



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
164	0.00	0.00	0.00	14.61	1848.06	4770.61
164+10	0.00	0.00	0.00	11.84	1848.06	4782.45
165	0.00	0.00	0.00	11.20	1848.06	4793.64
165+10	0.07	0.36	0.36	8.94	1848.43	4802.59
166	0.01	0.40	0.40	5.23	1848.83	4807.81
166+10	0.32	1.64	1.64	1.83	1850.47	4809.64
167	0.40	3.60	3.60	0.01	1854.06	4809.65
167+10	0.73	5.63	5.63	0.01	1859.70	4809.66
168	0.31	5.17	5.17	0.45	1864.87	4810.10
168+10	0.23	2.70	2.70	1.86	1867.57	4811.96
169	0.16	1.95	1.95	3.44	1869.51	4815.40
169+10	0.00	0.79	0.79	9.50	1870.30	4824.89
170	0.00	0.00	0.00	13.75	1870.30	4838.64
170+10	0.00	0.00	0.00	14.50	1870.30	4853.14
171	0.00	0.00	0.00	25.41	1870.30	4878.55
171+10	0.00	0.00	0.00	35.72	1870.30	4914.28
172	0.00	0.00	0.00	34.34	1870.30	4948.61
172+10	0.00	0.00	0.00	28.70	1870.30	4977.31
173	0.00	0.00	0.00	27.43	1870.30	5004.74
173+10	0.00	0.00	0.00	30.52	1870.30	5035.26
174	0.00	0.00	0.00	31.30	1870.30	5066.56
174+10	0.00	0.00	0.00	28.25	1870.30	5094.81
175	0.00	0.00	0.00	20.99	1870.30	5115.80
175+10	0.01	0.07	0.07	14.72	1870.38	5130.53
176	0.17	0.91	0.91	9.16	1871.29	5139.69
176+10	0.90	5.33	5.33	2.48	1876.62	5142.17
177	0.32	6.10	6.10	0.52	1882.72	5142.69
177+10	0.03	1.75	1.75	3.66	1884.47	5146.34
178	0.00	0.14	0.14	7.57	1884.61	5153.92
178+10	0.17	0.87	0.87	7.66	1885.48	5161.58
179	0.66	4.17	4.17	5.84	1889.65	5167.42
179+10	0.57	6.14	6.14	3.86	1895.79	5171.28
180	0.47	5.22	5.22	1.63	1901.01	5172.91
180+10	0.49	4.82	4.82	1.18	1905.83	5174.09
181	0.08	2.83	2.83	6.03	1908.66	5180.12
181+10	0.00	0.39	0.39	16.02	1909.05	5196.14
182	0.00	0.00	0.00	28.53	1909.05	5224.68
182+10	0.00	0.00	0.00	30.97	1909.05	5255.65
183	0.00	0.00	0.00	24.61	1909.05	5280.26
183+10	0.00	0.00	0.00	26.92	1909.05	5307.18
184	0.00	0.00	0.00	31.64	1909.05	5338.82



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
184+10	0.00	0.00	0.00	24.79	1909.05	5363.61
185	0.03	0.17	0.17	12.62	1909.22	5376.23
185+10	0.09	0.61	0.61	6.40	1909.83	5382.63
186	0.22	1.54	1.54	3.47	1911.37	5386.10
186+10	1.12	6.69	6.69	1.00	1918.07	5387.10
187	0.75	9.33	9.33	0.01	1927.40	5387.11
187+10	0.23	4.90	4.90	2.00	1932.30	5389.11
188	0.07	1.49	1.49	5.67	1933.79	5394.77
188+10	0.13	0.98	0.98	7.87	1934.77	5402.65
189	0.17	1.47	1.47	8.30	1936.24	5410.95
189+10	0.23	2.00	2.00	9.04	1938.24	5419.99
190	0.14	1.86	1.86	10.81	1940.10	5430.80
190+10	0.05	0.93	0.93	11.46	1941.03	5442.25
191	0.41	2.28	2.28	9.01	1943.31	5451.27
191+10	1.33	8.70	8.70	4.33	1952.02	5455.60
192	0.34	8.38	8.38	5.67	1960.40	5461.27
192+10	2.12	12.30	12.30	11.05	1972.69	5472.32
193	3.40	27.57	27.57	9.34	2000.26	5481.66
193+10	1.52	24.58	24.58	5.07	2024.84	5486.73
194	0.06	7.88	7.88	2.68	2032.72	5489.41
194+10	0.44	2.46	2.46	0.66	2035.19	5490.08
195	0.22	3.27	3.27	0.09	2038.45	5490.16
195+10	0.00	1.08	1.08	1.46	2039.54	5491.62
196	0.00	0.00	0.00	8.22	2039.54	5499.85
196+10	0.00	0.00	0.00	16.68	2039.54	5516.52
197	0.00	0.00	0.00	27.21	2039.54	5543.73
197-10	0.00	0.00	0.00	36.72	2039.54	5580.45
198	0.00	0.00	0.00	40.97	2039.54	5621.43
198+10	0.00	0.00	0.00	41.52	2039.54	5662.94
199	0.00	0.00	0.00	38.88	2039.54	5701.82
199+10	0.00	0.00	0.00	35.30	2039.54	5737.12
200	0.00	0.00	0.00	29.54	2039.54	5766.66
200+10	0.00	0.00	0.00	24.11	2039.54	5790.77
201	0.02	0.11	0.11	17.52	2039.65	5808.29
201+10	0.15	0.87	0.87	10.41	2040.52	5818.70
202	0.21	1.81	1.81	5.99	2042.33	5824.69
202+10	0.39	3.01	3.01	2.48	2045.34	5827.18
203	1.12	7.55	7.55	0.53	2052.90	5827.71
203+10	1.17	11.46	11.46	0.69	2064.36	5828.40
204	2.12	16.47	16.47	0.41	2080.83	5828.80
204+10	2.30	22.11	22.11	0.00	2102.94	5828.80



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**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
205	1.28	17.92	17.92	0.00	2120.86	5828.80
205+10	1.21	12.47	12.47	0.06	2133.33	5828.86
206	0.89	10.53	10.53	1.58	2143.87	5830.44
206+10	0.23	5.60	5.60	4.36	2149.47	5834.80
207	0.36	2.91	2.91	7.79	2152.38	5842.59
207+10	0.65	5.01	5.01	9.86	2157.40	5852.45
208	1.02	8.32	8.32	8.06	2165.71	5860.51
208+10	1.19	11.06	11.06	4.37	2176.77	5864.87
209	1.46	13.27	13.27	1.22	2190.04	5866.09
209+10	2.27	18.63	18.63	0.00	2208.67	5866.09
210	3.93	30.99	30.99	0.00	2239.66	5866.09
210+10	3.43	36.79	36.79	0.00	2276.45	5866.09
211	1.65	25.39	25.39	0.00	2301.84	5866.09
211+10	0.26	9.55	9.55	0.25	2311.39	5866.35
212	0.01	1.35	1.35	3.01	2312.74	5869.35
212+10	0.00	0.06	0.06	7.12	2312.80	5876.47
213	0.00	0.01	0.01	7.16	2312.81	5883.63
213+10	0.01	0.05	0.05	5.90	2312.87	5889.53
214	0.04	0.25	0.25	5.52	2313.11	5895.06
214+10	0.14	0.90	0.90	3.77	2314.02	5898.83
215	0.26	2.01	2.01	1.71	2316.03	5900.54
215+10	0.00	1.32	1.32	3.42	2317.34	5903.96
216	0.00	0.00	0.00	6.30	2317.34	5910.26
216+10	0.00	0.00	0.00	8.06	2317.34	5918.31
217	0.00	0.00	0.00	11.77	2317.34	5930.08
217+10	0.00	0.00	0.00	16.83	2317.34	5946.91
218	0.00	0.00	0.00	17.41	2317.34	5964.32
218+10	0.00	0.01	0.01	19.40	2317.35	5983.72
219	0.04	0.22	0.22	25.17	2317.57	6008.89
219+10	0.01	0.24	0.24	23.98	2317.80	6032.87
220	0.07	0.40	0.40	19.09	2318.20	6051.96
220+10	0.15	1.13	1.13	12.92	2319.33	6064.88
221	0.15	1.51	1.51	9.97	2320.84	6074.85
221+10	0.27	2.09	2.09	5.62	2322.93	6080.48
222	0.27	2.68	2.68	1.58	2325.62	6082.05
222+10	0.14	2.02	2.02	3.70	2327.63	6085.75
223	0.18	1.56	1.56	5.23	2329.20	6090.98
223+10	0.16	1.68	1.68	7.17	2330.88	6098.15
224	0.08	1.22	1.22	10.53	2332.10	6108.68
224+10	0.04	0.59	0.59	13.05	2332.68	6121.73
225	0.08	0.60	0.60	10.09	2333.28	6131.82



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ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
225+10	0.25	1.67	1.67	5.36	2334.95	6137.18
226	0.16	2.04	2.04	3.57	2336.99	6140.76
226+10	0.15	1.54	1.54	3.37	2338.53	6144.13
227	0.21	1.79	1.79	3.13	2340.31	6147.26
227+10	0.11	1.59	1.59	2.85	2341.91	6150.10
228	0.01	0.61	0.61	4.87	2342.52	6154.97
228+10	0.00	0.06	0.06	9.70	2342.58	6164.67
229	0.00	0.00	0.00	15.92	2342.58	6180.58
229+10	0.00	0.00	0.00	23.72	2342.58	6204.30
230	0.00	0.00	0.00	31.84	2342.58	6236.14
230+10	0.00	0.00	0.00	36.41	2342.58	6272.55
231	0.00	0.00	0.00	39.37	2342.58	6311.92
231+10	0.00	0.00	0.00	39.08	2342.58	6351.00
232	0.00	0.00	0.00	36.98	2342.58	6387.97
232+10	0.00	0.00	0.00	36.93	2342.58	6424.90
233	0.00	0.00	0.00	36.15	2342.58	6461.05
233+10	0.00	0.00	0.00	33.83	2342.58	6494.88
234	0.00	0.00	0.00	30.24	2342.58	6525.12
234+10	0.00	0.00	0.00	28.35	2342.58	6553.46
235	0.00	0.00	0.00	28.72	2342.58	6582.18
235+10	0.00	0.00	0.00	34.07	2342.58	6616.26
236	0.00	0.00	0.00	42.28	2342.58	6658.54
236+10	0.00	0.00	0.00	48.76	2342.58	6707.29
237	0.00	0.00	0.00	56.14	2342.58	6763.44
237+10	0.00	0.00	0.00	62.87	2342.58	6826.31
238	0.00	0.00	0.00	64.58	2342.58	6890.89
238+10	0.00	0.00	0.00	67.73	2342.58	6958.61
239	0.00	0.00	0.00	78.13	2342.58	7036.75
239+10	0.00	0.00	0.00	85.58	2342.58	7122.33
240	0.00	0.00	0.00	87.77	2342.58	7210.10
240+10	0.00	0.00	0.00	78.15	2342.58	7288.25
241	0.00	0.00	0.00	57.59	2342.58	7345.85
241+10	0.00	0.02	0.02	40.37	2342.59	7386.22
242	0.03	0.15	0.15	29.02	2342.75	7415.24
242+10	0.01	0.21	0.21	21.93	2342.95	7437.17
243	0.00	0.07	0.07	17.51	2343.02	7454.68
243+10	0.02	0.08	0.08	11.64	2343.10	7466.32
244	0.69	3.52	3.52	3.54	2346.62	7469.86
244+10	3.33	20.08	20.08	0.00	2366.70	7469.86
245	9.00	61.66	61.66	0.00	2428.37	7469.86
245+10	17.74	133.70	133.70	0.00	2562.06	7469.86



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ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
246	24.37	210.52	210.52	0.00	2772.58	7469.86
246+10	29.25	268.11	268.11	0.00	3040.70	7469.86
247	28.04	286.49	286.49	0.00	3327.19	7469.86
247+10	25.52	267.82	267.82	0.00	3595.00	7469.86
248	18.83	221.76	221.76	0.00	3816.77	7469.86
248+10	11.47	151.50	151.50	0.00	3968.27	7469.86
249	5.68	85.74	85.74	0.00	4054.01	7469.86
249+10	1.25	34.67	34.67	0.00	4088.68	7469.86
250	0.00	6.26	6.26	9.30	4094.95	7479.16
250+10	0.00	0.00	0.00	34.23	4094.95	7513.39
251	0.00	0.00	0.00	71.93	4094.95	7585.32
251+10	0.00	0.00	0.00	103.15	4094.95	7688.47
252	0.00	0.00	0.00	122.41	4094.95	7810.89
252+10	0.00	0.00	0.00	134.11	4094.95	7945.00
253	0.00	0.00	0.00	126.97	4094.95	8071.97
253+10	0.00	0.00	0.00	108.12	4094.95	8180.09
254	0.00	0.00	0.00	70.19	4094.95	8250.28
254+10	0.18	0.91	0.91	23.79	4095.86	8274.08
255	6.10	31.40	31.40	2.61	4127.26	8276.69
255+10	13.79	99.45	99.45	0.00	4226.71	8276.69
256	25.76	197.79	197.79	0.00	4424.49	8276.69
256+10	29.31	275.38	275.38	0.00	4699.87	8276.69
257	30.42	298.65	298.65	0.00	4998.52	8276.69
257+10	32.19	313.05	313.05	0.00	5311.57	8276.69
258	32.47	323.28	323.28	0.00	5634.85	8276.69
258+10	32.79	326.30	326.30	0.00	5961.16	8276.69
259	33.77	332.83	332.83	0.00	6293.99	8276.69
259+10	35.83	347.98	347.98	0.00	6641.97	8276.69
260	34.52	351.74	351.74	0.00	6993.71	8276.69
260+10	34.00	342.60	342.60	0.00	7336.31	8276.69
261	33.79	338.95	338.95	0.00	7675.27	8276.69
261+10	34.23	340.12	340.12	0.00	8015.38	8276.69
262	28.25	312.42	312.42	0.00	8327.80	8276.69
262+10	31.20	297.28	297.28	0.00	8625.08	8276.69
263	15.86	235.33	235.33	0.00	8860.41	8276.69
263+10	5.19	105.23	105.23	0.00	8965.64	8276.69
264	2.84	40.12	40.12	0.51	9005.77	8277.20
264+10	1.44	21.40	21.40	2.29	9027.17	8279.50
265	0.43	9.35	9.35	6.10	9036.52	8285.60
265+10	0.36	3.93	3.93	12.07	9040.45	8297.67
266	0.17	2.63	2.63	19.25	9043.08	8316.92



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ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
266+10	0.06	1.12	1.12	28.62	9044.20	8345.54
267	0.10	0.77	0.77	40.34	9044.97	8385.88
267+10	0.20	1.50	1.50	45.34	9046.47	8431.22
268	0.09	1.44	1.44	43.42	9047.90	8474.65
268+10	0.02	0.54	0.54	39.68	9048.44	8514.33
269	0.00	0.10	0.10	33.04	9048.54	8547.36
269+10	0.68	3.42	3.42	27.86	9051.96	8575.22
270	0.05	3.66	3.66	19.93	9055.62	8595.16
270+10	0.04	0.44	0.44	8.20	9056.06	8603.36
271	0.31	1.74	1.74	2.25	9057.80	8605.61
271+10	0.04	1.76	1.76	3.54	9059.56	8609.15
272	0.12	0.80	0.80	5.18	9060.36	8614.33
272+10	0.22	1.67	1.67	4.51	9062.03	8618.84
273	0.32	2.69	2.69	4.20	9064.71	8623.04
273+10	0.21	2.63	2.63	5.07	9067.34	8628.10
274	0.06	1.31	1.31	6.95	9068.66	8635.05
274+10	0.09	0.72	0.72	8.96	9069.38	8644.01
275	0.59	3.41	3.41	11.55	9072.79	8655.57
275+10	0.73	6.62	6.62	14.99	9079.41	8670.56
276	0.62	6.73	6.73	15.17	9086.13	8685.74
276+10	0.76	6.88	6.88	11.59	9093.01	8697.32
277	0.77	7.67	7.67	6.40	9100.68	8703.73
277+10	0.91	8.39	8.39	1.69	9109.07	8705.42
278	0.83	8.66	8.66	0.22	9117.73	8705.64
278+10	1.42	11.25	11.25	0.12	9128.98	8705.76
279	0.68	10.50	10.50	0.06	9139.48	8705.82
279+10	0.15	4.12	4.12	0.33	9143.59	8706.16
280	0.10	1.23	1.23	1.81	9144.82	8707.96
280+10	0.18	1.39	1.39	2.79	9146.21	8710.76
281	0.38	2.81	2.81	1.32	9149.02	8712.07
281+10	1.02	7.00	7.00	0.07	9156.02	8712.14
282	1.29	11.52	11.52	0.56	9167.54	8712.70
282+10	2.17	17.27	17.27	0.55	9184.82	8713.25
283	2.09	21.31	21.31	0.00	9206.12	8713.25
283+10	2.00	20.47	20.47	0.00	9226.59	8713.25
284	1.18	15.87	15.87	0.00	9242.46	8713.25
284+10	0.51	8.42	8.42	0.53	9250.88	8713.78
285	0.45	4.81	4.81	1.78	9255.69	8715.56
285+10	0.32	3.88	3.88	3.00	9259.57	8718.56
286	0.18	2.49	2.49	5.75	9262.06	8724.31
286+10	0.21	1.94	1.94	8.47	9264.01	8732.78



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
287	0.24	2.25	2.25	8.75	9266.26	8741.52
287+10	0.15	1.95	1.95	7.89	9268.21	8749.41
288	0.15	1.53	1.53	6.06	9269.74	8755.47
288+10	0.26	2.08	2.08	2.93	9271.82	8758.40
289	0.75	5.04	5.04	0.48	9276.86	8758.88
289+10	1.04	8.91	8.91	0.00	9285.77	8758.88
290	2.22	16.30	16.30	0.00	9302.07	8758.88
290+10	2.29	22.59	22.59	0.00	9324.66	8758.88
291	1.04	16.66	16.66	0.00	9341.32	8758.88
291+10	0.73	8.86	8.86	0.04	9350.18	8758.92
292	1.43	10.82	10.82	0.04	9361.00	8758.95
292+10	2.72	20.76	20.76	0.00	9381.75	8758.95
293	2.68	27.00	27.00	0.00	9408.76	8758.95
293+10	3.24	29.57	29.57	0.00	9438.33	8758.95
294	3.54	33.86	33.86	0.00	9472.19	8758.95
294+10	5.65	45.95	45.95	0.00	9518.15	8758.95
295	5.03	53.40	53.40	0.00	9571.54	8758.95
295+10	5.16	50.94	50.94	0.00	9622.48	8758.95
296	5.23	51.97	51.97	0.00	9674.46	8758.95
296+10	5.56	53.96	53.96	0.00	9728.42	8758.95
297	5.95	57.55	57.55	0.00	9785.97	8758.95
297+10	6.24	60.96	60.96	0.00	9846.93	8758.95
298	7.93	70.86	70.86	0.00	9917.79	8758.95
298+10	9.47	87.03	87.03	0.00	10004.82	8758.95
299	9.43	94.53	94.53	0.00	10099.35	8758.95
299+10	8.68	90.55	90.55	0.00	10189.90	8758.95
300	4.35	65.15	65.15	0.00	10255.05	8758.95
300+10	2.64	34.96	34.96	0.19	10290.00	8759.14
301	1.29	19.66	19.66	2.93	10309.66	8762.08
301+10	0.08	6.87	6.87	11.75	10316.53	8773.83
302	0.00	0.40	0.40	29.14	10316.94	8802.96
302+10	0.00	0.00	0.00	49.83	10316.94	8852.80
303	0.00	0.00	0.00	59.29	10316.94	8912.09
303+10	0.00	0.00	0.00	61.30	10316.94	8973.39
304	0.00	0.00	0.00	74.15	10316.94	9047.54
304+10	0.00	0.00	0.00	77.99	10316.94	9125.53
305	0.00	0.00	0.00	51.89	10316.94	9177.43
305+10	0.78	3.90	3.90	24.09	10320.84	9201.52
306	3.62	22.01	22.01	10.77	10342.85	9212.30
306+10	7.06	53.40	53.40	4.62	10396.25	9216.92
307	9.94	85.01	85.01	4.15	10481.26	9221.06



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
307+10	12.78	113.62	113.62	3.46	10594.88	9224.52
308	11.66	122.21	122.21	0.90	10717.08	9225.42
308+10	8.40	100.30	100.30	0.27	10817.39	9225.69
309	5.42	69.09	69.09	3.21	10886.48	9228.90
309+10	3.72	45.69	45.69	10.38	10932.17	9239.28
310	2.20	29.60	29.60	19.63	10961.77	9258.91
310+10	1.50	18.47	18.47	24.58	10980.24	9283.49
311	1.61	15.50	15.50	23.13	10995.75	9306.62
311+10	1.74	16.70	16.70	21.30	11012.45	9327.92
312	1.27	15.01	15.01	23.19	11027.46	9351.11
312+10	0.86	10.65	10.65	30.64	11038.11	9381.75
313	0.44	6.51	6.51	42.70	11044.62	9424.45
313+10	0.24	3.37	3.37	53.94	11047.99	9478.39
314	0.09	1.63	1.63	59.26	11049.62	9537.66
314+10	0.00	0.45	0.45	61.11	11050.07	9598.77
315	0.00	0.00	0.00	67.61	11050.07	9666.38
315+10	0.00	0.00	0.00	81.87	11050.07	9748.25
316	0.00	0.00	0.00	98.11	11050.07	9846.36
316+10	0.00	0.00	0.00	111.26	11050.07	9957.62
317	0.00	0.00	0.00	108.78	11050.07	10066.40
317+10	0.00	0.00	0.00	86.91	11050.07	10153.31
318	0.00	0.00	0.00	60.42	11050.07	10213.73
318+10	0.00	0.01	0.01	45.40	11050.08	10259.13
319	0.11	0.56	0.56	39.92	11050.65	10299.05
319+10	0.12	1.14	1.14	34.63	11051.78	10333.68
320	0.21	1.62	1.62	33.39	11053.41	10367.07
320+10	0.68	4.41	4.41	31.41	11057.82	10398.48
321	0.89	7.84	7.84	27.60	11065.66	10426.08
321+10	0.38	6.36	6.36	29.55	11072.03	10455.63
322	0.20	2.88	2.88	34.23	11074.91	10489.86
322+10	0.39	2.96	2.96	36.07	11077.86	10525.93
323	0.58	4.85	4.85	32.66	11082.72	10558.59
323+10	0.42	5.00	5.00	25.14	11087.72	10583.73
324	0.47	4.47	4.47	17.74	11092.19	10601.47
324+10	0.47	4.71	4.71	13.79	11096.90	10615.26
325	0.37	4.19	4.19	12.51	11101.08	10627.77
325+10	0.01	1.89	1.89	12.84	11102.97	10640.61
326	0.13	0.69	0.69	11.68	11103.67	10652.30
326+10	0.42	2.72	2.72	8.00	11106.39	10660.29
327	0.23	3.27	3.27	10.15	11109.66	10670.44
327+10	0.00	1.17	1.17	22.00	11110.83	10692.44



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
328	0.00	0.00	0.00	38.02	11110.83	10730.45
328+10	0.00	0.00	0.00	52.37	11110.83	10782.83
329	0.00	0.00	0.00	65.78	11110.83	10848.61
329+10	0.00	0.00	0.00	72.81	11110.83	10921.42
330	0.00	0.00	0.00	72.01	11110.83	10993.42
330+10	0.00	0.00	0.00	70.98	11110.83	11064.41
331	0.00	0.00	0.00	61.09	11110.83	11125.50
331+10	0.00	0.00	0.00	41.90	11110.83	11167.40
332	0.10	0.51	0.51	25.00	11111.34	11192.40
332+10	0.65	3.73	3.73	9.85	11115.07	11202.25
333	1.56	11.03	11.03	1.19	11126.10	11203.44
333+10	1.40	14.78	14.78	0.00	11140.88	11203.44
334	0.95	11.71	11.71	0.00	11152.59	11203.44
334+10	0.46	7.04	7.04	0.00	11159.62	11203.44
335	0.64	5.52	5.52	0.02	11165.15	11203.45
335+10	1.29	9.66	9.66	0.17	11174.80	11203.62
336	1.58	14.34	14.34	3.11	11189.15	11206.73
336+10	1.15	13.64	13.64	6.13	11202.79	11212.87
337	0.02	5.84	5.84	11.96	11208.63	11224.83
337+10	0.00	0.11	0.11	20.73	11208.74	11245.56
338	0.00	0.00	0.00	29.16	11208.74	11274.72
338+10	0.00	0.00	0.00	39.47	11208.74	11314.19
339	0.00	0.00	0.00	50.47	11208.74	11364.66
339+10	0.03	0.15	0.15	57.29	11208.89	11421.95
340	0.00	0.15	0.15	44.88	11209.04	11466.83
340+10	0.00	0.00	0.00	19.72	11209.04	11486.56
341	2.83	14.15	14.15	3.92	11223.19	11490.48
341+10	8.03	54.32	54.32	0.00	11277.50	11490.48
342	10.91	94.70	94.70	0.00	11372.20	11490.48
342+10	11.19	110.49	110.49	0.00	11482.69	11490.48
343	8.62	99.04	99.04	0.00	11581.74	11490.48
343+10	3.72	61.66	61.66	0.00	11643.40	11490.48
344	0.00	18.58	18.58	13.11	11661.98	11503.58
344+10	0.00	0.00	0.00	41.89	11661.98	11545.47
345	0.00	0.00	0.00	79.61	11661.98	11625.09
345+10	0.00	0.00	0.00	125.79	11661.98	11750.88
346	0.00	0.00	0.00	156.19	11661.98	11907.07
346+10	0.00	0.00	0.00	134.86	11661.98	12041.93
347	0.00	0.00	0.00	86.82	11661.98	12128.75
347+10	0.00	0.00	0.00	51.98	11661.98	12180.73
348	0.00	0.00	0.00	27.85	11661.98	12208.58



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
348+10	0.10	0.52	0.52	10.04	11662.50	12218.63
349	0.63	3.69	3.69	1.00	11666.19	12219.63
349+10	1.07	8.54	8.54	0.00	11674.73	12219.63
350	1.12	10.98	10.98	0.00	11685.71	12219.63
350+10	0.61	8.65	8.65	0.00	11694.36	12219.63
351	0.52	5.65	5.65	0.04	11700.01	12219.66
351+10	0.82	6.72	6.72	0.04	11706.73	12219.70
352	0.80	8.09	8.09	0.98	11714.82	12220.68
352+10	1.62	12.08	12.08	0.98	11726.90	12221.65
353	1.92	17.68	17.68	0.00	11744.59	12221.65
353+10	1.88	19.00	19.00	0.00	11763.58	12221.65
354	1.71	17.95	17.95	0.00	11781.53	12221.65
354+10	1.06	13.82	13.82	0.67	11795.35	12222.33
355	0.62	8.36	8.36	4.09	11803.72	12226.42
355+10	0.37	4.94	4.94	12.71	11808.66	12239.13
356	0.20	2.87	2.87	18.37	11811.53	12257.50
356+10	0.00	1.01	1.01	17.92	11812.54	12275.42
357	0.00	0.00	0.00	21.61	11812.54	12297.02
357+10	0.00	0.00	0.00	27.98	11812.54	12325.00
358	0.00	0.00	0.00	27.43	11812.54	12352.43
358+10	0.00	0.00	0.00	19.61	11812.54	12372.04
359	0.00	0.00	0.00	11.54	11812.54	12383.59
359+10	0.01	0.04	0.04	6.49	11812.58	12390.08
360	0.63	3.17	3.17	3.21	11815.75	12393.29
360+10	0.30	4.64	4.64	2.46	11820.39	12395.74
361	0.25	2.74	2.74	4.10	11823.14	12399.85
361+10	0.12	1.81	1.81	6.59	11824.95	12406.44
362	0.03	0.73	0.73	10.00	11825.67	12416.44
362+10	0.00	0.15	0.15	16.21	11825.82	12432.65
363	0.00	0.00	0.00	20.63	11825.82	12453.28
363+10	0.00	0.00	0.00	20.92	11825.82	12474.20
364	0.00	0.00	0.00	22.44	11825.82	12496.64
364+10	0.00	0.00	0.00	25.02	11825.82	12521.66
365	0.00	0.00	0.00	28.49	11825.82	12550.15
365+10	0.00	0.00	0.00	31.46	11825.82	12581.62
366	0.00	0.00	0.00	32.53	11825.82	12614.15
366+10	0.00	0.00	0.00	34.18	11825.82	12648.32
367	0.00	0.00	0.00	36.19	11825.82	12684.51
367+10	0.00	0.00	0.00	38.23	11825.82	12722.74
368	0.00	0.00	0.00	40.21	11825.82	12762.95
368+10	0.00	0.00	0.00	40.91	11825.82	12803.86



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
369	0.00	0.00	0.00	40.97	11825.82	12844.83
369+10	0.00	0.00	0.00	41.83	11825.82	12886.66
370	0.00	0.00	0.00	43.08	11825.82	12929.74
370+10	0.00	0.00	0.00	43.47	11825.82	12973.21
371	0.00	0.00	0.00	42.78	11825.82	13015.99
371+10	0.00	0.00	0.00	41.01	11825.82	13057.00
372	0.00	0.00	0.00	40.58	11825.82	13097.58
372+10	0.00	0.00	0.00	42.35	11825.82	13139.93
373	0.00	0.00	0.00	41.53	11825.82	13181.46
373+10	0.00	0.00	0.00	39.67	11825.82	13221.13
374	0.00	0.00	0.00	41.28	11825.82	13262.41
374+10	0.00	0.00	0.00	42.66	11825.82	13305.07
375	0.00	0.00	0.00	40.08	11825.82	13345.16
375+10	0.00	0.00	0.00	35.45	11825.82	13380.61
376	0.00	0.00	0.00	31.99	11825.82	13412.59
376+10	0.00	0.00	0.00	29.36	11825.82	13441.95
377	0.00	0.00	0.00	25.08	11825.82	13467.03
377+10	0.00	0.00	0.00	20.71	11825.82	13487.74
378	0.00	0.00	0.00	17.06	11825.82	13504.81
378+10	0.00	0.00	0.00	14.76	11825.82	13519.57
379	0.00	0.00	0.00	13.59	11825.82	13533.16
379+10	0.00	0.00	0.00	12.44	11825.82	13545.60
380	0.00	0.00	0.00	13.10	11825.82	13558.69
380+10	0.00	0.00	0.00	13.84	11825.82	13572.54
381	0.00	0.00	0.00	13.57	11825.82	13586.11
381+10	0.00	0.00	0.00	12.20	11825.82	13598.30
382	0.04	0.19	0.19	8.67	11826.01	13606.98
382+10	0.02	0.30	0.30	5.48	11826.32	13612.45
383	0.00	0.12	0.12	5.26	11826.44	13617.72
383+10	0.00	0.01	0.01	6.37	11826.44	13624.09
384	0.01	0.06	0.06	5.91	11826.50	13630.01
384+10	0.17	0.90	0.90	5.59	11827.40	13635.59
385	0.21	1.88	1.88	6.52	11829.28	13642.11
385+10	0.34	2.74	2.74	4.70	11832.02	13646.81
386	0.79	5.65	5.65	2.08	11837.68	13648.90
386+10	1.18	9.83	9.83	1.91	11847.50	13650.80
387	1.12	11.48	11.48	1.41	11858.99	13652.21
387+10	0.90	10.10	10.10	0.68	11869.08	13652.90
388	1.28	10.91	10.91	0.41	11880.00	13653.30
388+10	1.53	14.09	14.09	0.00	11894.09	13653.31
389	1.66	15.99	15.99	0.00	11910.08	13653.31



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
389+10	1.87	17.67	17.67	0.00	11927.75	13653.31
390	1.63	17.52	17.52	0.00	11945.27	13653.31
390+10	1.46	15.46	15.46	0.00	11960.73	13653.31
391	1.61	15.33	15.33	0.00	11976.06	13653.31
391+10	1.13	13.66	13.66	0.00	11989.72	13653.31
392	0.82	9.75	9.75	0.00	11999.47	13653.31
392+10	1.48	11.54	11.54	0.00	12011.01	13653.31
393	1.55	15.15	15.15	0.00	12026.16	13653.31
393+10	1.42	14.85	14.85	0.00	12041.01	13653.31
394	1.38	13.98	13.98	0.00	12054.99	13653.31
394+10	1.73	15.53	15.53	0.00	12070.52	13653.31
395	1.73	17.30	17.30	0.00	12087.82	13653.31
395+10	1.56	16.47	16.47	0.00	12104.29	13653.31
396	1.67	16.17	16.17	0.00	12120.46	13653.31
396+10	1.63	16.48	16.48	0.00	12136.94	13653.31
397	1.22	14.23	14.23	0.00	12151.17	13653.31
397+10	1.17	11.95	11.95	0.01	12163.12	13653.31
398	1.16	11.67	11.67	0.07	12174.78	13653.39
398+10	0.73	9.44	9.44	0.19	12184.22	13653.57
399	0.56	6.41	6.41	0.48	12190.64	13654.06
399+10	0.31	4.32	4.32	0.58	12194.96	13654.64
400	0.42	3.62	3.62	1.08	12198.58	13655.72
400+10	0.39	4.03	4.03	1.38	12202.61	13657.10
401	0.56	4.75	4.75	0.59	12207.36	13657.69
401+10	0.25	4.07	4.07	0.59	12211.43	13658.28
402	0.14	1.95	1.95	1.75	12213.37	13660.03
402+10	0.01	0.75	0.75	2.53	12214.12	13662.57
403	0.00	0.07	0.07	4.80	12214.19	13667.36
403+10	0.00	0.00	0.00	8.56	12214.19	13675.93
404	0.00	0.00	0.00	10.30	12214.19	13686.23
404+10	0.00	0.00	0.00	16.22	12214.19	13702.45
405	0.00	0.00	0.00	29.97	12214.19	13732.42
405+10	0.00	0.00	0.00	47.29	12214.19	13779.72
406	0.00	0.00	0.00	60.42	12214.19	13840.13
406+10	0.00	0.00	0.00	69.87	12214.19	13910.00
407	0.00	0.00	0.00	78.89	12214.19	13988.90
407+10	0.00	0.00	0.00	86.06	12214.19	14074.95
408	0.00	0.00	0.00	94.72	12214.19	14169.67
408+10	0.00	0.00	0.00	105.88	12214.19	14275.56
409	0.00	0.00	0.00	112.81	12214.19	14388.37
409+10	0.00	0.00	0.00	98.22	12214.19	14486.58



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
410	0.00	0.00	0.00	85.39	12214.19	14571.98
410+10	0.00	0.00	0.00	89.33	12214.19	14661.31
411	0.00	0.00	0.00	88.00	12214.19	14749.30
411+10	0.00	0.00	0.00	80.07	12214.19	14829.37
412	0.00	0.00	0.00	71.74	12214.19	14901.11
412+10	0.00	0.00	0.00	70.66	12214.19	14971.77
413	0.00	0.00	0.00	75.43	12214.19	15047.20
413+10	0.00	0.00	0.00	76.39	12214.19	15123.59
414	0.00	0.00	0.00	65.13	12214.19	15188.72
414+10	0.00	0.00	0.00	47.54	12214.19	15236.26
415	0.00	0.00	0.00	33.72	12214.19	15269.98
415+10	0.00	0.00	0.00	23.82	12214.19	15293.80
416	0.00	0.00	0.00	18.93	12214.19	15312.72
416+10	0.00	0.00	0.00	18.99	12214.19	15331.71
417	0.00	0.00	0.00	21.81	12214.19	15353.52
417+10	0.00	0.00	0.00	27.93	12214.19	15381.45
418	0.00	0.00	0.00	35.02	12214.19	15416.46
418+10	0.00	0.00	0.00	36.81	12214.19	15453.28
419	0.00	0.00	0.00	30.92	12214.19	15484.20
419+10	0.00	0.00	0.00	20.09	12214.19	15504.28
420	0.00	0.02	0.02	11.72	12214.22	15516.00
420+10	0.02	0.11	0.11	7.17	12214.33	15523.18
421	0.20	1.08	1.08	3.53	12215.40	15526.71
421+10	0.46	3.28	3.28	3.04	12218.68	15529.75
422	0.27	3.65	3.65	5.93	12222.33	15535.67
422+10	0.01	1.40	1.40	10.61	12223.72	15546.29
423	0.00	0.04	0.04	15.21	12223.76	15561.50
423+10	0.00	0.00	0.00	17.26	12223.76	15578.76
424	0.02	0.12	0.12	13.09	12223.88	15591.85
424+10	0.92	4.73	4.73	5.71	12228.61	15597.56
425	0.67	7.94	7.94	1.44	12236.55	15599.00
425+10	2.29	14.81	14.81	0.06	12251.36	15599.06
426	1.76	20.29	20.29	0.03	12271.64	15599.09
426+10	1.18	14.72	14.72	0.17	12286.36	15599.26
427	0.83	10.06	10.06	0.23	12296.42	15599.49
427+10	0.46	6.42	6.42	0.19	12302.84	15599.68
428	0.08	2.69	2.69	2.91	12305.54	15602.60
428+10	0.05	0.66	0.66	6.80	12306.19	15609.40
429	0.09	0.68	0.68	7.01	12306.88	15616.41
429+10	0.19	1.37	1.37	5.23	12308.25	15621.64
430	0.48	3.34	3.34	3.37	12311.59	15625.00



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
430+10	0.55	5.14	5.14	1.72	12316.73	15626.72
431	0.25	3.96	3.96	1.40	12320.69	15628.13
431+10	0.25	2.48	2.48	1.01	12323.18	15629.14
432	1.31	7.81	7.81	0.16	12330.99	15629.30
432+10	0.58	9.48	9.48	0.00	12340.46	15629.30
433	0.05	3.15	3.15	2.47	12343.61	15631.78
433+10	0.00	0.23	0.23	9.03	12343.85	15640.81
434	0.00	0.00	0.00	19.71	12343.85	15660.52
434+10	0.00	0.00	0.00	18.15	12343.85	15678.67
435	0.00	0.00	0.00	9.60	12343.85	15688.27
435+10	0.00	0.00	0.00	8.76	12343.85	15697.03
436	0.06	0.32	0.32	7.46	12344.17	15704.49
436+10	0.06	0.61	0.61	5.90	12344.78	15710.39
437	0.18	1.19	1.19	5.74	12345.97	15716.13
437+10	0.29	2.37	2.37	3.38	12348.33	15719.51
438	0.26	2.79	2.79	1.11	12351.12	15720.62
438+10	0.44	3.52	3.52	1.07	12354.65	15721.69
439	0.19	3.15	3.15	1.98	12357.80	15723.67
439+10	0.00	0.95	0.95	5.12	12358.75	15728.79
440	0.00	0.00	0.00	15.65	12358.75	15744.44
440+10	0.00	0.00	0.00	23.52	12358.75	15767.96
441	0.00	0.00	0.00	21.94	12358.75	15789.90
441+10	0.00	0.00	0.00	17.41	12358.75	15807.31
442	0.08	0.39	0.39	9.84	12359.14	15817.16
442+10	0.49	2.83	2.83	3.22	12361.96	15820.38
443	1.82	11.51	11.51	0.07	12373.48	15820.45
443+10	3.45	26.31	26.31	0.00	12399.78	15820.45
444	4.15	37.99	37.99	0.00	12437.77	15820.45
444+10	2.89	35.22	35.22	0.00	12472.99	15820.45
445	1.08	19.85	19.85	0.16	12492.83	15820.61
445+10	0.14	6.09	6.09	6.06	12498.93	15826.67
446	0.00	0.70	0.70	21.58	12499.63	15848.25
446+10	0.00	0.00	0.00	48.72	12499.63	15896.97
447	0.00	0.00	0.00	77.49	12499.63	15974.46
447+10	0.00	0.00	0.00	101.88	12499.63	16076.33
448	0.00	0.00	0.00	126.27	12499.63	16202.60
448+10	0.00	0.00	0.00	159.67	12499.63	16362.27
449	0.00	0.00	0.00	207.35	12499.63	16569.62
449+10	0.00	0.00	0.00	291.16	12499.63	16860.78
450	0.00	0.00	0.00	406.20	12499.63	17266.98
450+10	0.00	0.00	0.00	403.91	12499.63	17670.89



**ESTRADA QUE LIGA O DISTRITO DE BARÃO DE AQUIRAZ A QUIXARIÚ - ESTACA 0 A 585+18.00**

**CÁLCULO DE VOLUME POR COMPARAÇÃO DE PERFIS: TERRENO X PROJETO**

ESTACA	ÁREA DE CORTE	ÁREA DE ATERRO	VOLUME DE CORTE	VOLUME DE ATERRO	VOLUME DE CORTE ACUMULADO	VOLUME DE ATERRO ACUMULADO
451	0.00	0.00	0.00	322.12	12499.63	17993.01
451+10	0.00	0.00	0.00	282.95	12499.63	18275.96
452	0.00	0.00	0.00	254.59	12499.63	18530.55
452+10	0.00	0.00	0.00	233.67	12499.63	18764.22
453	0.00	0.00	0.00	221.09	12499.63	18985.31
453+10	0.00	0.00	0.00	220.76	12499.63	19206.07
454	0.00	0.00	0.00	260.70	12499.63	19466.77
454+10	0.00	0.00	0.00	299.41	12499.63	19766.18
455	0.00	0.00	0.00	265.89	12499.63	20032.07
455+10	0.00	0.00	0.00	236.43	12499.63	20268.51
456	0.00	0.00	0.00	241.29	12499.63	20509.80
456+10	0.00	0.00	0.00	225.45	12499.63	20735.25
457	0.00	0.00	0.00	183.33	12499.63	20918.58
457+10	0.00	0.00	0.00	132.17	12499.63	21050.75
458	0.00	0.00	0.00	87.94	12499.63	21138.69
458+10	0.00	0.00	0.00	55.43	12499.63	21194.12
459	0.00	0.02	0.02	29.77	12499.64	21223.90
459+10	0.58	2.91	2.91	10.57	12502.55	21234.47
460	0.33	4.53	4.53	8.15	12507.08	21242.62
460+10	0.11	2.21	2.21	12.55	12509.29	21255.17
461	0.01	0.62	0.62	14.59	12509.91	21269.75
461+10	0.05	0.32	0.32	14.90	12510.24	21284.65
462	0.00	0.27	0.27	23.41	12510.51	21308.05
462+10	0.00	0.00	0.00	41.25	12510.51	21349.30
463	0.00	0.00	0.00	60.16	12510.51	21409.46
463+10	0.00	0.00	0.00	75.42	12510.51	21484.88
464	0.00	0.00	0.00	85.76	12510.51	21570.64
464+10	0.00	0.00	0.00	86.62	12510.51	21657.26
465	0.00	0.00	0.00	70.54	12510.51	21727.80
465+10	0.00	0.00	0.00	48.13	12510.51	21775.93
466	0.00	0.00	0.00	26.31	12510.51	21802.24
466+10	0.50	2.48	2.48	7.56	12512.99	21809.80
467	2.04	12.67	12.67	0.44	12525.66	21810.24
467+10	1.86	19.48	19.48	0.64	12545.14	21810.88
468	0.39	11.25	11.25	1.18	12556.39	21812.07
468+10	0.15	2.71	2.71	3.53	12559.10	21815.60
469	0.21	1.83	1.83	6.78	12560.93	21822.37
469+10	0.01	1.12	1.12	14.68	12562.05	21837.06
470	0.00	0.05	0.05	21.44	12562.10	21858.50
470+10	0.00	0.01	0.01	20.94	12562.11	21879.44
471	0.00	0.01	0.01	18.03	12562.12	21897.47