



Prefeitura Municipal de Caracarái

Rodovia: Vicinal 01 CAI-118 (Serra Dourada)
Trecho: Entronc. Vicinal 01 CAI-118 (Km 0,00) x Rio Anauá (Km 23,00)
Serviço: Recuperação, Terraplenagem e Construção de P.E.C.
Extensão: 23,00 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				
			10,000	8,240	8,240	9,888
1	0,314	0,824				-
		-	10,000	5,460	13,700	16,440
2	0,232	1,056		-	-	-
		-	10,000	5,100	18,800	22,560
3	0,278	1,334		-	-	-
		-	10,000	6,430	25,230	30,276
4	0,365	1,699		-	-	-
		-	10,000	7,870	33,100	39,720
5	0,422	2,121		-	-	-
		-	10,000	8,700	41,800	50,160
6	0,448	2,569		-	-	-
		-	10,000	9,060	50,860	61,032
7	0,458	3,027		-	-	-
		-	10,000	8,850	59,710	71,652
8	0,427	3,454		-	-	-
		-	10,000	8,180	67,890	81,468
9	0,391	3,845		-	-	-
		-	10,000	7,510	75,400	90,480
10	0,360	4,205		-	-	-
		-	10,000	7,000	82,400	98,880
11	0,340	4,545		-	-	-
		-	10,000	6,690	89,090	106,908
12	0,329	4,874		-	-	-
		-	10,000	6,530	95,620	114,744
13	0,324	5,198		-	-	-
		-	10,000	6,480	102,100	122,520
14	0,324	5,522		-	-	-
		-	10,000	6,430	108,530	130,236
15	0,319	5,841		-	-	-
		-	10,000	6,330	114,860	137,832
16	0,314	6,155		-	-	-
		-	10,000	6,280	121,140	145,368
17	0,314	6,469		-	-	-
		-	10,000	5,160	126,300	151,560
18	0,202	6,671		-	-	-
		-	10,000	4,240	130,540	156,648
19	0,222	6,893		-	-	-

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

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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	5,920	136,460	163,752
20	0,370	7,263		-	-	-
		-	10,000	6,740	143,200	171,840
21	0,304	7,567		-	-	-
		-	10,000	6,950	150,150	180,180
22	0,391	7,958		-	-	-
		-	10,000	10,320	160,470	192,564
23	0,641	8,599		-	-	-
		-	10,000	13,350	173,820	208,584
24	0,694	9,293		-	-	-
		-	10,000	12,300	186,120	223,344
25	0,536	9,829		-	-	-
		-	10,000	8,910	195,030	234,036
26	0,355	10,184		-	-	-
		-	10,000	6,950	201,980	242,376
27	0,340	10,524		-	-	-
		-	10,000	7,160	209,140	250,968
28	0,376	10,900		-	-	-
		-	10,000	7,460	216,600	259,920
29	0,370	11,270		-	-	-
		-	10,000	6,840	223,440	268,128
30	0,314	11,584		-	-	-
		-	10,000	5,260	228,700	274,440
31	0,212	11,796		-	-	-
		-	10,000	3,630	232,330	278,796
32	0,151	11,947		-	-	-
		-	10,000	3,680	236,010	283,212
33	0,217	12,164		-	-	-
		-	10,000	5,410	241,420	289,704
34	0,324	12,488		-	-	-
		-	10,000	7,050	248,470	298,164
35	0,381	12,869		-	-	-
		-	10,000	7,770	256,240	307,488
36	0,396	13,265		-	-	-
		-	10,000	8,030	264,270	317,124
37	0,407	13,672		-	-	-
		-	10,000	8,650	272,920	327,504
38	0,458	14,130		-	-	-
		-	10,000	8,030	280,950	337,140
39	0,345	14,475		-	-	-
		-	10,000	6,180	287,130	344,556
40	0,273	14,748		-	-	-
		-	10,000	5,150	292,280	350,736
41	0,242	14,990		-	-	-
		-	10,000	4,950	297,230	356,676

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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)
42	0,253	15,243		-	-	-
		-	10,000	5,570	302,800	363,360
43	0,304	15,547		-	-	-
		-	10,000	7,000	309,800	371,760
44	0,396	15,943		-	-	-
		-	10,000	6,890	316,690	380,028
45	0,293	16,236		-	-	-
		-	10,000	5,250	321,940	386,328
46	0,232	16,468		-	-	-
		-	10,000	4,440	326,380	391,656
47	0,212	16,680		-	-	-
		-	10,000	4,440	330,820	396,984
48	0,232	16,912		-	-	-
		-	10,000	5,250	336,070	403,284
49	0,293	17,205		-	-	-
		-	10,000	5,860	341,930	410,316
50	0,293	17,498		-	-	-
		-	10,000	5,810	347,740	417,288
51	0,288	17,786		-	-	-
		-	10,000	5,660	353,400	424,080
52	0,278	18,064		-	-	-
		-	10,000	5,460	358,860	430,632
53	0,268	18,332		-	-	-
		-	10,000	5,210	364,070	436,884
54	0,253	18,585		-	-	-
		-	10,000	4,900	368,970	442,764
55	0,237	18,822		-	-	-
		-	10,000	4,840	373,810	448,572
56	0,247	19,069		-	-	-
		-	10,000	5,050	378,860	454,632
57	0,258	19,327		-	-	-
		-	10,000	5,210	384,070	460,884
58	0,263	19,590		-	-	-
		-	10,000	5,260	389,330	467,196
59	0,263	19,853		-	-	-
		-	10,000	5,160	394,490	473,388
60	0,253	20,106		-	-	-
		-	10,000	4,750	399,240	479,088
61	0,222	20,328		-	-	-
		-	10,000	4,800	404,040	484,848
62	0,258	20,586		-	-	-
		-	10,000	5,310	409,350	491,220
63	0,273	20,859		-	-	-
		-	10,000	5,360	414,710	497,652
64	0,263	21,122		-	-	-

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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	5,050	419,760	503,712
65	0,242	21,364		-	-	-
		-	10,000	4,390	424,150	508,980
66	0,197	21,561		-	-	-
		-	10,000	3,280	427,430	512,916
67	0,131	21,692		-	-	-
		-	10,000	3,630	431,060	517,272
68	0,232	21,924		-	-	-
		-	10,000	5,460	436,520	523,824
69	0,314	22,238		-	-	-
		-	10,000	6,740	443,260	531,912
70	0,360	22,598		-	-	-
		-	10,000	7,200	450,460	540,552
71	0,360	22,958		-	-	-
		-	10,000	6,690	457,150	548,580
72	0,309	23,267		-	-	-
		-	10,000	5,210	462,360	554,832
73	0,212	23,479		-	-	-
		-	10,000	5,110	467,470	560,964
74	0,299	23,778		-	-	-
		-	10,000	6,330	473,800	568,560
75	0,334	24,112		-	-	-
		-	10,000	6,580	480,380	576,456
76	0,324	24,436		-	-	-
		-	10,000	5,870	486,250	583,500
77	0,263	24,699		-	-	-
		-	10,000	4,190	490,440	588,528
78	0,156	24,855		-	-	-
		-	10,000	3,120	493,560	592,272
79	0,156	25,011		-	-	-
		-	10,000	3,370	496,930	596,316
80	0,181	25,192		-	-	-
		-	10,000	3,020	499,950	599,940
81	0,121	25,313		-	-	-
		-	10,000	3,120	503,070	603,684
82	0,191	25,504		-	-	-
		-	10,000	3,930	507,000	608,400
83	0,202	25,706		-	-	-
		-	10,000	4,140	511,140	613,368
84	0,212	25,918		-	-	-
		-	10,000	4,340	515,480	618,576
85	0,222	26,140		-	-	-
		-	10,000	4,540	520,020	624,024
86	0,232	26,372		-	-	-
		-	10,000	4,740	524,760	629,712

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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)
87	0,242	26,614		-	-	-
		-	10,000	4,950	529,710	635,652
88	0,253	26,867		-	-	-
		-	10,000	5,770	535,480	642,576
89	0,324	27,191		-	-	-
		-	10,000	6,790	542,270	650,724
90	0,355	27,546		-	-	-
		-	10,000	6,480	548,750	658,500
91	0,293	27,839		-	-	-
		-	10,000	6,890	555,640	666,768
92	0,396	28,235		-	-	-
		-	10,000	8,080	563,720	676,464
93	0,412	28,647		-	-	-
		-	10,000	7,520	571,240	685,488
94	0,340	28,987		-	-	-
		-	10,000	7,410	578,650	694,380
95	0,401	29,388		-	-	-
		-	10,000	7,710	586,360	703,632
96	0,370	29,758		-	-	-
		-	10,000	6,690	593,050	711,660
97	0,299	30,057		-	-	-
		-	10,000	5,260	598,310	717,972
98	0,227	30,284		-	-	-
		-	10,000	3,830	602,140	722,568
99	0,156	30,440		-	-	-
		-	10,000	3,420	605,560	726,672
100	0,186	30,626		-	-	-
		-	10,000	4,030	609,590	731,508
101	0,217	30,843		-	-	-
		-	10,000	4,640	614,230	737,076
102	0,247	31,090		-	-	-
		-	10,000	5,250	619,480	743,376
103	0,278	31,368		-	-	-
		-	10,000	5,870	625,350	750,420
104	0,309	31,677		-	-	-
		-	10,000	5,060	630,410	756,492
105	0,197	31,874		-	-	-
		-	10,000	3,480	633,890	760,668
106	0,151	32,025		-	-	-
		-	10,000	3,220	637,110	764,532
107	0,171	32,196		-	-	-
		-	10,000	4,240	641,350	769,620
108	0,253	32,449		-	-	-
		-	10,000	6,490	647,840	777,408
109	0,396	32,845		-	-	-

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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	7,460	655,300	786,360
110	0,350	33,195		-	-	-
		-	10,000	7,200	662,500	795,000
111	0,370	33,565		-	-	-
		-	10,000	7,970	670,470	804,564
112	0,427	33,992		-	-	-
		-	10,000	9,270	679,740	815,688
113	0,500	34,492		-	-	-
		-	10,000	9,840	689,580	827,496
114	0,484	34,976		-	-	-
		-	10,000	9,680	699,260	839,112
115	0,484	35,460		-	-	-
		-	10,000	9,790	709,050	850,860
116	0,495	35,955		-	-	-
		-	10,000	10,160	719,210	863,052
117	0,521	36,476		-	-	-
		-	10,000	10,730	729,940	875,928
118	0,552	37,028		-	-	-
		-	10,000	11,510	741,450	889,740
119	0,599	37,627		-	-	-
		-	10,000	12,300	753,750	904,500
120	0,631	38,258		-	-	-
		-	10,000	12,560	766,310	919,572
121	0,625	38,883		-	-	-
		-	10,000	12,030	778,340	934,008
122	0,578	39,461		-	-	-
		-	10,000	10,730	789,070	946,884
123	0,495	39,956		-	-	-
		-	10,000	10,520	799,590	959,508
124	0,557	40,513		-	-	-
		-	10,000	11,400	810,990	973,188
125	0,583	41,096		-	-	-
		-	10,000	11,510	822,500	987,000
126	0,568	41,664		-	-	-
		-	10,000	10,840	833,340	1.000,008
127	0,516	42,180		-	-	-
		-	10,000	10,840	844,180	1.013,016
128	0,568	42,748		-	-	-
		-	10,000	11,510	855,690	1.026,828
129	0,583	43,331		-	-	-
		-	10,000	11,400	867,090	1.040,508
130	0,557	43,888		-	-	-
		-	10,000	10,520	877,610	1.053,132
131	0,495	44,383		-	-	-
		-	10,000	10,630	888,240	1.065,888

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
132	0,568	44,951		-	-	-
		-	10,000	11,720	899,960	1.079,952
133	0,604	45,555		-	-	-
		-	10,000	12,030	911,990	1.094,388
134	0,599	46,154		-	-	-
		-	10,000	11,560	923,550	1.108,260
135	0,557	46,711		-	-	-
		-	10,000	10,730	934,280	1.121,136
136	0,516	47,227		-	-	-
		-	10,000	9,900	944,180	1.133,016
137	0,474	47,701		-	-	-
		-	10,000	9,430	953,610	1.144,332
138	0,469	48,170		-	-	-
		-	10,000	9,740	963,350	1.156,020
139	0,505	48,675		-	-	-
		-	10,000	9,950	973,300	1.167,960
140	0,490	49,165		-	-	-
		-	10,000	10,060	983,360	1.180,032
141	0,516	49,681		-	-	-
		-	10,000	10,110	993,470	1.192,164
142	0,495	50,176		-	-	-
		-	10,000	10,110	1.003,580	1.204,296
143	0,516	50,692		-	-	-
		-	10,000	9,900	1.013,480	1.216,176
144	0,474	51,166		-	-	-
		-	10,000	9,480	1.022,960	1.227,552
145	0,474	51,640		-	-	-
		-	10,000	9,900	1.032,860	1.239,432
146	0,516	52,156		-	-	-
		-	10,000	9,640	1.042,500	1.251,000
147	0,448	52,604		-	-	-
		-	10,000	8,700	1.051,200	1.261,440
148	0,422	53,026		-	-	-
		-	10,000	8,600	1.059,800	1.271,760
149	0,438	53,464		-	-	-
		-	10,000	9,330	1.069,130	1.282,956
150	0,495	53,959		-	-	-
		-	10,000	9,690	1.078,820	1.294,584
151	0,474	54,433		-	-	-
		-	10,000	9,690	1.088,510	1.306,212
152	0,495	54,928		-	-	-
		-	10,000	10,000	1.098,510	1.318,212
153	0,505	55,433		-	-	-
		-	10,000	10,670	1.109,180	1.331,016
154	0,562	55,995		-	-	-

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	11,240	1.120,420	1.344,504
155	0,562	56,557		-	-	-
		-	10,000	10,620	1.131,040	1.357,248
156	0,500	57,057		-	-	-
		-	10,000	10,890	1.141,930	1.370,316
157	0,589	57,646		-	-	-
		-	10,000	12,040	1.153,970	1.384,764
158	0,615	58,261		-	-	-
		-	10,000	11,980	1.165,950	1.399,140
159	0,583	58,844		-	-	-
		-	10,000	10,780	1.176,730	1.412,076
160	0,495	59,339		-	-	-
		-	10,000	10,570	1.187,300	1.424,760
161	0,562	59,901		-	-	-
		-	10,000	11,350	1.198,650	1.438,380
162	0,573	60,474		-	-	-
		-	10,000	10,940	1.209,590	1.451,508
163	0,521	60,995		-	-	-
		-	10,000	10,680	1.220,270	1.464,324
164	0,547	61,542		-	-	-
		-	10,000	10,630	1.230,900	1.477,080
165	0,516	62,058		-	-	-
		-	10,000	14,170	1.245,070	1.494,084
166	0,901	62,959		-	-	-
		-	10,000	31,650	1.276,720	1.532,064
167	2,264	65,223		-	-	-
		-	10,000	71,310	1.348,030	1.617,636
168	4,867	70,090		-	-	-
		-	10,000	123,440	1.471,470	1.765,764
169	7,477	77,567		-	-	-
		-	10,000	157,500	1.628,970	1.954,764
170	8,273	85,840		-	-	-
		-	10,000	153,640	1.782,610	2.139,132
171	7,091	92,931		-	-	-
		-	10,000	112,710	1.895,320	2.274,384
172	4,180	97,111		-	-	-
		-	10,000	57,900	1.953,220	2.343,864
173	1,610	98,721		-	-	-
		-	10,000	22,930	1.976,150	2.371,380
174	0,683	99,404		-	-	-
		-	10,000	11,670	1.987,820	2.385,384
175	0,484	99,888		-	-	-
		-	10,000	10,260	1.998,080	2.397,696
176	0,542	100,430		-	-	-
		-	10,000	11,040	2.009,120	2.410,944

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)
177	0,562	100,992		-	-	-
		-	10,000	11,140	2.020,260	2.424,312
178	0,552	101,544		-	-	-
		-	10,000	10,620	2.030,880	2.437,056
179	0,510	102,054		-	-	-
		-	10,000	10,880	2.041,760	2.450,112
180	0,578	102,632		-	-	-
		-	10,000	11,880	2.053,640	2.464,368
181	0,610	103,242		-	-	-
		-	10,000	12,200	2.065,840	2.479,008
182	0,610	103,852		-	-	-
		-	10,000	11,880	2.077,720	2.493,264
183	0,578	104,430		-	-	-
		-	10,000	10,940	2.088,660	2.506,392
184	0,516	104,946		-	-	-
		-	10,000	10,780	2.099,440	2.519,328
185	0,562	105,508		-	-	-
		-	10,000	11,350	2.110,790	2.532,948
186	0,573	106,081		-	-	-
		-	10,000	11,250	2.122,040	2.546,448
187	0,552	106,633		-	-	-
		-	10,000	10,520	2.132,560	2.559,072
188	0,500	107,133		-	-	-
		-	10,000	9,530	2.142,090	2.570,508
189	0,453	107,586		-	-	-
		-	10,000	8,650	2.150,740	2.580,888
190	0,412	107,998		-	-	-
		-	10,000	8,190	2.158,930	2.590,716
191	0,407	108,405		-	-	-
		-	10,000	8,450	2.167,380	2.600,856
192	0,438	108,843		-	-	-
		-	10,000	9,480	2.176,860	2.612,232
193	0,510	109,353		-	-	-
		-	10,000	9,840	2.186,700	2.624,040
194	0,474	109,827		-	-	-
		-	10,000	9,480	2.196,180	2.635,416
195	0,474	110,301		-	-	-
		-	10,000	9,900	2.206,080	2.647,296
196	0,516	110,817		-	-	-
		-	10,000	9,740	2.215,820	2.658,984
197	0,458	111,275		-	-	-
		-	10,000	8,960	2.224,780	2.669,736
198	0,438	111,713		-	-	-
		-	10,000	8,960	2.233,740	2.680,488
199	0,458	112,171		-	-	-

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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	2.243,480	2.692,176
200	0,516	112,687		-	-	-
		-	10,000	9,590	2.253,070	2.703,684
201	0,443	113,130		-	-	-
		-	10,000	8,600	2.261,670	2.714,004
202	0,417	113,547		-	-	-
		-	10,000	8,550	2.270,220	2.724,264
203	0,438	113,985		-	-	-
		-	10,000	9,430	2.279,650	2.735,580
204	0,505	114,490		-	-	-
		-	10,000	9,220	2.288,870	2.746,644
205	0,417	114,907		-	-	-
		-	10,000	7,980	2.296,850	2.756,220
206	0,381	115,288		-	-	-
		-	10,000	7,720	2.304,570	2.765,484
207	0,391	115,679		-	-	-
		-	10,000	8,390	2.312,960	2.775,552
208	0,448	116,127		-	-	-
		-	10,000	9,480	2.322,440	2.786,928
209	0,500	116,627		-	-	-
		-	10,000	10,990	2.333,430	2.800,116
210	0,599	117,226		-	-	-
		-	10,000	12,400	2.345,830	2.814,996
211	0,641	117,867		-	-	-
		-	10,000	12,560	2.358,390	2.830,068
212	0,615	118,482		-	-	-
		-	10,000	11,410	2.369,800	2.843,760
213	0,526	119,008		-	-	-
		-	10,000	11,040	2.380,840	2.857,008
214	0,578	119,586		-	-	-
		-	10,000	11,460	2.392,300	2.870,760
215	0,568	120,154		-	-	-
		-	10,000	10,630	2.402,930	2.883,516
216	0,495	120,649		-	-	-
		-	10,000	10,630	2.413,560	2.896,272
217	0,568	121,217		-	-	-
		-	10,000	11,460	2.425,020	2.910,024
218	0,578	121,795		-	-	-
		-	10,000	10,990	2.436,010	2.923,212
219	0,521	122,316		-	-	-
		-	10,000	10,680	2.446,690	2.936,028
220	0,547	122,863		-	-	-
		-	10,000	10,520	2.457,210	2.948,652
221	0,505	123,368		-	-	-
		-	10,000	10,260	2.467,470	2.960,964

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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)
222	0,521	123,889		-	-	-
		-	10,000	9,900	2.477,370	2.972,844
223	0,469	124,358		-	-	-
		-	10,000	8,700	2.486,070	2.983,284
224	0,401	124,759		-	-	-
		-	10,000	7,770	2.493,840	2.992,608
225	0,376	125,135		-	-	-
		-	10,000	7,520	2.501,360	3.001,632
226	0,376	125,511		-	-	-
		-	10,000	7,930	2.509,290	3.011,148
227	0,417	125,928		-	-	-
		-	10,000	9,120	2.518,410	3.022,092
228	0,495	126,423		-	-	-
		-	10,000	9,850	2.528,260	3.033,912
229	0,490	126,913		-	-	-
		-	10,000	10,110	2.538,370	3.046,044
230	0,521	127,434		-	-	-
		-	10,000	15,350	2.553,720	3.064,464
231	1,014	128,448		-	-	-
		-	10,000	34,960	2.588,680	3.106,416
232	2,482	130,930		-	-	-
		-	10,000	76,800	2.665,480	3.198,576
233	5,198	136,128		-	-	-
		-	10,000	130,210	2.795,690	3.354,828
234	7,823	143,951		-	-	-
		-	10,000	161,880	2.957,570	3.549,084
235	8,365	152,316		-	-	-
		-	10,000	150,910	3.108,480	3.730,176
236	6,726	159,042		-	-	-
		-	10,000	99,980	3.208,460	3.850,152
237	3,272	162,314		-	-	-
		-	10,000	43,780	3.252,240	3.902,688
238	1,106	163,420		-	-	-
		-	10,000	17,790	3.270,030	3.924,036
239	0,673	164,093		-	-	-
		-	10,000	12,720	3.282,750	3.939,300
240	0,599	164,692		-	-	-
		-	10,000	11,410	3.294,160	3.952,992
241	0,542	165,234		-	-	-
		-	10,000	10,470	3.304,630	3.965,556
242	0,505	165,739		-	-	-
		-	10,000	9,950	3.314,580	3.977,496
243	0,490	166,229		-	-	-
		-	10,000	9,800	3.324,380	3.989,256
244	0,490	166,719		-	-	-

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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	9,950	3.334,330	4.001,196
245	0,505	167,224		-	-	-
		-	10,000	9,740	3.344,070	4.012,884
246	0,469	167,693		-	-	-
		-	10,000	9,220	3.353,290	4.023,948
247	0,453	168,146		-	-	-
		-	10,000	9,060	3.362,350	4.034,820
248	0,453	168,599		-	-	-
		-	10,000	9,220	3.371,570	4.045,884
249	0,469	169,068		-	-	-
		-	10,000	9,740	3.381,310	4.057,572
250	0,505	169,573		-	-	-
		-	10,000	10,620	3.391,930	4.070,316
251	0,557	170,130		-	-	-
		-	10,000	11,510	3.403,440	4.084,128
252	0,594	170,724		-	-	-
		-	10,000	11,770	3.415,210	4.098,252
253	0,583	171,307		-	-	-
		-	10,000	11,040	3.426,250	4.111,500
254	0,521	171,828		-	-	-
		-	10,000	10,570	3.436,820	4.124,184
255	0,536	172,364		-	-	-
		-	10,000	10,410	3.447,230	4.136,676
256	0,505	172,869		-	-	-
		-	10,000	20,810	3.468,040	4.161,648
257	1,576	174,445		-	-	-
		-	10,000	69,930	3.537,970	4.245,564
258	5,417	179,862		-	-	-
		-	10,000	154,070	3.692,040	4.430,448
259	9,990	189,852		-	-	-
		-	10,000	214,520	3.906,560	4.687,872
260	11,462	201,314		-	-	-
		-	10,000	208,560	4.115,120	4.938,144
261	9,394	210,708		-	-	-
		-	10,000	138,160	4.253,280	5.103,936
262	4,422	215,130		-	-	-
		-	10,000	56,370	4.309,650	5.171,580
263	1,215	216,345		-	-	-
		-	10,000	18,090	4.327,740	5.193,288
264	0,594	216,939		-	-	-
		-	10,000	10,940	4.338,680	5.206,416
265	0,500	217,439		-	-	-
		-	10,000	11,410	4.350,090	5.220,108
266	0,641	218,080		-	-	-
		-	10,000	12,400	4.362,490	5.234,988

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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)
267	0,599	218,679		-	-	-
		-	10,000	11,040	4.373,530	5.248,236
268	0,505	219,184		-	-	-
		-	10,000	8,700	4.382,230	5.258,676
269	0,365	219,549		-	-	-
		-	10,000	6,230	4.388,460	5.266,152
270	0,258	219,807		-	-	-
		-	10,000	5,310	4.393,770	5.272,524
271	0,273	220,080		-	-	-
		-	10,000	6,740	4.400,510	5.280,612
272	0,401	220,481		-	-	-
		-	10,000	7,150	4.407,660	5.289,192
273	0,314	220,795		-	-	-
		-	10,000	6,330	4.413,990	5.296,788
274	0,319	221,114		-	-	-
		-	10,000	7,200	4.421,190	5.305,428
275	0,401	221,515		-	-	-
		-	10,000	6,740	4.427,930	5.313,516
276	0,273	221,788		-	-	-
		-	10,000	5,000	4.432,930	5.319,516
277	0,227	222,015		-	-	-
		-	10,000	4,740	4.437,670	5.325,204
278	0,247	222,262		-	-	-
		-	10,000	5,920	4.443,590	5.332,308
279	0,345	222,607		-	-	-
		-	10,000	7,670	4.451,260	5.341,512
280	0,422	223,029		-	-	-
		-	10,000	8,030	4.459,290	5.351,148
281	0,381	223,410		-	-	-
		-	10,000	6,950	4.466,240	5.359,488
282	0,314	223,724		-	-	-
		-	10,000	6,130	4.472,370	5.366,844
283	0,299	224,023		-	-	-
		-	10,000	6,280	4.478,650	5.374,380
284	0,329	224,352		-	-	-
		-	10,000	7,510	4.486,160	5.383,392
285	0,422	224,774		-	-	-
		-	10,000	9,010	4.495,170	5.394,204
286	0,479	225,253		-	-	-
		-	10,000	9,840	4.505,010	5.406,012
287	0,505	225,758		-	-	-
		-	10,000	8,500	4.513,510	5.416,212
288	0,345	226,103		-	-	-
		-	10,000	5,870	4.519,380	5.423,256
289	0,242	226,345		-	-	-

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	4,330	4.523,710	5.428,452
290	0,191	226,536		-	-	-
		-	10,000	3,820	4.527,530	5.433,036
291	0,191	226,727		-	-	-
		-	10,000	4,330	4.531,860	5.438,232
292	0,242	226,969		-	-	-
		-	10,000	5,870	4.537,730	5.445,276
293	0,345	227,314		-	-	-
		-	10,000	8,090	4.545,820	5.454,984
294	0,464	227,778		-	-	-
		-	10,000	11,000	4.556,820	5.468,184
295	0,636	228,414		-	-	-
		-	10,000	14,620	4.571,440	5.485,728
296	0,826	229,240		-	-	-
		-	10,000	25,880	4.597,320	5.516,784
297	1,762	231,002		-	-	-
		-	10,000	62,500	4.659,820	5.591,784
298	4,488	235,490		-	-	-
		-	10,000	121,600	4.781,420	5.737,704
299	7,672	243,162		-	-	-
		-	10,000	168,350	4.949,770	5.939,724
300	9,163	252,325		-	-	-
		-	10,000	178,150	5.127,920	6.153,504
301	8,652	260,977		-	-	-
		-	10,000	148,890	5.276,810	6.332,172
302	6,237	267,214		-	-	-
		-	10,000	98,210	5.375,020	6.450,024
303	3,584	270,798		-	-	-
		-	10,000	54,890	5.429,910	6.515,892
304	1,905	272,703		-	-	-
		-	10,000	29,140	5.459,050	6.550,860
305	1,009	273,712		-	-	-
		-	10,000	17,720	5.476,770	6.572,124
306	0,763	274,475		-	-	-
		-	10,000	15,840	5.492,610	6.591,132
307	0,821	275,296		-	-	-
		-	10,000	16,740	5.509,350	6.611,220
308	0,853	276,149		-	-	-
		-	10,000	17,330	5.526,680	6.632,016
309	0,880	277,029		-	-	-
		-	10,000	18,030	5.544,710	6.653,652
310	0,923	277,952		-	-	-
		-	10,000	18,990	5.563,700	6.676,440
311	0,976	278,928		-	-	-
		-	10,000	28,980	5.592,680	6.711,216

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
312	1,922	280,850		-	-	-
		-	10,000	68,830	5.661,510	6.793,812
313	4,961	285,811		-	-	-
		-	10,000	133,420	5.794,930	6.953,916
314	8,381	294,192		-	-	-
		-	10,000	177,510	5.972,440	7.166,928
315	9,370	303,562		-	-	-
		-	10,000	170,420	6.142,860	7.371,432
316	7,672	311,234		-	-	-
		-	10,000	114,150	6.257,010	7.508,412
317	3,743	314,977		-	-	-
		-	10,000	49,690	6.306,700	7.568,040
318	1,226	316,203		-	-	-
		-	10,000	19,570	6.326,270	7.591,524
319	0,731	316,934		-	-	-
		-	10,000	11,840	6.338,110	7.605,732
320	0,453	317,387		-	-	-
		-	10,000	8,600	6.346,710	7.616,052
321	0,407	317,794		-	-	-
		-	10,000	8,760	6.355,470	7.626,564
322	0,469	318,263		-	-	-
		-	10,000	9,740	6.365,210	7.638,252
323	0,505	318,768		-	-	-
		-	10,000	10,310	6.375,520	7.650,624
324	0,526	319,294		-	-	-
		-	10,000	10,570	6.386,090	7.663,308
325	0,531	319,825		-	-	-
		-	10,000	10,410	6.396,500	7.675,800
326	0,510	320,335		-	-	-
		-	10,000	9,840	6.406,340	7.687,608
327	0,474	320,809		-	-	-
		-	10,000	8,910	6.415,250	7.698,300
328	0,417	321,226		-	-	-
		-	10,000	7,980	6.423,230	7.707,876
329	0,381	321,607		-	-	-
		-	10,000	7,410	6.430,640	7.716,768
330	0,360	321,967		-	-	-
		-	10,000	6,890	6.437,530	7.725,036
331	0,329	322,296		-	-	-
		-	10,000	6,070	6.443,600	7.732,320
332	0,278	322,574		-	-	-
		-	10,000	4,950	6.448,550	7.738,260
333	0,217	322,791		-	-	-
		-	10,000	3,530	6.452,080	7.742,496
334	0,136	322,927		-	-	-

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

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Prefeitura Municipal de Caracará

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	3,380	6.455,460	7.746,552
335	0,202	323,129		-	-	-
		-	10,000	4,550	6.460,010	7.752,012
336	0,253	323,382		-	-	-
		-	10,000	5,410	6.465,420	7.758,504
337	0,288	323,670		-	-	-
		-	10,000	5,970	6.471,390	7.765,668
338	0,309	323,979		-	-	-
		-	10,000	6,230	6.477,620	7.773,144
339	0,314	324,293		-	-	-
		-	10,000	6,180	6.483,800	7.780,560
340	0,304	324,597		-	-	-
		-	10,000	5,820	6.489,620	7.787,544
341	0,278	324,875		-	-	-
		-	10,000	6,280	6.495,900	7.795,080
342	0,350	325,225		-	-	-
		-	10,000	7,570	6.503,470	7.804,164
343	0,407	325,632		-	-	-
		-	10,000	8,550	6.512,020	7.814,424
344	0,448	326,080		-	-	-
		-	10,000	9,170	6.521,190	7.825,428
345	0,469	326,549		-	-	-
		-	10,000	9,480	6.530,670	7.836,804
346	0,479	327,028		-	-	-
		-	10,000	10,310	6.540,980	7.849,176
347	0,552	327,580		-	-	-
		-	10,000	11,670	6.552,650	7.863,180
348	0,615	328,195		-	-	-
		-	10,000	12,670	6.565,320	7.878,384
349	0,652	328,847		-	-	-
		-	10,000	13,140	6.578,460	7.894,152
350	0,662	329,509		-	-	-
		-	10,000	17,300	6.595,760	7.914,912
351	1,068	330,577		-	-	-
		-	10,000	34,320	6.630,080	7.956,096
352	2,364	332,941		-	-	-
		-	10,000	71,240	6.701,320	8.041,584
353	4,760	337,701		-	-	-
		-	10,000	118,660	6.819,980	8.183,976
354	7,106	344,807		-	-	-
		-	10,000	148,530	6.968,510	8.362,212
355	7,747	352,554		-	-	-
		-	10,000	143,060	7.111,570	8.533,884
356	6,559	359,113		-	-	-
		-	10,000	103,340	7.214,910	8.657,892

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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)
357	3,775	362,888		-	-	-
		-	10,000	51,560	7.266,470	8.719,764
358	1,381	364,269		-	-	-
		-	10,000	20,120	7.286,590	8.743,908
359	0,631	364,900		-	-	-
		-	10,000	12,040	7.298,630	8.758,356
360	0,573	365,473		-	-	-
		-	10,000	10,630	7.309,260	8.771,112
361	0,490	365,963		-	-	-
		-	10,000	8,710	7.317,970	8.781,564
362	0,381	366,344		-	-	-
		-	10,000	6,280	7.324,250	8.789,100
363	0,247	366,591		-	-	-
		-	10,000	6,070	7.330,320	8.796,384
364	0,360	366,951		-	-	-
		-	10,000	8,080	7.338,400	8.806,080
365	0,448	367,399		-	-	-
		-	10,000	9,580	7.347,980	8.817,576
366	0,510	367,909		-	-	-
		-	10,000	10,570	7.358,550	8.830,260
367	0,547	368,456		-	-	-
		-	10,000	11,250	7.369,800	8.843,760
368	0,578	369,034		-	-	-
		-	10,000	12,140	7.381,940	8.858,328
369	0,636	369,670		-	-	-
		-	10,000	13,510	7.395,450	8.874,540
370	0,715	370,385		-	-	-
		-	10,000	15,360	7.410,810	8.892,972
371	0,821	371,206		-	-	-
		-	10,000	24,480	7.435,290	8.922,348
372	1,627	372,833		-	-	-
		-	10,000	56,580	7.491,870	8.990,244
373	4,031	376,864		-	-	-
		-	10,000	107,710	7.599,580	9.119,496
374	6,740	383,604		-	-	-
		-	10,000	145,030	7.744,610	9.293,532
375	7,763	391,367		-	-	-
		-	10,000	146,490	7.891,100	9.469,320
376	6,886	398,253		-	-	-
		-	10,000	111,770	8.002,870	9.603,444
377	4,291	402,544		-	-	-
		-	10,000	61,960	8.064,830	9.677,796
378	1,905	404,449		-	-	-
		-	10,000	29,190	8.094,020	9.712,824
379	1,014	405,463		-	-	-

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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	17,930	8.111,950	9.734,340
380	0,779	406,242		-	-	-
		-	10,000	13,520	8.125,470	9.750,564
381	0,573	406,815		-	-	-
		-	10,000	9,640	8.135,110	9.762,132
382	0,391	407,206		-	-	-
		-	10,000	6,280	8.141,390	9.769,668
383	0,237	407,443		-	-	-
		-	10,000	5,360	8.146,750	9.776,100
384	0,299	407,742		-	-	-
		-	10,000	6,390	8.153,140	9.783,768
385	0,340	408,082		-	-	-
		-	10,000	6,950	8.160,090	9.792,108
386	0,355	408,437		-	-	-
		-	10,000	7,100	8.167,190	9.800,628
387	0,355	408,792		-	-	-
		-	10,000	6,890	8.174,080	9.808,896
388	0,334	409,126		-	-	-
		-	10,000	7,150	8.181,230	9.817,476
389	0,381	409,507		-	-	-
		-	10,000	7,880	8.189,110	9.826,932
390	0,407	409,914		-	-	-
		-	10,000	8,190	8.197,300	9.836,760
391	0,412	410,326		-	-	-
		-	10,000	8,080	8.205,380	9.846,456
392	0,396	410,722		-	-	-
		-	10,000	7,560	8.212,940	9.855,528
393	0,360	411,082		-	-	-
		-	10,000	7,980	8.220,920	9.865,104
394	0,438	411,520		-	-	-
		-	10,000	9,330	8.230,250	9.876,300
395	0,495	412,015		-	-	-
		-	10,000	10,260	8.240,510	9.888,612
396	0,531	412,546		-	-	-
		-	10,000	10,730	8.251,240	9.901,488
397	0,542	413,088		-	-	-
		-	10,000	10,730	8.261,970	9.914,364
398	0,531	413,619		-	-	-
		-	10,000	10,360	8.272,330	9.926,796
399	0,505	414,124		-	-	-
		-	10,000	16,440	8.288,770	9.946,524
400	1,139	415,263		-	-	-
		-	10,000	44,540	8.333,310	9.999,972
401	3,315	418,578		-	-	-
		-	10,000	95,660	8.428,970	10.114,764

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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	6,251	424,829		-	-	-
		-	10,000	148,950	8.577,920	10.293,504
403	8,644	433,473		-	-	-
		-	10,000	188,950	8.766,870	10.520,244
404	10,251	443,724		-	-	-
		-	10,000	211,730	8.978,600	10.774,320
405	10,922	454,646		-	-	-
		-	10,000	212,640	9.191,240	11.029,488
406	10,342	464,988		-	-	-
		-	10,000	186,770	9.378,010	11.253,612
407	8,335	473,323		-	-	-
		-	10,000	135,130	9.513,140	11.415,768
408	5,178	478,501		-	-	-
		-	10,000	76,190	9.589,330	11.507,196
409	2,441	480,942		-	-	-
		-	10,000	35,200	9.624,530	11.549,436
410	1,079	482,021		-	-	-
		-	10,000	19,000	9.643,530	11.572,236
411	0,821	482,842		-	-	-
		-	10,000	29,340	9.672,870	11.607,444
412	2,113	484,955		-	-	-
		-	10,000	81,020	9.753,890	11.704,668
413	5,989	490,944		-	-	-
		-	10,000	163,390	9.917,280	11.900,736
414	10,350	501,294		-	-	-
		-	10,000	218,380	10.135,660	12.162,792
415	11,488	512,782		-	-	-
		-	10,000	205,160	10.340,820	12.408,984
416	9,028	521,810		-	-	-
		-	10,000	128,220	10.469,040	12.562,848
417	3,794	525,604		-	-	-
		-	10,000	45,510	10.514,550	12.617,460
418	0,757	526,361		-	-	-
		-	10,000	12,210	10.526,760	12.632,112
419	0,464	526,825		-	-	-
		-	10,000	9,380	10.536,140	12.643,368
420	0,474	527,299		-	-	-
		-	10,000	10,780	10.546,920	12.656,304
421	0,604	527,903		-	-	-
		-	10,000	12,450	10.559,370	12.671,244
422	0,641	528,544		-	-	-
		-	10,000	12,350	10.571,720	12.686,064
423	0,594	529,138		-	-	-
		-	10,000	10,470	10.582,190	12.698,628
424	0,453	529,591		-	-	-

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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	10,680	10.592,870	12.711,444
425	0,615	530,206		-	-	-
		-	10,000	21,010	10.613,880	12.736,656
426	1,486	531,692		-	-	-
		-	10,000	46,960	10.660,840	12.793,008
427	3,210	534,902		-	-	-
		-	10,000	93,190	10.754,030	12.904,836
428	6,109	541,011		-	-	-
		-	10,000	150,670	10.904,700	13.085,640
429	8,958	549,969		-	-	-
		-	10,000	187,780	11.092,480	13.310,976
430	9,820	559,789		-	-	-
		-	10,000	194,620	11.287,100	13.544,520
431	9,642	569,431		-	-	-
		-	10,000	192,200	11.479,300	13.775,160
432	9,578	579,009		-	-	-
		-	10,000	191,960	11.671,260	14.005,512
433	9,618	588,627		-	-	-
		-	10,000	193,810	11.865,070	14.238,084
434	9,763	598,390		-	-	-
		-	10,000	197,860	12.062,930	14.475,516
435	10,023	608,413		-	-	-
		-	10,000	178,010	12.240,940	14.689,128
436	7,778	616,191		-	-	-
		-	10,000	119,380	12.360,320	14.832,384
437	4,160	620,351		-	-	-
		-	10,000	63,130	12.423,450	14.908,140
438	2,153	622,504		-	-	-
		-	10,000	35,280	12.458,730	14.950,476
439	1,375	623,879		-	-	-
		-	10,000	25,520	12.484,250	14.981,100
440	1,177	625,056		-	-	-
		-	10,000	22,180	12.506,430	15.007,716
441	1,041	626,097		-	-	-
		-	10,000	19,580	12.526,010	15.031,212
442	0,917	627,014		-	-	-
		-	10,000	16,800	12.542,810	15.051,372
443	0,763	627,777		-	-	-
		-	10,000	13,410	12.556,220	15.067,464
444	0,578	628,355		-	-	-
		-	10,000	12,240	12.568,460	15.082,152
445	0,646	629,001		-	-	-
		-	10,000	13,290	12.581,750	15.098,100
446	0,683	629,684		-	-	-
		-	10,000	13,720	12.595,470	15.114,564

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
447	0,689	630,373		-	-	-
		-	10,000	13,510	12.608,980	15.130,776
448	0,662	631,035		-	-	-
		-	10,000	12,660	12.621,640	15.145,968
449	0,604	631,639		-	-	-
		-	10,000	11,200	12.632,840	15.159,408
450	0,516	632,155		-	-	-
		-	10,000	13,690	12.646,530	15.175,836
451	0,853	633,008		-	-	-
		-	10,000	30,000	12.676,530	15.211,836
452	2,147	635,155		-	-	-
		-	10,000	67,870	12.744,400	15.293,280
453	4,640	639,795		-	-	-
		-	10,000	116,210	12.860,610	15.432,732
454	6,981	646,776		-	-	-
		-	10,000	142,200	13.002,810	15.603,372
455	7,239	654,015		-	-	-
		-	10,000	131,220	13.134,030	15.760,836
456	5,883	659,898		-	-	-
		-	10,000	95,240	13.229,270	15.875,124
457	3,641	663,539		-	-	-
		-	10,000	53,350	13.282,620	15.939,144
458	1,694	665,233		-	-	-
		-	10,000	25,360	13.307,980	15.969,576
459	0,842	666,075		-	-	-
		-	10,000	13,260	13.321,240	15.985,488
460	0,484	666,559		-	-	-
		-	10,000	6,550	13.327,790	15.993,348
461	0,171	666,730		-	-	-
		-	10,000	3,270	13.331,060	15.997,272
462	0,156	666,886		-	-	-
		-	10,000	3,220	13.334,280	16.001,136
463	0,166	667,052		-	-	-
		-	10,000	3,730	13.338,010	16.005,612
464	0,207	667,259		-	-	-
		-	10,000	3,630	13.341,640	16.009,968
465	0,156	667,415		-	-	-
		-	10,000	2,920	13.344,560	16.013,472
466	0,136	667,551		-	-	-
		-	10,000	2,820	13.347,380	16.016,856
467	0,146	667,697		-	-	-
		-	10,000	3,320	13.350,700	16.020,840
468	0,186	667,883		-	-	-
		-	10,000	4,440	13.355,140	16.026,168
469	0,258	668,141		-	-	-

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	7,160	13.362,300	16.034,760
470	0,458	668,599		-	-	-
		-	10,000	11,520	13.373,820	16.048,584
471	0,694	669,293		-	-	-
		-	10,000	21,970	13.395,790	16.074,948
472	1,503	670,796		-	-	-
		-	10,000	50,750	13.446,540	16.135,848
473	3,572	674,368		-	-	-
		-	10,000	96,450	13.542,990	16.251,588
474	6,073	680,441		-	-	-
		-	10,000	137,530	13.680,520	16.416,624
475	7,680	688,121		-	-	-
		-	10,000	149,490	13.830,010	16.596,012
476	7,269	695,390		-	-	-
		-	10,000	135,840	13.965,850	16.759,020
477	6,315	701,705		-	-	-
		-	10,000	133,840	14.099,690	16.919,628
478	7,069	708,774		-	-	-
		-	10,000	148,540	14.248,230	17.097,876
479	7,785	716,559		-	-	-
		-	10,000	144,020	14.392,250	17.270,700
480	6,617	723,176		-	-	-
		-	10,000	104,300	14.496,550	17.395,860
481	3,813	726,989		-	-	-
		-	10,000	51,940	14.548,490	17.458,188
482	1,381	728,370		-	-	-
		-	10,000	19,640	14.568,130	17.481,756
483	0,583	728,953		-	-	-
		-	10,000	10,670	14.578,800	17.494,560
484	0,484	729,437		-	-	-
		-	10,000	8,340	14.587,140	17.504,568
485	0,350	729,787		-	-	-
		-	10,000	10,280	14.597,420	17.516,904
486	0,678	730,465		-	-	-
		-	10,000	27,150	14.624,570	17.549,484
487	2,037	732,502		-	-	-
		-	10,000	67,430	14.692,000	17.630,400
488	4,706	737,208		-	-	-
		-	10,000	120,410	14.812,410	17.774,892
489	7,335	744,543		-	-	-
		-	10,000	152,640	14.965,050	17.958,060
490	7,929	752,472		-	-	-
		-	10,000	142,660	15.107,710	18.129,252
491	6,337	758,809		-	-	-
		-	10,000	92,950	15.200,660	18.240,792

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	2,958	761,767		-	-	-
		-	10,000	38,860	15.239,520	18.287,424
493	0,928	762,695		-	-	-
		-	10,000	15,690	15.255,210	18.306,252
494	0,641	763,336		-	-	-
		-	10,000	13,350	15.268,560	18.322,272
495	0,694	764,030		-	-	-
		-	10,000	14,090	15.282,650	18.339,180
496	0,715	764,745		-	-	-
		-	10,000	14,250	15.296,900	18.356,280
497	0,710	765,455		-	-	-
		-	10,000	13,770	15.310,670	18.372,804
498	0,667	766,122		-	-	-
		-	10,000	12,660	15.323,330	18.387,996
499	0,599	766,721		-	-	-
		-	10,000	10,990	15.334,320	18.401,184
500	0,500	767,221		-	-	-
		-	10,000	8,810	15.343,130	18.411,756
501	0,381	767,602		-	-	-
		-	10,000	6,900	15.350,030	18.420,036
502	0,309	767,911		-	-	-
		-	10,000	6,020	15.356,050	18.427,260
503	0,293	768,204		-	-	-
		-	10,000	6,120	15.362,170	18.434,604
504	0,319	768,523		-	-	-
		-	10,000	7,200	15.369,370	18.443,244
505	0,401	768,924		-	-	-
		-	10,000	9,320	15.378,690	18.454,428
506	0,531	769,455		-	-	-
		-	10,000	10,050	15.388,740	18.466,488
507	0,474	769,929		-	-	-
		-	10,000	9,430	15.398,170	18.477,804
508	0,469	770,398		-	-	-
		-	10,000	9,790	15.407,960	18.489,552
509	0,510	770,908		-	-	-
		-	10,000	9,680	15.417,640	18.501,168
510	0,458	771,366		-	-	-
		-	10,000	9,160	15.426,800	18.512,160
511	0,458	771,824		-	-	-
		-	10,000	9,630	15.436,430	18.523,716
512	0,505	772,329		-	-	-
		-	10,000	9,120	15.445,550	18.534,660
513	0,407	772,736		-	-	-
		-	10,000	7,670	15.453,220	18.543,864
514	0,360	773,096		-	-	-

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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	7,200	15.460,420	18.552,504
515	0,360	773,456		-	-	-
		-	10,000	7,770	15.468,190	18.561,828
516	0,417	773,873		-	-	-
		-	10,000	9,330	15.477,520	18.573,024
517	0,516	774,389		-	-	-
		-	10,000	9,590	15.487,110	18.584,532
518	0,443	774,832		-	-	-
		-	10,000	8,600	15.495,710	18.594,852
519	0,417	775,249		-	-	-
		-	10,000	8,550	15.504,260	18.605,112
520	0,438	775,687		-	-	-
		-	10,000	9,330	15.513,590	18.616,308
521	0,495	776,182		-	-	-
		-	10,000	9,380	15.522,970	18.627,564
522	0,443	776,625		-	-	-
		-	10,000	8,750	15.531,720	18.638,064
523	0,432	777,057		-	-	-
		-	10,000	8,960	15.540,680	18.648,816
524	0,464	777,521		-	-	-
		-	10,000	9,900	15.550,580	18.660,696
525	0,526	778,047		-	-	-
		-	10,000	15,830	15.566,410	18.679,692
526	1,057	779,104		-	-	-
		-	10,000	36,110	15.602,520	18.723,024
527	2,554	781,658		-	-	-
		-	10,000	78,480	15.681,000	18.817,200
528	5,294	786,952		-	-	-
		-	10,000	132,380	15.813,380	18.976,056
529	7,944	794,896		-	-	-
		-	10,000	164,800	15.978,180	19.173,816
530	8,536	803,432		-	-	-
		-	10,000	154,880	16.133,060	19.359,672
531	6,952	810,384		-	-	-
		-	10,000	104,990	16.238,050	19.485,660
532	3,547	813,931		-	-	-
		-	10,000	49,500	16.287,550	19.545,060
533	1,403	815,334		-	-	-
		-	10,000	23,900	16.311,450	19.573,740
534	0,987	816,321		-	-	-
		-	10,000	16,070	16.327,520	19.593,024
535	0,620	816,941		-	-	-
		-	10,000	12,510	16.340,030	19.608,036
536	0,631	817,572		-	-	-
		-	10,000	12,560	16.352,590	19.623,108

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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)
537	0,625	818,197		-	-	-
		-	10,000	11,820	16.364,410	19.637,292
538	0,557	818,754		-	-	-
		-	10,000	12,350	16.376,760	19.652,112
539	0,678	819,432		-	-	-
		-	10,000	14,140	16.390,900	19.669,080
540	0,736	820,168		-	-	-
		-	10,000	14,560	16.405,460	19.686,552
541	0,720	820,888		-	-	-
		-	10,000	13,610	16.419,070	19.702,884
542	0,641	821,529		-	-	-
		-	10,000	11,310	16.430,380	19.716,456
543	0,490	822,019		-	-	-
		-	10,000	11,210	16.441,590	19.729,908
544	0,631	822,650		-	-	-
		-	10,000	13,300	16.454,890	19.745,868
545	0,699	823,349		-	-	-
		-	10,000	14,030	16.468,920	19.762,704
546	0,704	824,053		-	-	-
		-	10,000	13,400	16.482,320	19.778,784
547	0,636	824,689		-	-	-
		-	10,000	11,410	16.493,730	19.792,476
548	0,505	825,194		-	-	-
		-	10,000	11,410	16.505,140	19.806,168
549	0,636	825,830		-	-	-
		-	10,000	13,400	16.518,540	19.822,248
550	0,704	826,534		-	-	-
		-	10,000	14,030	16.532,570	19.839,084
551	0,699	827,233		-	-	-
		-	10,000	13,300	16.545,870	19.855,044
552	0,631	827,864		-	-	-
		-	10,000	11,210	16.557,080	19.868,496
553	0,490	828,354		-	-	-
		-	10,000	10,680	16.567,760	19.881,312
554	0,578	828,932		-	-	-
		-	10,000	11,980	16.579,740	19.895,688
555	0,620	829,552		-	-	-
		-	10,000	12,610	16.592,350	19.910,820
556	0,641	830,193		-	-	-
		-	10,000	12,820	16.605,170	19.926,204
557	0,641	830,834		-	-	-
		-	10,000	12,560	16.617,730	19.941,276
558	0,615	831,449		-	-	-
		-	10,000	11,880	16.629,610	19.955,532
559	0,573	832,022		-	-	-

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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	10,780	16.640,390	19.968,468
560	0,505	832,527		-	-	-
		-	10,000	11,250	16.651,640	19.981,968
561	0,620	833,147		-	-	-
		-	10,000	13,300	16.664,940	19.997,928
562	0,710	833,857		-	-	-
		-	10,000	14,890	16.679,830	20.015,796
563	0,779	834,636		-	-	-
		-	10,000	16,050	16.695,880	20.035,056
564	0,826	835,462		-	-	-
		-	10,000	16,790	16.712,670	20.055,204
565	0,853	836,315		-	-	-
		-	10,000	17,110	16.729,780	20.075,736
566	0,858	837,173		-	-	-
		-	10,000	17,000	16.746,780	20.096,136
567	0,842	838,015		-	-	-
		-	10,000	16,470	16.763,250	20.115,900
568	0,805	838,820		-	-	-
		-	10,000	15,460	16.778,710	20.134,452
569	0,741	839,561		-	-	-
		-	10,000	14,030	16.792,740	20.151,288
570	0,662	840,223		-	-	-
		-	10,000	12,190	16.804,930	20.165,916
571	0,557	840,780		-	-	-
		-	10,000	11,190	16.816,120	20.179,344
572	0,562	841,342		-	-	-
		-	10,000	11,040	16.827,160	20.192,592
573	0,542	841,884		-	-	-
		-	10,000	10,420	16.837,580	20.205,096
574	0,500	842,384		-	-	-
		-	10,000	9,380	16.846,960	20.216,352
575	0,438	842,822		-	-	-
		-	10,000	8,190	16.855,150	20.226,180
576	0,381	843,203		-	-	-
		-	10,000	7,410	16.862,560	20.235,072
577	0,360	843,563		-	-	-
		-	10,000	7,360	16.869,920	20.243,904
578	0,376	843,939		-	-	-
		-	10,000	8,030	16.877,950	20.253,540
579	0,427	844,366		-	-	-
		-	10,000	9,370	16.887,320	20.264,784
580	0,510	844,876		-	-	-
		-	10,000	9,740	16.897,060	20.276,472
581	0,464	845,340		-	-	-
		-	10,000	9,120	16.906,180	20.287,416

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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)
582	0,448	845,788		-	-	-
		-	10,000	9,220	16.915,400	20.298,480
583	0,474	846,262		-	-	-
		-	10,000	10,050	16.925,450	20.310,540
584	0,531	846,793		-	-	-
		-	10,000	10,050	16.935,500	20.322,600
585	0,474	847,267		-	-	-
		-	10,000	9,320	16.944,820	20.333,784
586	0,458	847,725		-	-	-
		-	10,000	9,320	16.954,140	20.344,968
587	0,474	848,199		-	-	-
		-	10,000	10,000	16.964,140	20.356,968
588	0,526	848,725		-	-	-
		-	10,000	9,950	16.974,090	20.368,908
589	0,469	849,194		-	-	-
		-	10,000	9,120	16.983,210	20.379,852
590	0,443	849,637		-	-	-
		-	10,000	8,960	16.992,170	20.390,604
591	0,453	850,090		-	-	-
		-	10,000	9,530	17.001,700	20.402,040
592	0,500	850,590		-	-	-
		-	10,000	8,910	17.010,610	20.412,732
593	0,391	850,981		-	-	-
		-	10,000	7,100	17.017,710	20.421,252
594	0,319	851,300		-	-	-
		-	10,000	6,020	17.023,730	20.428,476
595	0,283	851,583		-	-	-
		-	10,000	5,610	17.029,340	20.435,208
596	0,278	851,861		-	-	-
		-	10,000	5,920	17.035,260	20.442,312
597	0,314	852,175		-	-	-
		-	10,000	6,950	17.042,210	20.450,652
598	0,381	852,556		-	-	-
		-	10,000	8,600	17.050,810	20.460,972
599	0,479	853,035		-	-	-
		-	10,000	9,320	17.060,130	20.472,156
600	0,453	853,488		-	-	-
		-	10,000	9,110	17.069,240	20.483,088
601	0,458	853,946		-	-	-
		-	10,000	9,580	17.078,820	20.494,584
602	0,500	854,446		-	-	-
		-	10,000	9,380	17.088,200	20.505,840
603	0,438	854,884		-	-	-
		-	10,000	8,500	17.096,700	20.516,040
604	0,412	855,296		-	-	-

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Estacas	Área		Semi-Distância (m)	Volume		
	Aterro (m²)	Acum. Aterro (m²)		Aterro (m³)	Acum. Aterro (m³)	Empolado (m³)
		-	10,000	8,340	17.105,040	20.526,048
605	0,422	855,718		-	-	-
		-	10,000	8,910	17.113,950	20.536,740
606	0,469	856,187		-	-	-
		-	10,000	9,900	17.123,850	20.548,620
607	0,521	856,708		-	-	-
		-	10,000	10,990	17.134,840	20.561,808
608	0,578	857,286		-	-	-
		-	10,000	11,930	17.146,770	20.576,124
609	0,615	857,901		-	-	-
		-	10,000	12,510	17.159,280	20.591,136
610	0,636	858,537		-	-	-
		-	10,000	12,720	17.172,000	20.606,400
611	0,636	859,173		-	-	-
		-	10,000	12,510	17.184,510	20.621,412
612	0,615	859,788		-	-	-
		-	10,000	11,930	17.196,440	20.635,728
613	0,578	860,366		-	-	-
		-	10,000	10,990	17.207,430	20.648,916
614	0,521	860,887		-	-	-
		-	10,000	10,940	17.218,370	20.662,044
615	0,573	861,460		-	-	-
		-	10,000	11,830	17.230,200	20.676,240
616	0,610	862,070		-	-	-
		-	10,000	12,300	17.242,500	20.691,000
617	0,620	862,690		-	-	-
		-	10,000	12,400	17.254,900	20.705,880
618	0,620	863,310		-	-	-
		-	10,000	12,140	17.267,040	20.720,448
619	0,594	863,904		-	-	-
		-	10,000	11,460	17.278,500	20.734,200
620	0,552	864,456		-	-	-
		-	10,000	10,470	17.288,970	20.746,764
621	0,495	864,951		-	-	-
		-	10,000	10,370	17.299,340	20.759,208
622	0,542	865,493		-	-	-
		-	10,000	11,100	17.310,440	20.772,528
623	0,568	866,061		-	-	-
		-	10,000	11,460	17.321,900	20.786,280
624	0,578	866,639		-	-	-
		-	10,000	11,510	17.333,410	20.800,092
625	0,573	867,212		-	-	-
		-	10,000	11,150	17.344,560	20.813,472
626	0,542	867,754		-	-	-
		-	10,000	10,420	17.354,980	20.825,976

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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)
627	0,500	868,254		-	-	-
		-	10,000	10,680	17.365,660	20.838,792
628	0,568	868,822		-	-	-
		-	10,000	11,880	17.377,540	20.853,048
629	0,620	869,442		-	-	-
		-	10,000	12,770	17.390,310	20.868,372
630	0,657	870,099		-	-	-
		-	10,000	13,300	17.403,610	20.884,332
631	0,673	870,772		-	-	-
		-	10,000	13,460	17.417,070	20.900,484
632	0,673	871,445		-	-	-
		-	10,000	13,250	17.430,320	20.916,384
633	0,652	872,097		-	-	-
		-	10,000	12,620	17.442,940	20.931,528
634	0,610	872,707		-	-	-
		-	10,000	11,620	17.454,560	20.945,472
635	0,552	873,259		-	-	-
		-	10,000	11,510	17.466,070	20.959,284
636	0,599	873,858		-	-	-
		-	10,000	12,300	17.478,370	20.974,044
637	0,631	874,489		-	-	-
		-	10,000	12,770	17.491,140	20.989,368
638	0,646	875,135		-	-	-
		-	10,000	12,870	17.504,010	21.004,812
639	0,641	875,776		-	-	-
		-	10,000	12,720	17.516,730	21.020,076
640	0,631	876,407		-	-	-
		-	10,000	12,300	17.529,030	21.034,836
641	0,599	877,006		-	-	-
		-	10,000	11,560	17.540,590	21.048,708
642	0,557	877,563		-	-	-
		-	10,000	10,520	17.551,110	21.061,332
643	0,495	878,058		-	-	-
		-	10,000	10,520	17.561,630	21.073,956
644	0,557	878,615		-	-	-
		-	10,000	11,670	17.573,300	21.087,960
645	0,610	879,225		-	-	-
		-	10,000	12,510	17.585,810	21.102,972
646	0,641	879,866		-	-	-
		-	10,000	13,030	17.598,840	21.118,608
647	0,662	880,528		-	-	-
		-	10,000	13,290	17.612,130	21.134,556
648	0,667	881,195		-	-	-
		-	10,000	13,240	17.625,370	21.150,444
649	0,657	881,852		-	-	-

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	12,930	17.638,300	21.165,960
650	0,636	882,488		-	-	-
		-	10,000	12,350	17.650,650	21.180,780
651	0,599	883,087		-	-	-
		-	10,000	11,460	17.662,110	21.194,532
652	0,547	883,634		-	-	-
		-	10,000	10,990	17.673,100	21.207,720
653	0,552	884,186		-	-	-
		-	10,000	10,940	17.684,040	21.220,848
654	0,542	884,728		-	-	-
		-	10,000	10,630	17.694,670	21.233,604
655	0,521	885,249		-	-	-
		-	10,000	14,280	17.708,950	21.250,740
656	0,907	886,156		-	-	-
		-	10,000	30,950	17.739,900	21.287,880
657	2,188	888,344		-	-	-
		-	10,000	67,810	17.807,710	21.369,252
658	4,593	892,937		-	-	-
		-	10,000	116,110	17.923,820	21.508,584
659	7,018	899,955		-	-	-
		-	10,000	148,860	18.072,680	21.687,216
660	7,868	907,823		-	-	-
		-	10,000	148,490	18.221,170	21.865,404
661	6,981	914,804		-	-	-
		-	10,000	131,460	18.352,630	22.023,156
662	6,165	920,969		-	-	-
		-	10,000	132,930	18.485,560	22.182,672
663	7,128	928,097		-	-	-
		-	10,000	155,400	18.640,960	22.369,152
664	8,412	936,509		-	-	-
		-	10,000	168,160	18.809,120	22.570,944
665	8,404	944,913		-	-	-
		-	10,000	155,030	18.964,150	22.756,980
666	7,099	952,012		-	-	-
		-	10,000	117,990	19.082,140	22.898,568
667	4,700	956,712		-	-	-
		-	10,000	71,470	19.153,610	22.984,332
668	2,447	959,159		-	-	-
		-	10,000	36,080	19.189,690	23.027,628
669	1,161	960,320		-	-	-
		-	10,000	18,180	19.207,870	23.049,444
670	0,657	960,977		-	-	-
		-	10,000	11,830	19.219,700	23.063,640
671	0,526	961,503		-	-	-
		-	10,000	9,380	19.229,080	23.074,896

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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)
672	0,412	961,915		-	-	-
		-	10,000	7,360	19.236,440	23.083,728
673	0,324	962,239		-	-	-
		-	10,000	6,070	19.242,510	23.091,012
674	0,283	962,522		-	-	-
		-	10,000	5,510	19.248,020	23.097,624
675	0,268	962,790		-	-	-
		-	10,000	5,360	19.253,380	23.104,056
676	0,268	963,058		-	-	-
		-	10,000	5,610	19.258,990	23.110,788
677	0,293	963,351		-	-	-
		-	10,000	6,270	19.265,260	23.118,312
678	0,334	963,685		-	-	-
		-	10,000	6,020	19.271,280	23.125,536
679	0,268	963,953		-	-	-
		-	10,000	4,900	19.276,180	23.131,416
680	0,222	964,175		-	-	-
		-	10,000	4,190	19.280,370	23.136,444
681	0,197	964,372		-	-	-
		-	10,000	3,880	19.284,250	23.141,100
682	0,191	964,563		-	-	-
		-	10,000	3,980	19.288,230	23.145,876
683	0,207	964,770		-	-	-
		-	10,000	4,490	19.292,720	23.151,264
684	0,242	965,012		-	-	-
		-	10,000	5,410	19.298,130	23.157,756
685	0,299	965,311		-	-	-
		-	10,000	6,750	19.304,880	23.165,856
686	0,376	965,687		-	-	-
		-	10,000	6,690	19.311,570	23.173,884
687	0,293	965,980		-	-	-
		-	10,000	5,200	19.316,770	23.180,124
688	0,227	966,207		-	-	-
		-	10,000	4,130	19.320,900	23.185,080
689	0,186	966,393		-	-	-
		-	10,000	3,470	19.324,370	23.189,244
690	0,161	966,554		-	-	-
		-	10,000	3,220	19.327,590	23.193,108
691	0,161	966,715		-	-	-
		-	10,000	3,370	19.330,960	23.197,152
692	0,176	966,891		-	-	-
		-	10,000	3,930	19.334,890	23.201,868
693	0,217	967,108		-	-	-
		-	10,000	3,780	19.338,670	23.206,404
694	0,161	967,269		-	-	-

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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	2,920	19.341,590	23.209,908
695	0,131	967,400		-	-	-
		-	10,000	2,520	19.344,110	23.212,932
696	0,121	967,521		-	-	-
		-	10,000	2,520	19.346,630	23.215,956
697	0,131	967,652		-	-	-
		-	10,000	2,920	19.349,550	23.219,460
698	0,161	967,813		-	-	-
		-	10,000	3,730	19.353,280	23.223,936
699	0,212	968,025		-	-	-
		-	10,000	5,000	19.358,280	23.229,936
700	0,288	968,313		-	-	-
		-	10,000	6,690	19.364,970	23.237,964
701	0,381	968,694		-	-	-
		-	10,000	15,360	19.380,330	23.256,396
702	1,155	969,849		-	-	-
		-	10,000	46,390	19.426,720	23.312,064
703	3,484	973,333		-	-	-
		-	10,000	95,360	19.522,080	23.426,496
704	6,052	979,385		-	-	-
		-	10,000	129,160	19.651,240	23.581,488
705	6,864	986,249		-	-	-
		-	10,000	125,930	19.777,170	23.732,604
706	5,729	991,978		-	-	-
		-	10,000	86,440	19.863,610	23.836,332
707	2,915	994,893		-	-	-
		-	10,000	39,400	19.903,010	23.883,612
708	1,025	995,918		-	-	-
		-	10,000	16,450	19.919,460	23.903,352
709	0,620	996,538		-	-	-
		-	10,000	9,960	19.929,420	23.915,304
710	0,376	996,914		-	-	-
		-	10,000	6,640	19.936,060	23.923,272
711	0,288	997,202		-	-	-
		-	10,000	5,760	19.941,820	23.930,184
712	0,288	997,490		-	-	-
		-	10,000	5,970	19.947,790	23.937,348
713	0,309	997,799		-	-	-
		-	10,000	5,510	19.953,300	23.943,960
714	0,242	998,041		-	-	-
		-	10,000	4,330	19.957,630	23.949,156
715	0,191	998,232		-	-	-
		-	10,000	3,620	19.961,250	23.953,500
716	0,171	998,403		-	-	-
		-	10,000	3,370	19.964,620	23.957,544

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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)
717	0,166	998,569		-	-	-
		-	10,000	3,520	19.968,140	23.961,768
718	0,186	998,755		-	-	-
		-	10,000	4,130	19.972,270	23.966,724
719	0,227	998,982		-	-	-
		-	10,000	5,150	19.977,420	23.972,904
720	0,288	999,270		-	-	-
		-	10,000	5,300	19.982,720	23.979,264
721	0,242	999,512		-	-	-
		-	10,000	4,590	19.987,310	23.984,772
722	0,217	999,729		-	-	-
		-	10,000	4,290	19.991,600	23.989,920
723	0,212	999,941		-	-	-
		-	10,000	4,390	19.995,990	23.995,188
724	0,227	1.000,168		-	-	-
		-	10,000	4,950	20.000,940	24.001,128
725	0,268	1.000,436		-	-	-
		-	10,000	5,970	20.006,910	24.008,292
726	0,329	1.000,765		-	-	-
		-	10,000	7,460	20.014,370	24.017,244
727	0,417	1.001,182		-	-	-
		-	10,000	9,380	20.023,750	24.028,500
728	0,521	1.001,703		-	-	-
		-	10,000	10,470	20.034,220	24.041,064
729	0,526	1.002,229		-	-	-
		-	10,000	10,830	20.045,050	24.054,060
730	0,557	1.002,786		-	-	-
		-	10,000	11,610	20.056,660	24.067,992
731	0,604	1.003,390		-	-	-
		-	10,000	12,820	20.069,480	24.083,376
732	0,678	1.004,068		-	-	-
		-	10,000	14,190	20.083,670	24.100,404
733	0,741	1.004,809		-	-	-
		-	10,000	15,090	20.098,760	24.118,512
734	0,768	1.005,577		-	-	-
		-	10,000	15,250	20.114,010	24.136,812
735	0,757	1.006,334		-	-	-
		-	10,000	14,610	20.128,620	24.154,344
736	0,704	1.007,038		-	-	-
		-	10,000	13,140	20.141,760	24.170,112
737	0,610	1.007,648		-	-	-
		-	10,000	10,890	20.152,650	24.183,180
738	0,479	1.008,127		-	-	-
		-	10,000	10,620	20.163,270	24.195,924
739	0,583	1.008,710		-	-	-

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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	12,290	20.175,560	24.210,672
740	0,646	1.009,356		-	-	-
		-	10,000	13,190	20.188,750	24.226,500
741	0,673	1.010,029		-	-	-
		-	10,000	13,350	20.202,100	24.242,520
742	0,662	1.010,691		-	-	-
		-	10,000	12,720	20.214,820	24.257,784
743	0,610	1.011,301		-	-	-
		-	10,000	11,260	20.226,080	24.271,296
744	0,516	1.011,817		-	-	-
		-	10,000	11,410	20.237,490	24.284,988
745	0,625	1.012,442		-	-	-
		-	10,000	13,240	20.250,730	24.300,876
746	0,699	1.013,141		-	-	-
		-	10,000	14,300	20.265,030	24.318,036
747	0,731	1.013,872		-	-	-
		-	10,000	14,570	20.279,600	24.335,520
748	0,726	1.014,598		-	-	-
		-	10,000	14,090	20.293,690	24.352,428
749	0,683	1.015,281		-	-	-
		-	10,000	12,820	20.306,510	24.367,812
750	0,599	1.015,880		-	-	-
		-	10,000	10,730	20.317,240	24.380,688
751	0,474	1.016,354		-	-	-
		-	10,000	10,470	20.327,710	24.393,252
752	0,573	1.016,927		-	-	-
		-	10,000	12,090	20.339,800	24.407,760
753	0,636	1.017,563		-	-	-
		-	10,000	12,930	20.352,730	24.423,276
754	0,657	1.018,220		-	-	-
		-	10,000	12,980	20.365,710	24.438,852
755	0,641	1.018,861		-	-	-
		-	10,000	12,300	20.378,010	24.453,612
756	0,589	1.019,450		-	-	-
		-	10,000	10,840	20.388,850	24.466,620
757	0,495	1.019,945		-	-	-
		-	10,000	10,310	20.399,160	24.478,992
758	0,536	1.020,481		-	-	-
		-	10,000	10,780	20.409,940	24.491,928
759	0,542	1.021,023		-	-	-
		-	10,000	10,520	20.420,460	24.504,552
760	0,510	1.021,533		-	-	-
		-	10,000	14,110	20.434,570	24.521,484
761	0,901	1.022,434		-	-	-
		-	10,000	31,710	20.466,280	24.559,536

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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)
762	2,270	1.024,704		-	-	-
		-	10,000	71,370	20.537,650	24.645,180
763	4,867	1.029,571		-	-	-
		-	10,000	122,920	20.660,570	24.792,684
764	7,425	1.036,996		-	-	-
		-	10,000	154,910	20.815,480	24.978,576
765	8,066	1.045,062		-	-	-
		-	10,000	147,340	20.962,820	25.155,384
766	6,668	1.051,730		-	-	-
		-	10,000	101,960	21.064,780	25.277,736
767	3,528	1.055,258		-	-	-
		-	10,000	45,210	21.109,990	25.331,988
768	0,993	1.056,251		-	-	-
		-	10,000	14,620	21.124,610	25.349,532
769	0,469	1.056,720		-	-	-
		-	10,000	12,950	21.137,560	25.365,072
770	0,826	1.057,546		-	-	-
		-	10,000	20,090	21.157,650	25.389,180
771	1,183	1.058,729		-	-	-
		-	10,000	36,240	21.193,890	25.432,668
772	2,441	1.061,170		-	-	-
		-	10,000	83,240	21.277,130	25.532,556
773	5,883	1.067,053		-	-	-
		-	10,000	156,140	21.433,270	25.719,924
774	9,731	1.076,784		-	-	-
		-	10,000	207,040	21.640,310	25.968,372
775	10,973	1.087,757		-	-	-
		-	10,000	202,550	21.842,860	26.211,432
776	9,282	1.097,039		-	-	-
		-	10,000	143,990	21.986,850	26.384,220
777	5,117	1.102,156		-	-	-
		-	10,000	67,600	22.054,450	26.465,340
778	1,643	1.103,799		-	-	-
		-	10,000	22,630	22.077,080	26.492,496
779	0,620	1.104,419		-	-	-
		-	10,000	12,190	22.089,270	26.507,124
780	0,599	1.105,018		-	-	-
		-	10,000	11,720	22.100,990	26.521,188
781	0,573	1.105,591		-	-	-
		-	10,000	11,090	22.112,080	26.534,496
782	0,536	1.106,127		-	-	-
		-	10,000	10,310	22.122,390	26.546,868
783	0,495	1.106,622		-	-	-
		-	10,000	9,380	22.131,770	26.558,124
784	0,443	1.107,065		-	-	-

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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	8,290	22.140,060	26.568,072
785	0,386	1.107,451		-	-	-
		-	10,000	7,050	22.147,110	26.576,532
786	0,319	1.107,770		-	-	-
		-	10,000	5,660	22.152,770	26.583,324
787	0,247	1.108,017		-	-	-
		-	10,000	5,350	22.158,120	26.589,744
788	0,288	1.108,305		-	-	-
		-	10,000	6,070	22.164,190	26.597,028
789	0,319	1.108,624		-	-	-
		-	10,000	6,640	22.170,830	26.604,996
790	0,345	1.108,969		-	-	-
		-	10,000	7,100	22.177,930	26.613,516
791	0,365	1.109,334		-	-	-
		-	10,000	7,410	22.185,340	26.622,408
792	0,376	1.109,710		-	-	-
		-	10,000	7,520	22.192,860	26.631,432
793	0,376	1.110,086		-	-	-
		-	10,000	7,460	22.200,320	26.640,384
794	0,370	1.110,456		-	-	-
		-	10,000	7,300	22.207,620	26.649,144
795	0,360	1.110,816		-	-	-
		-	10,000	7,000	22.214,620	26.657,544
796	0,340	1.111,156		-	-	-
		-	10,000	6,490	22.221,110	26.665,332
797	0,309	1.111,465		-	-	-
		-	10,000	6,230	22.227,340	26.672,808
798	0,314	1.111,779		-	-	-
		-	10,000	6,230	22.233,570	26.680,284
799	0,309	1.112,088		-	-	-
		-	10,000	6,080	22.239,650	26.687,580
800	0,299	1.112,387		-	-	-
		-	10,000	5,770	22.245,420	26.694,504
801	0,278	1.112,665		-	-	-
		-	10,000	5,310	22.250,730	26.700,876
802	0,253	1.112,918		-	-	-
		-	10,000	4,900	22.255,630	26.706,756
803	0,237	1.113,155		-	-	-
		-	10,000	4,790	22.260,420	26.712,504
804	0,242	1.113,397		-	-	-
		-	10,000	5,200	22.265,620	26.718,744
805	0,278	1.113,675		-	-	-
		-	10,000	4,800	22.270,420	26.724,504
806	0,202	1.113,877		-	-	-
		-	10,000	3,580	22.274,000	26.728,800

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

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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)
807	0,156	1.114,033		-	-	-
		-	10,000	2,920	22.276,920	26.732,304
808	0,136	1.114,169		-	-	-
		-	10,000	2,770	22.279,690	26.735,628
809	0,141	1.114,310		-	-	-
		-	10,000	3,120	22.282,810	26.739,372
810	0,171	1.114,481		-	-	-
		-	10,000	3,070	22.285,880	26.743,056
811	0,136	1.114,617		-	-	-
		-	10,000	2,620	22.288,500	26.746,200
812	0,126	1.114,743		-	-	-
		-	10,000	2,670	22.291,170	26.749,404
813	0,141	1.114,884		-	-	-
		-	10,000	3,220	22.294,390	26.753,268
814	0,181	1.115,065		-	-	-
		-	10,000	4,280	22.298,670	26.758,404
815	0,247	1.115,312		-	-	-
		-	10,000	4,440	22.303,110	26.763,732
816	0,197	1.115,509		-	-	-
		-	10,000	3,680	22.306,790	26.768,148
817	0,171	1.115,680		-	-	-
		-	10,000	3,470	22.310,260	26.772,312
818	0,176	1.115,856		-	-	-
		-	10,000	3,780	22.314,040	26.776,848
819	0,202	1.116,058		-	-	-
		-	10,000	4,600	22.318,640	26.782,368
820	0,258	1.116,316		-	-	-
		-	10,000	4,900	22.323,540	26.788,248
821	0,232	1.116,548		-	-	-
		-	10,000	4,690	22.328,230	26.793,876
822	0,237	1.116,785		-	-	-
		-	10,000	5,000	22.333,230	26.799,876
823	0,263	1.117,048		-	-	-
		-	10,000	5,820	22.339,050	26.806,860
824	0,319	1.117,367		-	-	-
		-	10,000	7,150	22.346,200	26.815,440
825	0,396	1.117,763		-	-	-
		-	10,000	7,150	22.353,350	26.824,020
826	0,319	1.118,082		-	-	-
		-	10,000	5,870	22.359,220	26.831,064
827	0,268	1.118,350		-	-	-
		-	10,000	5,100	22.364,320	26.837,184
828	0,242	1.118,592		-	-	-
		-	10,000	4,840	22.369,160	26.842,992
829	0,242	1.118,834		-	-	-

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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	5,100	22.374,260	26.849,112
830	0,268	1.119,102		-	-	-
		-	10,000	5,870	22.380,130	26.856,156
831	0,319	1.119,421		-	-	-
		-	10,000	7,150	22.387,280	26.864,736
832	0,396	1.119,817		-	-	-
		-	10,000	8,960	22.396,240	26.875,488
833	0,500	1.120,317		-	-	-
		-	10,000	9,220	22.405,460	26.886,552
834	0,422	1.120,739		-	-	-
		-	10,000	7,920	22.413,380	26.896,056
835	0,370	1.121,109		-	-	-
		-	10,000	7,150	22.420,530	26.904,636
836	0,345	1.121,454		-	-	-
		-	10,000	6,950	22.427,480	26.912,976
837	0,350	1.121,804		-	-	-
		-	10,000	7,260	22.434,740	26.921,688
838	0,376	1.122,180		-	-	-
		-	10,000	8,080	22.442,820	26.931,384
839	0,432	1.122,612		-	-	-
		-	10,000	9,420	22.452,240	26.942,688
840	0,510	1.123,122		-	-	-
		-	10,000	10,930	22.463,170	26.955,804
841	0,583	1.123,705		-	-	-
		-	10,000	12,240	22.475,410	26.970,492
842	0,641	1.124,346		-	-	-
		-	10,000	13,240	22.488,650	26.986,380
843	0,683	1.125,029		-	-	-
		-	10,000	13,870	22.502,520	27.003,024
844	0,704	1.125,733		-	-	-
		-	10,000	14,190	22.516,710	27.020,052
845	0,715	1.126,448		-	-	-
		-	10,000	14,140	22.530,850	27.037,020
846	0,699	1.127,147		-	-	-
		-	10,000	13,720	22.544,570	27.053,484
847	0,673	1.127,820		-	-	-
		-	10,000	12,980	22.557,550	27.069,060
848	0,625	1.128,445		-	-	-
		-	10,000	11,870	22.569,420	27.083,304
849	0,562	1.129,007		-	-	-
		-	10,000	10,410	22.579,830	27.095,796
850	0,479	1.129,486		-	-	-
		-	10,000	10,260	22.590,090	27.108,108
851	0,547	1.130,033		-	-	-
		-	10,000	11,460	22.601,550	27.121,860

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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)
852	0,599	1.130,632		-	-	-
		-	10,000	12,350	22.613,900	27.136,680
853	0,636	1.131,268		-	-	-
		-	10,000	12,880	22.626,780	27.152,136
854	0,652	1.131,920		-	-	-
		-	10,000	13,040	22.639,820	27.167,784
855	0,652	1.132,572		-	-	-
		-	10,000	12,880	22.652,700	27.183,240
856	0,636	1.133,208		-	-	-
		-	10,000	12,350	22.665,050	27.198,060
857	0,599	1.133,807		-	-	-
		-	10,000	11,460	22.676,510	27.211,812
858	0,547	1.134,354		-	-	-
		-	10,000	10,210	22.686,720	27.224,064
859	0,474	1.134,828		-	-	-
		-	10,000	10,310	22.697,030	27.236,436
860	0,557	1.135,385		-	-	-
		-	10,000	11,770	22.708,800	27.250,560
861	0,620	1.136,005		-	-	-
		-	10,000	12,870	22.721,670	27.266,004
862	0,667	1.136,672		-	-	-
		-	10,000	13,610	22.735,280	27.282,336
863	0,694	1.137,366		-	-	-
		-	10,000	13,980	22.749,260	27.299,112
864	0,704	1.138,070		-	-	-
		-	10,000	14,030	22.763,290	27.315,948
865	0,699	1.138,769		-	-	-
		-	10,000	13,720	22.777,010	27.332,412
866	0,673	1.139,442		-	-	-
		-	10,000	13,040	22.790,050	27.348,060
867	0,631	1.140,073		-	-	-
		-	10,000	12,040	22.802,090	27.362,508
868	0,573	1.140,646		-	-	-
		-	10,000	10,730	22.812,820	27.375,384
869	0,500	1.141,146		-	-	-
		-	10,000	10,730	22.823,550	27.388,260
870	0,573	1.141,719		-	-	-
		-	10,000	12,040	22.835,590	27.402,708
871	0,631	1.142,350		-	-	-
		-	10,000	12,980	22.848,570	27.418,284
872	0,667	1.143,017		-	-	-
		-	10,000	13,610	22.862,180	27.434,616
873	0,694	1.143,711		-	-	-
		-	10,000	13,880	22.876,060	27.451,272
874	0,694	1.144,405		-	-	-

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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	13,770	22.889,830	27.467,796
875	0,683	1.145,088		-	-	-
		-	10,000	13,350	22.903,180	27.483,816
876	0,652	1.145,740		-	-	-
		-	10,000	12,560	22.915,740	27.498,888
877	0,604	1.146,344		-	-	-
		-	10,000	11,460	22.927,200	27.512,640
878	0,542	1.146,886		-	-	-
		-	10,000	10,260	22.937,460	27.524,952
879	0,484	1.147,370		-	-	-
		-	10,000	9,320	22.946,780	27.536,136
880	0,448	1.147,818		-	-	-
		-	10,000	8,700	22.955,480	27.546,576
881	0,422	1.148,240		-	-	-
		-	10,000	8,340	22.963,820	27.556,584
882	0,412	1.148,652		-	-	-
		-	10,000	8,290	22.972,110	27.566,532
883	0,417	1.149,069		-	-	-
		-	10,000	8,550	22.980,660	27.576,792
884	0,438	1.149,507		-	-	-
		-	10,000	9,070	22.989,730	27.587,676
885	0,469	1.149,976		-	-	-
		-	10,000	9,900	22.999,630	27.599,556
886	0,521	1.150,497		-	-	-
		-	10,000	9,690	23.009,320	27.611,184
887	0,448	1.150,945		-	-	-
		-	10,000	8,440	23.017,760	27.621,312
888	0,396	1.151,341		-	-	-
		-	10,000	7,510	23.025,270	27.630,324
889	0,355	1.151,696		-	-	-
		-	10,000	6,840	23.032,110	27.638,532
890	0,329	1.152,025		-	-	-
		-	10,000	6,480	23.038,590	27.646,308
891	0,319	1.152,344		-	-	-
		-	10,000	6,380	23.044,970	27.653,964
892	0,319	1.152,663		-	-	-
		-	10,000	6,590	23.051,560	27.661,872
893	0,340	1.153,003		-	-	-
		-	10,000	7,160	23.058,720	27.670,464
894	0,376	1.153,379		-	-	-
		-	10,000	7,980	23.066,700	27.680,040
895	0,422	1.153,801		-	-	-
		-	10,000	9,060	23.075,760	27.690,912
896	0,484	1.154,285		-	-	-
		-	10,000	9,630	23.085,390	27.702,468

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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)
897	0,479	1.154,764		-	-	-
		-	10,000	9,690	23.095,080	27.714,096
898	0,490	1.155,254		-	-	-
		-	10,000	10,060	23.105,140	27.726,168
899	0,516	1.155,770		-	-	-
		-	10,000	9,900	23.115,040	27.738,048
900	0,474	1.156,244		-	-	-
		-	10,000	9,220	23.124,260	27.749,112
901	0,448	1.156,692		-	-	-
		-	10,000	8,800	23.133,060	27.759,672
902	0,432	1.157,124		-	-	-
		-	10,000	8,640	23.141,700	27.770,040
903	0,432	1.157,556		-	-	-
		-	10,000	8,850	23.150,550	27.780,660
904	0,453	1.158,009		-	-	-
		-	10,000	9,370	23.159,920	27.791,904
905	0,484	1.158,493		-	-	-
		-	10,000	10,150	23.170,070	27.804,084
906	0,531	1.159,024		-	-	-
		-	10,000	9,890	23.179,960	27.815,952
907	0,458	1.159,482		-	-	-
		-	10,000	8,540	23.188,500	27.826,200
908	0,396	1.159,878		-	-	-
		-	10,000	7,510	23.196,010	27.835,212
909	0,355	1.160,233		-	-	-
		-	10,000	6,790	23.202,800	27.843,360
910	0,324	1.160,557		-	-	-
		-	10,000	6,380	23.209,180	27.851,016
911	0,314	1.160,871		-	-	-
		-	10,000	6,280	23.215,460	27.858,552
912	0,314	1.161,185		-	-	-
		-	10,000	6,430	23.221,890	27.866,268
913	0,329	1.161,514		-	-	-
		-	10,000	6,890	23.228,780	27.874,536
914	0,360	1.161,874		-	-	-
		-	10,000	7,670	23.236,450	27.883,740
915	0,407	1.162,281		-	-	-
		-	10,000	8,710	23.245,160	27.894,192
916	0,464	1.162,745		-	-	-
		-	10,000	10,060	23.255,220	27.906,264
917	0,542	1.163,287		-	-	-
		-	10,000	11,570	23.266,790	27.920,148
918	0,615	1.163,902		-	-	-
		-	10,000	12,880	23.279,670	27.935,604
919	0,673	1.164,575		-	-	-

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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	13,830	23.293,500	27.952,200
920	0,710	1.165,285		-	-	-
		-	10,000	14,360	23.307,860	27.969,432
921	0,726	1.166,011		-	-	-
		-	10,000	14,520	23.322,380	27.986,856
922	0,726	1.166,737		-	-	-
		-	10,000	14,300	23.336,680	28.004,016
923	0,704	1.167,441		-	-	-
		-	10,000	13,710	23.350,390	28.020,468
924	0,667	1.168,108		-	-	-
		-	10,000	12,770	23.363,160	28.035,792
925	0,610	1.168,718		-	-	-
		-	10,000	11,460	23.374,620	28.049,544
926	0,536	1.169,254		-	-	-
		-	10,000	11,670	23.386,290	28.063,548
927	0,631	1.169,885		-	-	-
		-	10,000	13,350	23.399,640	28.079,568
928	0,704	1.170,589		-	-	-
		-	10,000	14,670	23.414,310	28.097,172
929	0,763	1.171,352		-	-	-
		-	10,000	15,630	23.429,940	28.115,928
930	0,800	1.172,152		-	-	-
		-	10,000	16,160	23.446,100	28.135,320
931	0,816	1.172,968		-	-	-
		-	10,000	16,320	23.462,420	28.154,904
932	0,816	1.173,784		-	-	-
		-	10,000	16,160	23.478,580	28.174,296
933	0,800	1.174,584		-	-	-
		-	10,000	15,570	23.494,150	28.192,980
934	0,757	1.175,341		-	-	-
		-	10,000	14,560	23.508,710	28.210,452
935	0,699	1.176,040		-	-	-
		-	10,000	13,240	23.521,950	28.226,340
936	0,625	1.176,665		-	-	-
		-	10,000	11,560	23.533,510	28.240,212
937	0,531	1.177,196		-	-	-
		-	10,000	11,460	23.544,970	28.253,964
938	0,615	1.177,811		-	-	-
		-	10,000	12,980	23.557,950	28.269,540
939	0,683	1.178,494		-	-	-
		-	10,000	14,190	23.572,140	28.286,568
940	0,736	1.179,230		-	-	-
		-	10,000	14,990	23.587,130	28.304,556
941	0,763	1.179,993		-	-	-
		-	10,000	15,360	23.602,490	28.322,988

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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)
942	0,773	1.180,766		-	-	-
		-	10,000	15,410	23.617,900	28.341,480
943	0,768	1.181,534		-	-	-
		-	10,000	15,090	23.632,990	28.359,588
944	0,741	1.182,275		-	-	-
		-	10,000	14,350	23.647,340	28.376,808
945	0,694	1.182,969		-	-	-
		-	10,000	13,250	23.660,590	28.392,708
946	0,631	1.183,600		-	-	-
		-	10,000	11,780	23.672,370	28.406,844
947	0,547	1.184,147		-	-	-
		-	10,000	12,730	23.685,100	28.422,120
948	0,726	1.184,873		-	-	-
		-	10,000	16,160	23.701,260	28.441,512
949	0,890	1.185,763		-	-	-
		-	10,000	19,260	23.720,520	28.464,624
950	1,036	1.186,799		-	-	-
		-	10,000	22,020	23.742,540	28.491,048
951	1,166	1.187,965		-	-	-
		-	10,000	32,500	23.775,040	28.530,048
952	2,084	1.190,049		-	-	-
		-	10,000	69,440	23.844,480	28.613,376
953	4,860	1.194,909		-	-	-
		-	10,000	127,130	23.971,610	28.765,932
954	7,853	1.202,762		-	-	-
		-	10,000	163,650	24.135,260	28.962,312
955	8,512	1.211,274		-	-	-
		-	10,000	151,870	24.287,130	29.144,556
956	6,675	1.217,949		-	-	-
		-	10,000	95,300	24.382,430	29.258,916
957	2,855	1.220,804		-	-	-
		-	10,000	35,910	24.418,340	29.302,008
958	0,736	1.221,540		-	-	-
		-	10,000	14,350	24.432,690	29.319,228
959	0,699	1.222,239		-	-	-
		-	10,000	13,820	24.446,510	29.335,812
960	0,683	1.222,922		-	-	-
		-	10,000	13,660	24.460,170	29.352,204
961	0,683	1.223,605		-	-	-
		-	10,000	13,820	24.473,990	29.368,788
962	0,699	1.224,304		-	-	-
		-	10,000	13,030	24.487,020	29.384,424
963	0,604	1.224,908		-	-	-
		-	10,000	11,300	24.498,320	29.397,984
964	0,526	1.225,434		-	-	-

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Prefeitura Municipal de Caracará

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	9,900	24.508,220	29.409,864
965	0,464	1.225,898		-	-	-
		-	10,000	8,860	24.517,080	29.420,496
966	0,422	1.226,320		-	-	-
		-	10,000	8,230	24.525,310	29.430,372
967	0,401	1.226,721		-	-	-
		-	10,000	7,970	24.533,280	29.439,936
968	0,396	1.227,117		-	-	-
		-	10,000	8,030	24.541,310	29.449,572
969	0,407	1.227,524		-	-	-
		-	10,000	8,500	24.549,810	29.459,772
970	0,443	1.227,967		-	-	-
		-	10,000	9,380	24.559,190	29.471,028
971	0,495	1.228,462		-	-	-
		-	10,000	10,570	24.569,760	29.483,712
972	0,562	1.229,024		-	-	-
		-	10,000	10,460	24.580,220	29.496,264
973	0,484	1.229,508		-	-	-
		-	10,000	9,110	24.589,330	29.507,196
974	0,427	1.229,935		-	-	-
		-	10,000	8,130	24.597,460	29.516,952
975	0,386	1.230,321		-	-	-
		-	10,000	7,510	24.604,970	29.525,964
976	0,365	1.230,686		-	-	-
		-	10,000	7,250	24.612,220	29.534,664
977	0,360	1.231,046		-	-	-
		-	10,000	7,360	24.619,580	29.543,496
978	0,376	1.231,422		-	-	-
		-	10,000	7,880	24.627,460	29.552,952
979	0,412	1.231,834		-	-	-
		-	10,000	8,760	24.636,220	29.563,464
980	0,464	1.232,298		-	-	-
		-	10,000	9,950	24.646,170	29.575,404
981	0,531	1.232,829		-	-	-
		-	10,000	10,410	24.656,580	29.587,896
982	0,510	1.233,339		-	-	-
		-	10,000	10,150	24.666,730	29.600,076
983	0,505	1.233,844		-	-	-
		-	10,000	10,210	24.676,940	29.612,328
984	0,516	1.234,360		-	-	-
		-	10,000	9,900	24.686,840	29.624,208
985	0,474	1.234,834		-	-	-
		-	10,000	9,270	24.696,110	29.635,332
986	0,453	1.235,287		-	-	-
		-	10,000	9,010	24.705,120	29.646,144

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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)
987	0,448	1.235,735		-	-	-
		-	10,000	9,060	24.714,180	29.657,016
988	0,458	1.236,193		-	-	-
		-	10,000	9,530	24.723,710	29.668,452
989	0,495	1.236,688		-	-	-
		-	10,000	9,480	24.733,190	29.679,828
990	0,453	1.237,141		-	-	-
		-	10,000	8,800	24.741,990	29.690,388
991	0,427	1.237,568		-	-	-
		-	10,000	8,490	24.750,480	29.700,576
992	0,422	1.237,990		-	-	-
		-	10,000	8,600	24.759,080	29.710,896
993	0,438	1.238,428		-	-	-
		-	10,000	9,070	24.768,150	29.721,780
994	0,469	1.238,897		-	-	-
		-	10,000	9,690	24.777,840	29.733,408
995	0,500	1.239,397		-	-	-
		-	10,000	10,100	24.787,940	29.745,528
996	0,510	1.239,907		-	-	-
		-	10,000	10,100	24.798,040	29.757,648
997	0,500	1.240,407		-	-	-
		-	10,000	9,690	24.807,730	29.769,276
998	0,469	1.240,876		-	-	-
		-	10,000	10,210	24.817,940	29.781,528
999	0,552	1.241,428		-	-	-
		-	10,000	11,670	24.829,610	29.795,532
1000	0,615	1.242,043		-	-	-
		-	10,000	12,720	24.842,330	29.810,796
1001	0,657	1.242,700		-	-	-
		-	10,000	13,350	24.855,680	29.826,816
1002	0,678	1.243,378		-	-	-
		-	10,000	13,560	24.869,240	29.843,088
1003	0,678	1.244,056		-	-	-
		-	10,000	13,350	24.882,590	29.859,108
1004	0,657	1.244,713		-	-	-
		-	10,000	12,720	24.895,310	29.874,372
1005	0,615	1.245,328		-	-	-
		-	10,000	11,670	24.906,980	29.888,376
1006	0,552	1.245,880		-	-	-
		-	10,000	10,210	24.917,190	29.900,628
1007	0,469	1.246,349		-	-	-
		-	10,000	9,900	24.927,090	29.912,508
1008	0,521	1.246,870		-	-	-
		-	10,000	10,730	24.937,820	29.925,384
1009	0,552	1.247,422		-	-	-

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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	11,140	24.948,960	29.938,752
1010	0,562	1.247,984		-	-	-
		-	10,000	11,140	24.960,100	29.952,120
1011	0,552	1.248,536		-	-	-
		-	10,000	10,730	24.970,830	29.964,996
1012	0,521	1.249,057		-	-	-
		-	10,000	10,940	24.981,770	29.978,124
1013	0,573	1.249,630		-	-	-
		-	10,000	11,770	24.993,540	29.992,248
1014	0,604	1.250,234		-	-	-
		-	10,000	12,190	25.005,730	30.006,876
1015	0,615	1.250,849		-	-	-
		-	10,000	12,190	25.017,920	30.021,504
1016	0,604	1.251,453		-	-	-
		-	10,000	11,770	25.029,690	30.035,628
1017	0,573	1.252,026		-	-	-
		-	10,000	10,940	25.040,630	30.048,756
1018	0,521	1.252,547		-	-	-
		-	10,000	11,150	25.051,780	30.062,136
1019	0,594	1.253,141		-	-	-
		-	10,000	12,400	25.064,180	30.077,016
1020	0,646	1.253,787		-	-	-
		-	10,000	13,240	25.077,420	30.092,904
1021	0,678	1.254,465		-	-	-
		-	10,000	13,670	25.091,090	30.109,308
1022	0,689	1.255,154		-	-	-
		-	10,000	13,670	25.104,760	30.125,712
1023	0,678	1.255,832		-	-	-
		-	10,000	13,240	25.118,000	30.141,600
1024	0,646	1.256,478		-	-	-
		-	10,000	12,400	25.130,400	30.156,480
1025	0,594	1.257,072		-	-	-
		-	10,000	11,150	25.141,550	30.169,860
1026	0,521	1.257,593		-	-	-
		-	10,000	10,730	25.152,280	30.182,736
1027	0,552	1.258,145		-	-	-
		-	10,000	11,140	25.163,420	30.196,104
1028	0,562	1.258,707		-	-	-
		-	10,000	11,140	25.174,560	30.209,472
1029	0,552	1.259,259		-	-	-
		-	10,000	10,730	25.185,290	30.222,348
1030	0,521	1.259,780		-	-	-
		-	10,000	14,870	25.200,160	30.240,192
1031	0,966	1.260,746		-	-	-
		-	10,000	34,480	25.234,640	30.281,568

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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)
1032	2,482	1.263,228		-	-	-
		-	10,000	78,580	25.313,220	30.375,864
1033	5,376	1.268,604		-	-	-
		-	10,000	135,650	25.448,870	30.538,644
1034	8,189	1.276,793		-	-	-
		-	10,000	169,580	25.618,450	30.742,140
1035	8,769	1.285,562		-	-	-
		-	10,000	157,280	25.775,730	30.930,876
1036	6,959	1.292,521		-	-	-
		-	10,000	101,870	25.877,600	31.053,120
1037	3,228	1.295,749		-	-	-
		-	10,000	43,130	25.920,730	31.104,876
1038	1,085	1.296,834		-	-	-
		-	10,000	20,130	25.940,860	31.129,032
1039	0,928	1.297,762		-	-	-
		-	10,000	17,120	25.957,980	31.149,576
1040	0,784	1.298,546		-	-	-
		-	10,000	14,410	25.972,390	31.166,868
1041	0,657	1.299,203		-	-	-
		-	10,000	11,990	25.984,380	31.181,256
1042	0,542	1.299,745		-	-	-
		-	10,000	9,800	25.994,180	31.193,016
1043	0,438	1.300,183		-	-	-
		-	10,000	7,880	26.002,060	31.202,472
1044	0,350	1.300,533		-	-	-
		-	10,000	6,280	26.008,340	31.210,008
1045	0,278	1.300,811		-	-	-
		-	10,000	4,900	26.013,240	31.215,888
1046	0,212	1.301,023		-	-	-
		-	10,000	3,830	26.017,070	31.220,484
1047	0,171	1.301,194		-	-	-
		-	10,000	3,120	26.020,190	31.224,228
1048	0,141	1.301,335		-	-	-
		-	10,000	2,670	26.022,860	31.227,432
1049	0,126	1.301,461		-	-	-
		-	10,000	2,470	26.025,330	31.230,396
1050	0,121	1.301,582		-	-	-
		-	10,000	2,520	26.027,850	31.233,420
1051	0,131	1.301,713		-	-	-
		-	10,000	2,770	26.030,620	31.236,744
1052	0,146	1.301,859		-	-	-
		-	10,000	3,270	26.033,890	31.240,668
1053	0,181	1.302,040		-	-	-
		-	10,000	4,030	26.037,920	31.245,504
1054	0,222	1.302,262		-	-	-

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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	4,390	26.042,310	31.250,772
1055	0,217	1.302,479		-	-	-
		-	10,000	4,390	26.046,700	31.256,040
1056	0,222	1.302,701		-	-	-
		-	10,000	4,640	26.051,340	31.261,608
1057	0,242	1.302,943		-	-	-
		-	10,000	5,150	26.056,490	31.267,788
1058	0,273	1.303,216		-	-	-
		-	10,000	5,920	26.062,410	31.274,892
1059	0,319	1.303,535		-	-	-
		-	10,000	7,310	26.069,720	31.283,664
1060	0,412	1.303,947		-	-	-
		-	10,000	9,330	26.079,050	31.294,860
1061	0,521	1.304,468		-	-	-
		-	10,000	19,630	26.098,680	31.318,416
1062	1,442	1.305,910		-	-	-
		-	10,000	56,930	26.155,610	31.386,732
1063	4,251	1.310,161		-	-	-
		-	10,000	116,460	26.272,070	31.526,484
1064	7,395	1.317,556		-	-	-
		-	10,000	157,300	26.429,370	31.715,244
1065	8,335	1.325,891		-	-	-
		-	10,000	151,550	26.580,920	31.897,104
1066	6,820	1.332,711		-	-	-
		-	10,000	100,730	26.681,650	32.017,980
1067	3,253	1.335,964		-	-	-
		-	10,000	41,860	26.723,510	32.068,212
1068	0,933	1.336,897		-	-	-
		-	10,000	14,070	26.737,580	32.085,096
1069	0,474	1.337,371		-	-	-
		-	10,000	7,420	26.745,000	32.094,000
1070	0,268	1.337,639		-	-	-
		-	10,000	5,770	26.750,770	32.100,924
1071	0,309	1.337,948		-	-	-
		-	10,000	7,930	26.758,700	32.110,440
1072	0,484	1.338,432		-	-	-
		-	10,000	9,060	26.767,760	32.121,312
1073	0,422	1.338,854		-	-	-
		-	10,000	8,030	26.775,790	32.130,948
1074	0,381	1.339,235		-	-	-
		-	10,000	7,310	26.783,100	32.139,720
1075	0,350	1.339,585		-	-	-
		-	10,000	6,900	26.790,000	32.148,000
1076	0,340	1.339,925		-	-	-
		-	10,000	6,850	26.796,850	32.156,220

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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)
1077	0,345	1.340,270		-	-	-
		-	10,000	7,050	26.803,900	32.164,680
1078	0,360	1.340,630		-	-	-
		-	10,000	7,560	26.811,460	32.173,752
1079	0,396	1.341,026		-	-	-
		-	10,000	8,440	26.819,900	32.183,880
1080	0,448	1.341,474		-	-	-
		-	10,000	9,640	26.829,540	32.195,448
1081	0,516	1.341,990		-	-	-
		-	10,000	9,640	26.839,180	32.207,016
1082	0,448	1.342,438		-	-	-
		-	10,000	8,490	26.847,670	32.217,204
1083	0,401	1.342,839		-	-	-
		-	10,000	7,710	26.855,380	32.226,456
1084	0,370	1.343,209		-	-	-
		-	10,000	7,250	26.862,630	32.235,156
1085	0,355	1.343,564		-	-	-
		-	10,000	7,100	26.869,730	32.243,676
1086	0,355	1.343,919		-	-	-
		-	10,000	7,250	26.876,980	32.252,376
1087	0,370	1.344,289		-	-	-
		-	10,000	7,710	26.884,690	32.261,628
1088	0,401	1.344,690		-	-	-
		-	10,000	8,490	26.893,180	32.271,816
1089	0,448	1.345,138		-	-	-
		-	10,000	9,580	26.902,760	32.283,312
1090	0,510	1.345,648		-	-	-
		-	10,000	9,630	26.912,390	32.294,868
1091	0,453	1.346,101		-	-	-
		-	10,000	8,650	26.921,040	32.305,248
1092	0,412	1.346,513		-	-	-
		-	10,000	7,980	26.929,020	32.314,824
1093	0,386	1.346,899		-	-	-
		-	10,000	7,670	26.936,690	32.324,028
1094	0,381	1.347,280		-	-	-
		-	10,000	7,670	26.944,360	32.333,232
1095	0,386	1.347,666		-	-	-
		-	10,000	7,930	26.952,290	32.342,748
1096	0,407	1.348,073		-	-	-
		-	10,000	8,500	26.960,790	32.352,948
1097	0,443	1.348,516		-	-	-
		-	10,000	9,430	26.970,220	32.364,264
1098	0,500	1.349,016		-	-	-
		-	10,000	9,530	26.979,750	32.375,700
1099	0,453	1.349,469		-	-	-

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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	8,750	26.988,500	32.386,200
1100	0,422	1.349,891		-	-	-
		-	10,000	8,340	26.996,840	32.396,208
1101	0,412	1.350,303		-	-	-
		-	10,000	8,240	27.005,080	32.406,096
1102	0,412	1.350,715		-	-	-
		-	10,000	8,440	27.013,520	32.416,224
1103	0,432	1.351,147		-	-	-
		-	10,000	8,960	27.022,480	32.426,976
1104	0,464	1.351,611		-	-	-
		-	10,000	9,590	27.032,070	32.438,484
1105	0,495	1.352,106		-	-	-
		-	10,000	10,420	27.042,490	32.450,988
1106	0,547	1.352,653		-	-	-
		-	10,000	11,250	27.053,740	32.464,488
1107	0,578	1.353,231		-	-	-
		-	10,000	11,610	27.065,350	32.478,420
1108	0,583	1.353,814		-	-	-
		-	10,000	11,560	27.076,910	32.492,292
1109	0,573	1.354,387		-	-	-
		-	10,000	11,090	27.088,000	32.505,600
1110	0,536	1.354,923		-	-	-
		-	10,000	10,150	27.098,150	32.517,780
1111	0,479	1.355,402		-	-	-
		-	10,000	10,000	27.108,150	32.529,780
1112	0,521	1.355,923		-	-	-
		-	10,000	10,570	27.118,720	32.542,464
1113	0,536	1.356,459		-	-	-
		-	10,000	10,670	27.129,390	32.555,268
1114	0,531	1.356,990		-	-	-
		-	10,000	10,360	27.139,750	32.567,700
1115	0,505	1.357,495		-	-	-
		-	10,000	10,570	27.150,320	32.580,384
1116	0,552	1.358,047		-	-	-
		-	10,000	11,250	27.161,570	32.593,884
1117	0,573	1.358,620		-	-	-
		-	10,000	11,510	27.173,080	32.607,696
1118	0,578	1.359,198		-	-	-
		-	10,000	11,350	27.184,430	32.621,316
1119	0,557	1.359,755		-	-	-
		-	10,000	10,780	27.195,210	32.634,252
1120	0,521	1.360,276		-	-	-
		-	10,000	11,040	27.206,250	32.647,500
1121	0,583	1.360,859		-	-	-
		-	10,000	12,080	27.218,330	32.661,996

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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)
1122	0,625	1.361,484		-	-	-
		-	10,000	12,710	27.231,040	32.677,248
1123	0,646	1.362,130		-	-	-
		-	10,000	12,920	27.243,960	32.692,752
1124	0,646	1.362,776		-	-	-
		-	10,000	12,710	27.256,670	32.708,004
1125	0,625	1.363,401		-	-	-
		-	10,000	12,080	27.268,750	32.722,500
1126	0,583	1.363,984		-	-	-
		-	10,000	11,040	27.279,790	32.735,748
1127	0,521	1.364,505		-	-	-
		-	10,000	10,890	27.290,680	32.748,816
1128	0,568	1.365,073		-	-	-
		-	10,000	11,670	27.302,350	32.762,820
1129	0,599	1.365,672		-	-	-
		-	10,000	12,030	27.314,380	32.777,256
1130	0,604	1.366,276		-	-	-
		-	10,000	11,980	27.326,360	32.791,632
1131	0,594	1.366,870		-	-	-
		-	10,000	11,510	27.337,870	32.805,444
1132	0,557	1.367,427		-	-	-
		-	10,000	10,570	27.348,440	32.818,128
1133	0,500	1.367,927		-	-	-
		-	10,000	10,780	27.359,220	32.831,064
1134	0,578	1.368,505		-	-	-
		-	10,000	12,140	27.371,360	32.845,632
1135	0,636	1.369,141		-	-	-
		-	10,000	13,030	27.384,390	32.861,268
1136	0,667	1.369,808		-	-	-
		-	10,000	13,500	27.397,890	32.877,468
1137	0,683	1.370,491		-	-	-
		-	10,000	13,610	27.411,500	32.893,800
1138	0,678	1.371,169		-	-	-
		-	10,000	13,240	27.424,740	32.909,688
1139	0,646	1.371,815		-	-	-
		-	10,000	12,450	27.437,190	32.924,628
1140	0,599	1.372,414		-	-	-
		-	10,000	11,250	27.448,440	32.938,128
1141	0,526	1.372,940		-	-	-
		-	10,000	9,580	27.458,020	32.949,624
1142	0,432	1.373,372		-	-	-
		-	10,000	7,510	27.465,530	32.958,636
1143	0,319	1.373,691		-	-	-
		-	10,000	5,660	27.471,190	32.965,428
1144	0,247	1.373,938		-	-	-

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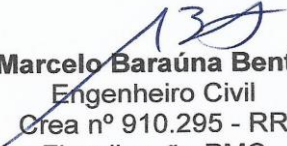
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Prefeitura Municipal de Caracaraí

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	5,300	27.476,490	32.971,788
1145	0,283	1.374,221		-	-	-
		-	10,000	6,280	27.482,770	32.979,324
1146	0,345	1.374,566		-	-	-
		-	10,000	7,150	27.489,920	32.987,904
1147	0,370	1.374,936		-	-	-
		-	10,000	7,300	27.497,220	32.996,664
1148	0,360	1.375,296		-	-	-
		-	10,000	6,640	27.503,860	33.004,632
1149	0,304	1.375,600		-	-	-
		-	10,000	5,160	27.509,020	33.010,824
1150	0,212	1.375,812			-	-

ÁREA DEGRADADA A SER RECUPERADA					
Volume Explorado (m³)	Camada Explorada (m)	Volume de Regularização (m³)			
		Larg. (m)	Comp. (m)	Altura (m)	Volume (m³)
31.635,37	1,00	177,86	177,86	0,20	6.326,00


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

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