	54,426					
					5,000	0,000	0,000	39,680	546,237
13	0,000	0,000	3,970	58,396					
					5,000	0,000	0,000	39,645	585,882
14	0,000	0,000	3,966	62,362					
					5,000	0,000	0,000	39,610	625,492
15	0,000	0,000	3,963	66,325					
					5,000	0,000	0,000	39,570	665,062
16	0,000	0,000	3,959	70,284					
					5,000	0,000	0,000	38,675	703,737
17	0,000	0,000	3,955	74,239					
					5,000	0,000	0,000	38,540	742,317
18	0,000	0,000	3,780	78,019					
					5,000	0,000	0,000	38,595	780,972
19	0,000	0,000	3,948	81,967					
					3,900	0,000	0,000	30,069	811,041
20	0,000	0,000	3,771	85,738					
					1,100	0,000	0,000	8,267	819,328
20+7,800	0,000	0,000	3,939	89,677					
					5,000	0,000	0,000	37,665	856,993
21	0,000	0,000	3,595	93,272					
					3,615	0,000	0,000	28,461	885,454
22	0,000	0,000	3,938	97,210					
22+7,230	0,000	0,000	3,935	101,145					

Confere com o original
 Data 30/09/2021
 Pedro de S. Assis

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.
22+7,230	0,000	0,000	3,935	101,145					
					1,385	0,000	0,000	10,899	867,892
23	0,000	0,000	3,934	105,079					
					5,000	0,000	0,000	39,320	907,212
24	0,000	0,000	3,930	109,009					
					5,000	0,000	0,000	38,375	945,587
25	0,000	0,000	3,745	112,754					
					5,000	0,000	0,000	37,400	982,987
26	0,000	0,000	3,735	116,489					
					5,000	0,000	0,000	38,270	1.021,257
27	0,000	0,000	3,919	120,408					
					5,000	0,000	0,000	39,165	1.060,422
28	0,000	0,000	3,914	124,322					
					5,000	0,000	0,000	38,265	1.098,687
29	0,000	0,000	3,739	128,061					
					2,050	0,000	0,000	15,678	1.114,365
29+4,100	0,000	0,000	3,909	131,970					
					2,950	0,000	0,000	23,060	1.137,425
30	0,000	0,000	3,908	135,878					
					5,000	0,000	0,000	39,060	1.176,485
31	0,000	0,000	3,904	139,782					
					5,000	0,000	0,000	39,020	1.215,505
32	0,000	0,000	3,900	143,682					
					5,000	0,000	0,000	38,985	1.254,490
33	0,000	0,000	3,897	147,579					
					5,000	0,000	0,000	38,950	1.293,440
34	0,000	0,000	3,993	151,472					
					5,000	0,000	0,000	38,910	1.332,350
35	0,000	0,000	3,889	155,361					
					4,895	0,000	0,000	38,064	1.370,414
35+9,790	0,000	0,000	3,887	159,248					
					0,105	0,000	0,000	0,816	1.371,230
36	0,000	0,000	3,886	163,134					
					3,600	0,000	0,000	27,968	1.399,198
36+7,200	0,000	0,000	3,883	167,017					

	Corte	Aterro
Áreas	0,0000 m²	167,017 m²
Volumes	0,000 m³	1.427,659 m³

Confere com o original
 Data 30/09/2021
 [Assinatura]

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	2,265	2,265	0,110	0,110					
					5,000	50,720	50,720	0,550	0,550
1	7,879	10,144	0,000	0,110					
					5,000	75,220	125,940	0,000	0,550
2	7,165	17,309	0,000	0,110					
					2,875	31,015	156,955	4,954	5,504
2+5,750	3,623	20,932	1,723	1,833					
					2,125	33,012	189,967	4,008	9,512
3	11,812	32,844	0,163	1,996					
					5,000	154,600	344,567	0,815	10,327
4	19,008	51,852	0,000	1,996					
					5,000	213,250	557,817	0,000	10,327
5	23,642	75,494	0,000	1,996					
					2,045	88,060	645,877	0,000	10,327
5+4,090	19,419	94,913	0,000	1,996					
					2,955	109,341	755,218	0,000	10,327
6	17,583	112,496	0,000	1,996					
					5,000	184,895	940,113	0,000	10,327
7	19,396	131,892	0,000	1,996					
					5,000	198,410	1.138,523	0,000	10,327
8	20,286	152,178	0,000	1,996					
					5,000	202,595	1.341,118	0,000	10,327
9	20,233	172,411	0,000	1,996					
					1,635	65,804	1.406,922	0,000	10,327
9+3,270	20,014	192,425	0,000	1,996					
					3,365	93,702	1.500,624	0,000	10,327
10	7,832	200,257	0,000	1,996					
					5,000	121,040	1.621,664	0,000	10,327
11	16,376	216,633	0,000	1,996					
					5,000	194,745	1.816,409	0,000	10,327
12	22,573	239,206	0,000	1,996					
					5,000	223,400	2.039,809	0,000	10,327
13	22,107	261,313	0,000	1,996					
					5,000	238,950	2.278,759	0,000	10,327
14	25,883	287,196	0,000	1,996					
					5,000	253,220	2.532,979	0,000	10,327
15	24,761	311,957	0,000	1,996					
					5,000	198,465	2.731,444	0,000	10,327
16	14,932	326,889	0,000	1,996					
					5,000	202,295	2.933,739	0,000	10,327
17	25,527	352,416	0,000	1,996					
					5,000	271,935	3.205,674	0,000	10,327
18	29,090	381,270	0,000	1,996					
					5,000	279,380	3.485,054	0,000	10,327
19	27,016	408,292	0,000	1,996					
					5,000	229,840	3.714,894	0,000	10,327
20	18,952	427,244	0,000	1,996					
					3,900	133,107	3.848,001	0,000	10,327
20+7,800	15,178	442,422	0,000	1,996					
					1,100	33,487	3.881,488	0,000	10,327
21	15,265	457,687	0,000	1,996					

Confere com o original
 Data 30/09/2021
 Pedro de A. Alves

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.
21	15,265	457,687	0,000	1,996					
					5,000	137,325	3.985,326	0,000	10,327
22	12,200	469,887	0,000	1,996					
					3,615	79,320	4.064,646	0,000	10,327
22+7,230	9,742	479,629	0,000	1,996					
					1,385	29,236	4.093,882	0,000	10,327
23	11,367	490,996	0,000	1,996					
					5,000	140,715	4.234,597	0,000	10,327
24	16,776	507,772	0,000	1,996					
					5,000	169,595	4.404,192	0,000	10,327
25	17,143	524,915	0,000	1,996					
					5,000	176,690	4.580,882	0,000	10,327
26	18,195	543,110	0,000	1,996					
					4,695	159,423	4.740,305	0,000	10,327
26+9,390	15,761	558,871	0,000	1,996					
					0,305	9,669	4.749,974	0,000	10,327
27	15,940	574,811	0,000	1,996					
					5,000	173,075	4.923,049	0,000	10,327
28	18,675	593,486	0,000	1,996					
					5,000	180,220	5.103,269	0,000	10,327
29	17,369	610,855	0,000	1,996					
					2,050	68,167	5.171,436	0,000	10,327
29+4,100	15,883	626,738	0,000	1,996					
					2,950	104,636	5.276,072	0,000	10,327
30	19,587	646,325	0,000	1,996					
					5,000	214,280	5.490,352	0,000	10,327
31	23,269	669,594	0,000	1,996					
					5,000	189,590	5.679,942	0,455	10,782
32	14,649	684,243	0,091	2,087					
					5,000	142,315	5.822,257	0,510	11,292
33	13,814	698,057	0,011	2,098					
					5,000	135,520	5.957,777	0,055	11,347
34	13,290	711,347	0,000	2,098					
					5,000	130,640	6.088,617	0,000	11,347
35	12,878	724,225	0,000	2,098					
					4,895	123,207	6.211,824	0,000	11,347
35+8,790	12,292	736,517	0,000	2,098					
					0,105	2,732	6.214,556	0,000	11,347
36	13,724	750,241	0,000	2,098					
					3,620	112,452	6.327,008	0,000	11,347
36+7,240	17,340	767,581	0,000	2,098					

	Corte	Aterro
Áreas	767,5810 m ²	2,098 m ²
Volumes	6.360,495 m ³	11,347 m ³

Confere com o original
 Data 30/09/2021
 Pedro da S. Assis

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	20,142	20,142	0,000	0,000					
					5,000	200,485	200,485	0,000	0,000
1	19,955	40,097	0,000	0,000					
					2,315	88,262	288,747	0,000	0,000
1+4,630	18,171	58,268	0,000	0,000					
					2,685	114,088	402,835	0,000	0,000
2	24,320	82,588	0,000	0,000					
					5,000	244,790	647,625	0,000	0,000
3	24,638	107,226	0,000	0,000					
					5,000	222,795	870,420	0,000	0,000
4	19,921	127,147	0,000	0,000					
					5,000	204,980	1.075,400	0,000	0,000
5	21,075	148,222	0,000	0,000					
					5,000	204,530	1.279,930	0,000	0,000
6	19,831	168,053	0,000	0,000					
					0,355	14,232	1.294,162	0,000	0,000
6+0,710	20,258	188,311	0,000	0,000					
					4,645	200,947	1.495,109	0,000	0,000
7	23,003	211,314	0,000	0,000					
					5,000	210,645	1.705,754	0,000	0,000
8	19,126	230,440	0,000	0,000					
					5,000	221,285	1.927,039	0,000	0,000
9	27,151	257,591	0,000	0,000					
					5,000	254,265	2.191,404	0,000	0,000
10	23,702	281,293	0,000	0,000					
					2,350	110,927	2.302,331	0,000	0,000
10+4,700	23,501	304,794	0,000	0,000					
					2,650	128,440	2.430,771	0,000	0,000
11	24,967	329,761	0,000	0,000					
					5,000	247,335	2.678,106	0,000	0,000
12	24,500	354,261	0,000	0,000					
					5,000	242,815	2.920,921	0,000	0,000
13	24,000	378,261	0,000	0,000					
					5,000	248,545	3.169,466	0,000	0,000
14	25,646	403,907	0,000	0,000					
					5,000	248,790	3.418,256	0,000	0,000
15	24,112	428,019	0,000	0,000					
					5,000	260,910	3.679,166	0,000	0,000
16	28,070	456,089	0,000	0,000					
					5,000	203,040	3.882,206	0,000	0,000
17	24,539	480,628	0,000	0,000					
					0,505	24,605	3.966,811	0,000	0,000
17+1,010	24,185	504,813	0,000	0,000					
					4,495	221,406	4.188,217	0,000	0,000
18	25,071	529,884	0,000	0,000					
					5,000	255,140	4.443,357	0,000	0,000
19	25,957	555,841	0,000	0,000					

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.
19	25,957	555,903	0,000	0,000					
19+3,400	25,942	501,045	0,000	0,000	1,740	90,304	4.278,521	0,000	0,000
20	26,557	608,402	0,000	0,000	3,260	171,147	4.449,668	0,000	0,000
21	27,353	635,755	0,000	0,000	5,000	269,550	4.719,218	0,000	0,000
21+4,040	27,246	663,001	0,000	0,000	2,020	110,290	4.829,509	0,000	0,000
22	27,319	690,320	0,000	0,000	2,980	162,604	4.992,112	0,000	0,000
23	27,299	717,619	0,000	0,000	5,000	273,090	5.265,202	0,000	0,000
24	28,462	746,081	0,000	0,000	5,000	278,805	5.544,007	0,000	0,000
25	28,466	774,547	0,000	0,000	5,000	284,640	5.828,647	0,000	0,000
25+9,280	27,622	802,169	0,000	0,000	4,640	260,248	6.088,895	0,000	0,000
26	27,581	829,750	0,000	0,000	0,360	19,873	6.108,768	0,000	0,000
27	26,150	855,900	0,000	0,000	5,000	268,655	6.377,423	0,000	0,000
28	29,339	885,239	0,000	0,000	5,000	277,445	6.654,868	0,000	0,000
28+4,390	40,346	925,585	0,000	0,000	2,195	152,959	6.807,827	0,000	0,000
29	42,026	967,611	0,000	0,000	2,805	231,053	7.038,880	0,000	0,000
30	30,964	998,575	0,000	0,000	5,000	364,950	7.403,830	0,000	0,000
31	29,149	1.024,724	0,000	0,000	5,000	285,565	7.689,395	0,000	0,000
32	41,541	1.066,265	0,000	0,000	5,000	338,450	8.027,845	0,000	0,000
32+9,490	35,743	1.102,006	0,000	0,000	4,745	366,713	8.394,558	0,000	0,000
33	35,150	1.137,158	0,000	0,000	0,255	18,078	8.412,636	0,000	0,000
34	21,882	1.159,040	0,000	0,000	5,000	205,100	8.617,736	0,000	0,000
35	21,420	1.180,460	0,000	0,000	5,000	216,510	8.834,246	0,000	0,000
36	19,310	1.199,770	0,000	0,000	5,000	203,650	9.037,896	0,000	0,000
37	17,943	1.217,713	0,000	0,000	5,000	186,265	9.224,161	0,000	0,000

Confere com o original
 Data 30/09/2021
 Pedro de A. Assis

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.
37	17,943	1.217,713	0,000	0,000					
37+9,000	13,781	1.231,494	0,000	0,000	4,500	142,758	9.515,854	0,000	0,000

	Corte	Aterro
Áreas	1.231,4940 m ²	0,000 m ²
volumes	9.702,119 m ³	0,000 m ³

Confere com o original
 Data 20/09/2021
 [Assinatura]

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	0,000	0,000	2,183	2,183					
					5,000	0,000	0,000	41,040	41,040
1	0,000	0,000	6,025	8,208					
					5,000	0,000	0,000	71,925	112,965
2	0,000	0,000	8,360	16,568					
					0,813	0,000	0,000	14,993	127,958
2+1,625	0,000	0,000	10,093	26,661					
					4,188	0,000	0,000	77,021	204,979
3	0,000	0,000	8,300	34,961					
					0,533	0,000	0,000	9,447	214,426
3+1,066	0,000	0,000	9,425	44,386					
					4,467	0,000	0,000	78,659	293,085
4	0,000	0,000	8,184	52,570					
					0,881	0,000	0,000	16,611	309,696
4+1,763	0,000	0,000	10,660	63,230					
					4,119	0,000	0,000	86,035	395,731
5	0,000	0,000	10,230	73,460					
					5,000	0,000	0,000	104,200	499,931
6	0,000	0,000	10,610	84,070					
					0,388	0,000	0,000	8,158	508,089
6+0,776	0,000	0,000	10,417	94,487					
					4,612	0,000	0,000	96,036	604,125
7	0,000	0,000	10,406	104,893					
					0,468	0,000	0,000	10,069	614,194
7+0,935	0,000	0,000	11,132	116,025					
					4,532	0,000	0,000	79,881	694,075
8	0,000	0,000	6,492	122,517					
					3,743	0,000	0,000	69,940	764,015
8+7,487	0,000	0,000	12,191	134,708					
					1,257	0,000	0,000	26,049	790,064
9	0,000	0,000	8,540	143,248					
					5,000	0,945	0,945	43,685	833,749
10	0,189	0,189	0,197	143,445					
					4,888	0,924	1,869	50,053	883,802
10+9,777	0,000	0,189	10,042	153,487					
					0,111	0,000	1,869	2,257	886,059
11	0,000	0,189	10,188	163,685					
					5,000	0,000	1,869	98,080	984,139
12	0,000	0,189	9,418	173,103					
					4,549	0,000	1,869	78,330	1,062,469
12+9,098	0,000	0,189	7,948	181,051					
					0,451	0,000	1,869	7,182	1,070,319
13	0,000	0,189	7,978	189,027					
					5,000	0,000	1,869	78,690	1,149,009
14	0,000	0,189	7,762	196,789					
					3,368	0,000	1,869	50,934	1,199,943
14+6,737	0,000	0,189	7,329	204,118					
					1,632	0,000	1,869	23,608	1,223,451
15	0,000	0,189	7,141	211,259					
					5,000	0,000	1,869	70,335	1,293,786
16	0,000	0,189	6,920	218,180					

Confere com o original
 Data 30/09/2021
 Pedro de S. Assis

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.
16	0,000	0,189	6,926	218,185					
					1,220	0,000	1,869	10,000	1.240,330
16+2,446	0,000	0,189	6,880	225,065					
					3,777	0,000	1,869	48,463	1.288,799
17	0,000	0,189	5,951	231,016					
					5,000	0,000	1,869	56,230	1.345,029
18	0,000	0,189	5,295	236,311					
					1,262	0,000	1,869	13,110	1.358,169
18+2,524	0,000	0,189	5,355	241,666					
					3,738	0,000	1,869	43,697	1.402,166
19	0,000	0,189	6,335	248,001					
					1,910	0,000	1,869	25,023	1.427,189
19+3,820	0,000	0,189	6,766	254,767					
					3,090	0,000	1,869	45,438	1.472,627
20	0,000	0,189	7,939	262,706					
					2,642	0,000	1,869	43,559	1.516,186
20+5,284	0,000	0,189	8,548	271,254					
					2,358	0,000	1,869	40,760	1.556,946
21	0,000	0,189	8,738	279,992					
					5,000	0,000	1,869	91,960	1.648,906
22	0,000	0,189	9,654	289,646					
					1,311	0,000	1,869	25,850	1.674,756
22+2,622	0,000	0,189	10,064	299,710					
					3,689	0,000	1,869	70,674	1.745,430
23	0,000	0,189	9,094	308,804					
					1,212	0,458	2,327	19,850	1.765,280
23+2,423	0,378	0,567	7,291	316,095					
					3,788	1,432	3,759	54,740	1.820,020
24	0,000	0,567	7,158	323,253					
					0,763	0,000	3,759	12,426	1.832,446
24+1,526	0,000	0,567	9,128	332,381					

	Corte	Aterro
Áreas	0,5670 m²	332,381 m²
Volumes	0,759 m³	1.802,701 m³

Confere com o original
 Data 30/09/2021
 [Assinatura]