



Prefeitura Municipal de Caracarái

Rodovia: Vicinal 29 CAI-330 (Vila Barauana)
Trecho: Entronc. BR-432 (Km 0,00) x Vicinal 29 (Km 14,80)
Serviço: Recuperação, Terraplenagem e Construção de P.E.C.
Extensão: 14,80 Km
Município: Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de 200 a 400		P= 6,00		Empolamento: 20,00%		
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
0	0,510	0,510				
1	1,537	2,047	10,000	20,470	20,470	24,564
2	4,448	6,495	10,000	59,850	80,320	96,384
3	7,747	14,242	10,000	121,950	202,270	242,724
4	9,876	24,118	10,000	176,230	378,500	454,200
5	10,498	34,616	10,000	203,740	582,240	698,688
6	9,538	44,154	10,000	200,360	782,600	939,120
7	7,121	51,275	10,000	166,590	949,190	1.139,028
8	3,629	54,904	10,000	107,500	1.056,690	1.268,028
9	1,036	55,940	10,000	46,650	1.103,340	1.324,008
10	0,432	56,372	10,000	14,680	1.118,020	1.341,624
11	0,699	57,071	10,000	11,310	1.129,330	1.355,196
12	0,763	57,834	10,000	14,620	1.143,950	1.372,740
13	0,837	58,671	10,000	16,000	1.159,950	1.391,940
14	0,917	59,588	10,000	17,540	1.177,490	1.412,988
15	1,009	60,597	10,000	19,260	1.196,750	1.436,100
16	1,859	62,456	10,000	28,680	1.225,430	1.470,516
17	4,461	66,917	10,000	63,200	1.288,630	1.546,356
18	7,785	74,702	10,000	122,460	1.411,090	1.693,308
19	10,072	84,774	10,000	178,570	1.589,660	1.907,592

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	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	210,950	1.800,610	2.160,732
20	11,023	95,797				-
		-	10,000	215,210	2.015,820	2.418,984
21	10,498	106,295				-
		-	10,000	190,720	2.206,540	2.647,848
22	8,574	114,869				-
		-	10,000	140,740	2.347,280	2.816,736
23	5,500	120,369				-
		-	10,000	82,880	2.430,160	2.916,192
24	2,788	123,157				-
		-	10,000	41,690	2.471,850	2.966,220
25	1,381	124,538				-
		-	10,000	24,010	2.495,860	2.995,032
26	1,020	125,558				-
		-	10,000	21,590	2.517,450	3.020,940
27	1,139	126,697				-
		-	10,000	24,090	2.541,540	3.049,848
28	1,270	127,967				-
		-	10,000	26,790	2.568,330	3.081,996
29	1,409	129,376				-
		-	10,000	29,630	2.597,960	3.117,552
30	1,554	130,930				-
		-	10,000	32,650	2.630,610	3.156,732
31	1,711	132,641				-
		-	10,000	35,930	2.666,540	3.199,848
32	1,882	134,523				-
		-	10,000	58,610	2.725,150	3.270,180
33	3,979	138,502				-
		-	10,000	114,040	2.839,190	3.407,028
34	7,425	145,927				-
		-	10,000	161,320	3.000,510	3.600,612
35	8,707	154,634				-
		-	10,000	161,990	3.162,500	3.795,000
36	7,492	162,126				-
		-	10,000	115,880	3.278,380	3.934,056
37	4,096	166,222				-
		-	10,000	53,170	3.331,550	3.997,860
38	1,221	167,443				-
		-	10,000	16,740	3.348,290	4.017,948
39	0,453	167,896				-
		-	10,000	10,420	3.358,710	4.030,452
40	0,589	168,485				-
		-	10,000	13,250	3.371,960	4.046,352
41	0,736	169,221				-
		-	10,000	14,250	3.386,210	4.063,452

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
42	0,689	169,910				-
		-	10,000	13,350	3.399,560	4.079,472
43	0,646	170,556				-
		-	10,000	12,560	3.412,120	4.094,544
44	0,610	171,166				-
		-	10,000	11,930	3.424,050	4.108,860
45	0,583	171,749				-
		-	10,000	11,450	3.435,500	4.122,600
46	0,562	172,311				-
		-	10,000	11,090	3.446,590	4.135,908
47	0,547	172,858				-
		-	10,000	10,890	3.457,480	4.148,976
48	0,542	173,400				-
		-	10,000	10,520	3.468,000	4.161,600
49	0,510	173,910				-
		-	10,000	9,940	3.477,940	4.173,528
50	0,484	174,394				-
		-	10,000	9,480	3.487,420	4.184,904
51	0,464	174,858				-
		-	10,000	9,170	3.496,590	4.195,908
52	0,453	175,311				-
		-	10,000	9,010	3.505,600	4.206,720
53	0,448	175,759				-
		-	10,000	8,960	3.514,560	4.217,472
54	0,448	176,207				-
		-	10,000	9,010	3.523,570	4.228,284
55	0,453	176,660				-
		-	10,000	9,220	3.532,790	4.239,348
56	0,469	177,129				-
		-	10,000	9,270	3.542,060	4.250,472
57	0,458	177,587				-
		-	10,000	9,110	3.551,170	4.261,404
58	0,453	178,040				-
		-	10,000	9,060	3.560,230	4.272,276
59	0,453	178,493				-
		-	10,000	9,170	3.569,400	4.283,280
60	0,464	178,957				-
		-	10,000	9,430	3.578,830	4.294,596
61	0,479	179,436				-
		-	10,000	9,790	3.588,620	4.306,344
62	0,500	179,936				-
		-	10,000	9,740	3.598,360	4.318,032
63	0,474	180,410				-
		-	10,000	9,320	3.607,680	4.329,216
64	0,458	180,868				-

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	9,060	3.616,740	4.340,088
65	0,448	181,316				-
		-	10,000	8,910	3.625,650	4.350,780
66	0,443	181,759				-
		-	10,000	8,910	3.634,560	4.361,472
67	0,448	182,207				-
		-	10,000	9,060	3.643,620	4.372,344
68	0,458	182,665				-
		-	10,000	9,320	3.652,940	4.383,528
69	0,474	183,139				-
		-	10,000	9,690	3.662,630	4.395,156
70	0,495	183,634				-
		-	10,000	9,900	3.672,530	4.407,036
71	0,495	184,129				-
		-	10,000	9,950	3.682,480	4.418,976
72	0,500	184,629				-
		-	10,000	10,100	3.692,580	4.431,096
73	0,510	185,139				-
		-	10,000	10,360	3.702,940	4.443,528
74	0,526	185,665				-
		-	10,000	10,680	3.713,620	4.456,344
75	0,542	186,207				-
		-	10,000	10,780	3.724,400	4.469,280
76	0,536	186,743				-
		-	10,000	11,090	3.735,490	4.482,588
77	0,573	187,316				-
		-	10,000	11,620	3.747,110	4.496,532
78	0,589	187,905				-
		-	10,000	11,830	3.758,940	4.510,728
79	0,594	188,499				-
		-	10,000	11,770	3.770,710	4.524,852
80	0,583	189,082				-
		-	10,000	11,400	3.782,110	4.538,532
81	0,557	189,639				-
		-	10,000	10,730	3.792,840	4.551,408
82	0,516	190,155				-
		-	10,000	10,780	3.803,620	4.564,344
83	0,562	190,717				-
		-	10,000	11,510	3.815,130	4.578,156
84	0,589	191,306				-
		-	10,000	11,990	3.827,120	4.592,544
85	0,610	191,916				-
		-	10,000	12,200	3.839,320	4.607,184
86	0,610	192,526				-
		-	10,000	12,040	3.851,360	4.621,632

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
87	0,594	193,120				-
		-	10,000	11,560	3.862,920	4.635,504
88	0,562	193,682				-
		-	10,000	10,780	3.873,700	4.648,440
89	0,516	194,198				-
		-	10,000	11,260	3.884,960	4.661,952
90	0,610	194,808				-
		-	10,000	13,040	3.898,000	4.677,600
91	0,694	195,502				-
		-	10,000	14,510	3.912,510	4.695,012
92	0,757	196,259				-
		-	10,000	15,670	3.928,180	4.713,816
93	0,810	197,069				-
		-	10,000	16,520	3.944,700	4.733,640
94	0,842	197,911				-
		-	10,000	17,060	3.961,760	4.754,112
95	0,864	198,775				-
		-	10,000	17,280	3.979,040	4.774,848
96	0,864	199,639				-
		-	10,000	17,170	3.996,210	4.795,452
97	0,853	200,492				-
		-	10,000	16,740	4.012,950	4.815,540
98	0,821	201,313				-
		-	10,000	16,000	4.028,950	4.834,740
99	0,779	202,092				-
		-	10,000	14,990	4.043,940	4.852,728
100	0,720	202,812				-
		-	10,000	13,660	4.057,600	4.869,120
101	0,646	203,458				-
		-	10,000	12,030	4.069,630	4.883,556
102	0,557	204,015				-
		-	10,000	12,930	4.082,560	4.899,072
103	0,736	204,751				-
		-	10,000	16,320	4.098,880	4.918,656
104	0,896	205,647				-
		-	10,000	19,480	4.118,360	4.942,032
105	1,052	206,699				-
		-	10,000	22,400	4.140,760	4.968,912
106	1,188	207,887				-
		-	10,000	29,790	4.170,550	5.004,660
107	1,791	209,678				-
		-	10,000	52,430	4.222,980	5.067,576
108	3,452	213,130				-
		-	10,000	99,180	4.322,160	5.186,592
109	6,466	219,596				-

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	145,550	4.467,710	5.361,252
110	8,089	227,685				-
		-	10,000	132,400	4.600,110	5.520,132
111	5,151	232,836				-
		-	10,000	69,420	4.669,530	5.603,436
112	1,791	234,627				-
		-	10,000	26,440	4.695,970	5.635,164
113	0,853	235,480				-
		-	10,000	17,650	4.713,620	5.656,344
114	0,912	236,392				-
		-	10,000	18,720	4.732,340	5.678,808
115	0,960	237,352				-
		-	10,000	19,530	4.751,870	5.702,244
116	0,993	238,345				-
		-	10,000	20,070	4.771,940	5.726,328
117	1,014	239,359				-
		-	10,000	20,390	4.792,330	5.750,796
118	1,025	240,384				-
		-	10,000	20,450	4.812,780	5.775,336
119	1,020	241,404				-
		-	10,000	20,230	4.833,010	5.799,612
120	1,003	242,407				-
		-	10,000	19,740	4.852,750	5.823,300
121	0,971	243,378				-
		-	10,000	18,990	4.871,740	5.846,088
122	0,928	244,306				-
		-	10,000	17,970	4.889,710	5.867,652
123	0,869	245,175				-
		-	10,000	16,690	4.906,400	5.887,680
124	0,800	245,975				-
		-	10,000	15,200	4.921,600	5.905,920
125	0,720	246,695				-
		-	10,000	13,450	4.935,050	5.922,060
126	0,625	247,320				-
		-	10,000	13,240	4.948,290	5.937,948
127	0,699	248,019				-
		-	10,000	14,620	4.962,910	5.955,492
128	0,763	248,782				-
		-	10,000	15,730	4.978,640	5.974,368
129	0,810	249,592				-
		-	10,000	16,520	4.995,160	5.994,192
130	0,842	250,434				-
		-	10,000	17,060	5.012,220	6.014,664
131	0,864	251,298				-
		-	10,000	17,380	5.029,600	6.035,520

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	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
132	0,874	252,172				-
		-	10,000	17,480	5.047,080	6.056,496
133	0,874	253,046				-
		-	10,000	17,320	5.064,400	6.077,280
134	0,858	253,904				-
		-	10,000	16,840	5.081,240	6.097,488
135	0,826	254,730				-
		-	10,000	16,100	5.097,340	6.116,808
136	0,784	255,514				-
		-	10,000	15,150	5.112,490	6.134,988
137	0,731	256,245				-
		-	10,000	13,930	5.126,420	6.151,704
138	0,662	256,907				-
		-	10,000	12,450	5.138,870	6.166,644
139	0,583	257,490				-
		-	10,000	10,780	5.149,650	6.179,580
140	0,495	257,985				-
		-	10,000	13,160	5.162,810	6.195,372
141	0,821	258,806				-
		-	10,000	28,810	5.191,620	6.229,944
142	2,060	260,866				-
		-	10,000	64,880	5.256,500	6.307,800
143	4,428	265,294				-
		-	10,000	114,750	5.371,250	6.445,500
144	7,047	272,341				-
		-	10,000	155,830	5.527,080	6.632,496
145	8,536	280,877				-
		-	10,000	177,390	5.704,470	6.845,364
146	9,203	290,080				-
		-	10,000	187,010	5.891,480	7.069,776
147	9,498	299,578				-
		-	10,000	189,000	6.080,480	7.296,576
148	9,402	308,980				-
		-	10,000	183,520	6.264,000	7.516,800
149	8,950	317,930				-
		-	10,000	171,310	6.435,310	7.722,372
150	8,181	326,111				-
		-	10,000	132,430	6.567,740	7.881,288
151	5,062	331,173				-
		-	10,000	73,200	6.640,940	7.969,128
152	2,258	333,431				-
		-	10,000	38,340	6.679,280	8.015,136
153	1,576	335,007				-
		-	10,000	28,080	6.707,360	8.048,832
154	1,232	336,239				-

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	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	24,370	6.731,730	8.078,076
155	1,205	337,444				-
		-	10,000	25,470	6.757,200	8.108,640
156	1,342	338,786				-
		-	10,000	27,230	6.784,430	8.141,316
157	1,381	340,167				-
		-	10,000	28,170	6.812,600	8.175,120
158	1,436	341,603				-
		-	10,000	29,560	6.842,160	8.210,592
159	1,520	343,123				-
		-	10,000	31,410	6.873,570	8.248,284
160	1,621	344,744				-
		-	10,000	33,660	6.907,230	8.288,676
161	1,745	346,489				-
		-	10,000	43,770	6.951,000	8.341,200
162	2,632	349,121				-
		-	10,000	78,780	7.029,780	8.435,736
163	5,246	354,367				-
		-	10,000	138,900	7.168,680	8.602,416
164	8,644	363,011				-
		-	10,000	198,860	7.367,540	8.841,048
165	11,242	374,253				-
		-	10,000	240,290	7.607,830	9.129,396
166	12,787	387,040				-
		-	10,000	258,750	7.866,580	9.439,896
167	13,088	400,128				-
		-	10,000	255,770	8.122,350	9.746,820
168	12,489	412,617				-
		-	10,000	238,410	8.360,760	10.032,912
169	11,352	423,969				-
		-	10,000	210,990	8.571,750	10.286,100
170	9,747	433,716				-
		-	10,000	174,870	8.746,620	10.495,944
171	7,740	441,456				-
		-	10,000	131,710	8.878,330	10.653,996
172	5,431	446,887				-
		-	10,000	88,650	8.966,980	10.760,376
173	3,434	450,321				-
		-	10,000	56,160	9.023,140	10.827,768
174	2,182	452,503				-
		-	10,000	37,300	9.060,440	10.872,528
175	1,548	454,051				-
		-	10,000	30,180	9.090,620	10.908,744
176	1,470	455,521				-
		-	10,000	31,420	9.122,040	10.946,448

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
177	1,672	457,193				-
		-	10,000	35,650	9.157,690	10.989,228
178	1,893	459,086				-
		-	10,000	40,400	9.198,090	11.037,708
179	2,147	461,233				-
		-	10,000	45,700	9.243,790	11.092,548
180	2,423	463,656				-
		-	10,000	54,180	9.297,970	11.157,564
181	2,995	466,651				-
		-	10,000	71,550	9.369,520	11.243,424
182	4,160	470,811				-
		-	10,000	101,980	9.471,500	11.365,800
183	6,038	476,849				-
		-	10,000	148,070	9.619,570	11.543,484
184	8,769	485,618				-
		-	10,000	189,960	9.809,530	11.771,436
185	10,227	495,845				-
		-	10,000	182,470	9.992,000	11.990,400
186	8,020	503,865				-
		-	10,000	129,000	10.121,000	12.145,200
187	4,880	508,745				-
		-	10,000	78,620	10.199,620	12.239,544
188	2,982	511,727				-
		-	10,000	50,540	10.250,160	12.300,192
189	2,072	513,799				-
		-	10,000	40,690	10.290,850	12.349,020
190	1,997	515,796				-
		-	10,000	44,020	10.334,870	12.401,844
191	2,405	518,201				-
		-	10,000	53,630	10.388,500	12.466,200
192	2,958	521,159				-
		-	10,000	69,950	10.458,450	12.550,140
193	4,037	525,196				-
		-	10,000	101,600	10.560,050	12.672,060
194	6,123	531,319				-
		-	10,000	136,900	10.696,950	12.836,340
195	7,567	538,886				-
		-	10,000	139,460	10.836,410	13.003,692
196	6,379	545,265				-
		-	10,000	104,360	10.940,770	13.128,924
197	4,057	549,322				-
		-	10,000	63,270	11.004,040	13.204,848
198	2,270	551,592				-
		-	10,000	34,640	11.038,680	13.246,416
199	1,194	552,786				-

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Prefeitura Municipal de Caracaraí

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	19,090	11.057,770	13.269,324
200	0,715	553,501				-
		-	10,000	12,310	11.070,080	13.284,096
201	0,516	554,017				-
		-	10,000	10,940	11.081,020	13.297,224
202	0,578	554,595				-
		-	10,000	12,350	11.093,370	13.312,044
203	0,657	555,252				-
		-	10,000	13,980	11.107,350	13.328,820
204	0,741	555,993				-
		-	10,000	16,580	11.123,930	13.348,716
205	0,917	556,910				-
		-	10,000	20,290	11.144,220	13.373,064
206	1,112	558,022				-
		-	10,000	24,260	11.168,480	13.402,176
207	1,314	559,336				-
		-	10,000	37,910	11.206,390	13.447,668
208	2,477	561,813				-
		-	10,000	83,740	11.290,130	13.548,156
209	5,897	567,710				-
		-	10,000	140,240	11.430,370	13.716,444
210	8,127	575,837				-
		-	10,000	128,270	11.558,640	13.870,368
211	4,700	580,537				-
		-	10,000	63,040	11.621,680	13.946,016
212	1,604	582,141				-
		-	10,000	25,700	11.647,380	13.976,856
213	0,966	583,107				-
		-	10,000	15,910	11.663,290	13.995,948
214	0,625	583,732				-
		-	10,000	11,870	11.675,160	14.010,192
215	0,562	584,294				-
		-	10,000	11,930	11.687,090	14.024,508
216	0,631	584,925				-
		-	10,000	12,090	11.699,180	14.039,016
217	0,578	585,503				-
		-	10,000	11,140	11.710,320	14.052,384
218	0,536	586,039				-
		-	10,000	10,410	11.720,730	14.064,876
219	0,505	586,544				-
		-	10,000	9,950	11.730,680	14.076,816
220	0,490	587,034		-	-	-
		-	10,000	9,740	11.740,420	14.088,504
221	0,484	587,518		-	-	-
		-	10,000	9,740	11.750,160	14.100,192

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
222	0,490	588,008		-	-	-
		-	10,000	9,950	11.760,110	14.112,132
223	0,505	588,513		-	-	-
		-	10,000	10,360	11.770,470	14.124,564
224	0,531	589,044		-	-	-
		-	10,000	10,310	11.780,780	14.136,936
225	0,500	589,544		-	-	-
		-	10,000	9,790	11.790,570	14.148,684
226	0,479	590,023		-	-	-
		-	10,000	9,480	11.800,050	14.160,060
227	0,469	590,492		-	-	-
		-	10,000	9,380	11.809,430	14.171,316
228	0,469	590,961		-	-	-
		-	10,000	9,530	11.818,960	14.182,752
229	0,484	591,445		-	-	-
		-	10,000	9,940	11.828,900	14.194,680
230	0,510	591,955		-	-	-
		-	10,000	10,410	11.839,310	14.207,172
231	0,531	592,486		-	-	-
		-	10,000	10,620	11.849,930	14.219,916
232	0,531	593,017		-	-	-
		-	10,000	10,410	11.860,340	14.232,408
233	0,510	593,527		-	-	-
		-	10,000	11,090	11.871,430	14.245,716
234	0,599	594,126		-	-	-
		-	10,000	15,270	11.886,700	14.264,040
235	0,928	595,054		-	-	-
		-	10,000	24,480	11.911,180	14.293,416
236	1,520	596,574		-	-	-
		-	10,000	39,200	11.950,380	14.340,456
237	2,400	598,974		-	-	-
		-	10,000	64,050	12.014,430	14.417,316
238	4,005	602,979		-	-	-
		-	10,000	109,420	12.123,850	14.548,620
239	6,937	609,916		-	-	-
		-	10,000	154,960	12.278,810	14.734,572
240	8,559	618,475		-	-	-
		-	10,000	143,510	12.422,320	14.906,784
241	5,792	624,267		-	-	-
		-	10,000	83,040	12.505,360	15.006,432
242	2,512	626,779		-	-	-
		-	10,000	39,710	12.545,070	15.054,084
243	1,459	628,238		-	-	-
		-	10,000	27,960	12.573,030	15.087,636
244	1,337	629,575		-	-	-

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	25,310	12.598,340	15.118,008
245	1,194	630,769		-	-	-
		-	10,000	22,240	12.620,580	15.144,696
246	1,030	631,799		-	-	-
		-	10,000	18,780	12.639,360	15.167,232
247	0,848	632,647		-	-	-
		-	10,000	14,940	12.654,300	15.185,160
248	0,646	633,293		-	-	-
		-	10,000	10,730	12.665,030	15.198,036
249	0,427	633,720		-	-	-
		-	10,000	9,170	12.674,200	15.209,040
250	0,490	634,210		-	-	-
		-	10,000	10,210	12.684,410	15.221,292
251	0,531	634,741		-	-	-
		-	10,000	10,830	12.695,240	15.234,288
252	0,552	635,293		-	-	-
		-	10,000	11,040	12.706,280	15.247,536
253	0,552	635,845		-	-	-
		-	10,000	10,830	12.717,110	15.260,532
254	0,531	636,376		-	-	-
		-	10,000	10,210	12.727,320	15.272,784
255	0,490	636,866		-	-	-
		-	10,000	14,400	12.741,720	15.290,064
256	0,950	637,816		-	-	-
		-	10,000	34,860	12.776,580	15.331,896
257	2,536	640,352		-	-	-
		-	10,000	81,190	12.857,770	15.429,324
258	5,583	645,935		-	-	-
		-	10,000	141,810	12.999,580	15.599,496
259	8,598	654,533		-	-	-
		-	10,000	178,960	13.178,540	15.814,248
260	9,298	663,831		-	-	-
		-	10,000	168,120	13.346,660	16.015,992
261	7,514	671,345		-	-	-
		-	10,000	112,120	13.458,780	16.150,536
262	3,698	675,043		-	-	-
		-	10,000	50,680	13.509,460	16.211,352
263	1,370	676,413		-	-	-
		-	10,000	23,360	13.532,820	16.239,384
264	0,966	677,379		-	-	-
		-	10,000	15,180	13.548,000	16.257,600
265	0,552	677,931		-	-	-
		-	10,000	11,460	13.559,460	16.271,352
266	0,594	678,525		-	-	-
		-	10,000	12,090	13.571,550	16.285,860

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
267	0,615	679,140		-	-	-
		-	10,000	12,300	13.583,850	16.300,620
268	0,615	679,755		-	-	-
		-	10,000	12,090	13.595,940	16.315,128
269	0,594	680,349		-	-	-
		-	10,000	11,460	13.607,400	16.328,880
270	0,552	680,901		-	-	-
		-	10,000	10,420	13.617,820	16.341,384
271	0,490	681,391		-	-	-
		-	10,000	9,800	13.627,620	16.353,144
272	0,490	681,881		-	-	-
		-	10,000	9,690	13.637,310	16.364,772
273	0,479	682,360		-	-	-
		-	10,000	9,530	13.646,840	16.376,208
274	0,474	682,834		-	-	-
		-	10,000	9,480	13.656,320	16.387,584
275	0,474	683,308		-	-	-
		-	10,000	9,530	13.665,850	16.399,020
276	0,479	683,787		-	-	-
		-	10,000	9,630	13.675,480	16.410,576
277	0,484	684,271		-	-	-
		-	10,000	9,790	13.685,270	16.422,324
278	0,495	684,766		-	-	-
		-	10,000	10,050	13.695,320	16.434,384
279	0,510	685,276		-	-	-
		-	10,000	11,990	13.707,310	16.448,772
280	0,689	685,965		-	-	-
		-	10,000	18,990	13.726,300	16.471,560
281	1,210	687,175		-	-	-
		-	10,000	33,110	13.759,410	16.511,292
282	2,101	689,276		-	-	-
		-	10,000	58,820	13.818,230	16.581,876
283	3,781	693,057		-	-	-
		-	10,000	106,380	13.924,610	16.709,532
284	6,857	699,914		-	-	-
		-	10,000	158,220	14.082,830	16.899,396
285	8,965	708,879		-	-	-
		-	10,000	180,880	14.263,710	17.116,452
286	9,123	718,002		-	-	-
		-	10,000	184,050	14.447,760	17.337,312
287	9,282	727,284		-	-	-
		-	10,000	187,390	14.635,150	17.562,180
288	9,457	736,741		-	-	-
		-	10,000	187,390	14.822,540	17.787,048
289	9,282	746,023		-	-	-

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	177,090	14.999,630	17.999,556
290	8,427	754,450		-	-	-
		-	10,000	151,020	15.150,650	18.180,780
291	6,675	761,125		-	-	-
		-	10,000	106,480	15.257,130	18.308,556
292	3,973	765,098		-	-	-
		-	10,000	57,640	15.314,770	18.377,724
293	1,791	766,889		-	-	-
		-	10,000	28,650	15.343,420	18.412,104
294	1,074	767,963		-	-	-
		-	10,000	20,770	15.364,190	18.437,028
295	1,003	768,966		-	-	-
		-	10,000	19,360	15.383,550	18.460,260
296	0,933	769,899		-	-	-
		-	10,000	18,020	15.401,570	18.481,884
297	0,869	770,768		-	-	-
		-	10,000	16,740	15.418,310	18.501,972
298	0,805	771,573		-	-	-
		-	10,000	15,570	15.433,880	18.520,656
299	0,752	772,325		-	-	-
		-	10,000	14,510	15.448,390	18.538,068
300	0,699	773,024		-	-	-
		-	10,000	13,510	15.461,900	18.554,280
301	0,652	773,676		-	-	-
		-	10,000	12,560	15.474,460	18.569,352
302	0,604	774,280		-	-	-
		-	10,000	11,720	15.486,180	18.583,416
303	0,568	774,848		-	-	-
		-	10,000	10,990	15.497,170	18.596,604
304	0,531	775,379		-	-	-
		-	10,000	11,560	15.508,730	18.610,476
305	0,625	776,004		-	-	-
		-	10,000	16,230	15.524,960	18.629,952
306	0,998	777,002		-	-	-
		-	10,000	26,580	15.551,540	18.661,848
307	1,660	778,662		-	-	-
		-	10,000	28,760	15.580,300	18.696,360
308	1,216	779,878		-	-	-
		-	10,000	27,680	15.607,980	18.729,576
309	1,552	781,430		-	-	-
		-	10,000	29,560	15.637,540	18.765,048
310	1,404	782,834		-	-	-
		-	10,000	32,910	15.670,450	18.804,540
311	1,887	784,721		-	-	-
		-	10,000	38,150	15.708,600	18.850,320

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
312	1,928	786,649		-	-	-
		-	10,000	33,140	15.741,740	18.890,088
313	1,386	788,035		-	-	-
		-	10,000	22,440	15.764,180	18.917,016
314	0,858	788,893		-	-	-
		-	10,000	16,740	15.780,920	18.937,104
315	0,816	789,709		-	-	-
		-	10,000	15,840	15.796,760	18.956,112
316	0,768	790,477		-	-	-
		-	10,000	14,720	15.811,480	18.973,776
317	0,704	791,181		-	-	-
		-	10,000	13,450	15.824,930	18.989,916
318	0,641	791,822		-	-	-
		-	10,000	12,090	15.837,020	19.004,424
319	0,568	792,390		-	-	-
		-	10,000	10,580	15.847,600	19.017,120
320	0,490	792,880		-	-	-
		-	10,000	9,950	15.857,550	19.029,060
321	0,505	793,385		-	-	-
		-	10,000	10,210	15.867,760	19.041,312
322	0,516	793,901		-	-	-
		-	10,000	10,320	15.878,080	19.053,696
323	0,516	794,417		-	-	-
		-	10,000	10,260	15.888,340	19.066,008
324	0,510	794,927		-	-	-
		-	10,000	10,050	15.898,390	19.078,068
325	0,495	795,422		-	-	-
		-	10,000	14,230	15.912,620	19.095,144
326	0,928	796,350		-	-	-
		-	10,000	32,860	15.945,480	19.134,576
327	2,358	798,708		-	-	-
		-	10,000	34,070	15.979,550	19.175,460
328	1,049	799,757		-	-	-
		-	10,000	36,810	16.016,360	19.219,632
329	2,632	802,389		-	-	-
		-	10,000	93,640	16.110,000	19.332,000
330	6,732	809,121		-	-	-
		-	10,000	147,300	16.257,300	19.508,760
331	7,998	817,119		-	-	-
		-	10,000	159,500	16.416,800	19.700,160
332	7,952	825,071		-	-	-
		-	10,000	161,180	16.577,980	19.893,576
333	8,166	833,237		-	-	-
		-	10,000	168,100	16.746,080	20.095,296
334	8,644	841,881		-	-	-

Endereço: Praça do Centro Cívico, S/N - Centro - CEP 69.360-000.

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	172,880	16.918,960	20.302,752
335	8,644	850,525		-	-	-
		-	10,000	160,610	17.079,570	20.495,484
336	7,417	857,942		-	-	-
		-	10,000	136,960	17.216,530	20.659,836
337	6,279	864,221		-	-	-
		-	10,000	126,510	17.343,040	20.811,648
338	6,372	870,593		-	-	-
		-	10,000	140,970	17.484,010	20.980,812
339	7,725	878,318		-	-	-
		-	10,000	160,750	17.644,760	21.173,712
340	8,350	886,668		-	-	-
		-	10,000	145,510	17.790,270	21.348,324
341	6,201	892,869		-	-	-
		-	10,000	102,970	17.893,240	21.471,888
342	4,096	896,965		-	-	-
		-	10,000	83,340	17.976,580	21.571,896
343	4,238	901,203		-	-	-
		-	10,000	109,200	18.085,780	21.702,936
344	6,682	907,885		-	-	-
		-	10,000	151,870	18.237,650	21.885,180
345	8,505	916,390		-	-	-
		-	10,000	146,700	18.384,350	22.061,220
346	6,165	922,555		-	-	-
		-	10,000	90,740	18.475,090	22.170,108
347	2,909	925,464		-	-	-
		-	10,000	41,030	18.516,120	22.219,344
348	1,194	926,658		-	-	-
		-	10,000	18,560	18.534,680	22.241,616
349	0,662	927,320		-	-	-
		-	10,000	13,190	18.547,870	22.257,444
350	0,657	927,977		-	-	-
		-	10,000	13,030	18.560,900	22.273,080
351	0,646	928,623		-	-	-
		-	10,000	12,710	18.573,610	22.288,332
352	0,625	929,248		-	-	-
		-	10,000	12,290	18.585,900	22.303,080
353	0,604	929,852		-	-	-
		-	10,000	11,720	18.597,620	22.317,144
354	0,568	930,420		-	-	-
		-	10,000	10,940	18.608,560	22.330,272
355	0,526	930,946		-	-	-
		-	10,000	10,050	18.618,610	22.342,332
356	0,479	931,425		-	-	-
		-	10,000	17,600	18.636,210	22.363,452

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
357	1,281	932,706		-	-	-
		-	10,000	23,570	18.659,780	22.391,736
358	1,076	933,782		-	-	-
		-	10,000	23,600	18.683,380	22.420,056
359	1,284	935,066		-	-	-
		-	10,000	25,490	18.708,870	22.450,644
360	1,265	936,331		-	-	-
		-	10,000	30,270	18.739,140	22.486,968
361	1,762	938,093		-	-	-
		-	10,000	49,410	18.788,550	22.546,260
362	3,179	941,272		-	-	-
		-	10,000	40,110	18.828,660	22.594,392
363	0,832	942,104		-	-	-
		-	10,000	12,130	18.840,790	22.608,948
364	0,381	942,485		-	-	-
		-	10,000	6,590	18.847,380	22.616,856
365	0,278	942,763		-	-	-
		-	10,000	6,280	18.853,660	22.624,392
366	0,350	943,113		-	-	-
		-	10,000	6,790	18.860,450	22.632,540
367	0,329	943,442		-	-	-
		-	10,000	6,580	18.867,030	22.640,436
368	0,329	943,771		-	-	-
		-	10,000	6,740	18.873,770	22.648,524
369	0,345	944,116		-	-	-
		-	10,000	7,260	18.881,030	22.657,236
370	0,381	944,497		-	-	-
		-	10,000	8,130	18.889,160	22.666,992
371	0,432	944,929		-	-	-
		-	10,000	9,370	18.898,530	22.678,236
372	0,505	945,434		-	-	-
		-	10,000	9,790	18.908,320	22.689,984
373	0,474	945,908		-	-	-
		-	10,000	9,320	18.917,640	22.701,168
374	0,458	946,366		-	-	-
		-	10,000	9,220	18.926,860	22.712,232
375	0,464	946,830		-	-	-
		-	10,000	9,540	18.936,400	22.723,680
376	0,490	947,320		-	-	-
		-	10,000	10,210	18.946,610	22.735,932
377	0,531	947,851		-	-	-
		-	10,000	9,890	18.956,500	22.747,800
378	0,458	948,309		-	-	-
		-	10,000	8,590	18.965,090	22.758,108
379	0,401	948,710		-	-	-

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	7,660	18.972,750	22.767,300
380	0,365	949,075		-	-	-
		-	10,000	7,150	18.979,900	22.775,880
381	0,350	949,425		-	-	-
		-	10,000	7,000	18.986,900	22.784,280
382	0,350	949,775		-	-	-
		-	10,000	7,200	18.994,100	22.792,920
383	0,370	950,145		-	-	-
		-	10,000	7,820	19.001,920	22.802,304
384	0,412	950,557		-	-	-
		-	10,000	8,810	19.010,730	22.812,876
385	0,469	951,026		-	-	-
		-	10,000	10,160	19.020,890	22.825,068
386	0,547	951,573		-	-	-
		-	10,000	19,440	19.040,330	22.848,396
387	1,397	952,970		-	-	-
		-	10,000	24,340	19.064,670	22.877,604
388	1,037	954,007		-	-	-
		-	10,000	20,470	19.085,140	22.902,168
389	1,010	955,017		-	-	-
		-	10,000	29,850	19.114,990	22.937,988
390	1,975	956,992		-	-	-
		-	10,000	36,720	19.151,710	22.982,052
391	1,697	958,689		-	-	-
		-	10,000	29,020	19.180,730	23.016,876
392	1,205	959,894		-	-	-
		-	10,000	24,990	19.205,720	23.046,864
393	1,294	961,188		-	-	-
		-	10,000	32,750	19.238,470	23.086,164
394	1,981	963,169		-	-	-
		-	10,000	32,080	19.270,550	23.124,660
395	1,227	964,396		-	-	-
		-	10,000	29,600	19.300,150	23.160,180
396	1,733	966,129		-	-	-
		-	10,000	36,940	19.337,090	23.204,508
397	1,961	968,090		-	-	-
		-	10,000	39,560	19.376,650	23.251,980
398	1,995	970,085		-	-	-
		-	10,000	38,230	19.414,880	23.297,856
399	1,828	971,913		-	-	-
		-	10,000	38,180	19.453,060	23.343,672
400	1,990	973,903		-	-	-
		-	10,000	37,190	19.490,250	23.388,300
401	1,729	975,632		-	-	-
		-	10,000	45,470	19.535,720	23.442,864

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
402	2,818	978,450		-	-	-
		-	10,000	41,270	19.576,990	23.492,388
403	1,309	979,759		-	-	-
		-	10,000	22,210	19.599,200	23.519,040
404	0,912	980,671		-	-	-
		-	10,000	19,260	19.618,460	23.542,152
405	1,014	981,685		-	-	-
		-	10,000	21,260	19.639,720	23.567,664
406	1,112	982,797		-	-	-
		-	10,000	23,110	19.662,830	23.595,396
407	1,199	983,996		-	-	-
		-	10,000	33,230	19.696,060	23.635,272
408	2,124	986,120		-	-	-
		-	10,000	31,530	19.727,590	23.673,108
409	1,029	987,149		-	-	-
		-	10,000	25,660	19.753,250	23.703,900
410	1,537	988,686		-	-	-
		-	10,000	28,590	19.781,840	23.738,208
411	1,322	990,008		-	-	-
		-	10,000	47,870	19.829,710	23.795,652
412	3,465	993,473		-	-	-
		-	10,000	48,850	19.878,560	23.854,272
413	1,420	994,893		-	-	-
		-	10,000	18,520	19.897,080	23.876,496
414	0,432	995,325		-	-	-
		-	10,000	7,410	19.904,490	23.885,388
415	0,309	995,634		-	-	-
		-	10,000	9,130	19.913,620	23.896,344
416	0,604	996,238		-	-	-
		-	10,000	12,030	19.925,650	23.910,780
417	0,599	996,837		-	-	-
		-	10,000	11,820	19.937,470	23.924,964
418	0,583	997,420		-	-	-
		-	10,000	11,400	19.948,870	23.938,644
419	0,557	997,977		-	-	-
		-	10,000	10,780	19.959,650	23.951,580
420	0,521	998,498		-	-	-
		-	10,000	10,260	19.969,910	23.963,892
421	0,505	999,003		-	-	-
		-	10,000	18,080	19.987,990	23.985,588
422	1,303	1.000,306		-	-	-
		-	10,000	23,150	20.011,140	24.013,368
423	1,012	1.001,318		-	-	-
		-	10,000	22,070	20.033,210	24.039,852
424	1,195	1.002,513		-	-	-

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	26,530	20.059,740	24.071,688
425	1,458	1.003,971		-	-	-
		-	10,000	27,080	20.086,820	24.104,184
426	1,250	1.005,221		-	-	-
		-	10,000	25,780	20.112,600	24.135,120
427	1,328	1.006,549		-	-	-
		-	10,000	31,850	20.144,450	24.173,340
428	1,857	1.008,406		-	-	-
		-	10,000	38,010	20.182,460	24.218,952
429	1,944	1.010,350		-	-	-
		-	10,000	34,490	20.216,950	24.260,340
430	1,505	1.011,855		-	-	-
		-	10,000	28,990	20.245,940	24.295,128
431	1,394	1.013,249		-	-	-
		-	10,000	26,980	20.272,920	24.327,504
432	1,304	1.014,553		-	-	-
		-	10,000	26,600	20.299,520	24.359,424
433	1,356	1.015,909		-	-	-
		-	10,000	29,220	20.328,740	24.394,488
434	1,566	1.017,475		-	-	-
		-	10,000	27,240	20.355,980	24.427,176
435	1,158	1.018,633		-	-	-
		-	10,000	29,920	20.385,900	24.463,080
436	1,834	1.020,467		-	-	-
		-	10,000	45,500	20.431,400	24.517,680
437	2,716	1.023,183		-	-	-
		-	10,000	38,440	20.469,840	24.563,808
438	1,128	1.024,311		-	-	-
		-	10,000	18,640	20.488,480	24.586,176
439	0,736	1.025,047		-	-	-
		-	10,000	16,160	20.504,640	24.605,568
440	0,880	1.025,927		-	-	-
		-	10,000	17,220	20.521,860	24.626,232
441	0,842	1.026,769		-	-	-
		-	10,000	16,470	20.538,330	24.645,996
442	0,805	1.027,574		-	-	-
		-	10,000	15,780	20.554,110	24.664,932
443	0,773	1.028,347		-	-	-
		-	10,000	15,250	20.569,360	24.683,232
444	0,752	1.029,099		-	-	-
		-	10,000	14,930	20.584,290	24.701,148
445	0,741	1.029,840		-	-	-
		-	10,000	14,770	20.599,060	24.718,872
446	0,736	1.030,576		-	-	-
		-	10,000	14,770	20.613,830	24.736,596

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
447	0,741	1.031,317		-	-	-
		-	10,000	15,090	20.628,920	24.754,704
448	0,768	1.032,085		-	-	-
		-	10,000	15,680	20.644,600	24.773,520
449	0,800	1.032,885		-	-	-
		-	10,000	16,420	20.661,020	24.793,224
450	0,842	1.033,727		-	-	-
		-	10,000	21,560	20.682,580	24.819,096
451	1,314	1.035,041		-	-	-
		-	10,000	40,180	20.722,760	24.867,312
452	2,704	1.037,745		-	-	-
		-	10,000	39,500	20.762,260	24.914,712
453	1,246	1.038,991		-	-	-
		-	10,000	29,030	20.791,290	24.949,548
454	1,657	1.040,648		-	-	-
		-	10,000	27,840	20.819,130	24.982,956
455	1,127	1.041,775		-	-	-
		-	10,000	26,790	20.845,920	25.015,104
456	1,552	1.043,327		-	-	-
		-	10,000	48,360	20.894,280	25.073,136
457	3,284	1.046,611		-	-	-
		-	10,000	43,040	20.937,320	25.124,784
458	1,020	1.047,631		-	-	-
		-	10,000	14,520	20.951,840	25.142,208
459	0,432	1.048,063		-	-	-
		-	10,000	7,410	20.959,250	25.151,100
460	0,309	1.048,372		-	-	-
		-	10,000	7,310	20.966,560	25.159,872
461	0,422	1.048,794		-	-	-
		-	10,000	9,690	20.976,250	25.171,500
462	0,547	1.049,341		-	-	-
		-	10,000	10,570	20.986,820	25.184,184
463	0,510	1.049,851		-	-	-
		-	10,000	9,940	20.996,760	25.196,112
464	0,484	1.050,335		-	-	-
		-	10,000	9,480	21.006,240	25.207,488
465	0,464	1.050,799		-	-	-
		-	10,000	9,170	21.015,410	25.218,492
466	0,453	1.051,252		-	-	-
		-	10,000	9,060	21.024,470	25.229,364
467	0,453	1.051,705		-	-	-
		-	10,000	9,110	21.033,580	25.240,296
468	0,458	1.052,163		-	-	-
		-	10,000	9,320	21.042,900	25.251,480
469	0,474	1.052,637		-	-	-

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DMT de 200 a 400		P= 6,00		Empolamento: 20,00%		
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	9,740	21.052,640	25.263,168
470	0,500	1.053,137		-	-	-
		-	10,000	9,690	21.062,330	25.274,796
471	0,469	1.053,606		-	-	-
		-	10,000	9,170	21.071,500	25.285,800
472	0,448	1.054,054		-	-	-
		-	10,000	8,860	21.080,360	25.296,432
473	0,438	1.054,492		-	-	-
		-	10,000	8,700	21.089,060	25.306,872
474	0,432	1.054,924		-	-	-
		-	10,000	8,700	21.097,760	25.317,312
475	0,438	1.055,362		-	-	-
		-	10,000	8,860	21.106,620	25.327,944
476	0,448	1.055,810		-	-	-
		-	10,000	9,170	21.115,790	25.338,948
477	0,469	1.056,279		-	-	-
		-	10,000	9,690	21.125,480	25.350,576
478	0,500	1.056,779		-	-	-
		-	10,000	9,740	21.135,220	25.362,264
479	0,474	1.057,253		-	-	-
		-	10,000	9,320	21.144,540	25.373,448
480	0,458	1.057,711		-	-	-
		-	10,000	9,110	21.153,650	25.384,380
481	0,453	1.058,164		-	-	-
		-	10,000	9,060	21.162,710	25.395,252
482	0,453	1.058,617		-	-	-
		-	10,000	9,170	21.171,880	25.406,256
483	0,464	1.059,081		-	-	-
		-	10,000	9,480	21.181,360	25.417,632
484	0,484	1.059,565		-	-	-
		-	10,000	9,940	21.191,300	25.429,560
485	0,510	1.060,075		-	-	-
		-	10,000	10,460	21.201,760	25.442,112
486	0,536	1.060,611		-	-	-
		-	10,000	10,830	21.212,590	25.455,108
487	0,547	1.061,158		-	-	-
		-	10,000	10,940	21.223,530	25.468,236
488	0,547	1.061,705		-	-	-
		-	10,000	10,780	21.234,310	25.481,172
489	0,531	1.062,236		-	-	-
		-	10,000	10,360	21.244,670	25.493,604
490	0,505	1.062,741		-	-	-
		-	10,000	14,060	21.258,730	25.510,476
491	0,901	1.063,642		-	-	-
		-	10,000	31,360	21.290,090	25.548,108

Endereço: Praça do Centro Cívico, S/N - Centro - CEP 69.360-000.

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
492	2,235	1.065,877		-	-	-
		-	10,000	39,750	21.329,840	25.595,808
493	1,740	1.067,617		-	-	-
		-	10,000	30,240	21.360,080	25.632,096
494	1,284	1.068,901		-	-	-
		-	10,000	24,570	21.384,650	25.661,580
495	1,173	1.070,074		-	-	-
		-	10,000	23,970	21.408,620	25.690,344
496	1,224	1.071,298		-	-	-
		-	10,000	28,640	21.437,260	25.724,712
497	1,640	1.072,938		-	-	-
		-	10,000	38,050	21.475,310	25.770,372
498	2,165	1.075,103		-	-	-
		-	10,000	31,470	21.506,780	25.808,136
499	0,982	1.076,085		-	-	-
		-	10,000	18,350	21.525,130	25.830,156
500	0,853	1.076,938		-	-	-
		-	10,000	20,680	21.545,810	25.854,972
501	1,215	1.078,153		-	-	-
		-	10,000	27,910	21.573,720	25.888,464
502	1,576	1.079,729		-	-	-
		-	10,000	42,800	21.616,520	25.939,824
503	2,704	1.082,433		-	-	-
		-	10,000	43,290	21.659,810	25.991,772
504	1,625	1.084,058		-	-	-
		-	10,000	32,670	21.692,480	26.030,976
505	1,642	1.085,700		-	-	-
		-	10,000	29,500	21.721,980	26.066,376
506	1,308	1.087,008		-	-	-
		-	10,000	33,920	21.755,900	26.107,080
507	2,084	1.089,092		-	-	-
		-	10,000	26,260	21.782,160	26.138,592
508	0,542	1.089,634		-	-	-
		-	10,000	8,250	21.790,410	26.148,492
509	0,283	1.089,917		-	-	-
		-	10,000	9,030	21.799,440	26.159,328
510	0,620	1.090,537		-	-	-
		-	10,000	12,770	21.812,210	26.174,652
511	0,657	1.091,194		-	-	-
		-	10,000	13,350	21.825,560	26.190,672
512	0,678	1.091,872		-	-	-
		-	10,000	13,610	21.839,170	26.207,004
513	0,683	1.092,555		-	-	-
		-	10,000	13,610	21.852,780	26.223,336
514	0,678	1.093,233		-	-	-

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Prefeitura Municipal de Caracaraí

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de 200 a 400		P= 6,00		Empolamento: 20,00%		
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	13,400	21.866,180	26.239,416
515	0,662	1.093,895		-	-	-
		-	10,000	12,930	21.879,110	26.254,932
516	0,631	1.094,526		-	-	-
		-	10,000	12,200	21.891,310	26.269,572
517	0,589	1.095,115		-	-	-
		-	10,000	11,200	21.902,510	26.283,012
518	0,531	1.095,646		-	-	-
		-	10,000	10,930	21.913,440	26.296,128
519	0,562	1.096,208		-	-	-
		-	10,000	11,510	21.924,950	26.309,940
520	0,589	1.096,797		-	-	-
		-	10,000	11,830	21.936,780	26.324,136
521	0,594	1.097,391		-	-	-
		-	10,000	11,830	21.948,610	26.338,332
522	0,589	1.097,980		-	-	-
		-	10,000	11,620	21.960,230	26.352,276
523	0,573	1.098,553		-	-	-
		-	10,000	11,150	21.971,380	26.365,656
524	0,542	1.099,095		-	-	-
		-	10,000	10,420	21.981,800	26.378,160
525	0,500	1.099,595		-	-	-
		-	10,000	16,990	21.998,790	26.398,548
526	1,199	1.100,794		-	-	-
		-	10,000	48,210	22.047,000	26.456,400
527	3,622	1.104,416		-	-	-
		-	10,000	55,960	22.102,960	26.523,552
528	1,974	1.106,390		-	-	-
		-	10,000	37,940	22.140,900	26.569,080
529	1,820	1.108,210		-	-	-
		-	10,000	28,770	22.169,670	26.603,604
530	1,057	1.109,267		-	-	-
		-	10,000	27,640	22.197,310	26.636,772
531	1,707	1.110,974		-	-	-
		-	10,000	27,870	22.225,180	26.670,216
532	1,080	1.112,054		-	-	-
		-	10,000	37,780	22.262,960	26.715,552
533	2,698	1.114,752		-	-	-
		-	10,000	37,770	22.300,730	26.760,876
534	1,079	1.115,831		-	-	-
		-	10,000	15,370	22.316,100	26.779,320
535	0,458	1.116,289		-	-	-
		-	10,000	7,770	22.323,870	26.788,644
536	0,319	1.116,608		-	-	-
		-	10,000	7,410	22.331,280	26.797,536

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
537	0,422	1.117,030		-	-	-
		-	10,000	9,430	22.340,710	26.808,852
538	0,521	1.117,551		-	-	-
		-	10,000	11,310	22.352,020	26.822,424
539	0,610	1.118,161		-	-	-
		-	10,000	12,770	22.364,790	26.837,748
540	0,667	1.118,828		-	-	-
		-	10,000	13,870	22.378,660	26.854,392
541	0,720	1.119,548		-	-	-
		-	10,000	22,120	22.400,780	26.880,936
542	1,492	1.121,040		-	-	-
		-	10,000	54,070	22.454,850	26.945,820
543	3,915	1.124,955		-	-	-
		-	10,000	55,900	22.510,750	27.012,900
544	1,675	1.126,630		-	-	-
		-	10,000	33,700	22.544,450	27.053,340
545	1,695	1.128,325		-	-	-
		-	10,000	34,350	22.578,800	27.094,560
546	1,740	1.130,065		-	-	-
		-	10,000	27,710	22.606,510	27.127,812
547	1,031	1.131,096		-	-	-
		-	10,000	26,970	22.633,480	27.160,176
548	1,666	1.132,762		-	-	-
		-	10,000	26,910	22.660,390	27.192,468
549	1,025	1.133,787		-	-	-
		-	10,000	21,640	22.682,030	27.218,436
550	1,139	1.134,926		-	-	-
		-	10,000	23,870	22.705,900	27.247,080
551	1,248	1.136,174		-	-	-
		-	10,000	36,420	22.742,320	27.290,784
552	2,394	1.138,568		-	-	-
		-	10,000	34,460	22.776,780	27.332,136
553	1,052	1.139,620		-	-	-
		-	10,000	22,710	22.799,490	27.359,388
554	1,219	1.140,839		-	-	-
		-	10,000	26,470	22.825,960	27.391,152
555	1,428	1.142,267		-	-	-
		-	10,000	27,660	22.853,620	27.424,344
556	1,338	1.143,605		-	-	-
		-	10,000	28,980	22.882,600	27.459,120
557	1,560	1.145,165		-	-	-
		-	10,000	29,020	22.911,620	27.493,944
558	1,342	1.146,507		-	-	-
		-	10,000	18,890	22.930,510	27.516,612
559	0,547	1.147,054		-	-	-

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	9,230	22.939,740	27.527,688
560	0,376	1.147,430		-	-	-
		-	10,000	8,810	22.948,550	27.538,260
561	0,505	1.147,935		-	-	-
		-	10,000	11,300	22.959,850	27.551,820
562	0,625	1.148,560		-	-	-
		-	10,000	12,500	22.972,350	27.566,820
563	0,625	1.149,185		-	-	-
		-	10,000	12,450	22.984,800	27.581,760
564	0,620	1.149,805		-	-	-
		-	10,000	12,350	22.997,150	27.596,580
565	0,615	1.150,420		-	-	-
		-	10,000	12,140	23.009,290	27.611,148
566	0,599	1.151,019		-	-	-
		-	10,000	11,770	23.021,060	27.625,272
567	0,578	1.151,597		-	-	-
		-	10,000	11,350	23.032,410	27.638,892
568	0,557	1.152,154		-	-	-
		-	10,000	10,830	23.043,240	27.651,888
569	0,526	1.152,680		-	-	-
		-	10,000	10,520	23.053,760	27.664,512
570	0,526	1.153,206		-	-	-
		-	10,000	10,420	23.064,180	27.677,016
571	0,516	1.153,722		-	-	-
		-	10,000	10,210	23.074,390	27.689,268
572	0,505	1.154,227		-	-	-
		-	10,000	9,890	23.084,280	27.701,136
573	0,484	1.154,711		-	-	-
		-	10,000	9,580	23.093,860	27.712,632
574	0,474	1.155,185		-	-	-
		-	10,000	9,580	23.103,440	27.724,128
575	0,484	1.155,669		-	-	-
		-	10,000	15,410	23.118,850	27.742,620
576	1,057	1.156,726		-	-	-
		-	10,000	39,540	23.158,390	27.790,068
577	2,897	1.159,623		-	-	-
		-	10,000	43,050	23.201,440	27.841,728
578	1,408	1.161,031		-	-	-
		-	10,000	33,980	23.235,420	27.882,504
579	1,990	1.163,021		-	-	-
		-	10,000	30,640	23.266,060	27.919,272
580	1,074	1.164,095		-	-	-
		-	10,000	24,680	23.290,740	27.948,888
581	1,394	1.165,489		-	-	-
		-	10,000	27,630	23.318,370	27.982,044

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Prefeitura Municipal de Caracaraí

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00	Empolamento:	20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
582	1,369	1.166,858		-	-	-
		-	10,000	33,310	23.351,680	28.022,016
583	1,962	1.168,820		-	-	-
		-	10,000	27,940	23.379,620	28.055,544
584	0,832	1.169,652		-	-	-
		-	10,000	14,840	23.394,460	28.073,352
585	0,652	1.170,304		-	-	-
		-	10,000	11,470	23.405,930	28.087,116
586	0,495	1.170,799		-	-	-
		-	10,000	8,550	23.414,480	28.097,376
587	0,360	1.171,159		-	-	-
		-	10,000	7,100	23.421,580	28.105,896
588	0,350	1.171,509		-	-	-
		-	10,000	7,100	23.428,680	28.114,416
589	0,360	1.171,869		-	-	-
		-	10,000	7,510	23.436,190	28.123,428
590	0,391	1.172,260		-	-	-
		-	10,000	8,340	23.444,530	28.133,436
591	0,443	1.172,703		-	-	-
		-	10,000	9,530	23.454,060	28.144,872
592	0,510	1.173,213		-	-	-
		-	10,000	9,740	23.463,800	28.156,560
593	0,464	1.173,677		-	-	-
		-	10,000	9,070	23.472,870	28.167,444
594	0,443	1.174,120		-	-	-
		-	10,000	8,810	23.481,680	28.178,016
595	0,438	1.174,558		-	-	-
		-	10,000	8,910	23.490,590	28.188,708
596	0,453	1.175,011		-	-	-
		-	10,000	9,370	23.499,960	28.199,952
597	0,484	1.175,495		-	-	-
		-	10,000	10,260	23.510,220	28.212,264
598	0,542	1.176,037		-	-	-
		-	10,000	10,520	23.520,740	28.224,888
599	0,510	1.176,547		-	-	-
		-	10,000	10,150	23.530,890	28.237,068
600	0,505	1.177,052		-	-	-
		-	10,000	10,210	23.541,100	28.249,320
601	0,516	1.177,568		-	-	-
		-	10,000	15,250	23.556,350	28.267,620
602	1,009	1.178,577		-	-	-
		-	10,000	35,570	23.591,920	28.310,304
603	2,548	1.181,125		-	-	-
		-	10,000	39,790	23.631,710	28.358,052
604	1,431	1.182,556		-	-	-

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de 200 a 400		P= 6,00		Empolamento: 20,00%		
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	29,750	23.661,460	28.393,752
605	1,544	1.184,100		-	-	-
		-	10,000	27,170	23.688,630	28.426,356
606	1,173	1.185,273		-	-	-
		-	10,000	24,570	23.713,200	28.455,840
607	1,284	1.186,557		-	-	-
		-	10,000	27,580	23.740,780	28.488,936
608	1,474	1.188,031		-	-	-
		-	10,000	32,650	23.773,430	28.528,116
609	1,791	1.189,822		-	-	-
		-	10,000	34,510	23.807,940	28.569,528
610	1,660	1.191,482		-	-	-
		-	10,000	35,970	23.843,910	28.612,692
611	1,937	1.193,419		-	-	-
		-	10,000	36,700	23.880,610	28.656,732
612	1,733	1.195,152		-	-	-
		-	10,000	33,600	23.914,210	28.697,052
613	1,627	1.196,779		-	-	-
		-	10,000	32,150	23.946,360	28.735,632
614	1,588	1.198,367		-	-	-
		-	10,000	26,080	23.972,440	28.766,928
615	1,020	1.199,387		-	-	-
		-	10,000	29,030	24.001,470	28.801,764
616	1,883	1.201,270		-	-	-
		-	10,000	54,170	24.055,640	28.866,768
617	3,534	1.204,804		-	-	-
		-	10,000	71,060	24.126,700	28.952,040
618	3,572	1.208,376		-	-	-
		-	10,000	55,680	24.182,380	29.018,856
619	1,996	1.210,372		-	-	-
		-	10,000	39,180	24.221,560	29.065,872
620	1,922	1.212,294		-	-	-
		-	10,000	36,650	24.258,210	29.109,852
621	1,743	1.214,037		-	-	-
		-	10,000	43,810	24.302,020	29.162,424
622	2,638	1.216,675		-	-	-
		-	10,000	36,740	24.338,760	29.206,512
623	1,036	1.217,711		-	-	-
		-	10,000	16,300	24.355,060	29.226,072
624	0,594	1.218,305		-	-	-
		-	10,000	12,770	24.367,830	29.241,396
625	0,683	1.218,988		-	-	-
		-	10,000	14,670	24.382,500	29.259,000
626	0,784	1.219,772		-	-	-
		-	10,000	16,850	24.399,350	29.279,220

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TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de 200 a 400		P= 6,00		Empolamento: 20,00%		
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
627	0,901	1.220,673		-	-	-
		-	10,000	28,520	24.427,870	29.313,444
628	1,951	1.222,624		-	-	-
		-	10,000	31,830	24.459,700	29.351,640
629	1,232	1.223,856		-	-	-
		-	10,000	29,420	24.489,120	29.386,944
630	1,710	1.225,566		-	-	-
		-	10,000	29,770	24.518,890	29.422,668
631	1,267	1.226,833		-	-	-
		-	10,000	32,930	24.551,820	29.462,184
632	2,026	1.228,859		-	-	-
		-	10,000	30,400	24.582,220	29.498,664
633	1,014	1.229,873		-	-	-
		-	10,000	19,640	24.601,860	29.522,232
634	0,950	1.230,823		-	-	-
		-	10,000	18,460	24.620,320	29.544,384
635	0,896	1.231,719		-	-	-
		-	10,000	17,490	24.637,810	29.565,372
636	0,853	1.232,572		-	-	-
		-	10,000	16,790	24.654,600	29.585,520
637	0,826	1.233,398		-	-	-
		-	10,000	16,360	24.670,960	29.605,152
638	0,810	1.234,208		-	-	-
		-	10,000	16,150	24.687,110	29.624,532
639	0,805	1.235,013		-	-	-
		-	10,000	16,150	24.703,260	29.643,912
640	0,810	1.235,823		-	-	-
		-	10,000	15,990	24.719,250	29.663,100
641	0,789	1.236,612		-	-	-
		-	10,000	15,680	24.734,930	29.681,916
642	0,779	1.237,391		-	-	-
		-	10,000	15,630	24.750,560	29.700,672
643	0,784	1.238,175		-	-	-
		-	10,000	15,780	24.766,340	29.719,608
644	0,794	1.238,969		-	-	-
		-	10,000	16,150	24.782,490	29.738,988
645	0,821	1.239,790		-	-	-
		-	10,000	16,690	24.799,180	29.759,016
646	0,848	1.240,638		-	-	-
		-	10,000	17,060	24.816,240	29.779,488
647	0,858	1.241,496		-	-	-
		-	10,000	17,160	24.833,400	29.800,080
648	0,858	1.242,354		-	-	-
		-	10,000	17,000	24.850,400	29.820,480
649	0,842	1.243,196		-	-	-

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Prefeitura Municipal de Caracaraí

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	16,520	24.866,920	29.840,304
650	0,810	1.244,006		-	-	-
		-	10,000	15,780	24.882,700	29.859,240
651	0,768	1.244,774		-	-	-
		-	10,000	14,830	24.897,530	29.877,036
652	0,715	1.245,489		-	-	-
		-	10,000	13,610	24.911,140	29.893,368
653	0,646	1.246,135		-	-	-
		-	10,000	12,080	24.923,220	29.907,864
654	0,562	1.246,697		-	-	-
		-	10,000	10,310	24.933,530	29.920,236
655	0,469	1.247,166		-	-	-
		-	10,000	10,210	24.943,740	29.932,488
656	0,552	1.247,718		-	-	-
		-	10,000	11,670	24.955,410	29.946,492
657	0,615	1.248,333		-	-	-
		-	10,000	12,880	24.968,290	29.961,948
658	0,673	1.249,006		-	-	-
		-	10,000	13,830	24.982,120	29.978,544
659	0,710	1.249,716		-	-	-
		-	10,000	14,510	24.996,630	29.995,956
660	0,741	1.250,457		-	-	-
		-	10,000	14,930	25.011,560	30.013,872
661	0,752	1.251,209		-	-	-
		-	10,000	15,040	25.026,600	30.031,920
662	0,752	1.251,961		-	-	-
		-	10,000	14,930	25.041,530	30.049,836
663	0,741	1.252,702		-	-	-
		-	10,000	14,560	25.056,090	30.067,308
664	0,715	1.253,417		-	-	-
		-	10,000	13,930	25.070,020	30.084,024
665	0,678	1.254,095		-	-	-
		-	10,000	13,030	25.083,050	30.099,660
666	0,625	1.254,720		-	-	-
		-	10,000	11,820	25.094,870	30.113,844
667	0,557	1.255,277		-	-	-
		-	10,000	10,360	25.105,230	30.126,276
668	0,479	1.255,756		-	-	-
		-	10,000	10,520	25.115,750	30.138,900
669	0,573	1.256,329		-	-	-
		-	10,000	12,300	25.128,050	30.153,660
670	0,657	1.256,986		-	-	-
		-	10,000	13,880	25.141,930	30.170,316
671	0,731	1.257,717		-	-	-
		-	10,000	15,150	25.157,080	30.188,496

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Prefeitura Municipal de Caracaraí

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
672	0,784	1.258,501		-	-	-
		-	10,000	16,160	25.173,240	30.207,888
673	0,832	1.259,333		-	-	-
		-	10,000	16,900	25.190,140	30.228,168
674	0,858	1.260,191		-	-	-
		-	10,000	17,380	25.207,520	30.249,024
675	0,880	1.261,071		-	-	-
		-	10,000	17,600	25.225,120	30.270,144
676	0,880	1.261,951		-	-	-
		-	10,000	17,490	25.242,610	30.291,132
677	0,869	1.262,820		-	-	-
		-	10,000	17,170	25.259,780	30.311,736
678	0,848	1.263,668		-	-	-
		-	10,000	16,580	25.276,360	30.331,632
679	0,810	1.264,478		-	-	-
		-	10,000	15,670	25.292,030	30.350,436
680	0,757	1.265,235		-	-	-
		-	10,000	14,510	25.306,540	30.367,848
681	0,694	1.265,929		-	-	-
		-	10,000	13,140	25.319,680	30.383,616
682	0,620	1.266,549		-	-	-
		-	10,000	11,510	25.331,190	30.397,428
683	0,531	1.267,080		-	-	-
		-	10,000	11,140	25.342,330	30.410,796
684	0,583	1.267,663		-	-	-
		-	10,000	12,080	25.354,410	30.425,292
685	0,625	1.268,288		-	-	-
		-	10,000	12,770	25.367,180	30.440,616
686	0,652	1.268,940		-	-	-
		-	10,000	13,250	25.380,430	30.456,516
687	0,673	1.269,613		-	-	-
		-	10,000	13,560	25.393,990	30.472,788
688	0,683	1.270,296		-	-	-
		-	10,000	13,770	25.407,760	30.489,312
689	0,694	1.270,990		-	-	-
		-	10,000	13,930	25.421,690	30.506,028
690	0,699	1.271,689		-	-	-
		-	10,000	13,980	25.435,670	30.522,804
691	0,699	1.272,388		-	-	-
		-	10,000	13,980	25.449,650	30.539,580
692	0,699	1.273,087		-	-	-
		-	10,000	13,880	25.463,530	30.556,236
693	0,689	1.273,776		-	-	-
		-	10,000	13,670	25.477,200	30.572,640
694	0,678	1.274,454		-	-	-

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Prefeitura Municipal de Caracaraí

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de 200 a 400		P= 6,00		Empolamento: 20,00%		
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	13,400	25.490,600	30.588,720
695	0,662	1.275,116		-	-	-
		-	10,000	13,030	25.503,630	30.604,356
696	0,641	1.275,757		-	-	-
		-	10,000	12,560	25.516,190	30.619,428
697	0,615	1.276,372		-	-	-
		-	10,000	11,980	25.528,170	30.633,804
698	0,583	1.276,955		-	-	-
		-	10,000	11,350	25.539,520	30.647,424
699	0,552	1.277,507		-	-	-
		-	10,000	11,350	25.550,870	30.661,044
700	0,583	1.278,090		-	-	-
		-	10,000	11,980	25.562,850	30.675,420
701	0,615	1.278,705		-	-	-
		-	10,000	12,560	25.575,410	30.690,492
702	0,641	1.279,346		-	-	-
		-	10,000	13,030	25.588,440	30.706,128
703	0,662	1.280,008		-	-	-
		-	10,000	13,400	25.601,840	30.722,208
704	0,678	1.280,686		-	-	-
		-	10,000	13,720	25.615,560	30.738,672
705	0,694	1.281,380		-	-	-
		-	10,000	13,930	25.629,490	30.755,388
706	0,699	1.282,079		-	-	-
		-	10,000	14,030	25.643,520	30.772,224
707	0,704	1.282,783		-	-	-
		-	10,000	14,080	25.657,600	30.789,120
708	0,704	1.283,487		-	-	-
		-	10,000	14,030	25.671,630	30.805,956
709	0,699	1.284,186		-	-	-
		-	10,000	13,880	25.685,510	30.822,612
710	0,689	1.284,875		-	-	-
		-	10,000	13,620	25.699,130	30.838,956
711	0,673	1.285,548		-	-	-
		-	10,000	13,300	25.712,430	30.854,916
712	0,657	1.286,205		-	-	-
		-	10,000	12,880	25.725,310	30.870,372
713	0,631	1.286,836		-	-	-
		-	10,000	12,350	25.737,660	30.885,192
714	0,604	1.287,440		-	-	-
		-	10,000	11,770	25.749,430	30.899,316
715	0,573	1.288,013		-	-	-
		-	10,000	11,830	25.761,260	30.913,512
716	0,610	1.288,623		-	-	-
		-	10,000	12,510	25.773,770	30.928,524

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Prefeitura Municipal de Caracarái

TERRAPLENAGEM - MAPA DE CUBAÇÃO						
DMT de	200 a 400		P=	6,00		Empolamento: 20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
717	0,641	1.289,264		-	-	-
		-	10,000	13,140	25.786,910	30.944,292
718	0,673	1.289,937		-	-	-
		-	10,000	13,670	25.800,580	30.960,696
719	0,694	1.290,631		-	-	-
		-	10,000	14,090	25.814,670	30.977,604
720	0,715	1.291,346		-	-	-
		-	10,000	14,460	25.829,130	30.994,956
721	0,731	1.292,077		-	-	-
		-	10,000	14,720	25.843,850	31.012,620
722	0,741	1.292,818		-	-	-
		-	10,000	14,880	25.858,730	31.030,476
723	0,747	1.293,565		-	-	-
		-	10,000	14,940	25.873,670	31.048,404
724	0,747	1.294,312		-	-	-
		-	10,000	14,940	25.888,610	31.066,332
725	0,747	1.295,059		-	-	-
		-	10,000	14,830	25.903,440	31.084,128
726	0,736	1.295,795		-	-	-
		-	10,000	14,620	25.918,060	31.101,672
727	0,726	1.296,521		-	-	-
		-	10,000	14,360	25.932,420	31.118,904
728	0,710	1.297,231		-	-	-
		-	10,000	13,990	25.946,410	31.135,692
729	0,689	1.297,920		-	-	-
		-	10,000	13,560	25.959,970	31.151,964
730	0,667	1.298,587		-	-	-
		-	10,000	13,030	25.973,000	31.167,600
731	0,636	1.299,223		-	-	-
		-	10,000	12,460	25.985,460	31.182,552
732	0,610	1.299,833		-	-	-
		-	10,000	12,040	25.997,500	31.197,000
733	0,594	1.300,427		-	-	-
		-	10,000	10,990	26.008,490	31.210,188
734	0,505	1.300,932		-	-	-
		-	10,000	9,320	26.017,810	31.221,372
735	0,427	1.301,359		-	-	-
		-	10,000	7,820	26.025,630	31.230,756
736	0,355	1.301,714		-	-	-
		-	10,000	6,540	26.032,170	31.238,604
737	0,299	1.302,013		-	-	-
		-	10,000	5,520	26.037,690	31.245,228
738	0,253	1.302,266		-	-	-
		-	10,000	4,700	26.042,390	31.250,868
739	0,217	1.302,483		-	-	-

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DMT de	200 a 400		P=	6,00	Empolamento:	20,00%
Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	4,030	26.046,420	31.255,704
740	0,186	1.302,669				-

ÁREA DEGRADADA A SER RECUPERADA					
Volume Explorado (m³)	Camada Explorada (m)	Volume de Regularização (m³)			
		Larg. (m)	Comp. (m)	Altura (m)	Volume (m³)
29.953,38	1,00	173,07	173,07	0,20	5.990,00


Marcelo Baraúna Bento
Engenheiro Civil
Crea nº 910.295 - RR
Fiscalização PMC