

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
0	5,783		0,000						
		10,274		-	10,00	102,740	102,740	0,000	0,000
1	4,491		-						
		7,001	-	-	5,00	35,005	137,745	0,000	0,000
1+10,000	2,510		-						
		3,759	-	-	5,00	18,795	156,540	0,000	0,000
2	1,249		-						
		4,698	-	-	10,00	46,980	203,520	0,000	0,000
3	3,449		-						
		4,572	-	0,208	10,00	45,720	249,240	2,080	2,080
4	1,123		0,208	-					
		1,650	-	0,486	10,00	16,500	265,740	4,860	6,940
5	0,527		0,279	-					
		0,799	-	0,629	10,00	7,990	273,730	6,290	13,230
6	0,272		0,351	-					
		0,456	-	0,421	10,00	4,560	278,290	4,210	17,440
7	0,184		0,070	-					
		0,955	-	1,653	10,00	9,550	287,840	16,530	33,970
8	0,771		1,583	-					
		0,869	-	15,013	10,00	8,690	296,530	150,130	184,100
9	0,098		13,431	-					
		0,772	-	14,175	10,00	7,720	304,250	141,750	325,850
10	0,674		0,745	-					
		2,560	-	0,745	10,00	25,600	329,850	7,450	333,300
11	1,886		-						
		3,439	-	-	10,00	34,390	364,240	0,000	333,300
12	1,553		-						
		7,721	-	-	10,00	77,210	441,450	0,000	333,300
13	6,168		-						
		12,763	-	-	1,01	12,827	454,277	0,000	333,300
13+2,009	6,595		-						
		12,604	-	-	9,00	113,386	567,662	0,000	333,300
14	6,009		-						
		7,887	-	-	10,00	78,870	646,532	0,000	333,300
15	1,878		-						
		2,387	-	0,252	10,00	23,870	670,402	2,520	335,820
16	0,509		0,252	-					
		0,710	-	3,961	10,00	7,100	677,502	39,610	375,430
17	0,201		3,710	-					
		0,201	-	10,763	10,00	2,010	679,512	107,630	483,060
18	0,000		7,054	-					
		0,000	-	14,304	10,00	0,000	679,512	143,040	626,100
19	0,000		7,250	-					
		0,000	-	13,408	10,00	0,000	679,512	134,080	760,180
20	0,000		6,159	-					
		0,100	-	8,822	10,00	1,000	680,512	88,220	848,400
21	0,100		2,664	-					
		1,155	-	2,663	10,00	11,550	692,062	26,630	875,030
22	1,055		-						
		2,809	-	0,048	10,00	28,090	720,152	0,480	875,510
23	1,754		0,049	-					
		2,751	-	1,658	10,00	27,510	747,662	16,580	892,090
24	0,997		1,610	-					
		2,209	-	2,416	10,00	22,090	769,752	24,160	916,250
25	1,212		0,806	-					
		1,848	-	2,827	10,00	18,480	788,232	28,270	944,520
26	0,636		2,022	-					
		0,699	-	2,975	10,00	6,990	795,222	29,750	974,270
27	0,063		0,954	-					
		0,170	-	1,832	10,00	1,700	796,922	18,320	992,590

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
28	0,107		0,878	-					
		1,252	-	0,927	10,00	12,520	809,442	9,270	1.001,860
29	1,145		0,049	-					
		1,794	-	0,089	10,00	17,940	827,382	0,890	1.002,750
30	0,649		0,041	-					
		0,681	-	1,575	10,00	6,810	834,192	15,750	1.018,500
31	0,032		1,535	-					
		0,116	-	3,884	10,00	1,160	835,352	38,840	1.057,340
32	0,084		2,350	-					
		0,089	-	6,164	10,00	0,890	836,242	61,640	1.118,980
33	0,005		3,814	-					
		0,015	-	6,642	10,00	0,150	836,392	66,420	1.185,400
34	0,010		2,828	-					
		0,026	-	5,422	6,92	0,180	836,572	37,541	1.222,941
34+13,848	0,016		2,595	-					
		0,122	-	3,595	3,08	0,375	836,948	11,058	1.233,999
35	0,106		1,001	-					
		3,468	-	1,000	10,00	34,680	871,628	10,000	1.243,999
36	3,362		-	-					
		4,152	-	0,082	10,00	41,520	913,148	0,820	1.244,819
37	0,790		0,083	-					
		1,905	-	0,299	10,00	19,050	932,198	2,990	1.247,809
38	1,115		0,216	-					
		2,077	-	0,220	10,00	20,770	952,968	2,200	1.250,009
39	0,962		0,005	-					
		1,856	-	0,186	10,00	18,560	971,528	1,860	1.251,869
40	0,894		0,182	-					
		2,518	-	0,181	10,00	25,180	996,708	1,810	1.253,679
41	1,624		-	-					
		6,812	-	-	10,00	68,120	1.064,828	0,000	1.253,679
42	5,188		-	-					
		10,897	-	-	10,00	108,970	1.173,798	0,000	1.253,679
43	5,709		-	-					
		8,709	-	-	10,00	87,090	1.260,888	0,000	1.253,679
44	3,000		-	-					
		5,242	-	-	10,00	52,420	1.313,308	0,000	1.253,679
45	2,242		-	-					
		3,770	-	-	10,00	37,700	1.351,008	0,000	1.253,679
46	1,528		-	-					
		2,121	-	0,696	10,00	21,210	1.372,218	6,960	1.260,639
47	0,593		0,697	-					
		1,042	-	1,077	10,00	10,420	1.382,638	10,770	1.271,409
48	0,449		0,381	-					
		1,162	-	0,878	10,00	11,620	1.394,258	8,780	1.280,189
49	0,713		0,498	-					
		3,366	-	0,497	10,00	33,660	1.427,918	4,970	1.285,159
50	2,653		-	-					
		3,230	-	0,704	10,00	32,300	1.460,218	7,040	1.292,199
51	0,577		0,705	-					
		0,836	-	1,766	10,00	8,360	1.468,578	17,660	1.309,859
52	0,259		1,062	-					
		0,308	-	2,663	10,00	3,080	1.471,658	26,630	1.336,489
53	0,049		1,602	-					
		0,098	-	2,550	10,00	0,980	1.472,638	25,500	1.361,989
54	0,049		0,949	-					
		0,760	-	1,013	10,00	7,600	1.480,238	10,130	1.372,119
55	0,711		0,064	-					
		3,101	-	0,064	10,00	31,010	1.511,248	0,640	1.372,759
56	2,390		-	-					
		5,852	-	-	10,00	58,520	1.569,768	0,000	1.372,759
57	3,462		-	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		7,472	-	-	10,00	74,720	1.644,488	0,000	1.372,759
58	4,010		-	-					
		8,818	-	-	10,00	88,180	1.732,668	0,000	1.372,759
59	4,808		-	-					
		10,881	-	-	10,00	108,810	1.841,478	0,000	1.372,759
60	6,073		-	-					
		15,434	-	-	10,00	154,340	1.995,818	0,000	1.372,759
61	9,361		-	-					
		23,995	-	-	10,00	239,950	2.235,768	0,000	1.372,759
62	14,634		-	-					
		29,307	-	-	0,08	2,198	2.237,966	0,000	1.372,759
62+0,149	14,673		-	-					
		35,969	-	-	9,93	357,028	2.594,994	0,000	1.372,759
63	21,296		-	-					
		49,986	-	-	10,00	499,860	3.094,854	0,000	1.372,759
64	28,690		-	-					
		65,935	-	-	10,00	659,350	3.754,204	0,000	1.372,759
65	37,245		-	-					
		66,915	-	-	10,00	669,150	4.423,354	0,000	1.372,759
66	29,670		-	-					
		58,552	-	-	10,00	585,520	5.008,874	0,000	1.372,759
67	28,882		-	-					
		56,354	-	-	5,58	314,399	5.323,273	0,000	1.372,759
67+11,158	27,472		-	-					
		62,915	-	-	4,42	278,147	5.601,420	0,000	1.372,759
68	35,443		-	-					
		89,866	-	-	6,37	572,267	6.173,687	0,000	1.372,759
68+12,736	54,423		-	-					
		124,044	-	-	3,63	450,528	6.624,215	0,000	1.372,759
69	69,621		-	-					
		123,071	-	-	10,00	1.230,710	7.854,925	0,000	1.372,759
70	53,450		-	-					
		74,256	-	4,887	10,00	742,560	8.597,485	48,870	1.421,629
71	20,806		4,887	-					
		23,609	-	29,141	10,00	236,090	8.833,575	291,410	1.713,039
72	2,803		24,254	-					
		5,649	-	50,988	10,00	56,490	8.890,065	509,880	2.222,919
73	2,846		26,734	-					
		2,846	-	59,697	9,80	27,888	8.917,953	584,970	2.807,889
73+19,598	0,000		32,963	-					
		0,000	-	65,723	0,20	0,000	8.917,953	13,210	2.821,099
74	0,000		32,760	-					
		0,191	-	48,215	10,00	1,910	8.919,863	482,150	3.303,249
75	0,191		15,455	-					
		0,770	-	26,511	10,00	7,700	8.927,563	265,110	3.568,359
76	0,579		11,057	-					
		0,691	-	19,684	10,00	6,910	8.934,473	196,840	3.765,199
77	0,112		8,628	-					
		0,112	-	36,091	10,00	1,120	8.935,593	360,910	4.126,109
78	0,000		27,464	-					
		0,010	-	42,075	10,00	0,100	8.935,693	420,750	4.546,859
79	0,010		14,611	-					
		0,011	-	28,384	5,98	0,066	8.935,758	169,679	4.716,538
79+11,955	0,001		13,773	-					
		0,001	-	27,947	4,02	0,004	8.935,762	112,430	4.828,968
80	0,000		14,174	-					
		0,000	-	49,123	10,00	0,000	8.935,762	491,230	5.320,198
81	0,000		34,949	-					
		0,000	-	101,176	10,00	0,000	8.935,762	1.011,760	6.331,958
82	0,000		66,227	-					
		0,000	-	162,882	10,00	0,000	8.935,762	1.628,820	7.960,778

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
83	0,000		96,656	-					
		0,000	-	170,242	10,00	0,000	8.935,762	1.702,420	9.663,198
84	0,000		73,587	-					
		0,000	-	120,588	10,00	0,000	8.935,762	1.205,880	10.869,078
85	0,000		47,001	-					
		0,000	-	73,289	7,00	0,000	8.935,762	512,949	11.382,027
85+13,997	0,000		26,288	-					
		0,000	-	44,563	3,00	0,000	8.935,762	133,778	11.515,805
86	0,000		18,275	-					
		1,548	-	19,369	10,00	15,480	8.951,242	193,690	11.709,495
87	1,548		1,095	-					
		14,687	-	1,094	10,00	146,870	9.098,112	10,940	11.720,435
88	13,139		-	-					
		25,968	-	-	0,71	18,463	9.116,576	0,000	11.720,435
88+1,421	12,829		-	-					
		22,085	-	1,345	9,29	205,170	9.321,745	12,495	11.732,930
89	9,256		1,345	-					
		11,275	-	10,331	10,00	112,750	9.434,495	103,310	11.836,240
90	2,019		8,987	-					
		2,019	-	26,953	10,00	20,190	9.454,685	269,530	12.105,770
91	0,000		17,967	-					
		0,000	-	40,312	10,00	0,000	9.454,685	403,120	12.508,890
92	0,000		22,345	-					
		0,000	-	48,153	8,63	0,000	9.454,685	415,753	12.924,643
92+17,268	0,000		25,809	-					
		0,000	-	50,889	1,37	0,000	9.454,685	69,514	12.994,157
93	0,000		25,081	-					
		0,000	-	48,293	5,00	0,000	9.454,685	241,223	13.235,380
93+9,989	0,000		23,213	-					
		0,000	-	44,918	5,01	0,000	9.454,685	224,859	13.460,239
94	0,000		21,706	-					
		0,005	-	40,434	10,00	0,050	9.454,735	404,340	13.864,579
95	0,005		18,728	-					
		0,360	-	27,564	10,00	3,600	9.458,335	275,640	14.140,219
96	0,355		8,836	-					
		0,386	-	21,959	10,00	3,860	9.462,195	219,590	14.359,809
97	0,031		13,124	-					
		0,058	-	32,443	10,00	0,580	9.462,775	324,430	14.684,239
98	0,027		19,320	-					
		0,159	-	39,970	1,73	0,275	9.463,050	69,148	14.753,387
98+3,460	0,132		20,651	-					
		0,436	-	25,927	8,27	3,606	9.466,656	214,416	14.967,803
99	0,304		5,277	-					
		0,387	-	21,057	10,00	3,870	9.470,526	210,570	15.178,373
100	0,083		15,781	-					
		0,204	-	31,978	10,00	2,040	9.472,566	319,780	15.498,153
101	0,121		16,197	-					
		0,135	-	29,054	10,00	1,350	9.473,916	290,540	15.788,693
102	0,014		12,857	-					
		0,671	-	21,887	10,00	6,710	9.480,626	218,870	16.007,563
103	0,657		9,030	-					
		4,360	-	9,404	10,00	43,600	9.524,226	94,040	16.101,603
104	3,703		0,374	-					
		16,791	-	0,374	10,00	167,910	9.692,136	3,740	16.105,343
105	13,088		-	-					
		26,009	-	-	10,00	260,090	9.952,226	0,000	16.105,343
106	12,921		-	-					
		21,738	-	-	10,00	217,380	10.169,606	0,000	16.105,343
107	8,817		-	-					
		13,250	-	0,054	10,00	132,500	10.302,106	0,540	16.105,883
108	4,433		0,055	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		4,434	-	4,475	10,00	44,340	10.346,446	44,750	16.150,633
109	0,001		4,420	-					
		0,001	-	10,276	10,00	0,010	10.346,456	102,760	16.253,393
110	0,000		5,856	-					
		0,000	-	17,891	10,00	0,000	10.346,456	178,910	16.432,303
111	0,000		12,035	-					
		0,000	-	27,902	10,00	0,000	10.346,456	279,020	16.711,323
112	0,000		15,867	-					
		0,000	-	35,247	10,00	0,000	10.346,456	352,470	17.063,793
113	0,000		19,381	-					
		0,000	-	35,802	10,00	0,000	10.346,456	358,020	17.421,813
114	0,000		16,421	-					
		0,000	-	35,932	5,76	0,000	10.346,456	206,968	17.628,781
114+11,520	0,000		19,511	-					
		0,000	-	35,348	4,24	0,000	10.346,456	149,875	17.778,656
115	0,000		15,837	-					
		0,000	-	41,118	10,00	0,000	10.346,456	411,180	18.189,836
116	0,000		25,281	-					
		0,122	-	45,311	10,00	1,220	10.347,676	453,110	18.642,946
117	0,122		20,031	-					
		0,389	-	36,987	10,00	3,890	10.351,566	369,870	19.012,816
118	0,267		16,957	-					
		0,697	-	34,356	10,00	6,970	10.358,536	343,560	19.356,376
119	0,430		17,400	-					
		0,430	-	31,992	10,00	4,300	10.362,836	319,920	19.676,296
120	0,000		14,592	-					
		1,838	-	27,235	10,00	18,380	10.381,216	272,350	19.948,646
121	1,838		12,643	-					
		3,910	-	24,609	6,85	26,780	10.407,996	168,547	20.117,193
121+13,698	2,072		11,966	-					
		4,199	-	22,332	3,15	13,231	10.421,227	70,368	20.187,561
122	2,127		10,366	-					
		2,127	-	23,251	10,00	21,270	10.442,497	232,510	20.420,071
123	0,000		12,886	-					
		0,000	-	27,341	7,21	0,000	10.442,497	196,991	20.617,062
123+14,410	0,000		14,456	-					
		0,000	-	29,101	2,80	0,000	10.442,497	81,337	20.698,399
124	0,000		14,646	-					
		0,000	-	28,322	10,00	0,000	10.442,497	283,220	20.981,619
125	0,000		13,676	-					
		0,025	-	19,052	10,00	0,250	10.442,747	190,520	21.172,139
126	0,025		5,376	-					
		3,362	-	8,526	10,00	33,620	10.476,367	85,260	21.257,399
127	3,337		3,151	-					
		3,337	-	13,496	10,00	33,370	10.509,737	134,960	21.392,359
128	0,000		10,346	-					
		2,242	-	14,437	10,00	22,420	10.532,157	144,370	21.536,729
129	2,242		4,092	-					
		12,151	-	6,352	10,00	121,510	10.653,667	63,520	21.600,249
130	9,909		2,261	-					
		17,004	-	3,780	5,58	94,831	10.748,498	21,081	21.621,330
130+11,154	7,095		1,519	-					
		9,668	-	2,506	4,42	42,762	10.791,260	11,084	21.632,414
131	2,573		0,988	-					
		4,465	-	12,284	10,00	44,650	10.835,910	122,840	21.755,254
132	1,892		11,296	-					
		1,892	-	36,954	5,53	10,468	10.846,378	204,466	21.959,720
132+11,066	0,000		25,659	-					
		0,000	-	56,005	4,47	0,000	10.846,378	250,174	22.209,894
133	0,000		30,347	-					
		0,000	-	74,999	10,00	0,000	10.846,378	749,990	22.959,884

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
134	0,000		44,653	-					
		0,000	-	119,161	10,00	0,000	10.846,378	1.191,610	24.151,494
135	0,000		74,509	-					
		0,000	-	126,206	10,00	0,000	10.846,378	1.262,060	25.413,554
136	0,000		51,698	-					
		0,016	-	57,906	10,00	0,160	10.846,538	579,060	25.992,614
137	0,016		6,209	-					
		0,016	-	10,525	2,24	0,036	10.846,574	23,523	26.016,137
137+4,470	0,000		4,317	-					
		1,949	-	4,890	4,13	8,057	10.854,631	20,215	26.036,352
137+12,738	1,949		0,573	-					
		9,045	-	0,601	3,63	32,842	10.887,473	2,182	26.038,534
138	7,096		0,028	-					
		37,573	-	0,031	10,00	375,730	11.263,203	0,310	26.038,844
139	30,477		0,003	-					
		68,472	-	0,003	10,00	684,720	11.947,923	0,030	26.038,874
140	37,995		-	-					
		72,560	-	-	10,00	725,600	12.673,523	0,000	26.038,874
141	34,565		-	-					
		50,961	-	0,529	10,00	509,610	13.183,133	5,290	26.044,164
142	16,396		0,529	-					
		21,425	-	11,246	10,00	214,250	13.397,383	112,460	26.156,624
143	5,029		10,717	-					
		5,496	-	36,342	8,11	44,578	13.441,961	294,769	26.451,393
143+16,221	0,467		25,626	-					
		0,600	-	54,289	1,89	1,134	13.443,095	102,606	26.553,999
144	0,133		28,663	-					
		0,133	-	58,596	6,20	0,824	13.443,920	363,236	26.917,235
144+12,398	0,000		29,933	-					
		0,000	-	63,901	3,80	0,000	13.443,920	242,887	27.160,122
145	0,000		33,969	-					
		0,000	-	82,452	10,00	0,000	13.443,920	824,520	27.984,642
146	0,000		48,484	-					
		0,000	-	85,611	10,00	0,000	13.443,920	856,110	28.840,752
147	0,000		37,127	-					
		0,000	-	65,026	10,00	0,000	13.443,920	650,260	29.491,012
148	0,000		27,899	-					
		0,000	-	47,048	9,11	0,000	13.443,920	428,419	29.919,431
148+18,212	0,000		19,149	-					
		0,000	-	37,770	0,89	0,000	13.443,920	33,766	29.953,197
149	0,000		18,621	-					
		0,017	-	31,325	10,00	0,170	13.444,090	313,250	30.266,447
150	0,017		12,704	-					
		0,408	-	16,532	10,00	4,080	13.448,170	165,320	30.431,767
151	0,391		3,829	-					
		0,513	-	4,835	10,00	5,130	13.453,300	48,350	30.480,117
152	0,122		1,007	-					
		6,290	-	1,006	10,00	62,900	13.516,200	10,060	30.490,177
153	6,168		-	-					
		14,021	-	-	10,00	140,210	13.656,410	0,000	30.490,177
154	7,853		-	-					
		7,853	-	19,654	9,70	76,158	13.732,568	190,604	30.680,781
154+19,396	0,000		19,655	-					
		0,000	-	38,692	0,30	0,000	13.732,568	11,684	30.692,465
155	0,000		19,038	-					
		0,000	-	52,798	10,00	0,000	13.732,568	527,980	31.220,445
156	0,000		33,760	-					
		0,000	-	97,576	10,00	0,000	13.732,568	975,760	32.196,205
157	0,000		63,816	-					
		0,000	-	139,494	10,00	0,000	13.732,568	1.394,940	33.591,145
158	0,000		75,679	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	144,552	10,00	0,000	13.732,568	1.445,520	35.036,665
159	0,000		68,874	-					
		0,000	-	123,482	10,00	0,000	13.732,568	1.234,820	36.271,485
160	0,000		54,608	-					
		0,000	-	104,334	4,64	0,000	13.732,568	484,214	36.755,699
160+9,282	0,000		49,726	-					
		0,000	-	88,586	5,36	0,000	13.732,568	474,732	37.230,431
161	0,000		38,860	-					
		0,000	-	55,181	10,00	0,000	13.732,568	551,810	37.782,241
162	0,000		16,321	-					
		0,000	-	34,632	10,00	0,000	13.732,568	346,320	38.128,561
163	0,000		18,311	-					
		0,000	-	42,018	10,00	0,000	13.732,568	420,180	38.548,741
164	0,000		23,707	-					
		0,000	-	41,962	10,00	0,000	13.732,568	419,620	38.968,361
165	0,000		18,255	-					
		0,000	-	40,974	10,00	0,000	13.732,568	409,740	39.378,101
166	0,000		22,719	-					
		0,000	-	48,603	10,00	0,000	13.732,568	486,030	39.864,131
167	0,000		25,884	-					
		0,000	-	47,654	10,00	0,000	13.732,568	476,540	40.340,671
168	0,000		21,770	-					
		0,000	-	43,197	10,00	0,000	13.732,568	431,970	40.772,641
169	0,000		21,428	-					
		0,000	-	44,957	10,00	0,000	13.732,568	449,570	41.222,211
170	0,000		23,530	-					
		0,000	-	45,628	10,00	0,000	13.732,568	456,280	41.678,491
171	0,000		22,098	-					
		0,000	-	51,337	10,00	0,000	13.732,568	513,370	42.191,861
172	0,000		29,240	-					
		0,000	-	64,285	10,00	0,000	13.732,568	642,850	42.834,711
173	0,000		35,046	-					
		0,000	-	79,952	4,68	0,000	13.732,568	373,935	43.208,646
173+9,353	0,000		44,906	-					
		0,000	-	92,828	5,32	0,000	13.732,568	494,216	43.702,862
174	0,000		47,922	-					
		0,000	-	108,033	10,00	0,000	13.732,568	1.080,330	44.783,192
175	0,000		60,111	-					
		0,000	-	130,439	10,00	0,000	13.732,568	1.304,390	46.087,582
176	0,000		70,328	-					
		0,000	-	127,919	10,00	0,000	13.732,568	1.279,190	47.366,772
177	0,000		57,592	-					
		0,000	-	108,697	10,00	0,000	13.732,568	1.086,970	48.453,742
178	0,000		51,106	-					
		0,000	-	95,257	6,59	0,000	13.732,568	627,743	49.081,485
178+13,180	0,000		44,152	-					
		0,000	-	75,232	3,41	0,000	13.732,568	256,541	49.338,026
179	0,000		31,081	-					
		0,000	-	60,017	10,00	0,000	13.732,568	600,170	49.938,196
180	0,000		28,936	-					
		0,822	-	29,720	10,00	8,220	13.740,788	297,200	50.235,396
181	0,822		0,785	-					
		3,417	-	1,011	10,00	34,170	13.774,958	10,110	50.245,506
182	2,595		0,227	-					
		5,787	-	0,227	10,00	57,870	13.832,828	2,270	50.247,776
183	3,192		-	-					
		5,313	-	-	5,15	27,362	13.860,190	0,000	50.247,776
183+10,300	2,121		-	-					
		5,077	-	-	4,85	24,623	13.884,814	0,000	50.247,776
184	2,956		-	-					
		3,979	-	0,955	10,00	39,790	13.924,604	9,550	50.257,326

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
185	1,023		0,955	-					
		2,319	-	6,816	10,00	23,190	13.947,794	68,160	50.325,486
186	1,296		5,861	-					
		1,296	-	23,045	10,00	12,960	13.960,754	230,450	50.555,936
187	0,000		17,184	-					
		0,000	-	22,767	10,00	0,000	13.960,754	227,670	50.783,606
188	0,000		5,584	-					
		0,000	-	27,055	3,10	0,000	13.960,754	83,978	50.867,584
188+6,207	0,000		21,471	-					
		0,340	-	29,457	6,90	2,345	13.963,099	203,164	51.070,748
189	0,340		7,986	-					
		2,071	-	8,228	10,00	20,710	13.983,809	82,280	51.153,028
190	1,731		0,243	-					
		14,058	-	0,242	10,00	140,580	14.124,389	2,420	51.155,448
191	12,327		-	-					
		26,644	-	-	10,00	266,440	14.390,829	0,000	51.155,448
192	14,317		-	-					
		14,317	-	19,492	10,00	143,170	14.533,999	194,920	51.350,368
193	0,000		19,492	-					
		0,000	-	84,530	10,00	0,000	14.533,999	845,300	52.195,668
194	0,000		65,039	-					
		0,000	-	94,338	10,00	0,000	14.533,999	943,380	53.139,048
195	0,000		29,299	-					
		27,782	-	29,299	10,00	277,820	14.811,819	292,990	53.432,038
196	27,782		-	-					
		111,758	-	-	10,00	1.117,580	15.929,399	0,000	53.432,038
197	83,976		-	-					
		382,790	-	-	10,00	3.827,900	19.757,299	0,000	53.432,038
198	298,814		-	-					
		768,842	-	-	10,00	7.688,420	27.445,719	0,000	53.432,038
199	470,028		-	-					
		1166,621	-	-	10,00	11.666,210	39.111,929	0,000	53.432,038
200	696,593		-	-					
		1439,160	-	-	0,28	401,526	39.513,454	0,000	53.432,038
200+0,557	742,567		-	-					
		1577,806	-	-	9,72	15.339,430	54.852,884	0,000	53.432,038
201	835,239		-	-					
		1661,318	-	-	10,00	16.613,180	71.466,064	0,000	53.432,038
202	826,079		-	-					
		1519,929	-	-	10,00	15.199,290	86.665,354	0,000	53.432,038
203	693,850		-	-					
		1299,891	-	-	10,00	12.998,910	99.664,264	0,000	53.432,038
204	606,041		-	-					
		816,617	-	-	10,00	8.166,170	107.830,434	0,000	53.432,038
205	210,576		-	-					
		249,325	-	-	10,00	2.493,250	110.323,684	0,000	53.432,038
206	38,749		-	-					
		41,712	-	3,875	10,00	417,120	110.740,804	38,750	53.470,788
207	2,963		3,876	-					
		2,963	-	28,862	10,00	29,630	110.770,434	288,620	53.759,408
208	0,000		24,987	-					
		0,000	-	35,337	6,44	0,000	110.770,434	227,393	53.986,801
208+12,869	0,000		10,350	-					
		0,000	-	36,624	3,57	0,000	110.770,434	130,601	54.117,402
209	0,000		26,274	-					
		0,000	-	45,031	10,00	0,000	110.770,434	450,310	54.567,712
210	0,000		18,758	-					
		0,642	-	30,625	10,00	6,420	110.776,854	306,250	54.873,962
211	0,642		11,868	-					
		2,566	-	18,012	10,00	25,660	110.802,514	180,120	55.054,082
212	1,924		6,145	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		3,981	-	12,193	0,12	0,494	110.803,008	1,511	55.055,593
212+0,248	2,057		6,049	-					
		5,123	-	9,365	9,88	50,595	110.853,603	92,488	55.148,081
213	3,066		3,317	-					
		3,460	-	13,180	10,00	34,600	110.888,203	131,800	55.279,881
214	0,394		9,863	-					
		1,534	-	25,461	10,00	15,340	110.903,543	254,610	55.534,491
215	1,140		15,598	-					
		3,358	-	36,699	10,00	33,580	110.937,123	366,990	55.901,481
216	2,218		21,102	-					
		7,986	-	44,683	10,00	79,860	111.016,983	446,830	56.348,311
217	5,768		23,582	-					
		13,795	-	45,875	10,00	137,950	111.154,933	458,750	56.807,061
218	8,027		22,293	-					
		10,651	-	48,811	10,00	106,510	111.261,443	488,110	57.295,171
219	2,624		26,518	-					
		4,474	-	33,732	10,00	44,740	111.306,183	337,320	57.632,491
220	1,850		7,214	-					
		2,301	-	16,587	10,00	23,010	111.329,193	165,870	57.798,361
221	0,451		9,373	-					
		11,044	-	9,373	10,00	110,440	111.439,633	93,730	57.892,091
222	10,593		-	-					
		25,024	-	-	1,85	46,269	111.485,902	0,000	57.892,091
222+3,697	14,431		-	-					
		36,673	-	-	8,15	298,958	111.784,860	0,000	57.892,091
223	22,242		-	-					
		89,029	-	-	10,00	890,290	112.675,150	0,000	57.892,091
224	66,787		-	-					
		153,919	-	-	10,00	1.539,190	114.214,340	0,000	57.892,091
225	87,132		-	-					
		166,715	-	-	10,00	1.667,150	115.881,490	0,000	57.892,091
226	79,583		-	-					
		201,780	-	-	10,00	2.017,800	117.899,290	0,000	57.892,091
227	122,197		-	-					
		280,142	-	-	10,00	2.801,420	120.700,710	0,000	57.892,091
228	157,945		-	-					
		365,213	-	-	10,00	3.652,130	124.352,840	0,000	57.892,091
229	207,268		-	-					
		357,174	-	-	10,00	3.571,740	127.924,580	0,000	57.892,091
230	149,906		-	-					
		385,314	-	-	10,00	3.853,140	131.777,720	0,000	57.892,091
231	235,408		-	-					
		519,472	-	-	10,00	5.194,720	136.972,440	0,000	57.892,091
232	284,064		-	-					
		578,196	-	-	10,00	5.781,960	142.754,400	0,000	57.892,091
233	294,132		-	-					
		561,908	-	-	10,00	5.619,080	148.373,480	0,000	57.892,091
234	267,776		-	-					
		485,973	-	-	10,00	4.859,730	153.233,210	0,000	57.892,091
235	218,197		-	-					
		321,897	-	-	10,00	3.218,970	156.452,180	0,000	57.892,091
236	103,700		-	-					
		169,072	-	-	10,00	1.690,720	158.142,900	0,000	57.892,091
237	65,372		-	-					
		104,891	-	-	10,00	1.048,910	159.191,810	0,000	57.892,091
238	39,519		-	-					
		68,826	-	-	10,00	688,260	159.880,070	0,000	57.892,091
239	29,307		-	-					
		78,248	-	-	10,00	782,480	160.662,550	0,000	57.892,091
240	48,941		-	-					
		104,069	-	-	10,00	1.040,690	161.703,240	0,000	57.892,091

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
241	55,128		-	-					
		113,999	-	-	10,00	1.139,990	162.843,230	0,000	57.892,091
242	58,871		-	-					
		111,361	-	-	5,49	611,038	163.454,268	0,000	57.892,091
242+10,973	52,490		-	-					
		100,617	-	-	4,51	454,185	163.908,453	0,000	57.892,091
243	48,127		-	-					
		89,984	-	-	10,00	899,840	164.808,293	0,000	57.892,091
244	41,857		-	-					
		94,025	-	-	10,00	940,250	165.748,543	0,000	57.892,091
245	52,168		-	-					
		113,985	-	-	10,00	1.139,850	166.888,393	0,000	57.892,091
246	61,817		-	-					
		126,611	-	-	10,00	1.266,110	168.154,503	0,000	57.892,091
247	64,794		-	-					
		136,727	-	-	10,00	1.367,270	169.521,773	0,000	57.892,091
248	71,933		-	-					
		156,999	-	-	10,00	1.569,990	171.091,763	0,000	57.892,091
249	85,066		-	-					
		169,457	-	-	2,65	449,569	171.541,333	0,000	57.892,091
249+5,305	84,391		-	-					
		168,134	-	-	7,35	1.235,449	172.776,781	0,000	57.892,091
250	83,743		-	-					
		156,830	-	-	10,00	1.568,300	174.345,081	0,000	57.892,091
251	73,087		-	-					
		133,745	-	-	10,00	1.337,450	175.682,531	0,000	57.892,091
252	60,658		-	-					
		111,976	-	-	10,00	1.119,760	176.802,291	0,000	57.892,091
253	51,318		-	-					
		92,943	-	-	3,34	310,708	177.113,000	0,000	57.892,091
253+6,686	41,625		-	-					
		72,606	-	-	6,66	483,338	177.596,338	0,000	57.892,091
254	30,981		-	-					
		50,611	-	-	10,00	506,110	178.102,448	0,000	57.892,091
255	19,630		-	-					
		31,702	-	-	10,00	317,020	178.419,468	0,000	57.892,091
256	12,072		-	-					
		18,543	-	-	10,00	185,430	178.604,898	0,000	57.892,091
257	6,471		-	-					
		8,627	-	0,034	10,00	86,270	178.691,168	0,340	57.892,431
258	2,156		0,034	-					
		2,156	-	1,410	10,00	21,560	178.712,728	14,100	57.906,531
259	0,000		1,376	-					
		0,000	-	5,023	4,85	0,000	178.712,728	24,366	57.930,897
259+9,702	0,000		3,647	-					
		0,000	-	8,189	5,15	0,000	178.712,728	42,165	57.973,062
260	0,000		4,543	-					
		0,000	-	9,171	10,00	0,000	178.712,728	91,710	58.064,772
261	0,000		4,629	-					
		0,000	-	9,614	10,00	0,000	178.712,728	96,140	58.160,912
262	0,000		4,986	-					
		0,000	-	10,533	10,00	0,000	178.712,728	105,330	58.266,242
263	0,000		5,548	-					
		0,000	-	11,275	10,00	0,000	178.712,728	112,750	58.378,992
264	0,000		5,728	-					
		0,000	-	11,100	10,00	0,000	178.712,728	111,000	58.489,992
265	0,000		5,373	-					
		0,000	-	10,821	10,00	0,000	178.712,728	108,210	58.598,202
266	0,000		5,449	-					
		0,000	-	12,771	10,00	0,000	178.712,728	127,710	58.725,912
267	0,000		7,322	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	14,089	10,00	0,000	178.712,728	140,890	58.866,802
268	0,000		6,768	-					
		0,000	-	15,610	10,00	0,000	178.712,728	156,100	59.022,902
269	0,000		8,843	-					
		0,000	-	20,328	10,00	0,000	178.712,728	203,280	59.226,182
270	0,000		11,486	-					
		0,000	-	24,822	6,37	0,000	178.712,728	157,992	59.384,174
270+12,730	0,000		13,337	-					
		0,000	-	26,825	3,64	0,000	178.712,728	97,508	59.481,682
271	0,000		13,488	-					
		0,000	-	25,101	10,00	0,000	178.712,728	251,010	59.732,692
272	0,000		11,613	-					
		0,000	-	19,562	10,00	0,000	178.712,728	195,620	59.928,312
273	0,000		7,950	-					
		0,000	-	13,219	10,00	0,000	178.712,728	132,190	60.060,502
274	0,000		5,269	-					
		0,000	-	9,739	10,00	0,000	178.712,728	97,390	60.157,892
275	0,000		4,471	-					
		0,000	-	9,592	10,00	0,000	178.712,728	95,920	60.253,812
276	0,000		5,122	-					
		0,000	-	10,954	10,00	0,000	178.712,728	109,540	60.363,352
277	0,000		5,833	-					
		0,000	-	12,544	10,00	0,000	178.712,728	125,440	60.488,792
278	0,000		6,711	-					
		0,000	-	13,641	10,00	0,000	178.712,728	136,410	60.625,202
279	0,000		6,931	-					
		0,000	-	13,613	10,00	0,000	178.712,728	136,130	60.761,332
280	0,000		6,683	-					
		0,000	-	14,683	10,00	0,000	178.712,728	146,830	60.908,162
281	0,000		8,000	-					
		0,000	-	17,011	10,00	0,000	178.712,728	170,110	61.078,272
282	0,000		9,012	-					
		0,000	-	19,488	10,00	0,000	178.712,728	194,880	61.273,152
283	0,000		10,477	-					
		0,000	-	21,566	10,00	0,000	178.712,728	215,660	61.488,812
284	0,000		11,090	-					
		0,000	-	19,811	10,00	0,000	178.712,728	198,110	61.686,922
285	0,000		8,722	-					
		0,000	-	18,970	10,00	0,000	178.712,728	189,700	61.876,622
286	0,000		10,249	-					
		0,000	-	24,131	10,00	0,000	178.712,728	241,310	62.117,932
287	0,000		13,883	-					
		0,000	-	24,971	10,00	0,000	178.712,728	249,710	62.367,642
288	0,000		11,088	-					
		0,000	-	21,270	10,00	0,000	178.712,728	212,700	62.580,342
289	0,000		10,183	-					
		0,000	-	18,738	10,00	0,000	178.712,728	187,380	62.767,722
290	0,000		8,556	-					
		0,000	-	16,764	10,00	0,000	178.712,728	167,640	62.935,362
291	0,000		8,208	-					
		0,000	-	18,118	10,00	0,000	178.712,728	181,180	63.116,542
292	0,000		9,910	-					
		0,000	-	20,185	2,93	0,000	178.712,728	59,202	63.175,744
292+5,865	0,000		10,275	-					
		0,000	-	21,944	7,07	0,000	178.712,728	155,100	63.330,844
293	0,000		11,669	-					
		0,000	-	23,674	10,00	0,000	178.712,728	236,740	63.567,584
294	0,000		12,006	-					
		0,000	-	24,543	10,00	0,000	178.712,728	245,430	63.813,014
295	0,000		12,538	-					
		0,000	-	25,545	10,00	0,000	178.712,728	255,450	64.068,464

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
296	0,000		13,008	-					
		0,000	-	27,800	10,00	0,000	178.712,728	278,000	64.346,464
297	0,000		14,793	-					
		0,000	-	34,117	10,00	0,000	178.712,728	341,170	64.687,634
298	0,000		19,325	-					
		0,000	-	36,965	10,00	0,000	178.712,728	369,650	65.057,284
299	0,000		17,641	-					
		0,000	-	33,738	10,00	0,000	178.712,728	337,380	65.394,664
300	0,000		16,097	-					
		0,000	-	30,973	10,00	0,000	178.712,728	309,730	65.704,394
301	0,000		14,876	-					
		0,000	-	27,490	10,00	0,000	178.712,728	274,900	65.979,294
302	0,000		12,615	-					
		0,000	-	23,223	10,00	0,000	178.712,728	232,230	66.211,524
303	0,000		10,609	-					
		0,000	-	20,978	1,95	0,000	178.712,728	40,970	66.252,494
303+3,906	0,000		10,369	-					
		0,000	-	19,407	8,05	0,000	178.712,728	156,168	66.408,662
304	0,000		9,038	-					
		0,148	-	17,559	10,00	1,480	178.714,208	175,590	66.584,252
305	0,148		8,522	-					
		0,148	-	16,134	10,00	1,480	178.715,688	161,340	66.745,592
306	0,000		7,613	-					
		0,053	-	11,858	10,00	0,530	178.716,218	118,580	66.864,172
307	0,053		4,245	-					
		0,204	-	6,930	10,00	2,040	178.718,258	69,300	66.933,472
308	0,151		2,685	-					
		0,477	-	5,059	3,71	1,767	178.720,025	18,743	66.952,215
308+7,409	0,326		2,374	-					
		0,940	-	4,184	6,30	5,918	178.725,943	26,342	66.978,557
309	0,614		1,810	-					
		2,486	-	2,701	10,00	24,860	178.750,803	27,010	67.005,567
310	1,872		0,891	-					
		3,104	-	3,169	10,00	31,040	178.781,843	31,690	67.037,257
311	1,232		2,278	-					
		1,272	-	8,250	10,00	12,720	178.794,563	82,500	67.119,757
312	0,040		5,972	-					
		0,040	-	15,907	6,61	0,264	178.794,828	105,081	67.224,838
312+13,211	0,000		9,936	-					
		0,000	-	22,689	3,40	0,000	178.794,828	77,029	67.301,867
313	0,000		12,754	-					
		0,000	-	30,409	10,00	0,000	178.794,828	304,090	67.605,957
314	0,000		17,655	-					
		0,000	-	31,383	10,00	0,000	178.794,828	313,830	67.919,787
315	0,000		13,728	-					
		0,158	-	20,475	10,00	1,580	178.796,408	204,750	68.124,537
316	0,158		6,747	-					
		1,534	-	9,966	10,00	15,340	178.811,748	99,660	68.224,197
317	1,376		3,219	-					
		3,458	-	4,588	10,00	34,580	178.846,328	45,880	68.270,077
318	2,082		1,369	-					
		3,517	-	2,297	10,00	35,170	178.881,498	22,970	68.293,047
319	1,435		0,929	-					
		1,435	-	5,040	10,00	14,350	178.895,848	50,400	68.343,447
320	0,000		4,112	-					
		0,000	-	9,857	2,03	0,000	178.895,848	20,029	68.363,476
320+4,063	0,000		5,745	-					
		0,000	-	18,267	7,97	0,000	178.895,848	145,569	68.509,045
321	0,000		12,522	-					
		0,000	-	31,057	10,00	0,000	178.895,848	310,570	68.819,615
322	0,000		18,535	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	36,384	9,02	0,000	178.895,848	328,147	69.147,762
322+18,038	0,000		17,849	-					
		0,000	-	34,873	0,98	0,000	178.895,848	34,210	69.181,972
323	0,000		17,024	-					
		0,375	-	29,715	10,00	3,750	178.899,598	297,150	69.479,122
324	0,375		12,691	-					
		1,676	-	23,597	10,00	16,760	178.916,358	235,970	69.715,092
325	1,301		10,906	-					
		3,086	-	20,945	10,00	30,860	178.947,218	209,450	69.924,542
326	1,785		10,039	-					
		3,947	-	18,421	10,00	39,470	178.986,688	184,210	70.108,752
327	2,162		8,382	-					
		3,243	-	14,542	10,00	32,430	179.019,118	145,420	70.254,172
328	1,081		6,160	-					
		1,387	-	8,706	10,00	13,870	179.032,988	87,060	70.341,232
329	0,306		2,546	-					
		0,306	-	4,541	10,00	3,060	179.036,048	45,410	70.386,642
330	0,000		1,995	-					
		0,000	-	7,621	10,00	0,000	179.036,048	76,210	70.462,852
331	0,000		5,626	-					
		0,000	-	11,742	2,59	0,000	179.036,048	30,376	70.493,228
331+5,173	0,000		6,116	-					
		0,000	-	14,537	7,41	0,000	179.036,048	107,777	70.601,005
332	0,000		8,421	-					
		0,000	-	20,256	10,00	0,000	179.036,048	202,560	70.803,565
333	0,000		11,835	-					
		0,000	-	25,688	10,00	0,000	179.036,048	256,880	71.060,445
334	0,000		13,853	-					
		0,000	-	29,043	10,00	0,000	179.036,048	290,430	71.350,875
335	0,000		15,191	-					
		0,000	-	27,313	10,00	0,000	179.036,048	273,130	71.624,005
336	0,000		12,123	-					
		0,000	-	23,425	10,00	0,000	179.036,048	234,250	71.858,255
337	0,000		11,303	-					
		0,000	-	20,813	10,00	0,000	179.036,048	208,130	72.066,385
338	0,000		9,511	-					
		0,000	-	17,655	10,00	0,000	179.036,048	176,550	72.242,935
339	0,000		8,144	-					
		0,000	-	15,906	10,00	0,000	179.036,048	159,060	72.401,995
340	0,000		7,762	-					
		0,032	-	15,196	10,00	0,320	179.036,368	151,960	72.553,955
341	0,032		7,435	-					
		0,032	-	14,911	10,00	0,320	179.036,688	149,110	72.703,065
342	0,000		7,477	-					
		0,153	-	15,040	10,00	1,530	179.038,218	150,400	72.853,465
343	0,153		7,563	-					
		0,275	-	16,004	10,00	2,750	179.040,968	160,040	73.013,505
344	0,122		8,442	-					
		0,302	-	16,368	10,00	3,020	179.043,988	163,680	73.177,185
345	0,180		7,926	-					
		0,671	-	15,162	10,00	6,710	179.050,698	151,620	73.328,805
346	0,491		7,236	-					
		1,205	-	13,466	8,84	10,656	179.061,353	119,079	73.447,884
346+17,685	0,714		6,231	-					
		1,457	-	12,357	1,16	1,687	179.063,041	14,309	73.462,193
347	0,743		6,127	-					
		1,897	-	11,731	10,00	18,970	179.082,011	117,310	73.579,503
348	1,154		5,604	-					
		2,176	-	10,801	10,00	21,760	179.103,771	108,010	73.687,513
349	1,022		5,197	-					
		2,177	-	9,926	10,00	21,770	179.125,541	99,260	73.786,773

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
350	1,155		4,729	-					
		2,180	-	9,107	10,00	21,800	179.147,341	91,070	73.877,843
351	1,025		4,378	-					
		1,501	-	8,225	10,00	15,010	179.162,351	82,250	73.960,093
352	0,476		3,847	-					
		1,069	-	6,398	6,59	7,040	179.169,391	42,137	74.002,230
352+13,172	0,593		2,551	-					
		1,530	-	5,136	3,41	5,223	179.174,615	17,534	74.019,764
353	0,937		2,585	-					
		2,749	-	5,720	10,00	27,490	179.202,105	57,200	74.076,964
354	1,812		3,135	-					
		3,315	-	7,127	6,50	21,544	179.223,649	46,318	74.123,282
354+12,997	1,503		3,993	-					
		3,424	-	8,408	3,50	11,991	179.235,640	29,444	74.152,726
355	1,921		4,416	-					
		2,011	-	11,621	10,00	20,110	179.255,750	116,210	74.268,936
356	0,090		7,206	-					
		0,090	-	17,028	10,00	0,900	179.256,650	170,280	74.439,216
357	0,000		9,823	-					
		0,000	-	20,083	10,00	0,000	179.256,650	200,830	74.640,046
358	0,000		10,261	-					
		0,501	-	17,691	10,00	5,010	179.261,660	176,910	74.816,956
359	0,501		7,430	-					
		2,147	-	13,950	10,00	21,470	179.283,130	139,500	74.956,456
360	1,646		6,520	-					
		1,975	-	14,066	0,36	0,701	179.283,831	4,993	74.961,449
360+0,710	0,329		7,546	-					
		0,695	-	12,700	9,65	6,703	179.290,534	122,491	75.083,940
361	0,366		5,155	-					
		0,722	-	10,496	10,00	7,220	179.297,754	104,960	75.188,900
362	0,356		5,341	-					
		0,673	-	11,106	10,00	6,730	179.304,484	111,060	75.299,960
363	0,317		5,766	-					
		0,435	-	12,761	10,00	4,350	179.308,834	127,610	75.427,570
364	0,118		6,996	-					
		0,182	-	14,626	10,00	1,820	179.310,654	146,260	75.573,830
365	0,064		7,631	-					
		0,064	-	15,798	10,00	0,640	179.311,294	157,980	75.731,810
366	0,000		8,168	-					
		0,043	-	16,587	10,00	0,430	179.311,724	165,870	75.897,680
367	0,043		8,420	-					
		0,043	-	17,647	10,00	0,430	179.312,154	176,470	76.074,150
368	0,000		9,228	-					
		0,000	-	18,699	10,00	0,000	179.312,154	186,990	76.261,140
369	0,000		9,472	-					
		0,000	-	19,845	10,00	0,000	179.312,154	198,450	76.459,590
370	0,000		10,374	-					
		0,000	-	27,783	10,00	0,000	179.312,154	277,830	76.737,420
371	0,000		17,409	-					
		0,000	-	49,170	10,00	0,000	179.312,154	491,700	77.229,120
372	0,000		31,761	-					
		0,000	-	87,391	10,00	0,000	179.312,154	873,910	78.103,030
373	0,000		55,631	-					
		0,000	-	113,515	10,00	0,000	179.312,154	1.135,150	79.238,180
374	0,000		57,884	-					
		0,000	-	125,459	10,00	0,000	179.312,154	1.254,590	80.492,770
375	0,000		67,576	-					
		0,000	-	124,545	10,00	0,000	179.312,154	1.245,450	81.738,220
376	0,000		56,970	-					
		0,017	-	94,328	10,00	0,170	179.312,324	943,280	82.681,500
377	0,017		37,359	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		3,512	-	49,531	10,00	35,120	179.347,444	495,310	83.176,810
378	3,495		12,173	-					
		3,867	-	26,215	10,00	38,670	179.386,114	262,150	83.438,960
379	0,372		14,043	-					
		0,372	-	49,380	10,00	3,720	179.389,834	493,800	83.932,760
380	0,000		35,337	-					
		0,000	-	79,446	9,41	0,000	179.389,834	747,586	84.680,346
380+18,820	0,000		44,109	-					
		0,000	-	88,398	0,59	0,000	179.389,834	52,154	84.732,500
381	0,000		44,289	-					
		0,000	-	89,939	10,00	0,000	179.389,834	899,390	85.631,890
382	0,000		45,650	-					
		0,000	-	94,430	10,00	0,000	179.389,834	944,300	86.576,190
383	0,000		48,780	-					
		0,000	-	104,426	10,00	0,000	179.389,834	1.044,260	87.620,450
384	0,000		55,647	-					
		0,000	-	111,672	10,00	0,000	179.389,834	1.116,720	88.737,170
385	0,000		56,026	-					
		0,000	-	105,328	10,00	0,000	179.389,834	1.053,280	89.790,450
386	0,000		49,303	-					
		0,000	-	81,313	10,00	0,000	179.389,834	813,130	90.603,580
387	0,000		32,010	-					
		0,000	-	54,343	10,00	0,000	179.389,834	543,430	91.147,010
388	0,000		22,334	-					
		0,000	-	43,965	10,00	0,000	179.389,834	439,650	91.586,660
389	0,000		21,631	-					
		0,299	-	27,634	10,00	2,990	179.392,824	276,340	91.863,000
390	0,299		6,004	-					
		9,010	-	6,053	10,00	90,100	179.482,924	60,530	91.923,530
391	8,711		0,050	-					
		25,142	-	0,050	10,00	251,420	179.734,344	0,500	91.924,030
392	16,431		-	-					
		32,196	-	-	10,00	321,960	180.056,304	0,000	91.924,030
393	15,765		-	-					
		28,060	-	-	10,00	280,600	180.336,904	0,000	91.924,030
394	12,295		-	-					
		18,141	-	-	10,00	181,410	180.518,314	0,000	91.924,030
395	5,846		-	-					
		10,908	-	-	10,00	109,080	180.627,394	0,000	91.924,030
396	5,062		-	-					
		6,353	-	0,833	10,00	63,530	180.690,924	8,330	91.932,360
397	1,291		0,833	-					
		1,605	-	4,724	10,00	16,050	180.706,974	47,240	91.979,600
398	0,314		3,891	-					
		0,496	-	9,976	10,00	4,960	180.711,934	99,760	92.079,360
399	0,182		6,085	-					
		0,231	-	12,074	10,00	2,310	180.714,244	120,740	92.200,100
400	0,049		5,989	-					
		0,049	-	11,665	10,00	0,490	180.714,734	116,650	92.316,750
401	0,000		5,676	-					
		0,000	-	10,885	10,00	0,000	180.714,734	108,850	92.425,600
402	0,000		5,210	-					
		0,000	-	9,409	10,00	0,000	180.714,734	94,090	92.519,690
403	0,000		4,200	-					
		0,000	-	8,095	10,00	0,000	180.714,734	80,950	92.600,640
404	0,000		3,896	-					
		0,000	-	8,161	10,00	0,000	180.714,734	81,610	92.682,250
405	0,000		4,265	-					
		0,000	-	10,945	10,00	0,000	180.714,734	109,450	92.791,700
406	0,000		6,680	-					
		0,000	-	13,823	10,00	0,000	180.714,734	138,230	92.929,930

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
407	0,000		7,144	-					
		0,000	-	12,866	10,00	0,000	180.714,734	128,660	93.058,590
408	0,000		5,723	-					
		0,000	-	11,221	10,00	0,000	180.714,734	112,210	93.170,800
409	0,000		5,498	-					
		0,000	-	12,270	10,00	0,000	180.714,734	122,700	93.293,500
410	0,000		6,772	-					
		0,000	-	15,276	10,00	0,000	180.714,734	152,760	93.446,260
411	0,000		8,504	-					
		0,000	-	18,065	10,00	0,000	180.714,734	180,650	93.626,910
412	0,000		9,561	-					
		0,000	-	19,957	7,45	0,000	180.714,734	148,699	93.775,609
412+14,901	0,000		10,396	-					
		0,000	-	21,129	2,55	0,000	180.714,734	53,878	93.829,487
413	0,000		10,734	-					
		0,000	-	22,799	10,00	0,000	180.714,734	227,990	94.057,477
414	0,000		12,065	-					
		0,000	-	24,863	10,00	0,000	180.714,734	248,630	94.306,107
415	0,000		12,798	-					
		0,000	-	26,768	10,00	0,000	180.714,734	267,680	94.573,787
416	0,000		13,971	-					
		0,000	-	30,110	10,00	0,000	180.714,734	301,100	94.874,887
417	0,000		16,140	-					
		0,000	-	28,317	8,44	0,000	180.714,734	239,080	95.113,967
417+16,885	0,000		12,178	-					
		0,000	-	23,788	1,56	0,000	180.714,734	37,061	95.151,028
418	0,000		11,611	-					
		0,000	-	21,562	10,00	0,000	180.714,734	215,620	95.366,648
419	0,000		9,951	-					
		0,000	-	17,506	10,00	0,000	180.714,734	175,060	95.541,708
420	0,000		7,555	-					
		0,000	-	13,737	10,00	0,000	180.714,734	137,370	95.679,078
421	0,000		6,182	-					
		0,000	-	14,456	10,00	0,000	180.714,734	144,560	95.823,638
422	0,000		8,274	-					
		0,000	-	17,661	10,00	0,000	180.714,734	176,610	96.000,248
423	0,000		9,387	-					
		0,000	-	18,276	10,00	0,000	180.714,734	182,760	96.183,008
424	0,000		8,890	-					
		0,002	-	16,203	10,00	0,020	180.714,754	162,030	96.345,038
425	0,002		7,314	-					
		0,016	-	13,082	10,00	0,160	180.714,914	130,820	96.475,858
426	0,014		5,769	-					
		0,014	-	11,825	10,00	0,140	180.715,054	118,250	96.594,108
427	0,000		6,057	-					
		0,000	-	12,193	10,00	0,000	180.715,054	121,930	96.716,038
428	0,000		6,137	-					
		0,000	-	12,904	10,00	0,000	180.715,054	129,040	96.845,078
429	0,000		6,768	-					
		0,000	-	14,703	10,00	0,000	180.715,054	147,030	96.992,108
430	0,000		7,936	-					
		0,000	-	17,014	10,00	0,000	180.715,054	170,140	97.162,248
431	0,000		9,079	-					
		0,000	-	17,768	10,00	0,000	180.715,054	177,680	97.339,928
432	0,000		8,689	-					
		0,000	-	18,682	10,00	0,000	180.715,054	186,820	97.526,748
433	0,000		9,993	-					
		0,000	-	20,192	10,00	0,000	180.715,054	201,920	97.728,668
434	0,000		10,199	-					
		0,000	-	19,258	10,00	0,000	180.715,054	192,580	97.921,248
435	0,000		9,060	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	18,951	10,00	0,000	180.715,054	189,510	98.110,758
436	0,000		9,892	-					
		0,000	-	19,924	10,00	0,000	180.715,054	199,240	98.309,998
437	0,000		10,033	-					
		0,000	-	21,084	10,00	0,000	180.715,054	210,840	98.520,838
438	0,000		11,052	-					
		0,000	-	22,066	10,00	0,000	180.715,054	220,660	98.741,498
439	0,000		11,014	-					
		0,000	-	22,313	10,00	0,000	180.715,054	223,130	98.964,628
440	0,000		11,299	-					
		0,000	-	23,059	10,00	0,000	180.715,054	230,590	99.195,218
441	0,000		11,760	-					
		0,000	-	23,853	10,00	0,000	180.715,054	238,530	99.433,748
442	0,000		12,093	-					
		0,000	-	24,570	10,00	0,000	180.715,054	245,700	99.679,448
443	0,000		12,477	-					
		0,000	-	25,620	10,00	0,000	180.715,054	256,200	99.935,648
444	0,000		13,144	-					
		0,000	-	27,503	10,00	0,000	180.715,054	275,030	100.210,678
445	0,000		14,359	-					
		0,000	-	29,540	10,00	0,000	180.715,054	295,400	100.506,078
446	0,000		15,181	-					
		0,000	-	29,898	10,00	0,000	180.715,054	298,980	100.805,058
447	0,000		14,718	-					
		0,000	-	29,371	10,00	0,000	180.715,054	293,710	101.098,768
448	0,000		14,654	-					
		0,000	-	29,938	10,00	0,000	180.715,054	299,380	101.398,148
449	0,000		15,285	-					
		0,000	-	29,574	10,00	0,000	180.715,054	295,740	101.693,888
450	0,000		14,290	-					
		0,000	-	28,109	10,00	0,000	180.715,054	281,090	101.974,978
451	0,000		13,819	-					
		0,000	-	27,979	10,00	0,000	180.715,054	279,790	102.254,768
452	0,000		14,160	-					
		0,000	-	28,275	10,00	0,000	180.715,054	282,750	102.537,518
453	0,000		14,115	-					
		0,000	-	28,722	10,00	0,000	180.715,054	287,220	102.824,738
454	0,000		14,608	-					
		0,000	-	29,297	10,00	0,000	180.715,054	292,970	103.117,708
455	0,000		14,690	-					
		0,000	-	28,928	10,00	0,000	180.715,054	289,280	103.406,988
456	0,000		14,239	-					
		0,000	-	28,423	10,00	0,000	180.715,054	284,230	103.691,218
457	0,000		14,185	-					
		0,000	-	28,007	10,00	0,000	180.715,054	280,070	103.971,288
458	0,000		13,822	-					
		0,000	-	28,120	10,00	0,000	180.715,054	281,200	104.252,488
459	0,000		14,298	-					
		0,000	-	28,444	10,00	0,000	180.715,054	284,440	104.536,928
460	0,000		14,146	-					
		0,000	-	28,279	10,00	0,000	180.715,054	282,790	104.819,718
461	0,000		14,134	-					
		0,000	-	28,229	10,00	0,000	180.715,054	282,290	105.102,008
462	0,000		14,096	-					
		0,000	-	29,095	10,00	0,000	180.715,054	290,950	105.392,958
463	0,000		15,000	-					
		0,000	-	28,711	10,00	0,000	180.715,054	287,110	105.680,068
464	0,000		13,712	-					
		0,000	-	26,403	10,00	0,000	180.715,054	264,030	105.944,098
465	0,000		12,691	-					
		0,000	-	24,814	10,00	0,000	180.715,054	248,140	106.192,238

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
466	0,000		12,123	-					
		0,000	-	22,988	10,00	0,000	180.715,054	229,880	106.422,118
467	0,000		10,866	-					
		0,000	-	20,511	10,00	0,000	180.715,054	205,110	106.627,228
468	0,000		9,646	-					
		0,000	-	21,319	10,00	0,000	180.715,054	213,190	106.840,418
469	0,000		11,674	-					
		0,000	-	22,316	10,00	0,000	180.715,054	223,160	107.063,578
470	0,000		10,643	-					
		0,000	-	21,544	10,00	0,000	180.715,054	215,440	107.279,018
471	0,000		10,902	-					
		0,000	-	22,212	10,00	0,000	180.715,054	222,120	107.501,138
472	0,000		11,310	-					
		0,000	-	20,682	9,23	0,000	180.715,054	190,915	107.692,053
472+18,462	0,000		9,372	-					
		0,000	-	18,586	0,77	0,000	180.715,054	14,292	107.706,345
473	0,000		9,215	-					
		0,000	-	17,916	10,00	0,000	180.715,054	179,160	107.885,505
474	0,000		8,702	-					
		0,035	-	16,059	10,00	0,350	180.715,404	160,590	108.046,095
475	0,035		7,358	-					
		0,092	-	13,832	10,00	0,920	180.716,324	138,320	108.184,415
476	0,057		6,475	-					
		0,057	-	13,674	10,00	0,570	180.716,894	136,740	108.321,155
477	0,000		7,200	-					
		0,587	-	12,968	10,00	5,870	180.722,764	129,680	108.450,835
478	0,587		5,769	-					
		1,318	-	11,515	3,15	4,146	180.726,910	36,226	108.487,061
478+6,291	0,731		5,747	-					
		0,923	-	10,262	6,86	6,327	180.733,238	70,346	108.557,407
479	0,192		4,516	-					
		0,288	-	10,513	10,00	2,880	180.736,118	105,130	108.662,537
480	0,096		5,997	-					
		0,101	-	14,459	10,00	1,010	180.737,128	144,590	108.807,127
481	0,005		8,462	-					
		0,005	-	21,270	10,00	0,050	180.737,178	212,700	109.019,827
482	0,000		12,809	-					
		0,000	-	28,661	10,00	0,000	180.737,178	286,610	109.306,437
483	0,000		15,853	-					
		0,000	-	31,865	4,87	0,000	180.737,178	155,118	109.461,555
483+9,735	0,000		16,013	-					
		0,000	-	31,958	5,13	0,000	180.737,178	164,040	109.625,595
484	0,000		15,945	-					
		0,000	-	30,301	10,00	0,000	180.737,178	303,010	109.928,605
485	0,000		14,356	-					
		0,000	-	27,575	10,00	0,000	180.737,178	275,750	110.204,355
486	0,000		13,219	-					
		0,000	-	21,591	10,00	0,000	180.737,178	215,910	110.420,265
487	0,000		8,373	-					
		0,550	-	13,360	10,00	5,500	180.742,678	133,600	110.553,865
488	0,550		4,987	-					
		0,550	-	9,858	10,00	5,500	180.748,178	98,580	110.652,445
489	0,000		4,871	-					
		0,222	-	8,264	3,61	0,802	180.748,980	29,866	110.682,311
489+7,228	0,222		3,393	-					
		1,546	-	6,085	6,39	9,873	180.758,853	38,858	110.721,169
490	1,324		2,692	-					
		1,324	-	5,283	10,00	13,240	180.772,093	52,830	110.773,999
491	0,000		2,592	-					
		0,000	-	5,435	2,52	0,000	180.772,093	13,685	110.787,684
491+5,036	0,000		2,844	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	5,220	7,48	0,000	180.772,093	39,056	110.826,740
492	0,000		2,377	-					
		0,000	-	6,586	10,00	0,000	180.772,093	65,860	110.892,600
493	0,000		4,209	-					
		0,000	-	12,046	10,00	0,000	180.772,093	120,460	111.013,060
494	0,000		7,837	-					
		0,000	-	17,501	10,00	0,000	180.772,093	175,010	111.188,070
495	0,000		9,665	-					
		0,000	-	20,109	10,00	0,000	180.772,093	201,090	111.389,160
496	0,000		10,444	-					
		0,000	-	22,215	8,42	0,000	180.772,093	187,116	111.576,276
496+16,845	0,000		11,771	-					
		0,000	-	23,928	1,58	0,000	180.772,093	37,758	111.614,034
497	0,000		12,157	-					
		0,000	-	27,297	10,00	0,000	180.772,093	272,970	111.887,004
498	0,000		15,140	-					
		0,000	-	32,681	10,00	0,000	180.772,093	326,810	112.213,814
499	0,000		17,541	-					
		0,000	-	36,495	10,00	0,000	180.772,093	364,950	112.578,764
500	0,000		18,955	-					
		0,000	-	38,229	10,00	0,000	180.772,093	382,290	112.961,054
501	0,000		19,274	-					
		0,000	-	38,539	0,07	0,000	180.772,093	2,505	112.963,559
501+0,129	0,000		19,265	-					
		0,000	-	39,560	9,94	0,000	180.772,093	393,068	113.356,627
502	0,000		20,295	-					
		0,000	-	39,554	10,00	0,000	180.772,093	395,540	113.752,167
503	0,000		19,259	-					
		0,000	-	38,486	10,00	0,000	180.772,093	384,860	114.137,027
504	0,000		19,227	-					
		0,000	-	35,551	10,00	0,000	180.772,093	355,510	114.492,537
505	0,000		16,324	-					
		0,110	-	30,882	10,00	1,100	180.773,193	308,820	114.801,357
506	0,110		14,558	-					
		0,156	-	28,101	10,00	1,560	180.774,753	281,010	115.082,367
507	0,046		13,543	-					
		0,046	-	27,557	6,56	0,302	180.775,054	180,773	115.263,140
507+13,119	0,000		14,015	-					
		0,000	-	27,791	3,44	0,000	180.775,054	95,628	115.358,768
508	0,000		13,777	-					
		0,000	-	25,417	10,00	0,000	180.775,054	254,170	115.612,938
509	0,000		11,641	-					
		0,000	-	22,172	10,00	0,000	180.775,054	221,720	115.834,658
510	0,000		10,532	-					
		0,000	-	18,826	10,00	0,000	180.775,054	188,260	116.022,918
511	0,000		8,294	-					
		0,000	-	16,769	10,00	0,000	180.775,054	167,690	116.190,608
512	0,000		8,475	-					
		0,000	-	14,072	10,00	0,000	180.775,054	140,720	116.331,328
513	0,000		5,598	-					
		0,000	-	10,627	1,61	0,000	180.775,054	17,077	116.348,405
513+3,214	0,000		5,030	-					
		0,007	-	12,088	8,39	0,059	180.775,113	101,454	116.449,859
514	0,007		7,059	-					
		0,007	-	15,356	10,00	0,070	180.775,183	153,560	116.603,419
515	0,000		8,298	-					
		0,000	-	15,757	10,00	0,000	180.775,183	157,570	116.760,989
516	0,000		7,460	-					
		0,000	-	18,314	10,00	0,000	180.775,183	183,140	116.944,129
517	0,000		10,855	-					
		0,000	-	22,517	10,00	0,000	180.775,183	225,170	117.169,299

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
518	0,000		11,663	-					
		0,000	-	23,439	10,00	0,000	180.775,183	234,390	117.403,689
519	0,000		11,777	-					
		0,000	-	24,169	3,44	0,000	180.775,183	83,117	117.486,806
519+6,878	0,000		12,392	-					
		0,000	-	25,035	6,56	0,000	180.775,183	164,254	117.651,060
520	0,000		12,643	-					
		0,000	-	24,238	10,00	0,000	180.775,183	242,380	117.893,440
521	0,000		11,595	-					
		0,000	-	18,972	10,00	0,000	180.775,183	189,720	118.083,160
522	0,000		7,377	-					
		0,158	-	13,966	10,00	1,580	180.776,763	139,660	118.222,820
523	0,158		6,589	-					
		0,233	-	13,695	10,00	2,330	180.779,093	136,950	118.359,770
524	0,075		7,106	-					
		0,411	-	13,477	10,00	4,110	180.783,203	134,770	118.494,540
525	0,336		6,372	-					
		1,007	-	9,811	10,00	10,070	180.793,273	98,110	118.592,650
526	0,671		3,440	-					
		1,022	-	5,612	10,00	10,220	180.803,493	56,120	118.648,770
527	0,351		2,172	-					
		0,858	-	3,803	10,00	8,580	180.812,073	38,030	118.686,800
528	0,507		1,632	-					
		0,761	-	4,793	10,00	7,610	180.819,683	47,930	118.734,730
529	0,254		3,162	-					
		0,505	-	6,911	10,00	5,050	180.824,733	69,110	118.803,840
530	0,251		3,750	-					
		1,077	-	5,472	10,00	10,770	180.835,503	54,720	118.858,560
531	0,826		1,722	-					
		1,425	-	3,733	10,00	14,250	180.849,753	37,330	118.895,890
532	0,599		2,011	-					
		2,218	-	3,136	10,00	22,180	180.871,933	31,360	118.927,250
533	1,619		1,126	-					
		2,650	-	2,998	10,00	26,500	180.898,433	29,980	118.957,230
534	1,031		1,873	-					
		1,968	-	3,175	10,00	19,680	180.918,113	31,750	118.988,980
535	0,937		1,303	-					
		1,800	-	3,094	5,49	9,882	180.927,995	16,986	119.005,966
535+10,979	0,863		1,791	-					
		1,631	-	3,902	4,51	7,357	180.935,353	17,601	119.023,567
536	0,768		2,111	-					
		1,318	-	5,668	10,00	13,180	180.948,533	56,680	119.080,247
537	0,550		3,558	-					
		0,986	-	7,722	10,00	9,860	180.958,393	77,220	119.157,467
538	0,436		4,165	-					
		0,750	-	8,430	10,00	7,500	180.965,893	84,300	119.241,767
539	0,314		4,265	-					
		0,404	-	10,301	10,00	4,040	180.969,933	103,010	119.344,777
540	0,090		6,036	-					
		0,144	-	12,157	7,47	1,076	180.971,009	90,849	119.435,626
540+14,946	0,054		6,121	-					
		0,104	-	12,525	2,53	0,263	180.971,272	31,650	119.467,276
541	0,050		6,404	-					
		0,050	-	12,071	10,00	0,500	180.971,772	120,710	119.587,986
542	0,000		5,667	-					
		0,000	-	13,809	10,00	0,000	180.971,772	138,090	119.726,076
543	0,000		8,143	-					
		0,000	-	14,847	10,00	0,000	180.971,772	148,470	119.874,546
544	0,000		6,705	-					
		0,073	-	8,903	10,00	0,730	180.972,502	89,030	119.963,576
545	0,073		2,198	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		1,503	-	2,229	10,00	15,030	180.987,532	22,290	119.985,866
546	1,430		0,031	-					
		2,288	-	0,563	10,00	22,880	181.010,412	5,630	119.991,496
547	0,858		0,532	-					
		0,937	-	8,991	10,00	9,370	181.019,782	89,910	120.081,406
548	0,079		8,459	-					
		0,079	-	34,535	10,00	0,790	181.020,572	345,350	120.426,756
549	0,000		26,077	-					
		0,000	-	65,356	10,00	0,000	181.020,572	653,560	121.080,316
550	0,000		39,280	-					
		0,000	-	79,427	10,00	0,000	181.020,572	794,270	121.874,586
551	0,000		40,148	-					
		0,000	-	72,514	10,00	0,000	181.020,572	725,140	122.599,726
552	0,000		32,367	-					
		0,000	-	51,306	10,00	0,000	181.020,572	513,060	123.112,786
553	0,000		18,939	-					
		0,435	-	26,674	10,00	4,350	181.024,922	266,740	123.379,526
554	0,435		7,735	-					
		6,834	-	7,735	10,00	68,340	181.093,262	77,350	123.456,876
555	6,399		-	-					
		8,843	-	-	10,00	88,430	181.181,692	0,000	123.456,876
556	2,444		-	-					
		2,444	-	4,025	10,00	24,440	181.206,132	40,250	123.497,126
557	0,000		4,026	-					
		0,000	-	13,386	10,00	0,000	181.206,132	133,860	123.630,986
558	0,000		9,361	-					
		0,000	-	18,950	10,00	0,000	181.206,132	189,500	123.820,486
559	0,000		9,589	-					
		0,000	-	20,431	10,00	0,000	181.206,132	204,310	124.024,796
560	0,000		10,842	-					
		0,000	-	21,410	10,00	0,000	181.206,132	214,100	124.238,896
561	0,000		10,568	-					
		0,000	-	19,867	10,00	0,000	181.206,132	198,670	124.437,566
562	0,000		9,300	-					
		0,030	-	18,500	10,00	0,300	181.206,432	185,000	124.622,566
563	0,030		9,201	-					
		0,053	-	18,053	10,00	0,530	181.206,962	180,530	124.803,096
564	0,023		8,852	-					
		2,331	-	16,015	10,00	23,310	181.230,272	160,150	124.963,246
565	2,308		7,164	-					
		2,473	-	11,430	10,00	24,730	181.255,002	114,300	125.077,546
566	0,165		4,267	-					
		0,273	-	6,330	10,00	2,730	181.257,732	63,300	125.140,846
567	0,108		2,064	-					
		0,111	-	5,768	10,00	1,110	181.258,842	57,680	125.198,526
568	0,003		3,705	-					
		0,003	-	8,704	4,08	0,012	181.258,854	35,494	125.234,020
568+8,155	0,000		5,000	-					
		0,000	-	9,165	5,92	0,000	181.258,854	54,284	125.288,304
569	0,000		4,165	-					
		0,000	-	7,924	10,00	0,000	181.258,854	79,240	125.367,544
570	0,000		3,760	-					
		0,000	-	10,139	10,00	0,000	181.258,854	101,390	125.468,934
571	0,000		6,379	-					
		0,000	-	13,460	10,00	0,000	181.258,854	134,600	125.603,534
572	0,000		7,081	-					
		2,240	-	7,082	10,00	22,400	181.281,254	70,820	125.674,354
573	2,240		0,002	-					
		2,240	-	9,348	9,03	20,232	181.301,485	84,431	125.758,785
573+18,063	0,000		9,347	-					
		0,000	-	19,819	0,97	0,000	181.301,485	19,204	125.777,989

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
574	0,000		10,473	-					
		0,000	-	18,294	10,00	0,000	181.301,485	182,940	125.960,929
575	0,000		7,822	-					
		0,000	-	14,243	10,00	0,000	181.301,485	142,430	126.103,359
576	0,000		6,422	-					
		0,000	-	13,905	10,00	0,000	181.301,485	139,050	126.242,409
577	0,000		7,483	-					
		0,000	-	18,125	10,00	0,000	181.301,485	181,250	126.423,659
578	0,000		10,642	-					
		0,000	-	22,284	10,00	0,000	181.301,485	222,840	126.646,499
579	0,000		11,642	-					
		0,000	-	23,428	10,00	0,000	181.301,485	234,280	126.880,779
580	0,000		11,786	-					
		0,000	-	23,497	10,00	0,000	181.301,485	234,970	127.115,749
581	0,000		11,711	-					
		0,000	-	22,617	10,00	0,000	181.301,485	226,170	127.341,919
582	0,000		10,906	-					
		0,000	-	23,812	10,00	0,000	181.301,485	238,120	127.580,039
583	0,000		12,906	-					
		0,000	-	27,359	10,00	0,000	181.301,485	273,590	127.853,629
584	0,000		14,453	-					
		0,000	-	29,137	10,00	0,000	181.301,485	291,370	128.144,999
585	0,000		14,685	-					
		0,000	-	30,365	10,00	0,000	181.301,485	303,650	128.448,649
586	0,000		15,681	-					
		0,000	-	30,553	10,00	0,000	181.301,485	305,530	128.754,179
587	0,000		14,873	-					
		0,000	-	31,363	10,00	0,000	181.301,485	313,630	129.067,809
588	0,000		16,490	-					
		0,000	-	33,608	10,00	0,000	181.301,485	336,080	129.403,889
589	0,000		17,118	-					
		0,000	-	33,583	10,00	0,000	181.301,485	335,830	129.739,719
590	0,000		16,465	-					
		0,000	-	31,596	10,00	0,000	181.301,485	315,960	130.055,679
591	0,000		15,131	-					
		0,000	-	29,390	10,00	0,000	181.301,485	293,900	130.349,579
592	0,000		14,259	-					
		0,000	-	27,695	10,00	0,000	181.301,485	276,950	130.626,529
593	0,000		13,437	-					
		0,000	-	26,272	10,00	0,000	181.301,485	262,720	130.889,249
594	0,000		12,836	-					
		0,000	-	24,834	10,00	0,000	181.301,485	248,340	131.137,589
595	0,000		11,999	-					
		0,000	-	23,505	10,00	0,000	181.301,485	235,050	131.372,639
596	0,000		11,506	-					
		0,000	-	21,458	10,00	0,000	181.301,485	214,580	131.587,219
597	0,000		9,953	-					
		0,007	-	15,865	10,00	0,070	181.301,555	158,650	131.745,869
598	0,007		5,913	-					
		0,007	-	17,545	10,00	0,070	181.301,625	175,450	131.921,319
599	0,000		11,633	-					
		0,000	-	22,531	10,00	0,000	181.301,625	225,310	132.146,629
600	0,000		10,899	-					
		0,000	-	23,212	10,00	0,000	181.301,625	232,120	132.378,749
601	0,000		12,314	-					
		0,000	-	26,901	10,00	0,000	181.301,625	269,010	132.647,759
602	0,000		14,588	-					
		0,000	-	28,516	10,00	0,000	181.301,625	285,160	132.932,919
603	0,000		13,929	-					
		0,000	-	27,882	10,00	0,000	181.301,625	278,820	133.211,739
604	0,000		13,954	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	25,661	10,00	0,000	181.301,625	256,610	133.468,349
605	0,000		11,708	-					
		0,000	-	24,314	10,00	0,000	181.301,625	243,140	133.711,489
606	0,000		12,607	-					
		0,000	-	27,072	10,00	0,000	181.301,625	270,720	133.982,209
607	0,000		14,466	-					
		0,000	-	26,909	10,00	0,000	181.301,625	269,090	134.251,299
608	0,000		12,444	-					
		0,000	-	24,913	10,00	0,000	181.301,625	249,130	134.500,429
609	0,000		12,469	-					
		0,000	-	26,820	10,00	0,000	181.301,625	268,200	134.768,629
610	0,000		14,351	-					
		0,000	-	30,484	10,00	0,000	181.301,625	304,840	135.073,469
611	0,000		16,133	-					
		0,000	-	29,460	10,00	0,000	181.301,625	294,600	135.368,069
612	0,000		13,327	-					
		0,081	-	22,703	10,00	0,810	181.302,435	227,030	135.595,099
613	0,081		9,376	-					
		0,103	-	15,586	10,00	1,030	181.303,465	155,860	135.750,959
614	0,022		6,210	-					
		0,022	-	12,364	10,00	0,220	181.303,685	123,640	135.874,599
615	0,000		6,154	-					
		0,032	-	10,588	10,00	0,320	181.304,005	105,880	135.980,479
616	0,032		4,435	-					
		0,032	-	9,650	10,00	0,320	181.304,325	96,500	136.076,979
617	0,000		5,216	-					
		0,000	-	10,704	10,00	0,000	181.304,325	107,040	136.184,019
618	0,000		5,488	-					
		0,000	-	12,242	10,00	0,000	181.304,325	122,420	136.306,439
619	0,000		6,754	-					
		0,000	-	15,995	10,00	0,000	181.304,325	159,950	136.466,389
620	0,000		9,242	-					
		0,000	-	20,000	10,00	0,000	181.304,325	200,000	136.666,389
621	0,000		10,759	-					
		0,000	-	21,162	10,00	0,000	181.304,325	211,620	136.878,009
622	0,000		10,404	-					
		0,000	-	21,466	10,00	0,000	181.304,325	214,660	137.092,669
623	0,000		11,063	-					
		0,000	-	28,973	10,00	0,000	181.304,325	289,730	137.382,399
624	0,000		17,911	-					
		0,000	-	49,013	10,00	0,000	181.304,325	490,130	137.872,529
625	0,000		31,103	-					
		0,000	-	63,363	10,00	0,000	181.304,325	633,630	138.506,159
626	0,000		32,260	-					
		0,000	-	54,693	10,00	0,000	181.304,325	546,930	139.053,089
627	0,000		22,433	-					
		0,000	-	29,859	10,00	0,000	181.304,325	298,590	139.351,679
628	0,000		7,427	-					
		0,969	-	8,466	10,00	9,690	181.314,015	84,660	139.436,339
629	0,969		1,040	-					
		5,240	-	1,039	10,00	52,400	181.366,415	10,390	139.446,729
630	4,271		-	-					
		8,747	-	-	10,00	87,470	181.453,885	0,000	139.446,729
631	4,476		-	-					
		8,253	-	0,010	10,00	82,530	181.536,415	0,100	139.446,829
632	3,777		0,011	-					
		6,403	-	0,010	10,00	64,030	181.600,445	0,100	139.446,929
633	2,626		-	-					
		3,618	-	0,234	10,00	36,180	181.636,625	2,340	139.449,269
634	0,992		0,235	-					
		1,091	-	2,175	10,00	10,910	181.647,535	21,750	139.471,019

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
635	0,099		1,940	-					
		0,575	-	2,402	10,00	5,750	181.653,285	24,020	139.495,039
636	0,476		0,462	-					
		0,847	-	0,682	7,66	6,485	181.659,770	5,221	139.500,260
636+15,312	0,371		0,221	-					
		0,376	-	0,798	2,34	0,881	181.660,651	1,870	139.502,130
637	0,005		0,578	-					
		0,005	-	3,762	10,00	0,050	181.660,701	37,620	139.539,750
638	0,000		3,185	-					
		0,000	-	5,469	10,00	0,000	181.660,701	54,690	139.594,440
639	0,000		2,285	-					
		0,423	-	3,311	10,00	4,230	181.664,931	33,110	139.627,550
640	0,423		1,027	-					
		0,686	-	2,680	10,00	6,860	181.671,791	26,800	139.654,350
641	0,263		1,654	-					
		0,585	-	5,479	10,00	5,850	181.677,641	54,790	139.709,140
642	0,322		3,825	-					
		0,538	-	9,987	10,00	5,380	181.683,021	99,870	139.809,010
643	0,216		6,162	-					
		0,243	-	14,056	10,00	2,430	181.685,451	140,560	139.949,570
644	0,027		7,895	-					
		0,027	-	24,623	10,00	0,270	181.685,721	246,230	140.195,800
645	0,000		16,728	-					
		0,000	-	23,558	10,00	0,000	181.685,721	235,580	140.431,380
646	0,000		6,830	-					
		0,000	-	11,424	10,00	0,000	181.685,721	114,240	140.545,620
647	0,000		4,594	-					
		0,003	-	10,640	10,00	0,030	181.685,751	106,400	140.652,020
648	0,003		6,046	-					
		0,466	-	8,581	10,00	4,660	181.690,411	85,810	140.737,830
649	0,463		2,535	-					
		0,463	-	8,487	10,00	4,630	181.695,041	84,870	140.822,700
650	0,000		5,952	-					
		0,000	-	11,751	10,00	0,000	181.695,041	117,510	140.940,210
651	0,000		5,800	-					
		0,018	-	12,372	8,00	0,144	181.695,185	98,963	141.039,173
651+15,997	0,018		6,572	-					
		0,102	-	12,660	2,00	0,204	181.695,390	25,345	141.064,518
652	0,084		6,088	-					
		0,428	-	12,927	10,00	4,280	181.699,670	129,270	141.193,788
653	0,344		6,840	-					
		0,727	-	13,250	10,00	7,270	181.706,940	132,500	141.326,288
654	0,383		6,411	-					
		0,383	-	11,239	10,00	3,830	181.710,770	112,390	141.438,678
655	0,000		4,829	-					
		0,000	-	9,980	10,00	0,000	181.710,770	99,800	141.538,478
656	0,000		5,152	-					
		0,690	-	5,654	10,00	6,900	181.717,670	56,540	141.595,018
657	0,690		0,503	-					
		1,629	-	0,892	0,90	1,466	181.719,136	0,802	141.595,820
657+1,800	0,939		0,390	-					
		1,508	-	1,713	9,10	13,723	181.732,858	15,588	141.611,408
658	0,569		1,323	-					
		0,767	-	3,358	10,00	7,670	181.740,528	33,580	141.644,988
659	0,198		2,036	-					
		0,503	-	4,584	10,00	5,030	181.745,558	45,840	141.690,828
660	0,305		2,549	-					
		0,352	-	8,166	10,00	3,520	181.749,078	81,660	141.772,488
661	0,047		5,617	-					
		0,182	-	8,914	10,00	1,820	181.750,898	89,140	141.861,628
662	0,135		3,298	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,153	-	11,465	10,00	1,530	181.752,428	114,650	141.976,278
663	0,018		8,168	-					
		0,032	-	16,830	1,22	0,039	181.752,468	20,532	141.996,810
663+2,440	0,014		8,662	-					
		0,474	-	17,528	8,78	4,162	181.756,629	153,895	142.150,705
664	0,460		8,866	-					
		0,505	-	18,843	10,00	5,050	181.761,679	188,430	142.339,135
665	0,045		9,978	-					
		0,068	-	20,705	10,00	0,680	181.762,359	207,050	142.546,185
666	0,023		10,728	-					
		0,443	-	19,337	10,00	4,430	181.766,789	193,370	142.739,555
667	0,420		8,609	-					
		0,886	-	19,315	10,00	8,860	181.775,649	193,150	142.932,705
668	0,466		10,706	-					
		0,486	-	21,969	10,00	4,860	181.780,509	219,690	143.152,395
669	0,020		11,263	-					
		0,020	-	21,440	10,00	0,200	181.780,709	214,400	143.366,795
670	0,000		10,177	-					
		0,000	-	20,348	0,91	0,000	181.780,709	18,557	143.385,352
670+1,824	0,000		10,172	-					
		0,014	-	19,113	9,09	0,127	181.780,836	173,698	143.559,050
671	0,014		8,941	-					
		0,144	-	17,951	10,00	1,440	181.782,276	179,510	143.738,560
672	0,130		9,010	-					
		0,130	-	19,683	10,00	1,300	181.783,576	196,830	143.935,390
673	0,000		10,673	-					
		0,000	-	21,435	10,00	0,000	181.783,576	214,350	144.149,740
674	0,000		10,762	-					
		0,010	-	16,660	10,00	0,100	181.783,676	166,600	144.316,340
675	0,010		5,899	-					
		0,180	-	13,906	10,00	1,800	181.785,476	139,060	144.455,400
676	0,170		8,008	-					
		0,170	-	18,096	10,00	1,700	181.787,176	180,960	144.636,360
677	0,000		10,089	-					
		0,000	-	22,340	4,34	0,000	181.787,176	96,910	144.733,270
677+8,675	0,000		12,251	-					
		0,000	-	24,131	5,66	0,000	181.787,176	136,653	144.869,923
678	0,000		11,880	-					
		0,000	-	26,956	10,00	0,000	181.787,176	269,560	145.139,483
679	0,000		15,076	-					
		0,000	-	32,141	10,00	0,000	181.787,176	321,410	145.460,893
680	0,000		17,065	-					
		0,000	-	31,294	10,00	0,000	181.787,176	312,940	145.773,833
681	0,000		14,229	-					
		0,002	-	28,055	10,00	0,020	181.787,196	280,550	146.054,383
682	0,002		13,827	-					
		0,002	-	27,153	10,00	0,020	181.787,216	271,530	146.325,913
683	0,000		13,327	-					
		0,000	-	23,682	10,00	0,000	181.787,216	236,820	146.562,733
684	0,000		10,355	-					
		0,000	-	20,265	2,14	0,000	181.787,216	43,346	146.606,079
684+4,278	0,000		9,910	-					
		0,000	-	17,309	7,86	0,000	181.787,216	136,066	146.742,145
685	0,000		7,399	-					
		0,000	-	13,670	10,00	0,000	181.787,216	136,700	146.878,845
686	0,000		6,271	-					
		0,000	-	12,816	10,00	0,000	181.787,216	128,160	147.007,005
687	0,000		6,545	-					
		0,011	-	12,312	10,00	0,110	181.787,326	123,120	147.130,125
688	0,011		5,767	-					
		0,201	-	14,612	10,00	2,010	181.789,336	146,120	147.276,245

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
689	0,190		8,846	-					
		0,479	-	15,361	10,00	4,790	181.794,126	153,610	147.429,855
690	0,289		6,516	-					
		0,870	-	9,876	10,00	8,700	181.802,826	98,760	147.528,615
691	0,581		3,360	-					
		0,827	-	8,294	10,00	8,270	181.811,096	82,940	147.611,555
692	0,246		4,934	-					
		0,575	-	8,446	10,00	5,750	181.816,846	84,460	147.696,015
693	0,329		3,512	-					
		0,348	-	6,921	10,00	3,480	181.820,326	69,210	147.765,225
694	0,019		3,409	-					
		0,019	-	5,883	10,00	0,190	181.820,516	58,830	147.824,055
695	0,000		2,474	-					
		1,589	-	2,474	10,00	15,890	181.836,406	24,740	147.848,795
696	1,589		-	-					
		1,589	-	9,052	10,00	15,890	181.852,296	90,520	147.939,315
697	0,000		9,052	-					
		0,000	-	20,774	10,00	0,000	181.852,296	207,740	148.147,055
698	0,000		11,722	-					
		0,000	-	23,727	10,00	0,000	181.852,296	237,270	148.384,325
699	0,000		12,006	-					
		0,000	-	27,200	10,00	0,000	181.852,296	272,000	148.656,325
700	0,000		15,195	-					
		0,000	-	29,942	10,00	0,000	181.852,296	299,420	148.955,745
701	0,000		14,747	-					
		0,000	-	28,542	6,34	0,000	181.852,296	180,956	149.136,701
701+12,679	0,000		13,795	-					
		0,000	-	26,510	3,66	0,000	181.852,296	97,053	149.233,754
702	0,000		12,715	-					
		0,000	-	24,916	10,00	0,000	181.852,296	249,160	149.482,914
703	0,000		12,201	-					
		0,000	-	23,682	10,00	0,000	181.852,296	236,820	149.719,734
704	0,000		11,481	-					
		0,000	-	25,512	10,00	0,000	181.852,296	255,120	149.974,854
705	0,000		14,032	-					
		0,000	-	25,096	10,00	0,000	181.852,296	250,960	150.225,814
706	0,000		11,065	-					
		0,000	-	20,339	10,00	0,000	181.852,296	203,390	150.429,204
707	0,000		9,275	-					
		0,000	-	16,570	10,00	0,000	181.852,296	165,700	150.594,904
708	0,000		7,295	-					
		0,015	-	14,006	10,00	0,150	181.852,446	140,060	150.734,964
709	0,015		6,711	-					
		0,015	-	13,468	10,00	0,150	181.852,596	134,680	150.869,644
710	0,000		6,757	-					
		0,191	-	11,133	4,67	0,892	181.853,489	52,013	150.921,657
710+9,343	0,191		4,377	-					
		0,191	-	8,657	5,33	1,018	181.854,507	46,133	150.967,790
711	0,000		4,281	-					
		0,000	-	10,245	10,00	0,000	181.854,507	102,450	151.070,240
712	0,000		5,964	-					
		0,010	-	13,427	10,00	0,100	181.854,607	134,270	151.204,510
713	0,010		7,463	-					
		0,047	-	14,924	1,21	0,057	181.854,663	18,043	151.222,553
713+2,418	0,037		7,461	-					
		1,328	-	14,946	8,79	11,674	181.866,338	131,390	151.353,943
714	1,291		7,485	-					
		1,731	-	13,641	10,00	17,310	181.883,648	136,410	151.490,353
715	0,440		6,157	-					
		0,982	-	18,012	10,00	9,820	181.893,468	180,120	151.670,473
716	0,542		11,855	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,542	-	31,088	10,00	5,420	181.898,888	310,880	151.981,353
717	0,000		19,234	-					
		0,000	-	43,645	10,00	0,000	181.898,888	436,450	152.417,803
718	0,000		24,412	-					
		0,000	-	50,894	10,00	0,000	181.898,888	508,940	152.926,743
719	0,000		26,482	-					
		0,000	-	62,290	10,00	0,000	181.898,888	622,900	153.549,643
720	0,000		35,809	-					
		0,000	-	55,006	10,00	0,000	181.898,888	550,060	154.099,703
721	0,000		19,198	-					
		0,000	-	28,854	10,00	0,000	181.898,888	288,540	154.388,243
722	0,000		9,657	-					
		0,558	-	14,507	8,04	4,485	181.903,373	116,592	154.504,835
722+16,074	0,558		4,851	-					
		1,491	-	8,942	1,96	2,927	181.906,299	17,553	154.522,388
723	0,933		4,092	-					
		2,082	-	7,491	10,00	20,820	181.927,119	74,910	154.597,298
724	1,149		3,400	-					
		1,218	-	7,801	5,90	7,183	181.934,302	46,002	154.643,300
724+11,794	0,069		4,402	-					
		0,069	-	10,173	4,10	0,283	181.934,585	41,739	154.685,039
725	0,000		5,772	-					
		0,000	-	15,373	10,00	0,000	181.934,585	153,730	154.838,769
726	0,000		9,602	-					
		0,000	-	18,244	10,00	0,000	181.934,585	182,440	155.021,209
727	0,000		8,642	-					
		0,705	-	12,238	10,00	7,050	181.941,635	122,380	155.143,589
728	0,705		3,597	-					
		1,284	-	9,147	10,00	12,840	181.954,475	91,470	155.235,059
729	0,579		5,551	-					
		0,662	-	13,061	10,00	6,620	181.961,095	130,610	155.365,669
730	0,083		7,510	-					
		0,264	-	17,212	10,00	2,640	181.963,735	172,120	155.537,789
731	0,181		9,702	-					
		0,257	-	20,527	10,00	2,570	181.966,305	205,270	155.743,059
732	0,076		10,825	-					
		0,076	-	18,190	10,00	0,760	181.967,065	181,900	155.924,959
733	0,000		7,366	-					
		0,000	-	10,806	7,16	0,000	181.967,065	77,327	156.002,286
733+14,311	0,000		3,440	-					
		0,000	-	8,524	2,85	0,000	181.967,065	24,250	156.026,536
734	0,000		5,084	-					
		0,000	-	13,814	10,00	0,000	181.967,065	138,140	156.164,676
735	0,000		8,730	-					
		0,000	-	19,116	10,00	0,000	181.967,065	191,160	156.355,836
736	0,000		10,386	-					
		0,217	-	19,971	10,00	2,170	181.969,235	199,710	156.555,546
737	0,217		9,585	-					
		0,426	-	22,392	10,00	4,260	181.973,495	223,920	156.779,466
738	0,209		12,807	-					
		0,468	-	25,254	0,75	0,351	181.973,847	18,965	156.798,431
738+1,501	0,259		12,447	-					
		1,960	-	20,635	9,25	18,130	181.991,977	190,873	156.989,304
739	1,701		8,188	-					
		2,697	-	14,163	10,00	26,970	182.018,947	141,630	157.130,934
740	0,996		5,975	-					
		1,482	-	12,508	10,00	14,820	182.033,767	125,080	157.256,014
741	0,486		6,533	-					
		0,649	-	13,250	10,00	6,490	182.040,257	132,500	157.388,514
742	0,163		6,718	-					
		0,172	-	15,146	10,00	1,720	182.041,977	151,460	157.539,974

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
743	0,009		8,429	-					
		0,009	-	19,548	4,81	0,043	182.042,020	94,104	157.634,078
743+9,628	0,000		11,119	-					
		0,000	-	24,274	2,47	0,000	182.042,020	60,005	157.694,083
743+14,572	0,000		13,155	-					
		0,000	-	26,466	2,71	0,000	182.042,020	71,828	157.765,911
744	0,000		13,312	-					
		0,000	-	27,988	10,00	0,000	182.042,020	279,880	158.045,791
745	0,000		14,677	-					
		0,000	-	30,512	10,00	0,000	182.042,020	305,120	158.350,911
746	0,000		15,836	-					
		0,000	-	28,694	10,00	0,000	182.042,020	286,940	158.637,851
747	0,000		12,859	-					
		0,000	-	34,721	10,00	0,000	182.042,020	347,210	158.985,061
748	0,000		21,863	-					
		0,000	-	56,363	10,00	0,000	182.042,020	563,630	159.548,691
749	0,000		34,501	-					
		0,000	-	90,662	10,00	0,000	182.042,020	906,620	160.455,311
750	0,000		56,162	-					
		0,000	-	104,901	10,00	0,000	182.042,020	1.049,010	161.504,321
751	0,000		48,740	-					
		0,000	-	80,899	10,00	0,000	182.042,020	808,990	162.313,311
752	0,000		32,160	-					
		0,000	-	60,853	1,76	0,000	182.042,020	106,979	162.420,290
752+3,515	0,000		28,693	-					
		0,000	-	43,803	8,24	0,000	182.042,020	361,068	162.781,358
753	0,000		15,111	-					
		0,269	-	18,879	10,00	2,690	182.044,710	188,790	162.970,148
754	0,269		3,769	-					
		5,100	-	3,769	10,00	51,000	182.095,710	37,690	163.007,838
755	4,831		-	-					
		7,394	-	-	10,00	73,940	182.169,650	0,000	163.007,838
756	2,563		-	-					
		5,327	-	-	5,53	29,464	182.199,113	0,000	163.007,838
756+11,062	2,764		-	-					
		4,835	-	0,015	4,47	21,608	182.220,721	0,067	163.007,905
757	2,071		0,016	-					
		2,073	-	4,116	10,00	20,730	182.241,451	41,160	163.049,065
758	0,002		4,101	-					
		0,002	-	10,057	10,00	0,020	182.241,471	100,570	163.149,635
759	0,000		5,957	-					
		0,024	-	12,063	10,00	0,240	182.241,711	120,630	163.270,265
760	0,024		6,107	-					
		0,267	-	10,569	10,00	2,670	182.244,381	105,690	163.375,955
761	0,243		4,463	-					
		0,322	-	9,648	10,00	3,220	182.247,601	96,480	163.472,435
762	0,079		5,186	-					
		0,079	-	13,754	10,00	0,790	182.248,391	137,540	163.609,975
763	0,000		8,568	-					
		0,000	-	18,236	10,00	0,000	182.248,391	182,360	163.792,335
764	0,000		9,668	-					
		0,006	-	18,576	10,00	0,060	182.248,451	185,760	163.978,095
765	0,006		8,908	-					
		0,006	-	15,162	9,50	0,057	182.248,508	144,099	164.122,194
765+19,008	0,000		6,254	-					
		0,000	-	12,361	0,50	0,000	182.248,508	6,131	164.128,325
766	0,000		6,107	-					
		0,412	-	10,223	10,00	4,120	182.252,628	102,230	164.230,555
767	0,412		4,117	-					
		1,065	-	8,751	10,00	10,650	182.263,278	87,510	164.318,065
768	0,653		4,635	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		1,150	-	9,570	1,80	2,071	182.265,349	17,235	164.335,300
768+3,602	0,497		4,936	-					
		2,003	-	10,720	8,20	16,423	182.281,772	87,893	164.423,193
769	1,506		5,784	-					
		2,970	-	11,426	10,00	29,700	182.311,472	114,260	164.537,453
770	1,464		5,642	-					
		1,856	-	11,626	10,00	18,560	182.330,032	116,260	164.653,713
771	0,392		5,985	-					
		0,574	-	13,313	10,00	5,740	182.335,772	133,130	164.786,843
772	0,182		7,328	-					
		0,239	-	13,690	10,00	2,390	182.338,162	136,900	164.923,743
773	0,057		6,362	-					
		0,057	-	13,117	6,18	0,352	182.338,514	81,115	165.004,858
773+12,368	0,000		6,755	-					
		0,007	-	13,228	3,82	0,027	182.338,541	50,478	165.055,336
774	0,007		6,473	-					
		0,178	-	11,471	10,00	1,780	182.340,321	114,710	165.170,046
775	0,171		4,998	-					
		0,479	-	10,500	10,00	4,790	182.345,111	105,000	165.275,046
776	0,308		5,503	-					
		0,308	-	12,993	10,00	3,080	182.348,191	129,930	165.404,976
777	0,000		7,491	-					
		0,017	-	14,742	10,00	0,170	182.348,361	147,420	165.552,396
778	0,017		7,252	-					
		0,017	-	18,569	10,00	0,170	182.348,531	185,690	165.738,086
779	0,000		11,318	-					
		0,000	-	22,775	0,59	0,000	182.348,531	13,323	165.751,409
779+1,170	0,000		11,458	-					
		0,001	-	23,760	9,42	0,009	182.348,541	223,700	165.975,109
780	0,001		12,303	-					
		0,002	-	24,552	10,00	0,020	182.348,561	245,520	166.220,629
781	0,001		12,250	-					
		0,156	-	22,180	10,00	1,560	182.350,121	221,800	166.442,429
782	0,155		9,931	-					
		0,476	-	18,555	10,00	4,760	182.354,881	185,550	166.627,979
783	0,321		8,625	-					
		0,385	-	14,005	10,00	3,850	182.358,731	140,050	166.768,029
784	0,064		5,380	-					
		1,131	-	6,420	7,54	8,525	182.367,256	48,393	166.816,422
784+15,075	1,067		1,040	-					
		2,824	-	1,536	2,46	6,956	182.374,211	3,783	166.820,205
785	1,757		0,496	-					
		10,262	-	0,496	10,00	102,620	182.476,831	4,960	166.825,165
786	8,505		-	-					
		15,062	-	-	7,09	106,714	182.583,546	0,000	166.825,165
786+14,169	6,557		-	-					
		11,760	-	-	2,92	34,292	182.617,838	0,000	166.825,165
787	5,203		-	-					
		6,702	-	1,360	10,00	67,020	182.684,858	13,600	166.838,765
788	1,499		1,361	-					
		2,100	-	9,104	10,00	21,000	182.705,858	91,040	166.929,805
789	0,601		7,743	-					
		1,398	-	15,791	10,00	13,980	182.719,838	157,910	167.087,715
790	0,797		8,049	-					
		0,797	-	23,986	10,00	7,970	182.727,808	239,860	167.327,575
791	0,000		15,938	-					
		0,018	-	29,967	10,00	0,180	182.727,988	299,670	167.627,245
792	0,018		14,030	-					
		0,406	-	21,357	6,89	2,799	182.730,787	147,235	167.774,480
792+13,788	0,388		7,327	-					
		0,389	-	14,122	3,11	1,208	182.731,995	43,862	167.818,342

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
793	0,001		6,796	-					
		0,001	-	30,443	10,00	0,010	182.732,005	304,430	168.122,772
794	0,000		23,648	-					
		0,000	-	56,936	10,00	0,000	182.732,005	569,360	168.692,132
795	0,000		33,289	-					
		0,000	-	59,252	10,00	0,000	182.732,005	592,520	169.284,652
796	0,000		25,964	-					
		0,000	-	47,499	10,00	0,000	182.732,005	474,990	169.759,642
797	0,000		21,536	-					
		0,000	-	43,628	2,20	0,000	182.732,005	95,850	169.855,492
797+4,394	0,000		22,093	-					
		0,000	-	39,707	7,80	0,000	182.732,005	309,833	170.165,325
798	0,000		17,615	-					
		0,000	-	27,366	10,00	0,000	182.732,005	273,660	170.438,985
799	0,000		9,752	-					
		2,832	-	9,786	10,00	28,320	182.760,325	97,860	170.536,845
800	2,832		0,034	-					
		14,578	-	0,034	10,00	145,780	182.906,105	0,340	170.537,185
801	11,746		-	-					
		24,656	-	-	10,00	246,560	183.152,665	0,000	170.537,185
802	12,910		-	-					
		20,229	-	-	10,00	202,290	183.354,955	0,000	170.537,185
803	7,319		-	-					
		7,928	-	0,776	10,00	79,280	183.434,235	7,760	170.544,945
804	0,609		0,777	-					
		0,694	-	6,301	6,46	4,486	183.438,721	40,729	170.585,674
804+12,927	0,085		5,524	-					
		0,085	-	14,271	3,54	0,301	183.439,022	50,476	170.636,150
805	0,000		8,747	-					
		0,000	-	29,023	10,00	0,000	183.439,022	290,230	170.926,380
806	0,000		20,277	-					
		0,000	-	63,159	10,00	0,000	183.439,022	631,590	171.557,970
807	0,000		42,883	-					
		0,000	-	80,866	9,01	0,000	183.439,022	728,521	172.286,491
807+18,017	0,000		37,984	-					
		0,000	-	74,286	0,99	0,000	183.439,022	73,691	172.360,182
808	0,000		36,303	-					
		0,000	-	60,655	10,00	0,000	183.439,022	606,550	172.966,732
809	0,000		24,353	-					
		0,000	-	42,977	10,00	0,000	183.439,022	429,770	173.396,502
810	0,000		18,625	-					
		3,946	-	22,207	10,00	39,460	183.478,482	222,070	173.618,572
811	3,946		3,583	-					
		14,263	-	3,582	10,00	142,630	183.621,112	35,820	173.654,392
812	10,317		-	-					
		27,596	-	-	10,00	275,960	183.897,072	0,000	173.654,392
813	17,279		-	-					
		32,305	-	-	8,54	275,917	184.172,989	0,000	173.654,392
813+17,081	15,026		-	-					
		29,850	-	-	1,46	43,581	184.216,570	0,000	173.654,392
814	14,824		-	-					
		26,414	-	-	10,00	264,140	184.480,710	0,000	173.654,392
815	11,590		-	-					
		16,778	-	-	10,00	167,780	184.648,490	0,000	173.654,392
816	5,188		-	-					
		5,188	-	13,997	10,00	51,880	184.700,370	139,970	173.794,362
817	0,000		13,997	-					
		0,000	-	49,693	10,00	0,000	184.700,370	496,930	174.291,292
818	0,000		35,696	-					
		0,000	-	71,438	10,00	0,000	184.700,370	714,380	175.005,672
819	0,000		35,743	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	63,886	10,00	0,000	184.700,370	638,860	175.644,532
820	0,000		28,144	-					
		0,000	-	45,640	10,00	0,000	184.700,370	456,400	176.100,932
821	0,000		17,497	-					
		0,000	-	26,768	10,00	0,000	184.700,370	267,680	176.368,612
822	0,000		9,272	-					
		0,039	-	10,669	10,00	0,390	184.700,760	106,690	176.475,302
823	0,039		1,398	-					
		0,072	-	2,315	10,00	0,720	184.701,480	23,150	176.498,452
824	0,033		0,918	-					
		0,929	-	1,006	10,00	9,290	184.710,770	10,060	176.508,512
825	0,896		0,089	-					
		0,919	-	3,247	10,00	9,190	184.719,960	32,470	176.540,982
826	0,023		3,158	-					
		0,418	-	6,678	10,00	4,180	184.724,140	66,780	176.607,762
827	0,395		3,520	-					
		0,541	-	12,484	10,00	5,410	184.729,550	124,840	176.732,602
828	0,146		8,965	-					
		0,146	-	14,373	10,00	1,460	184.731,010	143,730	176.876,332
829	0,000		5,409	-					
		1,136	-	8,070	10,00	11,360	184.742,370	80,700	176.957,032
830	1,136		2,662	-					
		2,505	-	6,061	10,00	25,050	184.767,420	60,610	177.017,642
831	1,369		3,400	-					
		2,555	-	8,145	5,09	13,008	184.780,427	41,466	177.059,108
831+10,181	1,186		4,746	-					
		2,040	-	9,650	4,91	10,016	184.790,444	47,381	177.106,489
832	0,854		4,904	-					
		1,220	-	9,401	10,00	12,200	184.802,644	94,010	177.200,499
833	0,366		4,497	-					
		0,366	-	11,250	10,00	3,660	184.806,304	112,500	177.312,999
834	0,000		6,754	-					
		0,121	-	13,814	10,00	1,210	184.807,514	138,140	177.451,139
835	0,121		7,061	-					
		0,183	-	14,759	10,00	1,830	184.809,344	147,590	177.598,729
836	0,062		7,699	-					
		0,140	-	16,554	10,00	1,400	184.810,744	165,540	177.764,269
837	0,078		8,855	-					
		0,273	-	17,152	10,00	2,730	184.813,474	171,520	177.935,789
838	0,195		8,298	-					
		0,195	-	18,153	10,00	1,950	184.815,424	181,530	178.117,319
839	0,000		9,856	-					
		0,000	-	21,292	10,00	0,000	184.815,424	212,920	178.330,239
840	0,000		11,437	-					
		0,017	-	20,309	10,00	0,170	184.815,594	203,090	178.533,329
841	0,017		8,872	-					
		0,289	-	13,868	10,00	2,890	184.818,484	138,680	178.672,009
842	0,272		4,997	-					
		0,385	-	12,176	10,00	3,850	184.822,334	121,760	178.793,769
843	0,113		7,180	-					
		0,113	-	17,043	9,16	1,035	184.823,369	156,113	178.949,882
843+18,320	0,000		9,863	-					
		0,000	-	19,867	0,84	0,000	184.823,369	16,688	178.966,570
844	0,000		10,004	-					
		0,000	-	20,657	10,00	0,000	184.823,369	206,570	179.173,140
845	0,000		10,653	-					
		0,000	-	16,404	10,00	0,000	184.823,369	164,040	179.337,180
846	0,000		5,751	-					
		0,072	-	10,413	10,00	0,720	184.824,089	104,130	179.441,310
847	0,072		4,662	-					
		0,215	-	9,207	10,00	2,150	184.826,239	92,070	179.533,380

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
848	0,143		4,546	-					
		0,172	-	10,651	5,40	0,928	184.827,167	57,483	179.590,863
848+10,794	0,029		6,105	-					
		0,037	-	13,832	4,60	0,170	184.827,337	63,668	179.654,531
849	0,008		7,728	-					
		0,008	-	16,778	10,00	0,080	184.827,417	167,780	179.822,311
850	0,000		9,051	-					
		0,000	-	16,081	10,00	0,000	184.827,417	160,810	179.983,121
851	0,000		7,031	-					
		0,110	-	10,012	10,00	1,100	184.828,517	100,120	180.083,241
852	0,110		2,981	-					
		0,110	-	8,399	10,00	1,100	184.829,617	83,990	180.167,231
853	0,000		5,418	-					
		0,000	-	19,492	10,00	0,000	184.829,617	194,920	180.362,151
854	0,000		14,074	-					
		0,000	-	37,960	4,89	0,000	184.829,617	185,700	180.547,851
854+9,783	0,000		23,886	-					
		0,000	-	59,741	5,11	0,000	184.829,617	305,216	180.853,067
855	0,000		35,856	-					
		0,000	-	94,793	10,00	0,000	184.829,617	947,930	181.800,997
856	0,000		58,938	-					
		0,000	-	120,654	0,96	0,000	184.829,617	115,345	181.916,342
856+1,912	0,000		61,716	-					
		0,000	-	110,825	9,04	0,000	184.829,617	1.002,301	182.918,643
857	0,000		49,109	-					
		0,000	-	71,156	10,00	0,000	184.829,617	711,560	183.630,203
858	0,000		22,048	-					
		2,333	-	28,928	10,00	23,330	184.852,947	289,280	183.919,483
859	2,333		6,880	-					
		6,740	-	9,680	10,00	67,400	184.920,347	96,800	184.016,283
860	4,407		2,800	-					
		9,612	-	5,973	10,00	96,120	185.016,467	59,730	184.076,013
861	5,205		3,174	-					
		10,213	-	5,638	10,00	102,130	185.118,597	56,380	184.132,393
862	5,008		2,465	-					
		7,962	-	4,890	10,00	79,620	185.198,217	48,900	184.181,293
863	2,954		2,426	-					
		4,853	-	2,455	9,45	45,871	185.244,088	23,204	184.204,497
863+18,903	1,899		0,030	-					
		3,784	-	0,050	0,55	2,077	185.246,165	0,027	184.204,524
864	1,885		0,020	-					
		4,249	-	0,021	10,00	42,490	185.288,655	0,210	184.204,734
865	2,364		0,002	-					
		4,396	-	0,001	10,00	43,960	185.332,615	0,010	184.204,744
866	2,032		-	-					
		4,528	-	0,067	10,00	45,280	185.377,895	0,670	184.205,414
867	2,496		0,067	-					
		3,972	-	0,244	10,00	39,720	185.417,615	2,440	184.207,854
868	1,476		0,177	-					
		2,116	-	1,772	9,50	20,098	185.437,713	16,830	184.224,684
868+18,996	0,640		1,596	-					
		1,332	-	3,175	0,50	0,669	185.438,382	1,593	184.226,277
869	0,692		1,580	-					
		2,255	-	2,719	10,00	22,550	185.460,932	27,190	184.253,467
870	1,563		1,140	-					
		3,795	-	2,088	10,00	37,950	185.498,882	20,880	184.274,347
871	2,232		0,949	-					
		5,616	-	2,292	10,00	56,160	185.555,042	22,920	184.297,267
872	3,384		1,344	-					
		6,471	-	3,020	10,00	64,710	185.619,752	30,200	184.327,467
873	3,087		1,677	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		5,447	-	2,528	10,00	54,470	185.674,222	25,280	184.352,747
874	2,360		0,852	-					
		4,467	-	1,371	2,89	12,887	185.687,109	3,955	184.356,702
874+5,769	2,107		0,520	-					
		4,277	-	0,797	7,12	30,435	185.717,544	5,671	184.362,373
875	2,170		0,277	-					
		3,081	-	0,648	10,00	30,810	185.748,354	6,480	184.368,853
876	0,911		0,371	-					
		1,861	-	0,961	10,00	18,610	185.766,964	9,610	184.378,463
877	0,950		0,590	-					
		3,397	-	0,590	10,00	33,970	185.800,934	5,900	184.384,363
878	2,447		-	-					
		3,956	-	0,032	10,00	39,560	185.840,494	0,320	184.384,683
879	1,509		0,033	-					
		1,511	-	3,390	10,00	15,110	185.855,604	33,900	184.418,583
880	0,002		3,357	-					
		0,002	-	8,043	10,00	0,020	185.855,624	80,430	184.499,013
881	0,000		4,687	-					
		0,000	-	9,569	10,00	0,000	185.855,624	95,690	184.594,703
882	0,000		4,882	-					
		0,132	-	7,522	10,00	1,320	185.856,944	75,220	184.669,923
883	0,132		2,640	-					
		0,744	-	5,217	10,00	7,440	185.864,384	52,170	184.722,093
884	0,612		2,577	-					
		0,612	-	7,483	10,00	6,120	185.870,504	74,830	184.796,923
885	0,000		4,906	-					
		0,000	-	14,492	10,00	0,000	185.870,504	144,920	184.941,843
886	0,000		9,586	-					
		0,000	-	23,262	10,00	0,000	185.870,504	232,620	185.174,463
887	0,000		13,676	-					
		0,000	-	28,074	10,00	0,000	185.870,504	280,740	185.455,203
888	0,000		14,398	-					
		0,000	-	26,588	10,00	0,000	185.870,504	265,880	185.721,083
889	0,000		12,190	-					
		0,000	-	20,403	10,00	0,000	185.870,504	204,030	185.925,113
890	0,000		8,213	-					
		0,000	-	15,358	10,00	0,000	185.870,504	153,580	186.078,693
891	0,000		7,145	-					
		0,000	-	27,135	10,00	0,000	185.870,504	271,350	186.350,043
892	0,000		19,990	-					
		0,000	-	38,572	10,00	0,000	185.870,504	385,720	186.735,763
893	0,000		18,582	-					
		0,000	-	35,819	10,00	0,000	185.870,504	358,190	187.093,953
894	0,000		17,237	-					
		0,000	-	36,477	10,00	0,000	185.870,504	364,770	187.458,723
895	0,000		19,240	-					
		0,000	-	35,584	10,00	0,000	185.870,504	355,840	187.814,563
896	0,000		16,345	-					
		0,000	-	31,641	10,00	0,000	185.870,504	316,410	188.130,973
897	0,000		15,297	-					
		0,000	-	32,410	10,00	0,000	185.870,504	324,100	188.455,073
898	0,000		17,114	-					
		0,000	-	33,996	10,00	0,000	185.870,504	339,960	188.795,033
899	0,000		16,883	-					
		0,000	-	31,511	10,00	0,000	185.870,504	315,110	189.110,143
900	0,000		14,628	-					
		0,000	-	27,687	10,00	0,000	185.870,504	276,870	189.387,013
901	0,000		13,059	-					
		0,000	-	23,823	10,00	0,000	185.870,504	238,230	189.625,243
902	0,000		10,764	-					
		0,000	-	22,146	10,00	0,000	185.870,504	221,460	189.846,703

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
903	0,000		11,382	-					
		0,000	-	22,252	10,00	0,000	185.870,504	222,520	190.069,223
904	0,000		10,870	-					
		0,196	-	18,701	10,00	1,960	185.872,464	187,010	190.256,233
905	0,196		7,831	-					
		0,224	-	16,512	10,00	2,240	185.874,704	165,120	190.421,353
906	0,028		8,681	-					
		0,279	-	18,331	5,62	1,567	185.876,272	102,983	190.524,336
906+11,236	0,251		9,651	-					
		1,596	-	19,820	4,38	6,994	185.883,265	86,851	190.611,187
907	1,345		10,170	-					
		1,345	-	25,973	10,00	13,450	185.896,715	259,730	190.870,917
908	0,000		15,803	-					
		0,038	-	26,868	10,00	0,380	185.897,095	268,680	191.139,597
909	0,038		11,066	-					
		0,070	-	21,382	10,00	0,700	185.897,795	213,820	191.353,417
910	0,032		10,316	-					
		0,032	-	25,981	10,00	0,320	185.898,115	259,810	191.613,227
911	0,000		15,665	-					
		0,000	-	28,566	10,00	0,000	185.898,115	285,660	191.898,887
912	0,000		12,901	-					
		0,038	-	24,567	6,91	0,262	185.898,378	169,635	192.068,522
912+13,809	0,038		11,666	-					
		0,130	-	22,080	3,10	0,402	185.898,780	68,359	192.136,881
913	0,092		10,415	-					
		0,092	-	18,619	10,00	0,920	185.899,700	186,190	192.323,071
914	0,000		8,205	-					
		0,000	-	16,181	10,00	0,000	185.899,700	161,810	192.484,881
915	0,000		7,977	-					
		0,000	-	16,812	10,00	0,000	185.899,700	168,120	192.653,001
916	0,000		8,836	-					
		0,000	-	16,271	10,00	0,000	185.899,700	162,710	192.815,711
917	0,000		7,435	-					
		0,000	-	15,162	10,00	0,000	185.899,700	151,620	192.967,331
918	0,000		7,728	-					
		0,000	-	16,501	10,00	0,000	185.899,700	165,010	193.132,341
919	0,000		8,774	-					
		0,000	-	17,681	5,65	0,000	185.899,700	99,897	193.232,238
919+11,299	0,000		8,908	-					
		0,000	-	17,205	4,35	0,000	185.899,700	74,858	193.307,096
920	0,000		8,298	-					
		0,004	-	15,207	10,00	0,040	185.899,740	152,070	193.459,166
921	0,004		6,910	-					
		0,021	-	14,526	10,00	0,210	185.899,950	145,260	193.604,426
922	0,017		7,616	-					
		0,089	-	18,179	10,00	0,890	185.900,840	181,790	193.786,216
923	0,072		10,563	-					
		0,707	-	16,837	10,00	7,070	185.907,910	168,370	193.954,586
924	0,635		6,274	-					
		0,635	-	11,938	10,00	6,350	185.914,260	119,380	194.073,966
925	0,000		5,664	-					
		0,000	-	13,111	3,36	0,000	185.914,260	44,013	194.117,979
925+6,713	0,000		7,447	-					
		0,000	-	15,669	6,64	0,000	185.914,260	104,104	194.222,083
926	0,000		8,222	-					
		0,000	-	17,387	10,00	0,000	185.914,260	173,870	194.395,953
927	0,000		9,165	-					
		0,000	-	16,914	10,00	0,000	185.914,260	169,140	194.565,093
928	0,000		7,750	-					
		0,004	-	15,135	10,00	0,040	185.914,300	151,350	194.716,443
929	0,004		7,386	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,117	-	14,512	10,00	1,170	185.915,470	145,120	194.861,563
930	0,113		7,126	-					
		0,113	-	14,429	10,00	1,130	185.916,600	144,290	195.005,853
931	0,000		7,303	-					
		0,000	-	14,911	10,00	0,000	185.916,600	149,110	195.154,963
932	0,000		7,609	-					
		0,000	-	16,732	10,00	0,000	185.916,600	167,320	195.322,283
933	0,000		9,124	-					
		0,000	-	16,047	10,00	0,000	185.916,600	160,470	195.482,753
934	0,000		6,923	-					
		0,110	-	11,686	10,00	1,100	185.917,700	116,860	195.599,613
935	0,110		4,763	-					
		0,404	-	9,800	10,00	4,040	185.921,740	98,000	195.697,613
936	0,294		5,037	-					
		1,059	-	11,311	10,00	10,590	185.932,330	113,110	195.810,723
937	0,765		6,274	-					
		1,342	-	12,379	10,00	13,420	185.945,750	123,790	195.934,513
938	0,577		6,105	-					
		0,577	-	16,159	10,00	5,770	185.951,520	161,590	196.096,103
939	0,000		10,055	-					
		0,000	-	18,100	10,00	0,000	185.951,520	181,000	196.277,103
940	0,000		8,045	-					
		0,000	-	15,001	10,00	0,000	185.951,520	150,010	196.427,113
941	0,000		6,956	-					
		0,000	-	15,019	10,00	0,000	185.951,520	150,190	196.577,303
942	0,000		8,064	-					
		0,000	-	13,677	10,00	0,000	185.951,520	136,770	196.714,073
943	0,000		5,614	-					
		0,287	-	8,164	10,00	2,870	185.954,390	81,640	196.795,713
944	0,287		2,551	-					
		0,443	-	5,068	10,00	4,430	185.958,820	50,680	196.846,393
945	0,156		2,518	-					
		0,382	-	4,605	10,00	3,820	185.962,640	46,050	196.892,443
946	0,226		2,087	-					
		0,536	-	3,097	10,00	5,360	185.968,000	30,970	196.923,413
947	0,310		1,010	-					
		0,372	-	1,927	10,00	3,720	185.971,720	19,270	196.942,683
948	0,062		0,918	-					
		0,486	-	1,623	10,00	4,860	185.976,580	16,230	196.958,913
949	0,424		0,706	-					
		0,424	-	6,625	10,00	4,240	185.980,820	66,250	197.025,163
950	0,000		5,919	-					
		0,000	-	18,417	8,41	0,000	185.980,820	154,942	197.180,105
950+16,826	0,000		12,499	-					
		0,000	-	26,352	1,59	0,000	185.980,820	41,820	197.221,925
951	0,000		13,853	-					
		0,000	-	29,296	10,00	0,000	185.980,820	292,960	197.514,885
952	0,000		15,443	-					
		0,000	-	23,608	10,00	0,000	185.980,820	236,080	197.750,965
953	0,000		8,166	-					
		0,268	-	17,022	10,00	2,680	185.983,500	170,220	197.921,185
954	0,268		8,857	-					
		0,340	-	16,679	10,00	3,400	185.986,900	166,790	198.087,975
955	0,072		7,823	-					
		0,072	-	13,172	10,00	0,720	185.987,620	131,720	198.219,695
956	0,000		5,349	-					
		0,000	-	8,981	10,00	0,000	185.987,620	89,810	198.309,505
957	0,000		3,633	-					
		0,003	-	8,562	8,63	0,026	185.987,646	73,881	198.383,386
957+17,258	0,003		4,929	-					
		0,022	-	9,996	1,37	0,030	185.987,676	13,704	198.397,090

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
958	0,019		5,067	-					
		0,116	-	11,358	10,00	1,160	185.988,836	113,580	198.510,670
959	0,097		6,292	-					
		0,116	-	14,174	10,00	1,160	185.989,996	141,740	198.652,410
960	0,019		7,883	-					
		0,019	-	15,661	10,00	0,190	185.990,186	156,610	198.809,020
961	0,000		7,779	-					
		0,000	-	16,628	10,00	0,000	185.990,186	166,280	198.975,300
962	0,000		8,849	-					
		0,000	-	18,889	10,00	0,000	185.990,186	188,890	199.164,190
963	0,000		10,040	-					
		0,000	-	19,354	2,51	0,000	185.990,186	48,597	199.212,787
963+5,021	0,000		9,314	-					
		0,000	-	18,976	7,49	0,000	185.990,186	142,130	199.354,917
964	0,000		9,663	-					
		0,000	-	18,763	10,00	0,000	185.990,186	187,630	199.542,547
965	0,000		9,101	-					
		0,000	-	16,707	10,00	0,000	185.990,186	167,070	199.709,617
966	0,000		7,607	-					
		2,391	-	13,598	10,00	23,910	186.014,096	135,980	199.845,597
967	2,391		5,991	-					
		3,509	-	13,593	10,00	35,090	186.049,186	135,930	199.981,527
968	1,118		7,602	-					
		1,430	-	22,908	10,00	14,300	186.063,486	229,080	200.210,607
969	0,312		15,306	-					
		0,312	-	38,830	10,00	3,120	186.066,606	388,300	200.598,907
970	0,000		23,524	-					
		0,000	-	48,717	6,61	0,000	186.066,606	322,116	200.921,023
970+13,223	0,000		25,193	-					
		0,008	-	46,462	3,39	0,027	186.066,633	157,459	201.078,482
971	0,008		21,269	-					
		0,338	-	31,673	10,00	3,380	186.070,013	316,730	201.395,212
972	0,330		10,404	-					
		1,860	-	13,197	10,00	18,600	186.088,613	131,970	201.527,182
973	1,530		2,794	-					
		3,798	-	3,665	10,00	37,980	186.126,593	36,650	201.563,832
974	2,268		0,872	-					
		4,942	-	1,338	10,00	49,420	186.176,013	13,380	201.577,212
975	2,674		0,467	-					
		3,113	-	4,309	10,00	31,130	186.207,143	43,090	201.620,302
976	0,439		3,843	-					
		0,439	-	11,656	10,00	4,390	186.211,533	116,560	201.736,862
977	0,000		7,814	-					
		0,000	-	22,523	10,00	0,000	186.211,533	225,230	201.962,092
978	0,000		14,710	-					
		0,000	-	32,520	10,00	0,000	186.211,533	325,200	202.287,292
979	0,000		17,810	-					
		0,000	-	42,911	10,00	0,000	186.211,533	429,110	202.716,402
980	0,000		25,101	-					
		0,000	-	64,196	10,00	0,000	186.211,533	641,960	203.358,362
981	0,000		39,095	-					
		0,000	-	65,079	10,00	0,000	186.211,533	650,790	204.009,152
982	0,000		25,984	-					
		0,000	-	38,357	10,00	0,000	186.211,533	383,570	204.392,722
983	0,000		12,374	-					
		0,000	-	21,577	10,00	0,000	186.211,533	215,770	204.608,492
984	0,000		9,204	-					
		0,000	-	27,111	10,00	0,000	186.211,533	271,110	204.879,602
985	0,000		17,907	-					
		0,000	-	47,023	10,00	0,000	186.211,533	470,230	205.349,832
986	0,000		29,116	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	53,625	10,00	0,000	186.211,533	536,250	205.886,082
987	0,000		24,509	-					
		0,000	-	46,732	2,19	0,000	186.211,533	102,389	205.988,471
987+4,381	0,000		22,223	-					
		0,000	-	36,323	7,81	0,000	186.211,533	283,682	206.272,153
988	0,000		14,101	-					
		0,000	-	26,771	10,00	0,000	186.211,533	267,710	206.539,863
989	0,000		12,671	-					
		0,000	-	29,613	10,00	0,000	186.211,533	296,130	206.835,993
990	0,000		16,943	-					
		0,000	-	31,978	10,00	0,000	186.211,533	319,780	207.155,773
991	0,000		15,036	-					
		0,079	-	20,154	10,00	0,790	186.212,323	201,540	207.357,313
992	0,079		5,119	-					
		4,068	-	5,118	10,00	40,680	186.253,003	51,180	207.408,493
993	3,989		-	-					
		9,536	-	-	5,10	48,643	186.301,646	0,000	207.408,493
993+10,201	5,547		-	-					
		11,086	-	-	4,90	54,321	186.355,968	0,000	207.408,493
994	5,539		-	-					
		8,298	-	-	10,00	82,980	186.438,948	0,000	207.408,493
995	2,759		-	-					
		4,260	-	0,133	10,00	42,600	186.481,548	1,330	207.409,823
996	1,501		0,133	-					
		1,899	-	2,221	10,00	18,990	186.500,538	22,210	207.432,033
997	0,398		2,089	-					
		1,025	-	4,011	10,00	10,250	186.510,788	40,110	207.472,143
998	0,627		1,923	-					
		1,825	-	4,708	10,00	18,250	186.529,038	47,080	207.519,223
999	1,198		2,786	-					
		2,621	-	4,916	10,00	26,210	186.555,248	49,160	207.568,383
1000	1,423		2,131	-					
		3,889	-	2,131	10,00	38,890	186.594,138	21,310	207.589,693
1001	2,466		-	-					
		4,374	-	0,245	10,00	43,740	186.637,878	2,450	207.592,143
1002	1,908		0,246	-					
		3,579	-	0,316	10,00	35,790	186.673,668	3,160	207.595,303
1003	1,671		0,070	-					
		2,163	-	0,283	10,00	21,630	186.695,298	2,830	207.598,133
1004	0,492		0,213	-					
		0,492	-	3,156	10,00	4,920	186.700,218	31,560	207.629,693
1005	0,000		2,944	-					
		0,000	-	12,035	10,00	0,000	186.700,218	120,350	207.750,043
1006	0,000		9,091	-					
		0,000	-	22,797	10,00	0,000	186.700,218	227,970	207.978,013
1007	0,000		13,706	-					
		0,000	-	38,652	10,00	0,000	186.700,218	386,520	208.364,533
1008	0,000		24,946	-					
		0,000	-	55,349	10,00	0,000	186.700,218	553,490	208.918,023
1009	0,000		30,403	-					
		0,000	-	68,226	10,00	0,000	186.700,218	682,260	209.600,283
1010	0,000		37,824	-					
		0,000	-	72,360	10,00	0,000	186.700,218	723,600	210.323,883
1011	0,000		34,537	-					
		0,000	-	45,964	10,00	0,000	186.700,218	459,640	210.783,523
1012	0,000		11,428	-					
		4,184	-	11,427	10,00	41,840	186.742,058	114,270	210.897,793
1013	4,184		-	-					
		4,919	-	4,339	10,00	49,190	186.791,248	43,390	210.941,183
1014	0,735		4,339	-					
		9,893	-	4,339	10,00	98,930	186.890,178	43,390	210.984,573

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1015	9,158		-	-					
		19,091	-	-	10,00	190,910	187.081,088	0,000	210.984,573
1016	9,933		-	-					
		17,557	-	-	10,00	175,570	187.256,658	0,000	210.984,573
1017	7,624		-	-					
		7,871	-	1,196	10,00	78,710	187.335,368	11,960	210.996,533
1018	0,247		1,196	-					
		0,251	-	3,062	10,00	2,510	187.337,878	30,620	211.027,153
1019	0,004		1,867	-					
		0,004	-	7,982	10,00	0,040	187.337,918	79,820	211.106,973
1020	0,000		6,116	-					
		0,505	-	8,343	10,00	5,050	187.342,968	83,430	211.190,403
1021	0,505		2,227	-					
		0,505	-	7,746	10,00	5,050	187.348,018	77,460	211.267,863
1022	0,000		5,520	-					
		0,000	-	9,177	10,00	0,000	187.348,018	91,770	211.359,633
1023	0,000		3,658	-					
		0,004	-	9,659	10,00	0,040	187.348,058	96,590	211.456,223
1024	0,004		6,002	-					
		0,929	-	6,019	10,00	9,290	187.357,348	60,190	211.516,413
1025	0,925		0,017	-					
		5,658	-	0,017	10,00	56,580	187.413,928	0,170	211.516,583
1026	4,733		-	-					
		4,733	-	2,284	10,00	47,330	187.461,258	22,840	211.539,423
1027	0,000		2,285	-					
		0,000	-	6,478	10,00	0,000	187.461,258	64,780	211.604,203
1028	0,000		4,193	-					
		1,182	-	5,525	10,00	11,820	187.473,078	55,250	211.659,453
1029	1,182		1,333	-					
		1,510	-	5,483	10,00	15,100	187.488,178	54,830	211.714,283
1030	0,328		4,151	-					
		1,362	-	8,942	10,00	13,620	187.501,798	89,420	211.803,703
1031	1,034		4,792	-					
		2,570	-	9,329	10,00	25,700	187.527,498	93,290	211.896,993
1032	1,536		4,538	-					
		2,189	-	9,013	10,00	21,890	187.549,388	90,130	211.987,123
1033	0,653		4,475	-					
		0,862	-	11,952	10,00	8,620	187.558,008	119,520	212.106,643
1034	0,209		7,477	-					
		0,651	-	11,620	10,00	6,510	187.564,518	116,200	212.222,843
1035	0,442		4,143	-					
		0,463	-	9,434	10,00	4,630	187.569,148	94,340	212.317,183
1036	0,021		5,291	-					
		0,842	-	10,015	10,00	8,420	187.577,568	100,150	212.417,333
1037	0,821		4,724	-					
		1,008	-	9,248	10,00	10,080	187.587,648	92,480	212.509,813
1038	0,187		4,524	-					
		0,323	-	11,640	10,00	3,230	187.590,878	116,400	212.626,213
1039	0,136		7,117	-					
		0,441	-	9,129	10,00	4,410	187.595,288	91,290	212.717,503
1040	0,305		2,012	-					
		0,341	-	9,296	10,00	3,410	187.598,698	92,960	212.810,463
1041	0,036		7,284	-					
		0,117	-	12,242	10,00	1,170	187.599,868	122,420	212.932,883
1042	0,081		4,958	-					
		0,111	-	11,587	10,00	1,110	187.600,978	115,870	213.048,753
1043	0,030		6,630	-					
		0,073	-	12,567	1,49	0,108	187.601,086	18,674	213.067,427
1043+2,971	0,043		5,938	-					
		1,488	-	6,371	8,52	12,670	187.613,757	54,249	213.121,676
1044	1,445		0,434	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		2,999	-	0,956	10,00	29,990	187.643,747	9,560	213.131,236
1045	1,554		0,523	-					
		1,943	-	2,665	10,00	19,430	187.663,177	26,650	213.157,886
1046	0,389		2,142	-					
		1,807	-	3,025	10,00	18,070	187.681,247	30,250	213.188,136
1047	1,418		0,883	-					
		2,535	-	2,480	10,00	25,350	187.706,597	24,800	213.212,936
1048	1,117		1,597	-					
		2,198	-	3,152	10,00	21,980	187.728,577	31,520	213.244,456
1049	1,081		1,555	-					
		1,171	-	8,424	10,00	11,710	187.740,287	84,240	213.328,696
1050	0,090		6,870	-					
		0,090	-	34,649	10,00	0,900	187.741,187	346,490	213.675,186
1051	0,000		27,780	-					
		0,000	-	74,062	10,00	0,000	187.741,187	740,620	214.415,806
1052	0,000		46,283	-					
		0,000	-	101,645	10,00	0,000	187.741,187	1.016,450	215.432,256
1053	0,000		55,363	-					
		0,000	-	110,061	10,00	0,000	187.741,187	1.100,610	216.532,866
1054	0,000		54,698	-					
		0,000	-	103,357	10,00	0,000	187.741,187	1.033,570	217.566,436
1055	0,000		48,660	-					
		0,000	-	81,057	10,00	0,000	187.741,187	810,570	218.377,006
1056	0,000		32,398	-					
		0,005	-	39,729	10,00	0,050	187.741,237	397,290	218.774,296
1057	0,005		7,331	-					
		6,348	-	7,331	10,00	63,480	187.804,717	73,310	218.847,606
1058	6,343		-	-					
		11,141	-	0,012	10,00	111,410	187.916,127	0,120	218.847,726
1059	4,798		0,013	-					
		8,077	-	0,093	10,00	80,770	187.996,897	0,930	218.848,656
1060	3,279		0,081	-					
		4,342	-	1,172	10,00	43,420	188.040,317	11,720	218.860,376
1061	1,063		1,091	-					
		2,798	-	4,537	10,00	27,980	188.068,297	45,370	218.905,746
1062	1,735		3,447	-					
		1,735	-	8,765	10,00	17,350	188.085,647	87,650	218.993,396
1063	0,000		5,319	-					
		0,000	-	25,909	10,00	0,000	188.085,647	259,090	219.252,486
1064	0,000		20,590	-					
		0,000	-	43,554	10,00	0,000	188.085,647	435,540	219.688,026
1065	0,000		22,965	-					
		0,000	-	35,113	10,00	0,000	188.085,647	351,130	220.039,156
1066	0,000		12,148	-					
		0,022	-	16,671	10,00	0,220	188.085,867	166,710	220.205,866
1067	0,022		4,524	-					
		0,022	-	14,083	10,00	0,220	188.086,087	140,830	220.346,696
1068	0,000		9,560	-					
		0,000	-	18,990	10,00	0,000	188.086,087	189,900	220.536,596
1069	0,000		9,431	-					
		0,000	-	19,044	10,00	0,000	188.086,087	190,440	220.727,036
1070	0,000		9,613	-					
		0,000	-	19,218	10,00	0,000	188.086,087	192,180	220.919,216
1071	0,000		9,605	-					
		0,000	-	16,985	10,00	0,000	188.086,087	169,850	221.089,066
1072	0,000		7,380	-					
		0,000	-	16,595	10,00	0,000	188.086,087	165,950	221.255,016
1073	0,000		9,215	-					
		0,255	-	15,882	10,00	2,550	188.088,637	158,820	221.413,836
1074	0,255		6,668	-					
		0,255	-	14,113	10,00	2,550	188.091,187	141,130	221.554,966

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1075	0,000		7,446	-					
		0,000	-	11,795	10,00	0,000	188.091,187	117,950	221.672,916
1076	0,000		4,350	-					
		0,000	-	8,712	10,00	0,000	188.091,187	87,120	221.760,036
1077	0,000		4,363	-					
		0,437	-	6,168	10,00	4,370	188.095,557	61,680	221.821,716
1078	0,437		1,805	-					
		0,455	-	7,007	10,00	4,550	188.100,107	70,070	221.891,786
1079	0,018		5,202	-					
		0,018	-	23,273	10,00	0,180	188.100,287	232,730	222.124,516
1080	0,000		18,072	-					
		0,000	-	47,446	10,00	0,000	188.100,287	474,460	222.598,976
1081	0,000		29,374	-					
		0,000	-	64,880	10,00	0,000	188.100,287	648,800	223.247,776
1082	0,000		35,506	-					
		0,000	-	55,714	10,00	0,000	188.100,287	557,140	223.804,916
1083	0,000		20,208	-					
		0,000	-	29,202	10,00	0,000	188.100,287	292,020	224.096,936
1084	0,000		8,994	-					
		0,856	-	10,333	10,00	8,560	188.108,847	103,330	224.200,266
1085	0,856		1,339	-					
		1,324	-	2,568	10,00	13,240	188.122,087	25,680	224.225,946
1086	0,468		1,229	-					
		0,555	-	4,547	10,00	5,550	188.127,637	45,470	224.271,416
1087	0,087		3,318	-					
		0,087	-	10,359	10,00	0,870	188.128,507	103,590	224.375,006
1088	0,000		7,042	-					
		0,000	-	15,718	10,00	0,000	188.128,507	157,180	224.532,186
1089	0,000		8,677	-					
		0,000	-	18,929	10,00	0,000	188.128,507	189,290	224.721,476
1090	0,000		10,253	-					
		0,000	-	20,680	10,00	0,000	188.128,507	206,800	224.928,276
1091	0,000		10,427	-					
		0,000	-	19,795	10,00	0,000	188.128,507	197,950	225.126,226
1092	0,000		9,369	-					
		0,000	-	17,343	10,00	0,000	188.128,507	173,430	225.299,656
1093	0,000		7,975	-					
		0,000	-	16,369	10,00	0,000	188.128,507	163,690	225.463,346
1094	0,000		8,395	-					
		0,000	-	17,824	10,00	0,000	188.128,507	178,240	225.641,586
1095	0,000		9,430	-					
		0,000	-	18,959	5,06	0,000	188.128,507	95,837	225.737,423
1095+10,109	0,000		9,530	-					
		0,000	-	19,161	4,95	0,000	188.128,507	94,770	225.832,193
1096	0,000		9,632	-					
		0,000	-	21,317	10,00	0,000	188.128,507	213,170	226.045,363
1097	0,000		11,686	-					
		0,105	-	20,137	10,00	1,050	188.129,557	201,370	226.246,733
1098	0,105		8,451	-					
		0,105	-	18,558	10,00	1,050	188.130,607	185,580	226.432,313
1099	0,000		10,108	-					
		0,000	-	19,352	10,00	0,000	188.130,607	193,520	226.625,833
1100	0,000		9,245	-					
		0,000	-	15,990	10,00	0,000	188.130,607	159,900	226.785,733
1101	0,000		6,746	-					
		0,000	-	13,491	0,02	0,000	188.130,607	0,269	226.786,002
1101+0,039	0,000		6,746	-					
		0,003	-	10,330	9,98	0,030	188.130,637	103,103	226.889,105
1102	0,003		3,584	-					
		1,546	-	3,679	10,00	15,460	188.146,097	36,790	226.925,895
1103	1,543		0,096	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		1,954	-	1,330	10,00	19,540	188.165,637	13,300	226.939,195
1104	0,411		1,235	-					
		0,421	-	3,997	10,00	4,210	188.169,847	39,970	226.979,165
1105	0,010		2,762	-					
		0,085	-	7,918	10,00	0,850	188.170,697	79,180	227.058,345
1106	0,075		5,156	-					
		0,075	-	20,318	10,00	0,750	188.171,447	203,180	227.261,525
1107	0,000		15,162	-					
		0,000	-	22,565	10,00	0,000	188.171,447	225,650	227.487,175
1108	0,000		7,403	-					
		0,000	-	13,605	10,00	0,000	188.171,447	136,050	227.623,225
1109	0,000		6,202	-					
		0,000	-	12,804	10,00	0,000	188.171,447	128,040	227.751,265
1110	0,000		6,602	-					
		0,000	-	13,693	10,00	0,000	188.171,447	136,930	227.888,195
1111	0,000		7,092	-					
		0,000	-	23,968	10,00	0,000	188.171,447	239,680	228.127,875
1112	0,000		16,877	-					
		0,000	-	27,404	6,90	0,000	188.171,447	188,977	228.316,852
1112+13,79	0,000		10,527	-					
		0,000	-	19,061	3,11	0,000	188.171,447	59,184	228.376,036
1113	0,000		8,534	-					
		0,000	-	23,248	10,00	0,000	188.171,447	232,480	228.608,516
1114	0,000		14,715	-					
		0,000	-	27,501	10,00	0,000	188.171,447	275,010	228.883,526
1115	0,000		12,787	-					
		0,000	-	25,094	10,00	0,000	188.171,447	250,940	229.134,466
1116	0,000		12,308	-					
		0,000	-	24,365	10,00	0,000	188.171,447	243,650	229.378,116
1117	0,000		12,057	-					
		0,000	-	24,822	4,87	0,000	188.171,447	120,783	229.498,899
1117+9,731	0,000		12,765	-					
		0,000	-	25,090	5,14	0,000	188.171,447	128,837	229.627,736
1118	0,000		12,325	-					
		0,000	-	18,298	10,00	0,000	188.171,447	182,980	229.810,716
1119	0,000		5,974	-					
		0,000	-	11,401	10,00	0,000	188.171,447	114,010	229.924,726
1120	0,000		5,427	-					
		0,000	-	14,697	10,00	0,000	188.171,447	146,970	230.071,696
1121	0,000		9,270	-					
		0,000	-	18,820	0,70	0,000	188.171,447	13,079	230.084,775
1121+1,389	0,000		9,550	-					
		0,000	-	20,279	9,31	0,000	188.171,447	188,716	230.273,491
1122	0,000		10,729	-					
		0,168	-	19,762	10,00	1,680	188.173,127	197,620	230.471,111
1123	0,168		9,034	-					
		2,429	-	11,648	10,00	24,290	188.197,417	116,480	230.587,591
1124	2,261		2,615	-					
		10,050	-	2,615	10,00	100,500	188.297,917	26,150	230.613,741
1125	7,789		-	-					
		19,503	-	-	10,00	195,030	188.492,947	0,000	230.613,741
1126	11,714		-	-					
		33,944	-	-	10,00	339,440	188.832,387	0,000	230.613,741
1127	22,230		-	-					
		54,326	-	-	10,00	543,260	189.375,647	0,000	230.613,741
1128	32,096		-	-					
		70,132	-	-	5,00	350,941	189.726,587	0,000	230.613,741
1128+10,008	38,036		-	-					
		86,360	-	-	5,00	431,455	190.158,042	0,000	230.613,741
1129	48,324		-	-					
		118,670	-	-	10,00	1.186,700	191.344,742	0,000	230.613,741

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1130	70,346		-	-					
		163,896	-	-	10,00	1.638,960	192.983,702	0,000	230.613,741
1131	93,550		-	-					
		201,507	-	-	10,00	2.015,070	194.998,772	0,000	230.613,741
1132	107,957		-	-					
		222,534	-	-	10,00	2.225,340	197.224,112	0,000	230.613,741
1133	114,577		-	-					
		239,060	-	-	7,03	1.680,831	198.904,943	0,000	230.613,741
1133+14,06	124,483		-	-					
		251,286	-	-	2,97	746,319	199.651,262	0,000	230.613,741
1134	126,803		-	-					
		246,140	-	-	10,00	2.461,400	202.112,662	0,000	230.613,741
1135	119,337		-	-					
		255,007	-	-	10,00	2.550,070	204.662,732	0,000	230.613,741
1136	135,670		-	-					
		268,669	-	-	10,00	2.686,690	207.349,422	0,000	230.613,741
1137	132,999		-	-					
		270,599	-	-	10,00	2.705,990	210.055,412	0,000	230.613,741
1138	137,600		-	-					
		229,233	-	-	9,75	2.234,334	212.289,746	0,000	230.613,741
1138+19,494	91,633		-	-					
		188,840	-	-	0,25	47,777	212.337,523	0,000	230.613,741
1139	97,207		-	-					
		192,623	-	-	0,49	93,807	212.431,330	0,000	230.613,741
1139+0,973	95,416		-	-					
		172,292	-	-	9,51	1.639,186	214.070,516	0,000	230.613,741
1140	76,876		-	-					
		148,095	-	-	10,00	1.480,950	215.551,466	0,000	230.613,741
1141	71,219		-	-					
		139,555	-	-	10,00	1.395,550	216.947,016	0,000	230.613,741
1142	68,336		-	-					
		128,791	-	-	10,00	1.287,910	218.234,926	0,000	230.613,741
1143	60,455		-	-					
		104,310	-	-	8,11	845,745	219.080,672	0,000	230.613,741
1143+16,216	43,855		-	-					
		86,411	-	-	0,80	69,302	219.149,973	0,000	230.613,741
1143+17,819	42,556		-	-					
		86,593	-	-	1,09	94,473	219.244,446	0,000	230.613,741
1144	44,037		-	-					
		66,845	-	-	10,00	668,450	219.912,896	0,000	230.613,741
1145	22,808		-	-					
		23,497	-	4,492	10,00	234,970	220.147,866	44,920	230.658,661
1146	0,689		4,493	-					
		0,689	-	40,463	10,00	6,890	220.154,756	404,630	231.063,291
1147	0,000		35,971	-					
		0,000	-	99,530	10,00	0,000	220.154,756	995,300	232.058,591
1148	0,000		63,559	-					
		0,000	-	162,101	10,00	0,000	220.154,756	1.621,010	233.679,601
1149	0,000		98,542	-					
		0,000	-	249,510	9,48	0,000	220.154,756	2.364,606	236.044,207
1149+18,953	0,000		150,968	-					
		0,000	-	303,309	0,52	0,000	220.154,756	158,933	236.203,140
1150	0,000		152,341	-					
		0,000	-	353,112	10,00	0,000	220.154,756	3.531,120	239.734,260
1151	0,000		200,771	-					
		0,000	-	408,284	10,00	0,000	220.154,756	4.082,840	243.817,100
1152	0,000		207,514	-					
		0,000	-	405,210	3,91	0,000	220.154,756	1.582,750	245.399,850
1152+7,812	0,000		197,697	-					
		0,000	-	370,105	6,09	0,000	220.154,756	2.255,419	247.655,269
1153	0,000		172,408	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	273,484	10,00	0,000	220.154,756	2.734,840	250.390,109
1154	0,000		101,076	-					
		0,000	-	152,197	10,00	0,000	220.154,756	1.521,970	251.912,079
1155	0,000		51,121	-					
		0,000	-	70,392	10,00	0,000	220.154,756	703,920	252.615,999
1156	0,000		19,271	-					
		16,675	-	19,271	10,00	166,750	220.321,506	192,710	252.808,709
1157	16,675		-	-					
		56,440	-	-	10,00	564,400	220.885,906	0,000	252.808,709
1158	39,765		-	-					
		81,544	-	-	10,00	815,440	221.701,346	0,000	252.808,709
1159	41,779		-	-					
		59,639	-	-	10,00	596,390	222.297,736	0,000	252.808,709
1160	17,860		-	-					
		20,578	-	1,608	10,00	205,780	222.503,516	16,080	252.824,789
1161	2,718		1,608	-					
		5,849	-	2,281	10,00	58,490	222.562,006	22,810	252.847,599
1162	3,131		0,673	-					
		18,305	-	0,673	10,00	183,050	222.745,056	6,730	252.854,329
1163	15,174		-	-					
		42,763	-	-	10,00	427,630	223.172,686	0,000	252.854,329
1164	27,589		-	-					
		52,735	-	-	10,00	527,350	223.700,036	0,000	252.854,329
1165	25,146		-	-					
		32,716	-	-	10,00	327,160	224.027,196	0,000	252.854,329
1166	7,570		-	-					
		15,630	-	0,122	10,00	156,300	224.183,496	1,220	252.855,549
1167	8,060		0,122	-					
		8,060	-	8,768	10,00	80,600	224.264,096	87,680	252.943,229
1168	0,000		8,647	-					
		0,000	-	28,715	10,00	0,000	224.264,096	287,150	253.230,379
1169	0,000		20,068	-					
		0,000	-	59,008	10,00	0,000	224.264,096	590,080	253.820,459
1170	0,000		38,940	-					
		0,000	-	75,999	3,21	0,000	224.264,096	243,880	254.064,339
1170+6,417	0,000		37,060	-					
		0,000	-	72,335	6,79	0,000	224.264,096	491,299	254.555,638
1171	0,000		35,276	-					
		0,456	-	60,377	10,00	4,560	224.268,656	603,770	255.159,408
1172	0,456		25,101	-					
		2,623	-	41,585	10,00	26,230	224.294,886	415,850	255.575,258
1173	2,167		16,484	-					
		8,918	-	26,825	10,00	89,180	224.384,066	268,250	255.843,508
1174	6,751		10,341	-					
		11,364	-	13,148	10,00	113,640	224.497,706	131,480	255.974,988
1175	4,613		2,808	-					
		17,380	-	2,853	10,00	173,800	224.671,506	28,530	256.003,518
1176	12,767		0,045	-					
		59,766	-	0,045	10,00	597,660	225.269,166	0,450	256.003,968
1177	46,999		-	-					
		113,460	-	-	10,00	1.134,600	226.403,766	0,000	256.003,968
1178	66,461		-	-					
		138,893	-	-	5,55	771,134	227.174,900	0,000	256.003,968
1178+11,104	72,432		-	-					
		131,809	-	-	4,45	586,286	227.761,186	0,000	256.003,968
1179	59,377		-	-					
		86,034	-	-	10,00	860,340	228.621,526	0,000	256.003,968
1180	26,657		-	-					
		33,023	-	0,746	10,00	330,230	228.951,756	7,460	256.011,428
1181	6,366		0,747	-					
		7,347	-	2,168	10,00	73,470	229.025,226	21,680	256.033,108

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1182	0,981		1,422	-					
		14,995	-	1,421	10,00	149,950	229.175,176	14,210	256.047,318
1183	14,014		-	-					
		30,302	-	-	10,00	303,020	229.478,196	0,000	256.047,318
1184	16,288		-	-					
		29,591	-	-	4,17	123,335	229.601,532	0,000	256.047,318
1184+8,335	13,303		-	-					
		25,087	-	-	4,27	107,197	229.708,728	0,000	256.047,318
1184+16,881	11,784		-	-					
		23,857	-	-	1,56	37,217	229.745,945	0,000	256.047,318
1185	12,073		-	-					
		14,556	-	0,067	10,00	145,560	229.891,505	0,670	256.047,988
1186	2,483		0,067	-					
		2,847	-	4,077	10,00	28,470	229.919,975	40,770	256.088,758
1187	0,364		4,010	-					
		1,541	-	9,359	10,00	15,410	229.935,385	93,590	256.182,348
1188	1,177		5,349	-					
		2,586	-	9,619	10,00	25,860	229.961,245	96,190	256.278,538
1189	1,409		4,270	-					
		4,630	-	4,270	10,00	46,300	230.007,545	42,700	256.321,238
1190	3,221		-	-					
		11,003	-	-	4,76	52,374	230.059,920	0,000	256.321,238
1190+9,519	7,782		-	-					
		24,234	-	-	5,24	127,010	230.186,930	0,000	256.321,238
1191	16,452		-	-					
		79,646	-	-	10,00	796,460	230.983,390	0,000	256.321,238
1192	63,194		-	-					
		76,559	-	-	10,00	765,590	231.748,980	0,000	256.321,238
1193	13,365		-	-					
		13,553	-	1,874	10,00	135,530	231.884,510	18,740	256.339,978
1194	0,188		1,874	-					
		0,188	-	12,553	10,00	1,880	231.886,390	125,530	256.465,508
1195	0,000		10,679	-					
		3,697	-	21,468	10,00	36,970	231.923,360	214,680	256.680,188
1196	3,697		10,789	-					
		3,697	-	24,365	10,00	36,970	231.960,330	243,650	256.923,838
1197	0,000		13,576	-					
		4,133	-	24,271	10,00	41,330	232.001,660	242,710	257.166,548
1198	4,133		10,695	-					
		4,181	-	33,965	10,00	41,810	232.043,470	339,650	257.506,198
1199	0,048		23,271	-					
		0,048	-	36,423	10,00	0,480	232.043,950	364,230	257.870,428
1200	0,000		13,153	-					
		37,369	-	22,108	10,00	373,690	232.417,640	221,080	258.091,508
1201	37,369		8,955	-					
		100,811	-	13,646	10,00	1.008,110	233.425,750	136,460	258.227,968
1202	63,442		4,691	-					
		114,501	-	4,691	10,00	1.145,010	234.570,760	46,910	258.274,878
1203	51,059		-	-					
		54,838	-	3,023	10,00	548,380	235.119,140	30,230	258.305,108
1204	3,779		3,024	-					
		3,779	-	60,359	10,00	37,790	235.156,930	603,590	258.908,698
1205	0,000		57,336	-					
		0,000	-	97,308	10,00	0,000	235.156,930	973,080	259.881,778
1206	0,000		39,972	-					
		0,000	-	62,390	10,00	0,000	235.156,930	623,900	260.505,678
1207	0,000		22,419	-					
		0,411	-	28,901	10,00	4,110	235.161,040	289,010	260.794,688
1208	0,411		6,483	-					
		5,938	-	7,561	4,82	28,627	235.189,667	36,451	260.831,139
1208+9,641	5,527		1,079	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		5,694	-	6,731	5,18	29,495	235.219,162	34,866	260.866,005
1209	0,167		5,653	-					
		5,436	-	5,655	10,00	54,360	235.273,522	56,550	260.922,555
1210	5,269		0,003	-					
		40,204	-	0,003	10,00	402,040	235.675,562	0,030	260.922,585
1211	34,935		-	-					
		82,736	-	-	10,00	827,360	236.502,922	0,000	260.922,585
1212	47,801		-	-					
		142,858	-	-	10,00	1.428,580	237.931,502	0,000	260.922,585
1213	95,057		-	-					
		160,794	-	-	10,00	1.607,940	239.539,442	0,000	260.922,585
1214	65,737		-	-					
		119,171	-	-	10,00	1.191,710	240.731,152	0,000	260.922,585
1215	53,434		-	-					
		96,486	-	-	7,03	678,490	241.409,642	0,000	260.922,585
1215+14,064	43,052		-	-					
		80,070	-	-	2,97	237,648	241.647,289	0,000	260.922,585
1216	37,018		-	-					
		53,691	-	-	10,00	536,910	242.184,199	0,000	260.922,585
1217	16,673		-	-					
		18,431	-	0,165	8,60	158,433	242.342,632	1,418	260.924,003
1217+17,192	1,758		0,166	-					
		2,595	-	0,958	1,40	3,643	242.346,276	1,345	260.925,348
1218	0,837		0,792	-					
		0,871	-	11,834	10,00	8,710	242.354,986	118,340	261.043,688
1219	0,034		11,043	-					
		0,977	-	22,423	10,00	9,770	242.364,756	224,230	261.267,918
1220	0,943		11,381	-					
		0,943	-	26,541	10,00	9,430	242.374,186	265,410	261.533,328
1221	0,000		15,161	-					
		0,000	-	31,474	10,00	0,000	242.374,186	314,740	261.848,068
1222	0,000		16,313	-					
		0,081	-	19,257	10,00	0,810	242.374,996	192,570	262.040,638
1223	0,081		2,944	-					
		4,237	-	7,329	2,29	9,690	242.384,686	16,761	262.057,399
1223+4,574	4,156		4,386	-					
		20,046	-	4,386	7,71	154,615	242.539,300	33,829	262.091,228
1224	15,890		-	-					
		36,934	-	-	10,00	369,340	242.908,640	0,000	262.091,228
1225	21,044		-	-					
		56,948	-	-	10,00	569,480	243.478,120	0,000	262.091,228
1226	35,904		-	-					
		91,305	-	-	10,00	913,050	244.391,170	0,000	262.091,228
1227	55,401		-	-					
		107,113	-	-	10,00	1.071,130	245.462,300	0,000	262.091,228
1228	51,712		-	-					
		88,153	-	-	10,00	881,530	246.343,830	0,000	262.091,228
1229	36,441		-	-					
		38,820	-	3,773	10,00	388,200	246.732,030	37,730	262.128,958
1230	2,379		3,774	-					
		2,379	-	31,835	10,00	23,790	246.755,820	318,350	262.447,308
1231	0,000		28,062	-					
		0,000	-	60,380	1,60	0,000	246.755,820	96,306	262.543,614
1231+3,189	0,000		32,318	-					
		0,000	-	77,899	8,41	0,000	246.755,820	654,818	263.198,432
1232	0,000		45,581	-					
		0,000	-	133,785	10,00	0,000	246.755,820	1.337,850	264.536,282
1233	0,000		88,204	-					
		0,000	-	228,859	10,00	0,000	246.755,820	2.288,590	266.824,872
1234	0,000		140,655	-					
		0,000	-	247,479	10,00	0,000	246.755,820	2.474,790	269.299,662

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1235	0,000		106,824	-					
		0,000	-	144,499	10,00	0,000	246.755,820	1.444,990	270.744,652
1236	0,000		37,675	-					
		25,276	-	37,675	10,00	252,760	247.008,580	376,750	271.121,402
1237	25,276		-	-					
		46,221	-	-	3,16	145,966	247.154,546	0,000	271.121,402
1237+6,315	20,945		-	-					
		41,980	-	-	6,84	287,269	247.441,816	0,000	271.121,402
1238	21,035		-	-					
		28,168	-	7,071	10,00	281,680	247.723,496	70,710	271.192,112
1239	7,133		7,072	-					
		7,784	-	24,593	10,00	77,840	247.801,336	245,930	271.438,042
1240	0,651		17,522	-					
		0,651	-	53,764	10,00	6,510	247.807,846	537,640	271.975,682
1241	0,000		36,242	-					
		0,000	-	85,476	10,00	0,000	247.807,846	854,760	272.830,442
1242	0,000		49,234	-					
		0,000	-	94,015	10,00	0,000	247.807,846	940,150	273.770,592
1243	0,000		44,781	-					
		1,796	-	49,669	10,00	17,960	247.825,806	496,690	274.267,282
1244	1,796		4,889	-					
		31,586	-	4,888	10,00	315,860	248.141,666	48,880	274.316,162
1245	29,790		-	-					
		80,707	-	-	10,00	807,070	248.948,736	0,000	274.316,162
1246	50,917		-	-					
		107,149	-	-	10,00	1.071,490	250.020,226	0,000	274.316,162
1247	56,232		-	-					
		69,377	-	0,001	10,00	693,770	250.713,996	0,010	274.316,172
1248	13,145		0,002	-					
		13,145	-	28,934	10,00	131,450	250.845,446	289,340	274.605,512
1249	0,000		28,933	-					
		0,000	-	87,933	10,00	0,000	250.845,446	879,330	275.484,842
1250	0,000		59,001	-					
		0,000	-	115,388	10,00	0,000	250.845,446	1.153,880	276.638,722
1251	0,000		56,387	-					
		0,000	-	75,010	10,00	0,000	250.845,446	750,100	277.388,822
1252	0,000		18,623	-					
		23,339	-	18,623	10,00	233,390	251.078,836	186,230	277.575,052
1253	23,339		-	-					
		59,128	-	-	2,49	147,110	251.225,946	0,000	277.575,052
1253+4,975	35,789		-	-					
		101,919	-	-	7,51	765,717	251.991,663	0,000	277.575,052
1254	66,130		-	-					
		170,193	-	-	10,00	1.701,930	253.693,593	0,000	277.575,052
1255	104,063		-	-					
		335,905	-	-	10,00	3.359,050	257.052,643	0,000	277.575,052
1256	231,842		-	-					
		438,734	-	-	10,00	4.387,340	261.439,983	0,000	277.575,052
1257	206,892		-	-					
		413,033	-	-	10,00	4.130,330	265.570,313	0,000	277.575,052
1258	206,141		-	-					
		290,082	-	-	10,00	2.900,820	268.471,133	0,000	277.575,052
1259	83,941		-	-					
		136,367	-	-	7,19	981,024	269.452,158	0,000	277.575,052
1259+14,387	52,426		-	-					
		93,500	-	-	2,81	262,455	269.714,612	0,000	277.575,052
1260	41,074		-	-					
		70,425	-	-	4,08	286,982	270.001,594	0,000	277.575,052
1260+8,150	29,351		-	-					
		48,933	-	-	5,93	289,928	270.291,522	0,000	277.575,052
1261	19,582		-	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		31,241	-	-	10,00	312,410	270.603,932	0,000	277.575,052
1262	11,659		-	-					
		34,106	-	-	10,00	341,060	270.944,992	0,000	277.575,052
1263	22,447		-	-					
		45,516	-	-	10,00	455,160	271.400,152	0,000	277.575,052
1264	23,069		-	-					
		33,358	-	-	10,00	333,580	271.733,732	0,000	277.575,052
1265	10,289		-	-					
		10,289	-	20,644	10,00	102,890	271.836,622	206,440	277.781,492
1266	0,000		20,645	-					
		0,000	-	50,012	3,34	0,000	271.836,622	167,190	277.948,682
1266+6,686	0,000		29,368	-					
		0,000	-	72,869	6,66	0,000	271.836,622	485,088	278.433,770
1267	0,000		43,502	-					
		0,000	-	90,113	10,00	0,000	271.836,622	901,130	279.334,900
1268	0,000		46,612	-					
		0,000	-	96,246	10,00	0,000	271.836,622	962,460	280.297,360
1269	0,000		49,635	-					
		0,000	-	91,602	10,00	0,000	271.836,622	916,020	281.213,380
1270	0,000		41,967	-					
		0,000	-	76,389	10,00	0,000	271.836,622	763,890	281.977,270
1271	0,000		34,423	-					
		0,061	-	47,416	10,00	0,610	271.837,232	474,160	282.451,430
1272	0,061		12,994	-					
		9,229	-	12,993	10,00	92,290	271.929,522	129,930	282.581,360
1273	9,168		-	-					
		37,648	-	-	10,00	376,480	272.306,002	0,000	282.581,360
1274	28,480		-	-					
		95,881	-	-	8,41	806,551	273.112,553	0,000	282.581,360
1274+16,824	67,401		-	-					
		135,872	-	-	1,59	215,765	273.328,318	0,000	282.581,360
1275	68,471		-	-					
		150,905	-	-	10,00	1.509,050	274.837,368	0,000	282.581,360
1276	82,434		-	-					
		153,239	-	-	10,00	1.532,390	276.369,758	0,000	282.581,360
1277	70,806		-	-					
		142,952	-	-	10,00	1.429,520	277.799,278	0,000	282.581,360
1278	72,147		-	-					
		129,643	-	-	10,00	1.296,430	279.095,708	0,000	282.581,360
1279	57,497		-	-					
		99,609	-	-	10,00	996,090	280.091,798	0,000	282.581,360
1280	42,112		-	-					
		84,071	-	-	0,09	7,903	280.099,700	0,000	282.581,360
1280+0,187	41,959		-	-					
		71,320	-	-	9,91	706,567	280.806,268	0,000	282.581,360
1281	29,362		-	-					
		51,089	-	-	10,00	510,890	281.317,158	0,000	282.581,360
1282	21,727		-	-					
		35,212	-	-	10,00	352,120	281.669,278	0,000	282.581,360
1283	13,485		-	-					
		20,653	-	-	10,00	206,530	281.875,808	0,000	282.581,360
1284	7,168		-	-					
		10,733	-	-	10,00	107,330	281.983,138	0,000	282.581,360
1285	3,565		-	-					
		6,301	-	-	10,00	63,010	282.046,148	0,000	282.581,360
1286	2,736		-	-					
		5,370	-	-	10,00	53,700	282.099,848	0,000	282.581,360
1287	2,634		-	-					
		4,927	-	-	10,00	49,270	282.149,118	0,000	282.581,360
1288	2,294		-	-					
		3,879	-	-	10,00	38,790	282.187,908	0,000	282.581,360

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1289	1,586		-	-					
		2,389	-	-	10,00	23,890	282.211,798	0,000	282.581,360
1290	0,803		-	-					
		0,908	-	1,462	10,00	9,080	282.220,878	14,620	282.595,980
1291	0,105		1,463	-					
		0,382	-	6,449	10,00	3,820	282.224,698	64,490	282.660,470
1292	0,277		4,987	-					
		0,277	-	13,875	5,69	1,576	282.226,274	78,948	282.739,418
1292+11,380	0,000		8,888	-					
		0,000	-	23,907	4,31	0,000	282.226,274	103,039	282.842,457
1293	0,000		15,020	-					
		0,000	-	33,472	10,00	0,000	282.226,274	334,720	283.177,177
1294	0,000		18,452	-					
		0,000	-	37,397	10,00	0,000	282.226,274	373,970	283.551,147
1295	0,000		18,946	-					
		0,000	-	50,560	10,00	0,000	282.226,274	505,600	284.056,747
1296	0,000		31,615	-					
		0,000	-	47,107	10,00	0,000	282.226,274	471,070	284.527,817
1297	0,000		15,493	-					
		0,000	-	29,523	10,00	0,000	282.226,274	295,230	284.823,047
1298	0,000		14,030	-					
		0,020	-	24,891	10,00	0,200	282.226,474	248,910	285.071,957
1299	0,020		10,861	-					
		0,020	-	21,803	5,51	0,110	282.226,584	120,199	285.192,156
1299+11,025	0,000		10,942	-					
		0,000	-	21,134	4,49	0,000	282.226,584	94,849	285.287,005
1300	0,000		10,192	-					
		0,000	-	16,582	10,00	0,000	282.226,584	165,820	285.452,825
1301	0,000		6,390	-					
		0,000	-	13,237	10,00	0,000	282.226,584	132,370	285.585,195
1302	0,000		6,848	-					
		0,000	-	11,609	10,00	0,000	282.226,584	116,090	285.701,285
1303	0,000		4,762	-					
		0,000	-	11,662	10,00	0,000	282.226,584	116,620	285.817,905
1304	0,000		6,901	-					
		0,000	-	13,593	10,00	0,000	282.226,584	135,930	285.953,835
1305	0,000		6,693	-					
		0,000	-	12,765	10,00	0,000	282.226,584	127,650	286.081,485
1306	0,000		6,072	-					
		0,000	-	15,898	10,00	0,000	282.226,584	158,980	286.240,465
1307	0,000		9,826	-					
		0,000	-	18,637	10,00	0,000	282.226,584	186,370	286.426,835
1308	0,000		8,811	-					
		0,000	-	18,065	7,45	0,000	282.226,584	134,656	286.561,491
1308+14,906	0,000		9,254	-					
		0,000	-	19,063	2,55	0,000	282.226,584	48,534	286.610,025
1309	0,000		9,809	-					
		0,000	-	25,058	10,00	0,000	282.226,584	250,580	286.860,605
1310	0,000		15,250	-					
		0,000	-	33,323	10,00	0,000	282.226,584	333,230	287.193,835
1311	0,000		18,073	-					
		0,000	-	40,271	10,00	0,000	282.226,584	402,710	287.596,545
1312	0,000		22,198	-					
		0,000	-	41,292	10,00	0,000	282.226,584	412,920	288.009,465
1313	0,000		19,094	-					
		0,000	-	38,437	10,00	0,000	282.226,584	384,370	288.393,835
1314	0,000		19,343	-					
		0,000	-	40,789	4,04	0,000	282.226,584	164,705	288.558,540
1314+8,075	0,000		21,446	-					
		0,000	-	38,639	5,96	0,000	282.226,584	230,404	288.788,944
1315	0,000		17,193	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	32,654	10,00	0,000	282.226,584	326,540	289.115,484
1316	0,000		15,461	-					
		0,000	-	32,499	10,00	0,000	282.226,584	324,990	289.440,474
1317	0,000		17,038	-					
		0,000	-	27,550	10,00	0,000	282.226,584	275,500	289.715,974
1318	0,000		10,512	-					
		0,000	-	19,689	10,00	0,000	282.226,584	196,890	289.912,864
1319	0,000		9,178	-					
		1,690	-	9,467	10,00	16,900	282.243,484	94,670	290.007,534
1320	1,690		0,290	-					
		1,690	-	4,201	10,00	16,900	282.260,384	42,010	290.049,544
1321	0,000		3,912	-					
		0,000	-	15,688	8,89	0,000	282.260,384	139,450	290.188,994
1321+17,778	0,000		11,777	-					
		0,000	-	23,654	1,11	0,000	282.260,384	26,279	290.215,273
1322	0,000		11,877	-					
		0,000	-	28,469	10,00	0,000	282.260,384	284,690	290.499,963
1323	0,000		16,592	-					
		0,000	-	40,110	10,00	0,000	282.260,384	401,100	290.901,063
1324	0,000		23,518	-					
		0,000	-	52,823	10,00	0,000	282.260,384	528,230	291.429,293
1325	0,000		29,305	-					
		0,000	-	63,021	10,00	0,000	282.260,384	630,210	292.059,503
1326	0,000		33,717	-					
		0,000	-	66,169	10,00	0,000	282.260,384	661,690	292.721,193
1327	0,000		32,453	-					
		0,000	-	59,789	10,00	0,000	282.260,384	597,890	293.319,083
1328	0,000		27,337	-					
		0,000	-	48,492	10,00	0,000	282.260,384	484,920	293.804,003
1329	0,000		21,155	-					
		0,000	-	37,941	10,00	0,000	282.260,384	379,410	294.183,413
1330	0,000		16,786	-					
		0,000	-	30,058	10,00	0,000	282.260,384	300,580	294.483,993
1331	0,000		13,272	-					
		0,000	-	26,349	2,66	0,000	282.260,384	70,061	294.554,054
1331+5,317	0,000		13,077	-					
		0,000	-	23,326	7,34	0,000	282.260,384	171,259	294.725,313
1332	0,000		10,250	-					
		0,036	-	15,732	10,00	0,360	282.260,744	157,320	294.882,633
1333	0,036		5,482	-					
		0,036	-	11,609	10,00	0,360	282.261,104	116,090	294.998,723
1334	0,000		6,127	-					
		0,000	-	12,328	10,00	0,000	282.261,104	123,280	295.122,003
1335	0,000		6,201	-					
		0,000	-	11,679	2,49	0,000	282.261,104	29,127	295.151,130
1335+4,987	0,000		5,479	-					
		0,429	-	13,309	7,51	3,221	282.264,325	99,910	295.251,040
1336	0,429		7,831	-					
		1,253	-	15,990	10,00	12,530	282.276,855	159,900	295.410,940
1337	0,824		8,160	-					
		0,929	-	16,397	10,00	9,290	282.286,145	163,970	295.574,910
1338	0,105		8,238	-					
		0,306	-	17,901	10,00	3,060	282.289,205	179,010	295.753,920
1339	0,201		9,663	-					
		0,201	-	24,300	10,00	2,010	282.291,215	243,000	295.996,920
1340	0,000		14,638	-					
		0,000	-	32,537	6,16	0,000	282.291,215	200,558	296.197,478
1340+12,328	0,000		17,900	-					
		0,000	-	37,704	3,84	0,000	282.291,215	144,632	296.342,110
1341	0,000		19,805	-					
		0,000	-	43,363	7,74	0,000	282.291,215	335,499	296.677,609

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1341+15,474	0,000		23,559	-					
		0,000	-	48,734	2,26	0,000	282.291,215	110,285	296.787,894
1342	0,000		25,176	-					
		0,000	-	53,719	10,00	0,000	282.291,215	537,190	297.325,084
1343	0,000		28,543	-					
		0,160	-	37,538	10,00	1,600	282.292,815	375,380	297.700,464
1344	0,160		8,996	-					
		1,361	-	31,726	10,00	13,610	282.306,425	317,260	298.017,724
1345	1,201		22,730	-					
		3,909	-	36,126	10,00	39,090	282.345,515	361,260	298.378,984
1346	2,708		13,396	-					
		12,232	-	13,396	10,00	122,320	282.467,835	133,960	298.512,944
1347	9,524		-	-					
		17,045	-	-	10,00	170,450	282.638,285	0,000	298.512,944
1348	7,521		-	-					
		14,953	-	-	10,00	149,530	282.787,815	0,000	298.512,944
1349	7,432		-	-					
		17,589	-	-	10,00	175,890	282.963,705	0,000	298.512,944
1350	10,157		-	-					
		16,387	-	0,004	10,00	163,870	283.127,575	0,040	298.512,984
1351	6,230		0,005	-					
		12,029	-	0,018	10,00	120,290	283.247,865	0,180	298.513,164
1352	5,799		0,014	-					
		6,910	-	0,450	10,00	69,100	283.316,965	4,500	298.517,664
1353	1,111		0,437	-					
		3,075	-	2,928	10,00	30,750	283.347,715	29,280	298.546,944
1354	1,964		2,491	-					
		5,309	-	6,664	10,00	53,090	283.400,805	66,640	298.613,584
1355	3,345		4,173	-					
		7,400	-	9,565	10,00	74,000	283.474,805	95,650	298.709,234
1356	4,055		5,393	-					
		7,064	-	12,093	10,00	70,640	283.545,445	120,930	298.830,164
1357	3,009		6,700	-					
		6,009	-	12,080	3,56	21,362	283.566,807	42,944	298.873,108
1357+7,110	3,000		5,380	-					
		4,335	-	10,157	6,45	27,939	283.594,746	65,461	298.938,569
1358	1,335		4,777	-					
		1,335	-	11,369	10,00	13,350	283.608,096	113,690	299.052,259
1359	0,000		6,592	-					
		0,000	-	17,752	6,34	0,000	283.608,096	112,529	299.164,788
1359+12,677	0,000		11,160	-					
		0,000	-	23,543	3,66	0,000	283.608,096	86,214	299.251,002
1360	0,000		12,383	-					
		0,000	-	33,409	10,00	0,000	283.608,096	334,090	299.585,092
1361	0,000		21,027	-					
		0,000	-	51,927	10,00	0,000	283.608,096	519,270	300.104,362
1362	0,000		30,901	-					
		0,000	-	68,172	10,00	0,000	283.608,096	681,720	300.786,082
1363	0,000		37,271	-					
		0,000	-	77,905	10,00	0,000	283.608,096	779,050	301.565,132
1364	0,000		40,635	-					
		0,000	-	67,752	10,00	0,000	283.608,096	677,520	302.242,652
1365	0,000		27,118	-					
		0,000	-	46,116	10,00	0,000	283.608,096	461,160	302.703,812
1366	0,000		18,999	-					
		0,000	-	32,648	5,01	0,000	283.608,096	163,435	302.867,247
1366+10,011	0,000		13,650	-					
		0,249	-	20,688	5,00	1,244	283.609,339	103,336	302.970,583
1367	0,249		7,039	-					
		10,688	-	7,038	10,00	106,880	283.716,219	70,380	303.040,963
1368	10,439		-	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		26,912	-	-	10,00	269,120	283.985,339	0,000	303.040,963
1369	16,473		-	-					
		33,142	-	-	3,66	121,300	284.106,639	0,000	303.040,963
1369+7,319	16,669		-	-					
		30,436	-	-	6,34	192,995	284.299,634	0,000	303.040,963
1370	13,767		-	-					
		19,141	-	-	10,00	191,410	284.491,044	0,000	303.040,963
1371	5,374		-	-					
		7,285	-	3,070	10,00	72,850	284.563,894	30,700	303.071,663
1372	1,911		3,071	-					
		3,423	-	10,945	10,00	34,230	284.598,124	109,450	303.181,113
1373	1,512		7,875	-					
		3,501	-	14,473	10,00	35,010	284.633,134	144,730	303.325,843
1374	1,989		6,599	-					
		3,937	-	10,940	10,00	39,370	284.672,504	109,400	303.435,243
1375	1,948		4,342	-					
		3,708	-	7,173	10,00	37,080	284.709,584	71,730	303.506,973
1376	1,760		2,831	-					
		2,070	-	7,173	10,00	20,700	284.730,284	71,730	303.578,703
1377	0,310		4,342	-					
		0,331	-	7,948	5,68	1,880	284.732,164	45,144	303.623,847
1377+11,359	0,021		3,606	-					
		0,021	-	6,102	4,32	0,091	284.732,255	26,366	303.650,213
1378	0,000		2,496	-					
		0,015	-	4,304	10,00	0,150	284.732,405	43,040	303.693,253
1379	0,015		1,809	-					
		0,998	-	2,749	10,00	9,980	284.742,385	27,490	303.720,743
1380	0,983		0,941	-					
		1,498	-	1,609	10,00	14,980	284.757,365	16,090	303.736,833
1381	0,515		0,669	-					
		1,267	-	1,067	10,00	12,670	284.770,035	10,670	303.747,503
1382	0,752		0,399	-					
		0,920	-	2,315	10,00	9,200	284.779,235	23,150	303.770,653
1383	0,168		1,917	-					
		0,349	-	4,837	10,00	3,490	284.782,725	48,370	303.819,023
1384	0,181		2,920	-					
		0,282	-	7,652	10,00	2,820	284.785,545	76,520	303.895,543
1385	0,101		4,732	-					
		0,202	-	10,301	10,00	2,020	284.787,565	103,010	303.998,553
1386	0,101		5,570	-					
		0,101	-	13,486	10,00	1,010	284.788,575	134,860	304.133,413
1387	0,000		7,917	-					
		0,000	-	18,322	4,59	0,000	284.788,575	84,024	304.217,437
1387+9,171	0,000		10,405	-					
		0,000	-	23,248	5,42	0,000	284.788,575	125,887	304.343,324
1388	0,000		12,843	-					
		0,000	-	26,438	10,00	0,000	284.788,575	264,380	304.607,704
1389	0,000		13,595	-					
		0,043	-	26,522	10,00	0,430	284.789,005	265,220	304.872,924
1390	0,043		12,928	-					
		0,043	-	27,927	10,00	0,430	284.789,435	279,270	305.152,194
1391	0,000		15,000	-					
		0,472	-	29,462	10,00	4,720	284.794,155	294,620	305.446,814
1392	0,472		14,462	-					
		1,123	-	28,877	10,00	11,230	284.805,385	288,770	305.735,584
1393	0,651		14,415	-					
		0,655	-	30,597	10,00	6,550	284.811,935	305,970	306.041,554
1394	0,004		16,182	-					
		0,004	-	31,803	10,00	0,040	284.811,975	318,030	306.359,584
1395	0,000		15,621	-					
		0,000	-	31,165	1,55	0,000	284.811,975	48,243	306.407,827

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1395+3,096	0,000		15,544	-					
		0,000	-	31,098	0,17	0,000	284.811,975	5,162	306.412,989
1395+3,428	0,000		15,554	-					
		0,000	-	30,266	8,29	0,000	284.811,975	250,784	306.663,773
1396	0,000		14,713	-					
		0,000	-	30,580	10,00	0,000	284.811,975	305,800	306.969,573
1397	0,000		15,867	-					
		0,000	-	31,480	10,00	0,000	284.811,975	314,800	307.284,373
1398	0,000		15,613	-					
		0,000	-	28,704	10,00	0,000	284.811,975	287,040	307.571,413
1399	0,000		13,091	-					
		0,000	-	24,064	10,00	0,000	284.811,975	240,640	307.812,053
1400	0,000		10,974	-					
		0,000	-	23,781	10,00	0,000	284.811,975	237,810	308.049,863
1401	0,000		12,807	-					
		0,000	-	27,114	10,00	0,000	284.811,975	271,140	308.321,003
1402	0,000		14,307	-					
		0,000	-	27,957	3,86	0,000	284.811,975	108,025	308.429,028
1402+7,727	0,000		13,650	-					
		0,000	-	25,021	6,14	0,000	284.811,975	153,553	308.582,581
1403	0,000		11,371	-					
		0,000	-	19,288	10,00	0,000	284.811,975	192,880	308.775,461
1404	0,000		7,917	-					
		0,000	-	14,600	10,00	0,000	284.811,975	146,000	308.921,461
1405	0,000		6,683	-					
		0,000	-	15,510	10,00	0,000	284.811,975	155,100	309.076,561
1406	0,000		8,827	-					
		0,000	-	16,764	10,00	0,000	284.811,975	167,640	309.244,201
1407	0,000		7,937	-					
		0,000	-	16,235	6,93	0,000	284.811,975	112,492	309.356,693
1407+13,858	0,000		8,298	-					
		0,000	-	17,606	3,07	0,000	284.811,975	54,068	309.410,761
1408	0,000		9,309	-					
		0,018	-	17,522	10,00	0,180	284.812,155	175,220	309.585,981
1409	0,018		8,213	-					
		0,146	-	18,461	10,00	1,460	284.813,615	184,610	309.770,591
1410	0,128		10,249	-					
		0,644	-	17,504	10,00	6,440	284.820,055	175,040	309.945,631
1411	0,516		7,256	-					
		0,516	-	18,889	10,00	5,160	284.825,215	188,890	310.134,521
1412	0,000		11,633	-					
		0,000	-	22,326	8,79	0,000	284.825,215	196,334	310.330,855
1412+17,588	0,000		10,693	-					
		0,000	-	21,327	1,21	0,000	284.825,215	25,720	310.356,575
1413	0,000		10,634	-					
		0,050	-	15,204	10,00	0,500	284.825,715	152,040	310.508,615
1414	0,050		4,571	-					
		0,050	-	11,604	10,00	0,500	284.826,215	116,040	310.624,655
1415	0,000		7,034	-					
		0,000	-	12,437	10,00	0,000	284.826,215	124,370	310.749,025
1416	0,000		5,404	-					
		0,014	-	9,133	10,00	0,140	284.826,355	91,330	310.840,355
1417	0,014		3,730	-					
		0,014	-	9,277	10,00	0,140	284.826,495	92,770	310.933,125
1418	0,000		5,548	-					
		0,000	-	9,287	10,00	0,000	284.826,495	92,870	311.025,995
1419	0,000		3,739	-					
		0,000	-	8,007	10,00	0,000	284.826,495	80,070	311.106,065
1420	0,000		4,269	-					
		0,000	-	9,243	10,00	0,000	284.826,495	92,430	311.198,495
1421	0,000		4,975	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	10,063	1,22	0,000	284.826,495	12,317	311.210,812
1421+2,448	0,000		5,089	-					
		0,000	-	11,003	8,78	0,000	284.826,495	96,562	311.307,374
1422	0,000		5,914	-					
		0,000	-	12,837	10,00	0,000	284.826,495	128,370	311.435,744
1423	0,000		6,923	-					
		0,000	-	17,603	10,00	0,000	284.826,495	176,030	311.611,774
1424	0,000		10,681	-					
		0,000	-	26,234	10,00	0,000	284.826,495	262,340	311.874,114
1425	0,000		15,554	-					
		0,000	-	28,672	10,00	0,000	284.826,495	286,720	312.160,834
1426	0,000		13,119	-					
		0,000	-	24,095	10,00	0,000	284.826,495	240,950	312.401,784
1427	0,000		10,977	-					
		0,000	-	20,307	10,00	0,000	284.826,495	203,070	312.604,854
1428	0,000		9,331	-					
		0,000	-	18,630	0,16	0,000	284.826,495	2,962	312.607,816
1428+0,318	0,000		9,300	-					
		0,000	-	15,528	9,84	0,000	284.826,495	152,811	312.760,627
1429	0,000		6,229	-					
		0,000	-	11,412	10,00	0,000	284.826,495	114,120	312.874,747
1430	0,000		5,183	-					
		0,000	-	10,370	10,00	0,000	284.826,495	103,700	312.978,447
1431	0,000		5,188	-					
		0,009	-	9,443	10,00	0,090	284.826,585	94,430	313.072,877
1432	0,009		4,256	-					
		0,051	-	8,368	10,00	0,510	284.827,095	83,680	313.156,557
1433	0,042		4,112	-					
		0,042	-	10,720	10,00	0,420	284.827,515	107,200	313.263,757
1434	0,000		6,608	-					
		0,000	-	15,718	10,00	0,000	284.827,515	157,180	313.420,937
1435	0,000		9,110	-					
		0,000	-	19,016	10,00	0,000	284.827,515	190,160	313.611,097
1436	0,000		9,906	-					
		0,000	-	19,492	10,00	0,000	284.827,515	194,920	313.806,017
1437	0,000		9,586	-					
		0,007	-	15,643	10,00	0,070	284.827,585	156,430	313.962,447
1438	0,007		6,057	-					
		0,103	-	14,083	10,00	1,030	284.828,615	140,830	314.103,277
1439	0,096		8,027	-					
		0,096	-	15,826	10,00	0,960	284.829,575	158,260	314.261,537
1440	0,000		7,800	-					
		0,462	-	13,261	10,00	4,620	284.834,195	132,610	314.394,147
1441	0,462		5,462	-					
		0,462	-	14,099	10,00	4,620	284.838,815	140,990	314.535,137
1442	0,000		8,637	-					
		0,000	-	19,756	10,00	0,000	284.838,815	197,560	314.732,697
1443	0,000		11,119	-					
		0,000	-	21,748	3,37	0,000	284.838,815	73,203	314.805,900
1443+6,732	0,000		10,629	-					
		0,143	-	20,243	6,63	0,949	284.839,763	134,292	314.940,192
1444	0,143		9,615	-					
		0,155	-	19,348	10,00	1,550	284.841,313	193,480	315.133,672
1445	0,012		9,734	-					
		0,012	-	19,380	10,00	0,120	284.841,433	193,800	315.327,472
1446	0,000		9,647	-					
		0,000	-	23,187	10,00	0,000	284.841,433	231,870	315.559,342
1447	0,000		13,540	-					
		0,000	-	23,312	10,00	0,000	284.841,433	233,120	315.792,462
1448	0,000		9,773	-					
		0,000	-	21,352	10,00	0,000	284.841,433	213,520	316.005,982

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1449	0,000		11,580	-					
		0,000	-	34,931	10,00	0,000	284.841,433	349,310	316.355,292
1450	0,000		23,352	-					
		0,000	-	54,094	10,00	0,000	284.841,433	540,940	316.896,232
1451	0,000		30,743	-					
		0,000	-	52,178	4,57	0,000	284.841,433	238,244	317.134,476
1451+9,131	0,000		21,435	-					
		0,000	-	36,342	5,44	0,000	284.841,433	197,518	317.331,994
1452	0,000		14,907	-					
		0,000	-	27,849	10,00	0,000	284.841,433	278,490	317.610,484
1453	0,000		12,942	-					
		0,000	-	26,504	10,00	0,000	284.841,433	265,040	317.875,524
1454	0,000		13,562	-					
		0,000	-	28,425	9,65	0,000	284.841,433	274,358	318.149,882
1454+19,304	0,000		14,863	-					
		0,000	-	29,825	0,35	0,000	284.841,433	10,379	318.160,261
1455	0,000		14,962	-					
		0,000	-	30,141	10,00	0,000	284.841,433	301,410	318.461,671
1456	0,000		15,180	-					
		0,000	-	29,947	10,00	0,000	284.841,433	299,470	318.761,141
1457	0,000		14,768	-					
		0,000	-	28,694	10,00	0,000	284.841,433	286,940	319.048,081
1458	0,000		13,927	-					
		0,000	-	28,821	10,00	0,000	284.841,433	288,210	319.336,291
1459	0,000		14,895	-					
		0,000	-	30,240	10,00	0,000	284.841,433	302,400	319.638,691
1460	0,000		15,346	-					
		0,000	-	32,180	10,00	0,000	284.841,433	321,800	319.960,491
1461	0,000		16,835	-					
		0,000	-	32,859	10,00	0,000	284.841,433	328,590	320.289,081
1462	0,000		16,025	-					
		0,000	-	30,208	10,00	0,000	284.841,433	302,080	320.591,161
1463	0,000		14,184	-					
		0,000	-	25,962	10,00	0,000	284.841,433	259,620	320.850,781
1464	0,000		11,779	-					
		0,000	-	23,109	10,00	0,000	284.841,433	231,090	321.081,871
1465	0,000		11,331	-					
		0,000	-	28,242	7,31	0,000	284.841,433	206,477	321.288,348
1465+14,621	0,000		16,912	-					
		0,000	-	32,340	2,69	0,000	284.841,433	86,994	321.375,342
1466	0,000		15,429	-					
		0,000	-	23,907	10,00	0,000	284.841,433	239,070	321.614,412
1467	0,000		8,479	-					
		0,000	-	14,172	10,00	0,000	284.841,433	141,720	321.756,132
1468	0,000		5,694	-					
		0,023	-	7,563	10,00	0,230	284.841,663	75,630	321.831,762
1469	0,023		1,870	-					
		0,100	-	3,139	10,00	1,000	284.842,663	31,390	321.863,152
1470	0,077		1,270	-					
		0,077	-	3,601	10,00	0,770	284.843,433	36,010	321.899,162
1471	0,000		2,332	-					
		0,000	-	6,182	10,00	0,000	284.843,433	61,820	321.960,982
1472	0,000		3,850	-					
		0,000	-	10,320	10,00	0,000	284.843,433	103,200	322.064,182
1473	0,000		6,470	-					
		0,000	-	11,451	10,00	0,000	284.843,433	114,510	322.178,692
1474	0,000		4,981	-					
		0,000	-	9,960	10,00	0,000	284.843,433	99,600	322.278,292
1475	0,000		4,979	-					
		0,000	-	11,321	10,00	0,000	284.843,433	113,210	322.391,502
1476	0,000		6,342	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	14,470	10,00	0,000	284.843,433	144,700	322.536,202
1477	0,000		8,128	-					
		0,000	-	17,868	10,00	0,000	284.843,433	178,680	322.714,882
1478	0,000		9,740	-					
		0,000	-	20,752	10,00	0,000	284.843,433	207,520	322.922,402
1479	0,000		11,013	-					
		0,000	-	21,399	10,00	0,000	284.843,433	213,990	323.136,392
1480	0,000		10,386	-					
		0,000	-	19,185	10,00	0,000	284.843,433	191,850	323.328,242
1481	0,000		8,799	-					
		0,000	-	17,292	10,00	0,000	284.843,433	172,920	323.501,162
1482	0,000		8,493	-					
		0,000	-	16,613	10,00	0,000	284.843,433	166,130	323.667,292
1483	0,000		8,121	-					
		0,000	-	18,421	10,00	0,000	284.843,433	184,210	323.851,502
1484	0,000		10,300	-					
		0,000	-	18,823	10,00	0,000	284.843,433	188,230	324.039,732
1485	0,000		8,523	-					
		0,000	-	15,585	10,00	0,000	284.843,433	155,850	324.195,582
1486	0,000		7,062	-					
		0,000	-	13,527	10,00	0,000	284.843,433	135,270	324.330,852
1487	0,000		6,466	-					
		0,000	-	12,592	10,00	0,000	284.843,433	125,920	324.456,772
1488	0,000		6,127	-					
		0,000	-	16,548	10,00	0,000	284.843,433	165,480	324.622,252
1489	0,000		10,421	-					
		0,000	-	20,577	10,00	0,000	284.843,433	205,770	324.828,022
1490	0,000		10,156	-					
		0,000	-	18,715	10,00	0,000	284.843,433	187,150	325.015,172
1491	0,000		8,559	-					
		0,000	-	15,912	10,00	0,000	284.843,433	159,120	325.174,292
1492	0,000		7,353	-					
		0,000	-	12,998	10,00	0,000	284.843,433	129,980	325.304,272
1493	0,000		5,645	-					
		0,000	-	12,215	3,49	0,000	284.843,433	42,630	325.346,902
1493+6,979	0,000		6,570	-					
		0,000	-	12,578	6,51	0,000	284.843,433	81,895	325.428,797
1494	0,000		6,008	-					
		0,003	-	8,581	10,00	0,030	284.843,463	85,810	325.514,607
1495	0,003		2,573	-					
		0,003	-	6,283	10,00	0,030	284.843,493	62,830	325.577,437
1496	0,000		3,711	-					
		0,208	-	8,050	10,00	2,080	284.845,573	80,500	325.657,937
1497	0,208		4,339	-					
		0,266	-	8,512	10,00	2,660	284.848,233	85,120	325.743,057
1498	0,058		4,173	-					
		0,069	-	6,489	10,00	0,690	284.848,923	64,890	325.807,947
1499	0,011		2,316	-					
		0,011	-	6,210	3,11	0,034	284.848,958	19,325	325.827,272
1499+6,223	0,000		3,894	-					
		0,053	-	6,409	6,89	0,365	284.849,323	44,151	325.871,423
1500	0,053		2,515	-					
		0,432	-	6,586	10,00	4,320	284.853,643	65,860	325.937,283
1501	0,379		4,071	-					
		0,414	-	11,155	10,00	4,140	284.857,783	111,550	326.048,833
1502	0,035		7,084	-					
		0,035	-	12,747	10,00	0,350	284.858,133	127,470	326.176,303
1503	0,000		5,664	-					
		0,004	-	7,564	10,00	0,040	284.858,173	75,640	326.251,943
1504	0,004		1,901	-					
		7,000	-	1,900	10,00	70,000	284.928,173	19,000	326.270,943

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1505	6,996		-	-					
		20,021	-	-	5,50	110,075	285.038,248	0,000	326.270,943
1505+10,995	13,025		-	-					
		30,191	-	-	4,50	135,950	285.174,198	0,000	326.270,943
1506	17,166		-	-					
		47,229	-	-	10,00	472,290	285.646,488	0,000	326.270,943
1507	30,063		-	-					
		76,106	-	-	10,00	761,060	286.407,548	0,000	326.270,943
1508	46,043		-	-					
		110,556	-	-	10,00	1.105,560	287.513,108	0,000	326.270,943
1509	64,513		-	-					
		134,298	-	-	10,00	1.342,980	288.856,088	0,000	326.270,943
1510	69,785		-	-					
		130,228	-	-	4,80	624,704	289.480,792	0,000	326.270,943
1510+9,593	60,443		-	-					
		120,466	-	-	2,00	240,571	289.721,362	0,000	326.270,943
1510+13,586	60,023		-	-					
		107,852	-	-	3,21	345,881	290.067,244	0,000	326.270,943
1511	47,829		-	-					
		71,179	-	-	10,00	711,790	290.779,034	0,000	326.270,943
1512	23,350		-	-					
		39,314	-	-	10,00	393,140	291.172,174	0,000	326.270,943
1513	15,964		-	-					
		24,442	-	0,020	10,00	244,420	291.416,594	0,200	326.271,143
1514	8,478		0,020	-					
		30,399	-	0,020	10,00	303,990	291.720,584	0,200	326.271,343
1515	21,921		-	-					
		83,421	-	-	10,00	834,210	292.554,794	0,000	326.271,343
1516	61,500		-	-					
		221,345	-	-	7,39	1.636,182	294.190,976	0,000	326.271,343
1516+14,784	159,845		-	-					
		383,356	-	-	2,61	999,792	295.190,769	0,000	326.271,343
1517	223,511		-	-					
		562,945	-	-	4,49	2.529,312	297.720,080	0,000	326.271,343
1517+8,986	339,434		-	-					
		801,867	-	-	5,51	4.415,882	302.135,962	0,000	326.271,343
1518	462,433		-	-					
		759,134	-	-	10,00	7.591,340	309.727,302	0,000	326.271,343
1519	296,701		-	-					
		450,181	-	-	10,00	4.501,810	314.229,112	0,000	326.271,343
1520	153,480		-	-					
		210,431	-	-	10,00	2.104,310	316.333,422	0,000	326.271,343
1521	56,951		-	-					
		77,140	-	-	10,00	771,400	317.104,822	0,000	326.271,343
1522	20,189		-	-					
		22,850	-	-	10,00	228,500	317.333,322	0,000	326.271,343
1523	2,661		-	-					
		2,661	-	5,391	3,78	10,069	317.343,391	20,399	326.291,742
1523+7,568	0,000		5,391	-					
		0,000	-	28,716	6,22	0,000	317.343,391	178,498	326.470,240
1524	0,000		23,325	-					
		0,000	-	64,223	5,62	0,000	317.343,391	360,933	326.831,173
1524+11,239	0,000		40,898	-					
		0,000	-	89,588	4,38	0,000	317.343,391	392,485	327.223,658
1525	0,000		48,691	-					
		0,000	-	111,345	10,00	0,000	317.343,391	1.113,450	328.337,108
1526	0,000		62,654	-					
		0,000	-	113,228	10,00	0,000	317.343,391	1.132,280	329.469,388
1527	0,000		50,575	-					
		0,000	-	95,091	10,00	0,000	317.343,391	950,910	330.420,298
1528	0,000		44,516	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	88,810	10,00	0,000	317.343,391	888,100	331.308,398
1529	0,000		44,294	-					
		0,000	-	95,224	7,52	0,000	317.343,391	716,179	332.024,577
1529+15,042	0,000		50,930	-					
		0,000	-	102,872	2,48	0,000	317.343,391	255,019	332.279,596
1530	0,000		51,942	-					
		0,000	-	109,451	10,00	0,000	317.343,391	1.094,510	333.374,106
1531	0,000		57,510	-					
		0,000	-	123,645	8,70	0,000	317.343,391	1.075,835	334.449,941
1531+17,402	0,000		66,135	-					
		0,000	-	133,688	1,30	0,000	317.343,391	173,660	334.623,601
1532	0,000		67,554	-					
		0,000	-	111,274	10,00	0,000	317.343,391	1.112,740	335.736,341
1533	0,000		43,721	-					
		0,000	-	71,764	10,00	0,000	317.343,391	717,640	336.453,981
1534	0,000		28,043	-					
		0,000	-	56,694	10,00	0,000	317.343,391	566,940	337.020,921
1535	0,000		28,651	-					
		0,000	-	71,571	10,00	0,000	317.343,391	715,710	337.736,631
1536	0,000		42,921	-					
		0,000	-	106,420	10,00	0,000	317.343,391	1.064,200	338.800,831
1537	0,000		63,500	-					
		0,022	-	90,357	10,00	0,220	317.343,611	903,570	339.704,401
1538	0,022		26,858	-					
		6,056	-	31,040	10,00	60,560	317.404,171	310,400	340.014,801
1539	6,034		4,182	-					
		6,034	-	15,614	0,93	5,618	317.409,789	14,536	340.029,337
1539+1,862	0,000		11,432	-					
		0,000	-	15,079	3,14	0,000	317.409,789	47,332	340.076,669
1539+8,139	0,000		3,647	-					
		11,329	-	3,646	5,93	67,192	317.476,981	21,624	340.098,293
1540	11,329		-	-					
		35,133	-	-	10,00	351,330	317.828,311	0,000	340.098,293
1541	23,804		-	-					
		46,028	-	-	10,00	460,280	318.288,591	0,000	340.098,293
1542	22,224		-	-					
		37,690	-	-	10,00	376,900	318.665,491	0,000	340.098,293
1543	15,466		-	-					
		29,030	-	-	10,00	290,300	318.955,791	0,000	340.098,293
1544	13,564		-	-					
		28,344	-	-	10,00	283,440	319.239,231	0,000	340.098,293
1545	14,780		-	-					
		28,419	-	-	1,51	42,998	319.282,229	0,000	340.098,293
1545+3,025	13,639		-	-					
		25,315	-	-	7,06	178,673	319.460,902	0,000	340.098,293
1545+17,140	11,676		-	-					
		22,764	-	-	1,43	32,553	319.493,455	0,000	340.098,293
1546	11,088		-	-					
		30,347	-	-	10,00	303,470	319.796,925	0,000	340.098,293
1547	19,259		-	-					
		45,998	-	-	10,00	459,980	320.256,905	0,000	340.098,293
1548	26,739		-	-					
		71,958	-	-	10,00	719,580	320.976,485	0,000	340.098,293
1549	45,219		-	-					
		82,528	-	-	10,00	825,280	321.801,765	0,000	340.098,293
1550	37,309		-	-					
		58,474	-	-	10,00	584,740	322.386,505	0,000	340.098,293
1551	21,165		-	-					
		36,863	-	-	10,00	368,630	322.755,135	0,000	340.098,293
1552	15,698		-	-					
		34,844	-	2,054	10,00	348,440	323.103,575	20,540	340.118,833

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1553	19,146		2,054	-					
		37,740	-	3,379	0,69	25,890	323.129,465	2,317	340.121,150
1553+1,372	18,594	45,921	1,325	-					
			-	1,324	0,81	37,380	323.166,844	1,077	340.122,227
1553+2,999	27,327	66,656	-	-					
			-	9,244	8,50	566,643	323.733,487	78,583	340.200,810
1554	39,329	39,392	9,245	-					
			-	31,456	10,00	393,920	324.127,407	314,560	340.515,370
1555	0,063	0,357	22,212	-					
			-	40,753	10,00	3,570	324.130,977	407,530	340.922,900
1556	0,294	2,074	18,542	-					
			-	42,173	10,00	20,740	324.151,717	421,730	341.344,630
1557	1,780	4,412	23,632	-					
			-	45,278	10,00	44,120	324.195,837	452,780	341.797,410
1558	2,632	2,762	21,647	-					
			-	43,010	10,00	27,620	324.223,457	430,100	342.227,510
1559	0,130	1,329	21,363	-					
			-	42,867	10,00	13,290	324.236,747	428,670	342.656,180
1560	1,199	2,964	21,504	-					
			-	40,532	8,05	23,869	324.260,616	326,404	342.982,584
1560+16,105	1,765	4,688	19,029	-					
			-	36,389	1,95	9,132	324.269,748	70,885	343.053,469
1561	2,923	5,600	17,361	-					
			-	28,679	10,00	56,000	324.325,748	286,790	343.340,259
1562	2,677	9,247	11,318	-					
			-	17,822	8,36	77,268	324.403,016	148,920	343.489,179
1562+16,712	6,570	14,223	6,505	-					
			-	12,569	1,64	23,383	324.426,399	20,663	343.509,842
1563	7,653	7,653	6,065	-					
			-	21,167	10,00	76,530	324.502,929	211,670	343.721,512
1564	0,000	1,788	15,103	-					
			-	36,016	10,00	17,880	324.520,809	360,160	344.081,672
1565	1,788	12,539	20,914	-					
			-	38,331	10,00	125,390	324.646,199	383,310	344.464,982
1566	10,751	14,496	17,417	-					
			-	39,587	10,00	144,960	324.791,159	395,870	344.860,852
1567	3,745	3,745	22,170	-					
			-	51,227	10,00	37,450	324.828,609	512,270	345.373,122
1568	0,000	0,000	29,058	-					
			-	61,822	6,22	0,000	324.828,609	384,347	345.757,469
1568+12,434	0,000	0,000	32,764	-					
			-	66,789	2,57	0,000	324.828,609	171,781	345.929,250
1568+17,578	0,000	0,000	34,025	-					
			-	68,477	1,21	0,000	324.828,609	82,925	346.012,175
1569	0,000	0,000	34,452	-					
			-	76,156	10,00	0,000	324.828,609	761,560	346.773,735
1570	0,000	0,000	41,704	-					
			-	80,099	10,00	0,000	324.828,609	800,990	347.574,725
1571	0,000	0,000	38,395	-					
			-	67,456	10,00	0,000	324.828,609	674,560	348.249,285
1572	0,000	0,000	29,061	-					
			-	45,822	10,00	0,000	324.828,609	458,220	348.707,505
1573	0,000	0,000	16,761	-					
			-	24,881	6,41	0,000	324.828,609	159,412	348.866,917
1573+12,813	0,000	0,003	8,121	-					
			-	11,407	3,59	0,011	324.828,620	40,996	348.907,913
1574	0,003	45,905	3,287	-					
			-	3,286	10,00	459,050	325.287,670	32,860	348.940,773
1575	45,902	94,445	-	-					
			-	-	10,00	944,450	326.232,120	0,000	348.940,773
1576	48,543		-	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		55,842	-	0,233	10,00	558,420	326.790,540	2,330	348.943,103
1577	7,299		0,233	-					
		7,299	-	10,572	10,00	72,990	326.863,530	105,720	349.048,823
1578	0,000		10,340	-					
		3,857	-	17,558	10,00	38,570	326.902,100	175,580	349.224,403
1579	3,857		7,219	-					
		4,753	-	15,795	10,00	47,530	326.949,630	157,950	349.382,353
1580	0,896		8,576	-					
		9,252	-	8,576	10,00	92,520	327.042,150	85,760	349.468,113
1581	8,356		-	-					
		43,501	-	-	10,00	435,010	327.477,160	0,000	349.468,113
1582	35,145		-	-					
		153,283	-	-	10,00	1.532,830	329.009,990	0,000	349.468,113
1583	118,138		-	-					
		239,330	-	-	2,99	714,879	329.724,868	0,000	349.468,113
1583+5,973	121,192		-	-					
		236,670	-	-	7,01	1.660,003	331.384,872	0,000	349.468,113
1584	115,478		-	-					
		217,177	-	-	10,00	2.171,770	333.556,642	0,000	349.468,113
1585	101,699		-	-					
		164,666	-	-	10,00	1.646,660	335.203,302	0,000	349.468,113
1586	62,967		-	-					
		93,980	-	-	10,00	939,800	336.143,102	0,000	349.468,113
1587	31,013		-	-					
		38,143	-	-	10,00	381,430	336.524,532	0,000	349.468,113
1588	7,130		-	-					
		8,441	-	5,065	10,00	84,410	336.608,942	50,650	349.518,763
1589	1,311		5,066	-					
		1,311	-	19,130	10,00	13,110	336.622,052	191,300	349.710,063
1590	0,000		14,065	-					
		0,000	-	32,506	7,47	0,000	336.622,052	242,689	349.952,752
1590+14,932	0,000		18,441	-					
		0,000	-	37,864	2,53	0,000	336.622,052	95,947	350.048,699
1591	0,000		19,423	-					
		0,000	-	40,856	6,25	0,000	336.622,052	255,309	350.304,008
1591+12,497	0,000		21,434	-					
		0,000	-	42,491	3,75	0,000	336.622,052	159,426	350.463,434
1592	0,000		21,058	-					
		0,000	-	40,597	10,00	0,000	336.622,052	405,970	350.869,404
1593	0,000		19,539	-					
		0,000	-	36,705	10,00	0,000	336.622,052	367,050	351.236,454
1594	0,000		17,167	-					
		0,014	-	27,706	10,00	0,140	336.622,192	277,060	351.513,514
1595	0,014		10,540	-					
		1,253	-	18,219	10,00	12,530	336.634,722	182,190	351.695,704
1596	1,239		7,679	-					
		1,255	-	17,252	10,00	12,550	336.647,272	172,520	351.868,224
1597	0,016		9,574	-					
		0,465	-	17,586	2,63	1,222	336.648,494	46,233	351.914,457
1597+5,258	0,449		8,013	-					
		2,572	-	13,425	7,37	18,958	336.667,452	98,955	352.013,412
1598	2,123		5,413	-					
		2,123	-	13,654	10,00	21,230	336.688,682	136,540	352.149,952
1599	0,000		8,241	-					
		0,000	-	14,402	10,00	0,000	336.688,682	144,020	352.293,972
1600	0,000		6,162	-					
		0,000	-	16,505	10,00	0,000	336.688,682	165,050	352.459,022
1601	0,000		10,344	-					
		1,833	-	17,725	10,00	18,330	336.707,012	177,250	352.636,272
1602	1,833		7,382	-					
		8,098	-	17,923	10,00	80,980	336.787,992	179,230	352.815,502

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1603	6,265		10,542	-					
		6,488	-	26,793	10,00	64,880	336.852,872	267,930	353.083,432
1604	0,223		16,252	-					
		0,410	-	29,001	10,00	4,100	336.856,972	290,010	353.373,442
1605	0,187		12,749	-					
		0,236	-	21,361	10,00	2,360	336.859,332	213,610	353.587,052
1606	0,049		8,612	-					
		1,461	-	23,532	10,00	14,610	336.873,942	235,320	353.822,372
1607	1,412		14,920	-					
		1,454	-	34,499	10,00	14,540	336.888,482	344,990	354.167,362
1608	0,042		19,580	-					
		0,042	-	44,820	10,00	0,420	336.888,902	448,200	354.615,562
1609	0,000		25,240	-					
		0,000	-	49,408	10,00	0,000	336.888,902	494,080	355.109,642
1610	0,000		24,168	-					
		0,342	-	45,429	10,00	3,420	336.892,322	454,290	355.563,932
1611	0,342		21,262	-					
		1,255	-	39,283	7,81	9,795	336.902,118	306,603	355.870,535
1611+15,609	0,913		18,022	-					
		9,184	-	35,326	2,20	20,168	336.922,286	77,575	355.948,110
1612	8,271		17,305	-					
		58,401	-	24,733	10,00	584,010	337.506,296	247,330	356.195,440
1613	50,130		7,429	-					
		86,561	-	7,428	10,00	865,610	338.371,906	74,280	356.269,720
1614	36,431		-	-					
		36,520	-	32,482	10,00	365,200	338.737,106	324,820	356.594,540
1615	0,089		32,483	-					
		0,089	-	85,215	10,00	0,890	338.737,996	852,150	357.446,690
1616	0,000		52,733	-					
		0,000	-	102,289	5,49	0,000	338.737,996	561,771	358.008,461
1616+10,984	0,000		49,557	-					
		0,000	-	98,994	0,43	0,000	338.737,996	42,270	358.050,731
1616+11,836	0,000		49,438	-					
		0,000	-	98,316	4,08	0,000	338.737,996	401,227	358.451,958
1617	0,000		48,879	-					
		0,000	-	89,519	10,00	0,000	338.737,996	895,190	359.347,148
1618	0,000		40,641	-					
		0,000	-	83,441	10,00	0,000	338.737,996	834,410	360.181,558
1619	0,000		42,800	-					
		0,000	-	76,812	10,00	0,000	338.737,996	768,120	360.949,678
1620	0,000		34,012	-					
		0,000	-	48,047	10,00	0,000	338.737,996	480,470	361.430,148
1621	0,000		14,035	-					
		0,023	-	20,223	2,62	0,060	338.738,056	53,024	361.483,172
1621+5,244	0,023		6,188	-					
		11,852	-	6,188	7,38	87,444	338.825,500	45,655	361.528,827
1622	11,829		-	-					
		21,089	-	-	10,00	210,890	339.036,390	0,000	361.528,827
1623	9,260		-	-					
		18,541	-	0,025	10,00	185,410	339.221,800	0,250	361.529,077
1624	9,281		0,025	-					
		19,231	-	0,219	10,00	192,310	339.414,110	2,190	361.531,267
1625	9,950		0,194	-					
		20,136	-	4,855	10,00	201,360	339.615,470	48,550	361.579,817
1626	10,186		4,662	-					
		20,070	-	6,835	10,00	200,700	339.816,170	68,350	361.648,167
1627	9,884		2,173	-					
		37,846	-	2,173	10,00	378,460	340.194,630	21,730	361.669,897
1628	27,962		-	-					
		36,740	-	2,170	10,00	367,400	340.562,030	21,700	361.691,597
1629	8,778		2,170	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		8,778	-	32,335	10,00	87,780	340.649,810	323,350	362.014,947
1630	0,000		30,165	-					
		0,000	-	51,367	10,00	0,000	340.649,810	513,670	362.528,617
1631	0,000		21,202	-					
		0,000	-	40,241	9,42	0,000	340.649,810	378,989	362.907,606
1631+18,836	0,000		19,040	-					
		0,000	-	38,121	0,58	0,000	340.649,810	22,186	362.929,792
1632	0,000		19,082	-					
		0,000	-	36,145	10,00	0,000	340.649,810	361,450	363.291,242
1633	0,000		17,063	-					
		0,236	-	27,966	10,00	2,360	340.652,170	279,660	363.570,902
1634	0,236		10,903	-					
		1,192	-	20,317	10,00	11,920	340.664,090	203,170	363.774,072
1635	0,956		9,414	-					
		1,775	-	15,608	10,00	17,750	340.681,840	156,080	363.930,152
1636	0,819		6,195	-					
		0,921	-	15,777	10,00	9,210	340.691,050	157,770	364.087,922
1637	0,102		9,583	-					
		0,225	-	18,788	10,00	2,250	340.693,300	187,880	364.275,802
1638	0,123		9,206	-					
		0,123	-	18,366	10,00	1,230	340.694,530	183,660	364.459,462
1639	0,000		9,160	-					
		0,000	-	18,767	2,24	0,000	340.694,530	42,038	364.501,500
1639+4,480	0,000		9,607	-					
		0,000	-	18,994	7,76	0,000	340.694,530	147,393	364.648,893
1640	0,000		9,387	-					
		0,000	-	19,192	10,00	0,000	340.694,530	191,920	364.840,813
1641	0,000		9,806	-					
		0,000	-	25,963	10,00	0,000	340.694,530	259,630	365.100,443
1642	0,000		16,158	-					
		0,000	-	35,708	10,00	0,000	340.694,530	357,080	365.457,523
1643	0,000		19,550	-					
		0,000	-	41,810	10,00	0,000	340.694,530	418,100	365.875,623
1644	0,000		22,261	-					
		0,000	-	43,778	10,00	0,000	340.694,530	437,780	366.313,403
1645	0,000		21,518	-					
		0,000	-	38,342	10,00	0,000	340.694,530	383,420	366.696,823
1646	0,000		16,824	-					
		0,000	-	34,101	10,00	0,000	340.694,530	341,010	367.037,833
1647	0,000		17,278	-					
		0,000	-	35,962	5,45	0,000	340.694,530	195,956	367.233,789
1647+10,898	0,000		18,684	-					
		0,000	-	39,716	4,55	0,000	340.694,530	180,747	367.414,536
1648	0,000		21,033	-					
		0,000	-	38,393	10,00	0,000	340.694,530	383,930	367.798,466
1649	0,000		17,361	-					
		0,000	-	31,893	10,00	0,000	340.694,530	318,930	368.117,396
1650	0,000		14,533	-					
		0,000	-	27,379	10,00	0,000	340.694,530	273,790	368.391,186
1651	0,000		12,846	-					
		0,174	-	23,433	10,00	1,740	340.696,270	234,330	368.625,516
1652	0,174		10,587	-					
		0,174	-	24,158	10,00	1,740	340.698,010	241,580	368.867,096
1653	0,000		13,571	-					
		0,000	-	26,391	5,08	0,000	340.698,010	134,066	369.001,162
1653+10,159	0,000		12,820	-					
		0,000	-	23,273	4,92	0,000	340.698,010	114,526	369.115,688
1654	0,000		10,454	-					
		0,000	-	20,198	10,00	0,000	340.698,010	201,980	369.317,668
1655	0,000		9,744	-					
		0,000	-	20,990	10,00	0,000	340.698,010	209,900	369.527,568

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1656	0,000		11,246	-					
		0,000	-	22,803	10,00	0,000	340.698,010	228,030	369.755,598
1657	0,000		11,558	-					
		0,000	-	23,726	10,00	0,000	340.698,010	237,260	369.992,858
1658	0,000		12,168	-					
		0,000	-	22,655	10,00	0,000	340.698,010	226,550	370.219,408
1659	0,000		10,487	-					
		0,000	-	22,381	10,00	0,000	340.698,010	223,810	370.443,218
1660	0,000		11,894	-					
		0,000	-	26,374	10,00	0,000	340.698,010	263,740	370.706,958
1661	0,000		14,480	-					
		0,000	-	27,614	10,00	0,000	340.698,010	276,140	370.983,098
1662	0,000		13,135	-					
		0,000	-	27,246	9,66	0,000	340.698,010	263,223	371.246,321
1662+19,322	0,000		14,112	-					
		0,000	-	29,740	0,34	0,000	340.698,010	10,081	371.256,402
1663	0,000		15,629	-					
		0,000	-	26,195	10,00	0,000	340.698,010	261,950	371.518,352
1664	0,000		10,567	-					
		0,000	-	21,815	10,00	0,000	340.698,010	218,150	371.736,502
1665	0,000		11,249	-					
		0,000	-	27,626	10,00	0,000	340.698,010	276,260	372.012,762
1666	0,000		16,378	-					
		0,000	-	31,420	10,00	0,000	340.698,010	314,200	372.326,962
1667	0,000		15,043	-					
		0,003	-	22,899	10,00	0,030	340.698,040	228,990	372.555,952
1668	0,003		7,856	-					
		0,006	-	16,241	10,00	0,060	340.698,100	162,410	372.718,362
1669	0,003		8,385	-					
		0,003	-	27,214	10,00	0,030	340.698,130	272,140	372.990,502
1670	0,000		18,830	-					
		0,000	-	38,459	7,59	0,000	340.698,130	291,980	373.282,482
1670+15,183	0,000		19,630	-					
		0,000	-	44,333	2,41	0,000	340.698,130	106,798	373.389,280
1671	0,000		24,703	-					
		0,000	-	48,387	10,00	0,000	340.698,130	483,870	373.873,150
1672	0,000		23,684	-					
		0,000	-	36,898	10,00	0,000	340.698,130	368,980	374.242,130
1673	0,000		13,214	-					
		0,000	-	20,857	10,00	0,000	340.698,130	208,570	374.450,700
1674	0,000		7,643	-					
		0,000	-	15,057	10,00	0,000	340.698,130	150,570	374.601,270
1675	0,000		7,414	-					
		0,000	-	19,507	10,00	0,000	340.698,130	195,070	374.796,340
1676	0,000		12,093	-					
		0,000	-	23,907	10,00	0,000	340.698,130	239,070	375.035,410
1677	0,000		11,815	-					
		0,000	-	23,516	10,00	0,000	340.698,130	235,160	375.270,570
1678	0,000		11,702	-					
		0,000	-	24,029	1,79	0,000	340.698,130	42,915	375.313,485
1678+3,572	0,000		12,328	-					
		0,000	-	24,289	8,21	0,000	340.698,130	199,509	375.512,994
1679	0,000		11,962	-					
		0,000	-	34,020	10,00	0,000	340.698,130	340,200	375.853,194
1680	0,000		22,059	-					
		0,000	-	44,290	10,00	0,000	340.698,130	442,900	376.296,094
1681	0,000		22,232	-					
		0,245	-	36,096	10,00	2,450	340.700,580	360,960	376.657,054
1682	0,245		13,864	-					
		0,245	-	27,390	10,00	2,450	340.703,030	273,900	376.930,954
1683	0,000		13,526	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	29,286	6,37	0,000	340.703,030	186,522	377.117,476
1683+12,738	0,000		15,761	-					
		0,000	-	31,181	3,63	0,000	340.703,030	113,218	377.230,694
1684	0,000		15,421	-					
		0,000	-	24,748	10,00	0,000	340.703,030	247,480	377.478,174
1685	0,000		9,328	-					
		0,011	-	15,663	10,00	0,110	340.703,140	156,630	377.634,804
1686	0,011		6,336	-					
		0,011	-	11,044	10,00	0,110	340.703,250	110,440	377.745,244
1687	0,000		4,709	-					
		0,282	-	7,359	10,00	2,820	340.706,070	73,590	377.818,834
1688	0,282		2,651	-					
		1,413	-	4,999	10,00	14,130	340.720,200	49,990	377.868,824
1689	1,131		2,349	-					
		2,604	-	6,204	10,00	26,040	340.746,240	62,040	377.930,864
1690	1,473		3,855	-					
		2,642	-	5,049	10,00	26,420	340.772,660	50,490	377.981,354
1691	1,169		1,195	-					
		7,743	-	1,194	10,00	77,430	340.850,090	11,940	377.993,294
1692	6,574		-	-					
		19,652	-	0,007	10,00	196,520	341.046,610	0,070	377.993,364
1693	13,078		0,008	-					
		29,403	-	0,100	10,00	294,030	341.340,640	1,000	377.994,364
1694	16,325		0,092	-					
		25,329	-	2,190	10,00	253,290	341.593,930	21,900	378.016,264
1695	9,004		2,098	-					
		17,063	-	4,735	0,93	15,852	341.609,782	4,398	378.020,662
1695+1,858	8,059		2,637	-					
		11,048	-	10,813	9,07	100,216	341.709,998	98,084	378.118,746
1696	2,989		8,177	-					
		5,008	-	21,595	10,00	50,080	341.760,078	215,950	378.334,696
1697	2,019		13,418	-					
		2,670	-	27,730	10,00	26,700	341.786,778	277,300	378.611,996
1698	0,651		14,312	-					
		0,651	-	29,725	10,00	6,510	341.793,288	297,250	378.909,246
1699	0,000		15,413	-					
		0,109	-	32,092	10,00	1,090	341.794,378	320,920	379.230,166
1700	0,109		16,680	-					
		0,109	-	33,310	10,00	1,090	341.795,468	333,100	379.563,266
1701	0,000		16,631	-					
		0,000	-	29,449	10,00	0,000	341.795,468	294,490	379.857,756
1702	0,000		12,818	-					
		0,000	-	26,319	0,45	0,000	341.795,468	11,869	379.869,625
1702+0,901	0,000		13,501	-					
		0,000	-	22,669	9,55	0,000	341.795,468	216,488	380.086,113
1703	0,000		9,168	-					
		2,378	-	12,176	10,00	23,780	341.819,248	121,760	380.207,873
1704	2,378		3,008	-					
		14,104	-	4,514	10,00	141,040	341.960,288	45,140	380.253,013
1705	11,726		1,506	-					
		41,001	-	3,322	10,00	410,010	342.370,298	33,220	380.286,233
1706	29,275		1,816	-					
		46,434	-	2,013	10,00	464,340	342.834,638	20,130	380.306,363
1707	17,159		0,197	-					
		19,426	-	1,736	10,00	194,260	343.028,898	17,360	380.323,723
1708	2,267		1,539	-					
		2,267	-	23,519	10,00	22,670	343.051,568	235,190	380.558,913
1709	0,000		21,980	-					
		0,000	-	52,092	10,00	0,000	343.051,568	520,920	381.079,833
1710	0,000		30,112	-					
		0,000	-	53,609	10,00	0,000	343.051,568	536,090	381.615,923

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	Σ ÁREA DE CORTE	ÁREA DE ATERRO	Σ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1711	0,000		23,498	-					
		0,000	-	41,522	10,00	0,000	343.051,568	415,220	382.031,143
1712	0,000		18,025	-					
		0,000	-	29,216	10,00	0,000	343.051,568	292,160	382.323,303
1713	0,000		11,191	-					
		0,000	-	24,056	10,00	0,000	343.051,568	240,560	382.563,863
1714	0,000		12,865	-					
		0,123	-	19,020	10,00	1,230	343.052,798	190,200	382.754,063
1715	0,123		6,155	-					
		3,956	-	6,633	10,00	39,560	343.092,358	66,330	382.820,393
1716	3,833		0,478	-					
		15,731	-	0,477	10,00	157,310	343.249,668	4,770	382.825,163
1717	11,898		-	-					
		26,125	-	-	10,00	261,250	343.510,918	0,000	382.825,163
1718	14,227		-	-					
		26,605	-	-	10,00	266,050	343.776,968	0,000	382.825,163
1719	12,378		-	-					
		25,864	-	0,003	9,95	257,217	344.034,185	0,029	382.825,192
1719+19,889	13,486		0,003	-					
		24,688	-	0,006	0,06	1,383	344.035,568	0,000	382.825,192
1720	11,202		0,003	-					
		21,115	-	2,740	10,00	211,150	344.246,718	27,400	382.852,592
1721	9,913		2,737	-					
		16,094	-	9,102	10,00	160,940	344.407,658	91,020	382.943,612
1722	6,181		6,365	-					
		8,584	-	15,962	10,00	85,840	344.493,498	159,620	383.103,232
1723	2,403		9,597	-					
		2,418	-	24,479	10,00	24,180	344.517,678	244,790	383.348,022
1724	0,015		14,882	-					
		0,015	-	35,803	10,00	0,150	344.517,828	358,030	383.706,052
1725	0,000		20,922	-					
		0,000	-	29,310	10,00	0,000	344.517,828	293,100	383.999,152
1726	0,000		8,388	-					
		8,204	-	8,388	9,77	80,145	344.597,973	81,942	384.081,094
1726+19,538	8,204		-	-					
		16,410	-	-	0,23	3,791	344.601,764	0,000	384.081,094
1727	8,206		-	-					
		8,206	-	6,723	10,00	82,060	344.683,824	67,230	384.148,324
1728	0,000		6,724	-					
		3,262	-	6,723	10,00	32,620	344.716,444	67,230	384.215,554
1729	3,262		-	-					
		126,526	-	-	10,00	1.265,260	345.981,704	0,000	384.215,554
1730	123,264		-	-					
		375,684	-	-	10,00	3.756,840	349.738,544	0,000	384.215,554
1731	252,420		-	-					
		335,465	-	-	10,00	3.354,650	353.093,194	0,000	384.215,554
1732	83,045		-	-					
		95,620	-	-	10,00	956,200	354.049,394	0,000	384.215,554
1733	12,575		-	-					
		12,575	-	8,393	10,00	125,750	354.175,144	83,930	384.299,484
1734	0,000		8,393	-					
		0,414	-	17,938	10,00	4,140	354.179,284	179,380	384.478,864
1735	0,414		9,546	-					
		1,565	-	15,016	10,00	15,650	354.194,934	150,160	384.629,024
1736	1,151		5,471	-					
		1,151	-	12,786	10,00	11,510	354.206,444	127,860	384.756,884
1737	0,000		7,316	-					
		6,987	-	7,315	10,00	69,870	354.276,314	73,150	384.830,034
1738	6,987		-	-					
		7,267	-	1,363	10,00	72,670	354.348,984	13,630	384.843,664
1739	0,280		1,364	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,280	-	11,122	9,86	2,760	354.351,743	109,618	384.953,282
1739+19,712	0,000		9,759	-					
		0,000	-	20,971	0,14	0,000	354.351,743	3,019	384.956,301
1740	0,000		11,213	-					
		0,000	-	35,817	10,00	0,000	354.351,743	358,170	385.314,471
1741	0,000		24,605	-					
		0,000	-	43,024	10,00	0,000	354.351,743	430,240	385.744,711
1742	0,000		18,419	-					
		0,000	-	32,823	10,00	0,000	354.351,743	328,230	386.072,941
1743	0,000		14,405	-					
		0,051	-	21,424	10,00	0,510	354.352,253	214,240	386.287,181
1744	0,051		7,020	-					
		49,881	-	7,019	10,00	498,810	354.851,063	70,190	386.357,371
1745	49,830		-	-					
		159,333	-	-	10,00	1.593,330	356.444,393	0,000	386.357,371
1746	109,503		-	-					
		175,245	-	-	9,22	1.615,408	358.059,802	0,000	386.357,371
1746+18,436	65,742		-	-					
		122,259	-	-	0,78	95,607	358.155,408	0,000	386.357,371
1747	56,517		-	-					
		76,310	-	-	10,00	763,100	358.918,508	0,000	386.357,371
1748	19,793		-	-					
		19,793	-	12,754	10,00	197,930	359.116,438	127,540	386.484,911
1749	0,000		12,754	-					
		0,000	-	35,326	10,00	0,000	359.116,438	353,260	386.838,171
1750	0,000		22,572	-					
		0,000	-	44,621	10,00	0,000	359.116,438	446,210	387.284,381
1751	0,000		22,049	-					
		0,000	-	41,965	10,00	0,000	359.116,438	419,650	387.704,031
1752	0,000		19,916	-					
		0,000	-	36,184	10,00	0,000	359.116,438	361,840	388.065,871
1753	0,000		16,268	-					
		0,042	-	25,080	10,00	0,420	359.116,858	250,800	388.316,671
1754	0,042		8,813	-					
		2,409	-	13,997	10,00	24,090	359.140,948	139,970	388.456,641
1755	2,367		5,185	-					
		3,183	-	11,485	10,00	31,830	359.172,778	114,850	388.571,491
1756	0,816		6,301	-					
		0,816	-	14,955	10,00	8,160	359.180,938	149,550	388.721,041
1757	0,000		8,655	-					
		0,000	-	18,743	10,00	0,000	359.180,938	187,430	388.908,471
1758	0,000		10,089	-					
		0,000	-	21,737	10,00	0,000	359.180,938	217,370	389.125,841
1759	0,000		11,649	-					
		0,000	-	25,097	9,39	0,000	359.180,938	235,635	389.361,476
1759+18,777	0,000		13,449	-					
		0,000	-	26,541	0,61	0,000	359.180,938	16,243	389.377,719
1760	0,000		13,092	-					
		0,000	-	22,130	10,00	0,000	359.180,938	221,300	389.599,019
1761	0,000		9,038	-					
		0,000	-	21,353	10,00	0,000	359.180,938	213,530	389.812,549
1762	0,000		12,316	-					
		0,000	-	19,795	10,00	0,000	359.180,938	197,950	390.010,499
1763	0,000		7,480	-					
		0,000	-	19,664	10,00	0,000	359.180,938	196,640	390.207,139
1764	0,000		12,184	-					
		1,420	-	15,552	10,00	14,200	359.195,138	155,520	390.362,659
1765	1,420		3,368	-					
		5,412	-	6,515	2,34	12,648	359.207,786	15,225	390.377,884
1765+4,674	3,992		3,147	-					
		7,040	-	7,090	7,66	53,948	359.261,734	54,330	390.432,214

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1766	3,048		3,943	-					
		3,048	-	11,712	10,00	30,480	359.292,214	117,120	390.549,334
1767	0,000		7,770	-					
		0,000	-	16,357	10,00	0,000	359.292,214	163,570	390.712,904
1768	0,000		8,587	-					
		0,000	-	17,663	10,00	0,000	359.292,214	176,630	390.889,534
1769	0,000		9,076	-					
		0,000	-	19,022	10,00	0,000	359.292,214	190,220	391.079,754
1770	0,000		9,946	-					
		0,000	-	21,585	10,00	0,000	359.292,214	215,850	391.295,604
1771	0,000		11,639	-					
		0,000	-	24,542	10,00	0,000	359.292,214	245,420	391.541,024
1772	0,000		12,903	-					
		0,000	-	26,244	10,00	0,000	359.292,214	262,440	391.803,464
1773	0,000		13,341	-					
		0,000	-	22,542	9,50	0,000	359.292,214	214,103	392.017,567
1773+18,995	0,000		9,201	-					
		0,000	-	18,190	0,50	0,000	359.292,214	9,149	392.026,716
1774	0,000		8,990	-					
		0,616	-	10,350	10,00	6,160	359.298,374	103,500	392.130,216
1775	0,616		1,361	-					
		8,405	-	1,360	10,00	84,050	359.382,424	13,600	392.143,816
1776	7,789		-	-					
		20,537	-	-	10,00	205,370	359.587,794	0,000	392.143,816
1777	12,748		-	-					
		27,690	-	-	10,00	276,900	359.864,694	0,000	392.143,816
1778	14,942		-	-					
		23,187	-	0,117	10,00	231,870	360.096,564	1,170	392.144,986
1779	8,245		0,117	-					
		10,748	-	1,271	10,00	107,480	360.204,044	12,710	392.157,696
1780	2,503		1,154	-					
		4,732	-	2,704	1,11	5,234	360.209,277	2,990	392.160,686
1780+2,211	2,229		1,550	-					
		5,967	-	3,283	8,90	53,076	360.262,354	29,202	392.189,888
1781	3,738		1,733	-					
		12,302	-	8,736	10,00	123,020	360.385,374	87,360	392.277,248
1782	8,564		7,003	-					
		15,516	-	10,690	8,64	134,105	360.519,478	92,393	392.369,641
1782+17,285	6,952		3,688	-					
		13,207	-	7,270	1,36	17,935	360.537,413	9,872	392.379,513
1783	6,255		3,583	-					
		7,956	-	7,561	10,00	79,560	360.616,973	75,610	392.455,123
1784	1,701		3,979	-					
		2,340	-	14,091	10,00	23,400	360.640,373	140,910	392.596,033
1785	0,639		10,112	-					
		0,639	-	26,696	10,00	6,390	360.646,763	266,960	392.862,993
1786	0,000		16,584	-					
		0,000	-	35,936	10,00	0,000	360.646,763	359,360	393.222,353
1787	0,000		19,353	-					
		0,000	-	37,490	10,00	0,000	360.646,763	374,900	393.597,253
1788	0,000		18,138	-					
		0,000	-	33,202	10,00	0,000	360.646,763	332,020	393.929,273
1789	0,000		15,065	-					
		0,000	-	28,691	4,01	0,000	360.646,763	114,993	394.044,266
1789+8,015	0,000		13,626	-					
		0,000	-	25,237	5,99	0,000	360.646,763	151,245	394.195,511
1790	0,000		11,611	-					
		0,000	-	20,047	10,00	0,000	360.646,763	200,470	394.395,981
1791	0,000		8,437	-					
		0,000	-	16,117	10,00	0,000	360.646,763	161,170	394.557,151
1792	0,000		7,681	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,057	-	13,803	10,00	0,570	360.647,333	138,030	394.695,181
1793	0,057		6,123	-					
		0,158	-	10,433	10,00	1,580	360.648,913	104,330	394.799,511
1794	0,101		4,311	-					
		0,327	-	8,601	10,00	3,270	360.652,183	86,010	394.885,521
1795	0,226		4,291	-					
		0,617	-	6,335	10,00	6,170	360.658,353	63,350	394.948,871
1796	0,391		2,045	-					
		0,753	-	3,305	9,55	7,188	360.665,542	31,549	394.980,420
1796+19,091	0,362		1,261	-					
		0,709	-	2,632	0,46	0,323	360.665,864	1,197	394.981,617
1797	0,347		1,372	-					
		1,978	-	2,630	10,00	19,780	360.685,644	26,300	395.007,917
1798	1,631		1,259	-					
		2,506	-	2,942	10,00	25,060	360.710,704	29,420	395.037,337
1799	0,875		1,683	-					
		2,687	-	3,102	10,00	26,870	360.737,574	31,020	395.068,357
1800	1,812		1,419	-					
		6,554	-	1,418	10,00	65,540	360.803,114	14,180	395.082,537
1801	4,742		-	-					
		8,595	-	-	10,00	85,950	360.889,064	0,000	395.082,537
1802	3,853		-	-					
		7,047	-	0,089	6,12	43,156	360.932,220	0,545	395.083,082
1802+12,248	3,194		0,089	-					
		6,348	-	0,219	0,40	2,558	360.934,778	0,088	395.083,170
1802+13,054	3,154		0,130	-					
		7,419	-	0,656	3,47	25,766	360.960,544	2,278	395.085,448
1803	4,265		0,526	-					
		17,321	-	4,531	10,00	173,210	361.133,754	45,310	395.130,758
1804	13,056		4,006	-					
		31,022	-	8,303	10,00	310,220	361.443,974	83,030	395.213,788
1805	17,966		4,298	-					
		24,184	-	10,511	10,00	241,840	361.685,814	105,110	395.318,898
1806	6,218		6,213	-					
		6,240	-	24,123	10,00	62,400	361.748,214	241,230	395.560,128
1807	0,022		17,911	-					
		0,022	-	42,961	10,00	0,220	361.748,434	429,610	395.989,738
1808	0,000		25,051	-					
		0,000	-	50,075	10,00	0,000	361.748,434	500,750	396.490,488
1809	0,000		25,024	-					
		0,000	-	50,411	1,72	0,000	361.748,434	86,505	396.576,993
1809+3,431	0,000		25,388	-					
		0,000	-	47,353	8,29	0,000	361.748,434	392,319	396.969,312
1810	0,000		21,966	-					
		0,000	-	39,825	10,00	0,000	361.748,434	398,250	397.367,562
1811	0,000		17,859	-					
		0,000	-	36,340	6,84	0,000	361.748,434	248,383	397.615,945
1811+13,670	0,000		18,482	-					
		0,000	-	37,956	3,17	0,000	361.748,434	120,130	397.736,075
1812	0,000		19,475	-					
		0,000	-	36,616	10,00	0,000	361.748,434	366,160	398.102,235
1813	0,000		17,142	-					
		0,000	-	34,693	10,00	0,000	361.748,434	346,930	398.449,165
1814	0,000		17,552	-					
		0,000	-	31,776	10,00	0,000	361.748,434	317,760	398.766,925
1815	0,000		14,224	-					
		0,000	-	24,819	10,00	0,000	361.748,434	248,190	399.015,115
1816	0,000		10,595	-					
		0,000	-	20,989	10,00	0,000	361.748,434	209,890	399.225,005
1817	0,000		10,394	-					
		0,000	-	18,918	10,00	0,000	361.748,434	189,180	399.414,185

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
1818	0,000		8,525	-					
		2,731	-	8,529	10,00	27,310	361.775,744	85,290	399.499,475
1819	2,731		0,005	-					
		13,447	-	0,004	10,00	134,470	361.910,214	0,040	399.499,515
1820	10,716		-	-					
		28,760	-	-	8,39	241,354	362.151,568	0,000	399.499,515
1820+16,784	18,044		-	-					
		38,374	-	-	1,61	61,705	362.213,274	0,000	399.499,515
1821	20,330		-	-					
		42,595	-	-	10,00	425,950	362.639,224	0,000	399.499,515
1822	22,265		-	-					
		43,133	-	-	10,00	431,330	363.070,554	0,000	399.499,515
1823	20,868		-	-					
		37,684	-	-	10,00	376,840	363.447,394	0,000	399.499,515
1824	16,816		-	-					
		25,010	-	0,042	10,00	250,100	363.697,494	0,420	399.499,935
1825	8,194		0,042	-					
		8,305	-	4,365	10,00	83,050	363.780,544	43,650	399.543,585
1826	0,111		4,323	-					
		0,111	-	12,940	10,00	1,110	363.781,654	129,400	399.672,985
1827	0,000		8,617	-					
		0,000	-	15,661	10,00	0,000	363.781,654	156,610	399.829,595
1828	0,000		7,045	-					
		0,403	-	13,272	10,00	4,030	363.785,684	132,720	399.962,315
1829	0,403		6,228	-					
		0,503	-	14,692	10,00	5,030	363.790,714	146,920	400.109,235
1830	0,100		8,465	-					
		2,091	-	14,210	10,00	20,910	363.811,624	142,100	400.251,335
1831	1,991		5,745	-					
		8,480	-	8,784	10,00	84,800	363.896,424	87,840	400.339,175
1832	6,489		3,039	-					
		12,705	-	5,892	10,00	127,050	364.023,474	58,920	400.398,095
1833	6,216		2,853	-					
		8,051	-	7,242	10,00	80,510	364.103,984	72,420	400.470,515
1834	1,835		4,389	-					
		1,835	-	12,437	8,36	15,346	364.119,330	104,010	400.574,525
1834+16,725	0,000		8,049	-					
		0,000	-	16,577	1,64	0,000	364.119,330	27,153	400.601,678
1835	0,000		8,529	-					
		0,000	-	19,131	10,00	0,000	364.119,330	191,310	400.792,988
1836	0,000		10,603	-					
		0,963	-	19,080	10,00	9,630	364.128,960	190,800	400.983,788
1837	0,963		8,478	-					
		1,684	-	20,736	10,00	16,840	364.145,800	207,360	401.191,148
1838	0,721		12,259	-					
		0,721	-	25,498	10,00	7,210	364.153,010	254,980	401.446,128
1839	0,000		13,240	-					
		3,179	-	22,446	10,00	31,790	364.184,800	224,460	401.670,588
1840	3,179		9,207	-					
		4,404	-	20,116	10,00	44,040	364.228,840	201,160	401.871,748
1841	1,225		10,909	-					
		5,101	-	18,236	10,00	51,010	364.279,850	182,360	402.054,108
1842	3,876		7,327	-					
		7,199	-	21,129	10,00	71,990	364.351,840	211,290	402.265,398
1843	3,323		13,803	-					
		3,323	-	27,885	10,00	33,230	364.385,070	278,850	402.544,248
1844	0,000		14,082	-					
		0,000	-	31,862	2,19	0,000	364.385,070	69,650	402.613,898
1844+4,372	0,000		17,781	-					
		0,000	-	34,173	7,81	0,000	364.385,070	267,027	402.880,925
1845	0,000		16,393	-					

MAPA DE CUBAÇÃO - VOLUME DE TERRAPLENAGEM									
ESTACA	ÁREA DE CORTE	∑ ÁREA DE CORTE	ÁREA DE ATERRO	∑ ÁREA DE ATERRO	SEMI-DIST.	VOLUME DE CORTE	VOLUME ACUM. DE CORTE	VOLUME DE ATERRO	VOLUME ACUM. DE ATERRO
		0,000	-	32,784	10,00	0,000	364.385,070	327,840	403.208,765
1846	0,000		16,392	-					
		0,000	-	31,218	10,00	0,000	364.385,070	312,180	403.520,945
1847	0,000		14,827	-					
		0,000	-	26,665	10,00	0,000	364.385,070	266,650	403.787,595
1848	0,000		11,838	-					
		0,000	-	25,749	10,00	0,000	364.385,070	257,490	404.045,085
1849	0,000		13,911	-					
		0,000	-	27,618	10,00	0,000	364.385,070	276,180	404.321,265
1850	0,000		13,708	-					
		0,000	-	28,340	10,00	0,000	364.385,070	283,400	404.604,665
1851	0,000		14,633	-					
		0,000	-	27,279	10,00	0,000	364.385,070	272,790	404.877,455
1852	0,000		12,646	-					
		0,000	-	21,502	10,00	0,000	364.385,070	215,020	405.092,475
1853	0,000		8,857	-					
		0,000	-	19,856	10,00	0,000	364.385,070	198,560	405.291,035
1854	0,000		11,000	-					
		0,000	-	23,627	10,00	0,000	364.385,070	236,270	405.527,305
1855	0,000		12,627	-					
		0,000	-	23,035	10,00	0,000	364.385,070	230,350	405.757,655
1856	0,000		10,408	-					
		0,000	-	21,986	10,00	0,000	364.385,070	219,860	405.977,515
1857	0,000		11,578	-					
		0,328	-	14,662	10,00	3,280	364.388,350	146,620	406.124,135
1858	0,328		3,085	-					
		4,901	-	3,084	10,00	49,010	364.437,360	30,840	406.154,975
1859	4,573		-	-					
		10,029	-	-	10,00	100,290	364.537,650	0,000	406.154,975
1860	5,456		-	-					
		9,706	-	-	10,00	97,060	364.634,710	0,000	406.154,975
1861	4,250		-	-					
		6,875	-	1,323	10,00	68,750	364.703,460	13,230	406.168,205
1862	2,625		1,323	-					
		5,141	-	3,296	1,80	9,238	364.712,698	5,922	406.174,127
1862+3,594	2,516		1,973	-					
		2,713	-	5,804	8,20	22,255	364.734,953	47,610	406.221,737
1863	0,197		3,832	-					
		0,197	-	10,366	10,00	1,970	364.736,923	103,660	406.325,397
1864	0,000		6,534	-					
		1,176	-	13,485	10,00	11,760	364.748,683	134,850	406.460,247
1865	1,176		6,951	-					
		4,813	-	15,757	10,00	48,130	364.796,813	157,570	406.617,817
1866	3,637		8,807	-					
		9,994	-	14,875	10,00	99,940	364.896,753	148,750	406.766,567
1867	6,357		6,069	-					
		11,236	-	8,817	7,70	86,472	364.983,225	67,855	406.834,422
1867+15,391	4,879		2,748	-					
		9,160	-	4,894	2,31	21,114	365.004,339	11,280	406.845,702
1868	4,281		2,147	-					
		5,780	-	4,047	10,00	57,800	365.062,139	40,470	406.886,172
1869	1,499		1,901	-					
		1,770	-	5,131	10,00	17,700	365.079,839	51,310	406.937,482
1870	0,271		3,230	-					
		0,524	-	4,735	10,00	5,240	365.085,079	47,350	406.984,832
1871	0,253		1,505	-					
		0,552	-	4,575	10,00	5,520	365.090,599	45,750	407.030,582
1872	0,299		3,071	-					
		2,993	-	6,835	10,00	29,930	365.120,529	68,350	407.098,932
1873	2,694		3,764	-					
		9,310	-	6,741	10,00	93,100	365.213,629	67,410	407.166,342

