



GOVERNO DO ESTADO DO PARÁ
SECRETARIA DE ESTADO DE TRANSPORTES - SETRAN

PROJETO BÁSICO DE ENGENHARIA PARA
CONSTRUÇÃO E PAVIMENTAÇÃO

RODOVIA: PA-423
TRECHO: MONTE ALEGRE – ENTRONC. PA-254
EXTENSÃO: 40,00 km

ANEXO 2A
VOLUME DE TERRAPLENAGEM (MAPA DE CUBAÇÃO)



MAIO / 2020

ÍNDICE

1.	APRESENTAÇÃO:	03
2.	SEÇÃO TIPO DE TERRAPLENAGEM:	05
3.	RESUMO E DISTRIBUIÇÃO DE TERRAPLENAGEM:	07
4.	VOLUME DE TERRAPLENAGEM (MAPA DE CUBAÇÃO):	12

A SECRETARIA DE ESTADO DE TRANSPORTES – SETRAN apresenta relatório do projeto básico de engenharia para construção e pavimentação da rodovia PA-423, trecho: Monte Alegre – Entroncamento PA-254, com extensão de 40,00 km.

O projeto básico está apresentado nos seguintes volumes:

VOLUMES / ANEXOS	DISCRIMINAÇÃO	TAMANHO
VOLUME 01	RELATÓRIO DO PROJETO	A4
VOLUME 02	PROJETO BÁSICO DE EXECUÇÃO	A3
ANEXO 2A	VOLUME DE TERRAPLENAGEM (MAPA DE CUBAÇÃO)	A4

O conteúdo de cada volume está descrito a seguir:

Volume 1 – Relatório do Projeto - Tamanho A-4.

Este volume reúne todas as metodologias que possibilitaram a definição das soluções a serem adotadas nas fases seguintes dos projetos nos diversos itens de serviços.

Apresenta, também, todos os estudos preliminares realizados que orientaram as tomadas de decisões com relação às soluções adotadas e as planilhas com estimativas de quantitativos e orçamento dos serviços a executar que complementam os documentos para concorrência.

Volume 2 – Tamanho A-3.

Este volume contém os projetos geométricos e de Sinalização, listagens de serviços, Seções-tipo, Seções transversais e demais informações de interesse ao projeto, conforme podemos listar algumas abaixo:

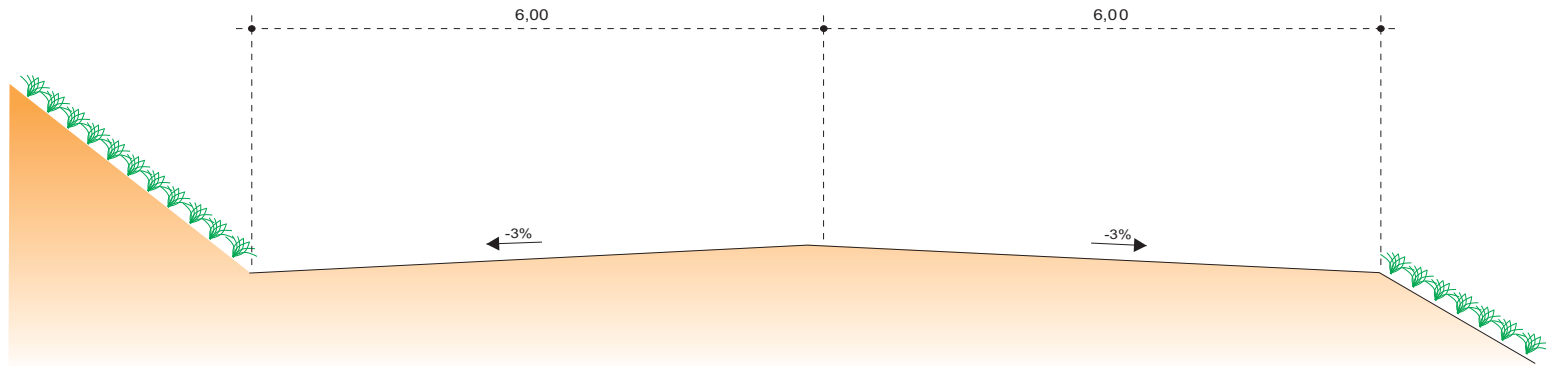
- Mapa de situação
- Principais pontos de passagem
- Esquema linear geométrico da rodovia
- Projeto de terraplenagem
- Gráfico de localização das jazidas e distribuição de material de pavimentação
- Seção tipo de pavimentação e terraplenagem
- Sinalização

Anexo 2A – Volume de Terraplenagem (Mapa de Cubação) - Tamanho A-4.

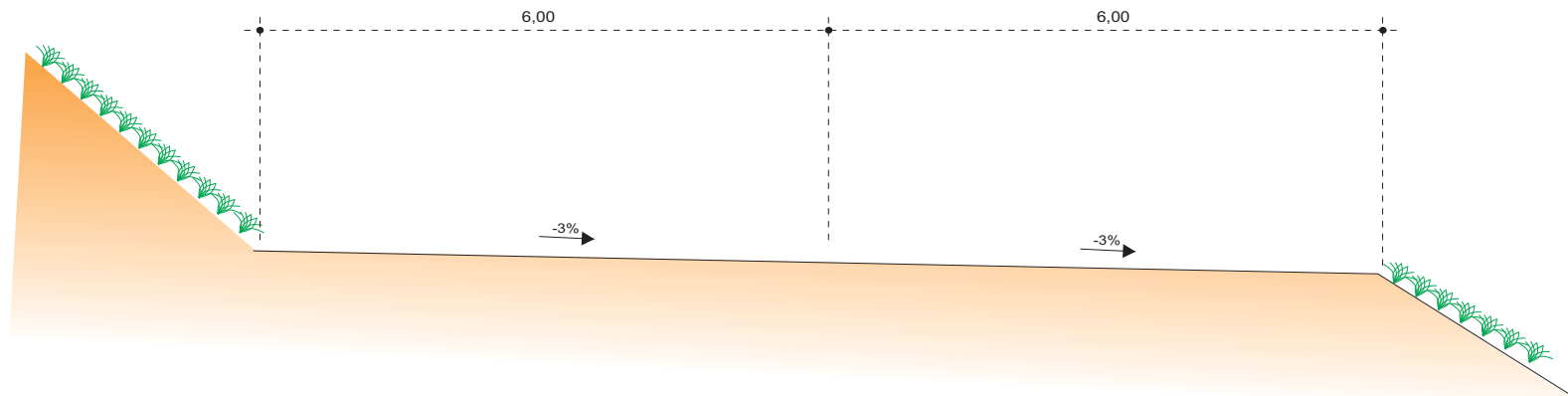
Este material apresenta o volume de terraplenagem calculado através do mapa de cubação.

2- Seção Tipo de terraplenagem

SEÇÃO EM TANGENTE



SEÇÃO EM CURVA



OBSERVAÇÃO:

1 - DIMENSÕES EM METRO.

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 EXTENSÃO: 40,00 Km



SEÇÃO TIPO DE TERRAPLENAGEM



QD

3- Resumo e Distribuição de terraplenagem



1.	Desmatamento, Destocamento e Limpeza de Árvores de Diâmetro até 0,15 metros.				400.350,00 m²
	Faixa de construção				
2.	Destocamento de Árvores com diâmetro de 0,15 a 0,30 metros.				- und
	Faixa de construção				
3.	Roçada manual				1,15 ha
	Faixa de construção				
4.	Origem do Material Escavado		CORTE	EMPRÉSTIMO	TOTAL
			77.109,42 m³	240.362,60 m³	317.472,02 m³
5.	Destino do Material Escavado		ATERRO	BOTA-FORA	TOTAL
			317.472,02 m³	0,00 m³	317.472,02 m³
6.	Distribuição do Material Escavado:				
	Escavação Carga e Transporte Com DMT :				
		1ª Categoria	2ª Categoria	3ª Categoria	TOTAL
	Até 50m	0,00 m³	-	-	0,00 m³
	De 51 a 200 m	3.636,45 m³	-	-	3.636,45 m³
	De 201 a 400 m	65.919,12 m³	-	-	65.919,12 m³
	De 401 a 600 m	7.380,88 m³	-	-	7.380,88 m³
	De 601 a 800 m	39.585,80 m³	-	-	39.585,80 m³
	De 801 a 1000 m	9.444,30 m³	-	-	9.444,30 m³
	De 1001 a 1200 m	14.597,38 m³	-	-	14.597,38 m³
	De 1201 a 1400 m	7.525,47 m³	-	-	7.525,47 m³
	De 1401 a 1600 m	23.499,08 m³	-	-	23.499,08 m³
	De 1601 a 1800 m	10.964,75 m³	-	-	10.964,75 m³
	De 1801 a 2000 m	21.267,18 m³	-	-	21.267,18 m³
	De 2001 a 3000 m	70.397,64 m³	-	-	70.397,64 m³
	De 3001 a 5000 m	43.253,98 m³	-	-	43.253,98 m³
	TOTAL	317.472,02 m³	-	-	317.472,02 m³
7.	Compactação de aterros:				
	PROCTOR 95% DO NORMAL	73.262,77 m³			
	PROCTOR 100% DO NORMAL	170.946,47 m³			
8.	Remoção de Material Inservível (Bota Fora) (DMT = 0km a 10km) - m3				
	Remoção de solo. (m³)	7.171,20 m³			
9.	Camada de drenagem para fundação de aterro com areia - m3				
	Camada drenante (m³)	7.171,20 m³			

GOVERNO DO ESTADO DO PARÁ SECRETARIA DE ESTADO DE TRANSPORTES - SETRAN		
	RODOVIA: PA-423 TRECHO: MONTE ALEGRE - ENTRONC. PA-254 EXTENSÃO: 40,0 Km	
RESUMO DA DISTRIBUIÇÃO DE TERRAPLENAGEM		QD

PROCEDÊNCIA DO MATERIAL ESCAVADO					DESTINO DO MATERIAL ESCAVADO										
Corte (C) Alarg. Corte (AC) Rebaix. Corte (RC) Empréstimo (E) Emp. Lateral (EL)	LOCALIZAÇÃO		VOLUME - m³			ATERRO					BOTA - FORA				
	ESTACA - ESTACA (LADO)		1ª CAT.	2ª CAT.	3ª CAT.	LOCALIZAÇÃO		VOLUME - m³		D. M. T. km	MOMENTO DE TRANSPORTE m³ x km	LOCALIZAÇÃO	VOLUME m³	D. M. T. km	MOMENTO DE TRANSPORTE m³ x km
						ESTACA - ESTACA	PARCIAL	ACUMULADO	ESTACA - LADO						
	C 1	30 + 0,0	60 + 0,0	3.229,860			0 + 0,0	30 + 0,0	3.229,860		0,60	1.937,916			
E 1	140 + 0,0	L/D - 20m	2.318,514			0 + 0,0	30 + 0,0	2.318,514	5.548,374	2,50	5.796,285				
E 1	140 + 0,0	L/D - 20m	50.710,764			60 + 0,0	240 + 0,0	50.710,764	50.710,764	0,20	10.142,153				
E 1	140 + 0,0	L/D - 20m	21.317,562			240 + 0,0	335 + 0,0	21.317,562		2,95	62.886,808				
C 2	335 + 0,0	388 + 0,0	5.446,500			240 + 0,0	335 + 0,0	5.446,500	26.764,062	1,48	8.060,820				
C 3	392 + 0,0	492 + 0,0	2.027,922			388 + 0,0	408 + 0,0	2.027,922	2.027,922	0,88	1.784,571				
C 3	392 + 0,0	492 + 0,0	1.834,456			495 + 0,0	505 + 0,0	1.834,456	1.834,456	1,16	2.127,969				
C 3	392 + 0,0	492 + 0,0	788,862			505 + 0,0	580 + 0,0	788,862		2,01	1.585,613				
E 2	335 + 0,0	L/E - 20m	20.340,480			505 + 0,0	580 + 0,0	20.340,480	21.129,342	4,15	84.412,992				
C 4	655 + 0,0	700 + 0,0	4.952,540			580 + 0,0	645 + 0,0	4.952,540		1,30	6.438,302				
E 3	745 + 0,0	L/E - 20m	13.359,494			580 + 0,0	645 + 0,0	13.359,494	18.312,034	2,65	35.402,659				
E 3	745 + 0,0	L/E - 20m	2.817,243			645 + 0,0	655 + 0,0	2.817,243	2.817,243	1,90	5.352,762				
E 3	745 + 0,0	L/E - 20m	4.226,157			700 + 0,0	715 + 0,0	4.226,157	4.226,157	0,75	3.169,618				
E 3	745 + 0,0	L/E - 20m	9.860,344			715 + 0,0	750 + 0,0	9.860,344	9.860,344	0,25	2.465,086				
C 5	810 + 0,0	825 + 0,0	538,000			750 + 0,0	803 + 0,0	538,000		0,82	441,160				
E 3	745 + 0,0	L/E - 20m	14.957,116			750 + 0,0	803 + 0,0	14.957,116	15.495,116	0,63	9.422,983				
E 3	745 + 0,0	L/E - 20m	2.114,294			805 + 0,0	810 + 0,0	2.114,294	2.114,294	1,25	2.642,868				
EL 2	920 + 0,0	962 + 0,0	1.408,056			825 + 0,0	830 + 0,0	1.408,056	1.408,056	2,27	3.196,287				
C 6	830 + 0,0	888 + 0,0	4.950,960			888 + 0,0	920 + 0,0	4.950,960		0,90	4.431,109				
EL 2	920 + 0,0	962 + 0,0	1.010,346			888 + 0,0	920 + 0,0	1.010,346	5.961,306	0,75	752,708				
C 7	920 + 0,0	963 + 0,0	2.620,780			963 + 0,0	980 + 0,0	2.620,780		0,60	1.559,364				
EL 2	920 + 0,0	962 + 0,0	588,374			963 + 0,0	980 + 0,0	588,374	3.209,154	0,61	355,966				
C 8	980 + 0,0	990 + 0,0	1.286,432			990 + 0,0	1.000 + 0,0	1.286,432		0,20	257,286				
C 9	1000 + 0,0	1040 + 0,0	1.530,236			990 + 0,0	1.000 + 0,0	1.530,236	2.816,668	0,50	765,118				
C 9	1000 + 0,0	1040 + 0,0	482,543			1.040 + 0,0	1.065 + 0,0	482,543		0,65	313,653				
C 10	1065 + 0,0	1110 + 0,0	2.720,424			1.040 + 0,0	1.065 + 0,0	2.720,424		0,70	1.904,297				
E 4	1235 + 0,0	L/E-D - 20m	1.382,995			1.040 + 0,0	1.065 + 0,0	1.382,995	4.585,962	3,65	5.047,932				
C 11	1200 + 0,0	1240 + 0,0	1.388,740			1.110 + 0,0	1.155 + 0,0	1.388,740		1,75	2.430,295				
E 4	1235 + 0,0	L/E-D - 20m	11.287,716			1.110 + 0,0	1.155 + 0,0	11.287,716	12.676,456	2,05	23.139,818				
E 4	1235 + 0,0	L/E-D - 20m	2.818,062			1.155 + 0,0	1.165 + 0,0	2.818,062	2.818,062	1,50	4.227,093				
E 4	1235 + 0,0	L/E-D - 20m	9.859,122			1.165 + 0,0	1.200 + 0,0	9.859,122	9.859,122	1,05	10.352,078				
C 12	1245 + 0,0	1260 + 0,0	797,980			1.240 + 0,0	1.245 + 0,0	797,980		0,20	159,596				
E 4	1235 + 0,0	L/E-D - 20m	610,570			1.240 + 0,0	1.245 + 0,0	610,570	1.408,550	0,15	91,586				

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DISTRIBUIÇÃO DE TERRAPLENAGEM	
	
QD	

PROCEDÊNCIA DO MATERIAL ESCAVADO					DESTINO DO MATERIAL ESCAVADO										
Corte (C) Alarg. Corte (AC) Rebaix. Corte (RC) Empréstimo (E) Emp. Lateral (EL)	LOCALIZAÇÃO		VOLUME - m³			ATERRO					BOTA - FORA				
	ESTACA - ESTACA (LADO)		1ª CAT.	2ª CAT.	3ª CAT.	LOCALIZAÇÃO		VOLUME - m³		D. M. T. km	MOMENTO DE TRANSPORTE m² x km	LOCALIZAÇÃO	VOLUME m³	D. M. T. km	MOMENTO DE TRANSPORTE m² x km
						ESTACA - ESTACA	PARCIAL	ACUMULADO	ESTACA - LADO						
EL 3	1410 + 0,0 - 1430 + 0,0		917,878			1.260 + 0,0	1.265 + 0,0	917,878	917,878	3,15	2.891,316				
C 13	1275 + 0,0	1290 + 0,0	975,500			1.265 + 0,0	1.275 + 0,0	975,500		0,25	243,875				
EL 3	1410 + 0,0 - 1430 + 0,0		858,748			1.265 + 0,0	1.275 + 0,0	858,748	1.834,248	3,00	2.576,244				
C 14	1318 + 0,0	1375 + 0,0	1.927,420			1.290 + 0,0	1.318 + 0,0	1.927,420		0,86	1.647,944				
EL 3	1410 + 0,0 - 1430 + 0,0		5.820,268			1.290 + 0,0	1.318 + 0,0	5.820,268	7.747,688	2,33	13.532,123				
EL 3	1410 + 0,0 - 1430 + 0,0		1.834,521			1.375 + 0,0	1.385 + 0,0	1.834,521	1.834,521	1,95	3.577,316				
EL 3	1410 + 0,0 - 1430 + 0,0		2.676,453			1.385 + 0,0	1.395 + 0,0	2.676,453	2.676,453	1,76	4.697,175				
EL 4	1535 + 0,0 - 1545 + 0,0		4.225,780			1.395 + 0,0	1.410 + 0,0	4.225,780	4.225,780	2,75	11.620,895				
C 15	1410 + 0,0	1430 + 0,0	1.823,220			1.430 + 0,0	1.478 + 0,0	1.823,220		0,68	1.230,674				
C 16	1480 + 0,0	1499 + 0,0	1.621,980			1.430 + 0,0	1.478 + 0,0	1.621,980		0,72	1.159,716				
EL 4	1535 + 0,0 - 1545 + 0,0		9.936,662			1.430 + 0,0	1.478 + 0,0	9.936,662	13.381,862	3,08	30.555,236				
EL 4	1535 + 0,0 - 1545 + 0,0		458,640			1.478 + 0,0	1.480 + 0,0	458,640	458,640	1,23	561,834				
C 17	1510 + 0,0	1515 + 0,0	281,820			1.499 + 0,0	1.505 + 0,0	281,820		0,21	59,182				
C 18	1535 + 0,0	1545 + 0,0	839,860			1.499 + 0,0	1.505 + 0,0	839,860		0,76	638,294				
EL 4	1535 + 0,0 - 1545 + 0,0		1.184,520			1.499 + 0,0	1.505 + 0,0	1.184,520	2.306,200	0,76	900,235				
EL 5	1665 + 0,0 - 1680 + 0,0		917,332			1.505 + 0,0	1.510 + 0,0	917,332	917,332	3,30	3.027,196				
EL 5	1665 + 0,0 - 1680 + 0,0		1.834,430			1.515 + 0,0	1.525 + 0,0	1.834,430	1.834,430	3,05	5.595,012				
EL 5	1665 + 0,0 - 1680 + 0,0		3.685,348			1.528 + 0,0	1.535 + 0,0	3.685,348	3.685,348	2,83	10.411,108				
EL 5	1665 + 0,0 - 1680 + 0,0		1.834,430			1.545 + 0,0	1.555 + 0,0	1.834,430	1.834,430	2,45	4.494,354				
C 19	1555 + 0,0	1560 + 0,0	435,148			1.558 + 0,0	1.563 + 0,0	435,148		0,06	23,933				
C 20	1570 + 0,0	1575 + 0,0	23,492			1.558 + 0,0	1.563 + 0,0	23,492	458,640	0,25	5,756				
C 20	1570 + 0,0	1575 + 0,0	506,324			1.565 + 0,0	1.570 + 0,0	506,324		0,10	50,632				
EL 6	1730 + 0,0 - 1740 + 0,0		411,320			1.565 + 0,0	1.570 + 0,0	411,320	917,644	3,35	1.377,922				
EL 6	1730 + 0,0 - 1740 + 0,0		1.834,456			1.575 + 0,0	1.585 + 0,0	1.834,456	1.834,456	3,10	5.686,814				
C 21	1585 + 0,0	1595 + 0,0	1.807,940			1.595 + 0,0	1.610 + 0,0	1.807,940		0,25	451,985				
C 22	1640 + 0,0	1670 + 0,0	2.903,800			1.595 + 0,0	1.610 + 0,0	2.903,800		1,05	3.048,990				
EL 6	1730 + 0,0 - 1740 + 0,0		1.053,734			1.595 + 0,0	1.610 + 0,0	1.053,734	5.765,474	2,65	2.792,395				
C 23	1680 + 0,0	1750 + 0,0	8.305,780			1.610 + 0,0	1.630 + 0,0	8.305,780		1,90	15.780,982				
EL 6	1730 + 0,0 - 1740 + 0,0		1.522,064			1.610 + 0,0	1.630 + 0,0	1.522,064	9.827,844	2,30	3.500,747				
EL 7	1880 + 0,0 - 1885 + 0,0		1.834,586			1.630 + 0,0	1.640 + 0,0	1.834,586	1.834,586	4,95	9.081,201				
EL 7	1880 + 0,0 - 1885 + 0,0		3.843,840			1.670 + 0,0	1.680 + 0,0	3.843,840	3.843,840	4,15	15.951,936				
EL 7	1880 + 0,0 - 1885 + 0,0		917,059			1.750 + 0,0	1.755 + 0,0	917,059	917,059	2,60	2.384,353				

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DISTRIBUIÇÃO DE TERRAPLENAGEM	
	
QD	

PROCEDÊNCIA DO MATERIAL ESCAVADO					DESTINO DO MATERIAL ESCAVADO										
Corte (C) Alarg. Corte (AC) Rebaix. Corte (RC) Empréstimo (E) Emp. Lateral (EL)	LOCALIZAÇÃO		VOLUME - m³			ATERRO				BOTA - FORA					
	ESTACA - ESTACA (LADO)		1ª CAT.	2ª CAT.	3ª CAT.	LOCALIZAÇÃO		VOLUME - m³		D. M. T. km	MOMENTO DE TRANSPORTE m³ x km	LOCALIZAÇÃO	VOLUME m³	D. M. T. km	MOMENTO DE TRANSPORTE m³ x km
						ESTACA - ESTACA	PARCIAL	ACUMULADO	ESTACA - LADO						
C 24	1813 + 0,0	1825 + 0,0	2.376,860			1.755 + 0,0	1.813 + 0,0	2.376,860		0,71	1.675,686				
C 25	1855 + 0,0	1878 + 0,0	5.512,740			1.755 + 0,0	1.813 + 0,0	5.512,740		1,66	9.123,585				
EL 7	1880 + 0,0	-1885 + 0,0	8.309,635			1.755 + 0,0	1.813 + 0,0	8.309,635	16.199,235	1,98	16.411,529				
C 26	1885 + 0,0	1945 + 0,0	11.002,940			1.825 + 0,0	1.855 + 0,0	11.002,940		1,50	16.504,410				
EL 8	1905 + 0,0	-1925 + 0,0	3.738,748			1.825 + 0,0	1.855 + 0,0	3.738,748	14.741,688	1,50	5.608,122				
EL 8	1905 + 0,0	-1925 + 0,0	2.112,864			1.878 + 0,0	1.885 + 0,0	2.112,864	2.112,864	0,68	1.426,183				
EL 8	1905 + 0,0	-1925 + 0,0	5.641,532			1.945 + 0,0	1.965 + 0,0	5.641,532	5.641,532	0,80	4.513,226				
C 27	1965 + 0,0	1980 + 0,0	2.259,260			1.980 + 0,0	1.995 + 0,0	2.259,260		0,30	677,778				
EL 8	1905 + 0,0	-1925 + 0,0	492,827			1.980 + 0,0	1.995 + 0,0	492,827	2.752,087	1,45	714,599				
EL 8	1905 + 0,0	-1925 + 0,0	1.386,814			1.995 + 0,0	2.003 + 0,0	1.386,814	1.386,814	1,68	2.322,913				
			317.472,017					317.472,017							

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SECRETARIA DE ESTADO DE TRANSPORTES - SETRAN



RODOVIA: PA-423
TRECHO: MONTE ALEGRE - ENTRONC. PA-254
EXTENSÃO: 40,0 Km



DISTRIBUIÇÃO DE TERRAPLENAGEM

QD

4- Volume de terraplenagem (Mapa de Cubação)

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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	0,000		0,480						
		0,000		3,452	10,00	0,000	0,000	34,520	34,520
1	0,000		2,972						
		0,000		8,898	10,00	0,000	0,000	88,980	123,500
2	0,000		5,926						
		0,000		11,344	10,00	0,000	0,000	113,440	236,940
3	0,000		5,418						
		0,000		11,625	10,00	0,000	0,000	116,250	353,190
4	0,000		6,207						
		0,000		13,683	10,00	0,000	0,000	136,830	490,020
5	0,000		7,476						
		0,000		17,911	10,00	0,000	0,000	179,110	669,130
6	0,000		10,435						
		0,000		22,084	10,00	0,000	0,000	220,840	889,970
7	0,000		11,649						
		0,000		20,499	10,00	0,000	0,000	204,990	1.094,960
8	0,000		8,850						
		0,000		19,257	10,00	0,000	0,000	192,570	1.287,530
9	0,000		10,407						
		0,000		18,840	10,00	0,000	0,000	188,400	1.475,930
10	0,000		8,433						
		0,000		19,400	10,00	0,000	0,000	194,000	1.669,930
11	0,000		10,967						
		0,000		18,443	10,00	0,000	0,000	184,430	1.854,360
12	0,000		7,476						
		0,000		17,911	10,00	0,000	0,000	179,110	2.033,470
13	0,000		10,435						
		0,000		19,157	10,00	0,000	0,000	191,570	2.225,040
14	0,000		8,722						
		0,000		17,572	10,00	0,000	0,000	175,720	2.400,760
15	0,000		8,850						
		0,000		16,298	10,00	0,000	0,000	162,980	2.563,740
16	0,000		7,448						
		0,000		13,841	10,00	0,000	0,000	138,410	2.702,150
17	0,000		6,393						
		0,000		11,353	10,00	0,000	0,000	113,530	2.815,680
18	0,000		4,960						
		0,000		10,607	10,00	0,000	0,000	106,070	2.921,750
19	0,000		5,647						
		0,000		13,904	10,00	0,000	0,000	139,040	3.060,790
20	0,000		8,257						
		0,000		16,409	10,00	0,000	0,000	164,090	3.224,880
21	0,000		8,152						
		0,000		15,276	10,00	0,000	0,000	152,760	3.377,640
22	0,000		7,124						
		0,000		14,110	10,00	0,000	0,000	141,100	3.518,740
23	0,000		6,986						
		0,000		14,590	10,00	0,000	0,000	145,900	3.664,640
24	0,000		7,604						
		0,000		14,165	10,00	0,000	0,000	141,650	3.806,290
25	0,000		6,561						
		0,000		13,202	10,00	0,000	0,000	132,020	3.938,310
26	0,000		6,641						
		0,000		13,265	10,00	0,000	0,000	132,650	4.070,960
27	0,000		6,624						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		11,552	10,00	0,000	0,000	115,520	4.186,480
28	0,000		4,928						
		0,000		6,539	10,00	0,000	0,000	65,390	4.251,870
29	0,000		1,611						
		2,160		1,611	10,00	21,600	21,600	16,110	4.267,980
30	2,160		0,000						
		6,668		0,000	10,00	66,680	88,280	0,000	4.267,980
31	4,508		0,000						
		10,868		0,000	10,00	108,680	196,960	0,000	4.267,980
32	6,360		0,000						
		10,855		0,000	10,00	108,550	305,510	0,000	4.267,980
33	4,495		0,000						
		14,218		0,000	10,00	142,180	447,690	0,000	4.267,980
34	9,723		0,000						
		13,286		0,000	10,00	132,860	580,550	0,000	4.267,980
35	3,563		0,000						
		7,589		0,000	10,00	75,890	656,440	0,000	4.267,980
36	4,026		0,000						
		9,921		0,000	10,00	99,210	755,650	0,000	4.267,980
37	5,895		0,000						
		12,830		0,000	10,00	128,300	883,950	0,000	4.267,980
38	6,935		0,000						
		14,882		0,000	10,00	148,820	1.032,770	0,000	4.267,980
39	7,947		0,000						
		14,760		0,000	10,00	147,600	1.180,370	0,000	4.267,980
40	6,813		0,000						
		14,885		0,000	10,00	148,850	1.329,220	0,000	4.267,980
41	8,072		0,000						
		20,188		0,000	10,00	201,880	1.531,100	0,000	4.267,980
42	12,116		0,000						
		20,187		0,000	10,00	201,870	1.732,970	0,000	4.267,980
43	8,071		0,000						
		13,825		0,000	10,00	138,250	1.871,220	0,000	4.267,980
44	5,754		0,000						
		11,025		0,000	10,00	110,250	1.981,470	0,000	4.267,980
45	5,271		0,000						
		11,009		0,000	10,00	110,090	2.091,560	0,000	4.267,980
46	5,738		0,000						
		10,246		0,000	10,00	102,460	2.194,020	0,000	4.267,980
47	4,508		0,000						
		11,443		0,000	10,00	114,430	2.308,450	0,000	4.267,980
48	6,935		0,000						
		12,287		0,000	10,00	122,870	2.431,320	0,000	4.267,980
49	5,352		0,000						
		9,332		0,000	10,00	93,320	2.524,640	0,000	4.267,980
50	3,980		0,000						
		11,430		0,000	10,00	114,300	2.638,940	0,000	4.267,980
51	7,450		0,000						
		11,944		0,000	10,00	119,440	2.758,380	0,000	4.267,980
52	4,494		0,000						
		8,474		0,000	10,00	84,740	2.843,120	0,000	4.267,980
53	3,980		0,000						
		6,532		0,000	10,00	65,320	2.908,440	0,000	4.267,980
54	2,552		0,000						
		3,859		0,000	10,00	38,590	2.947,030	0,000	4.267,980

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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	1,307		0,000						
		3,859		0,000	10,00	38,590	2.985,620	0,000	4.267,980
56	2,552		0,000						
		7,158		0,000	10,00	71,580	3.057,200	0,000	4.267,980
57	4,606		0,000						
		7,856		0,000	10,00	78,560	3.135,760	0,000	4.267,980
58	3,250		0,000						
		4,482		0,000	10,00	44,820	3.180,580	0,000	4.267,980
59	1,232		0,000						
		3,080		0,607	10,00	30,800	3.211,380	6,070	4.274,050
60	1,848		0,607						
		1,848		1,861	10,00	18,480	3.229,860	18,610	4.292,660
61	0,000		1,254						
		0,000		1,706	10,00	0,000	3.229,860	17,060	4.309,720
62	0,000		0,452						
		0,000		2,176	10,00	0,000	3.229,860	21,760	4.331,480
63	0,000		1,724						
		0,000		4,679	10,00	0,000	3.229,860	46,790	4.378,270
64	0,000		2,955						
		0,000		8,410	10,00	0,000	3.229,860	84,100	4.462,370
65	0,000		5,455						
		0,000		9,951	10,00	0,000	3.229,860	99,510	4.561,880
66	0,000		4,496						
		0,000		9,767	10,00	0,000	3.229,860	97,670	4.659,550
67	0,000		5,271						
		0,000		10,729	10,00	0,000	3.229,860	107,290	4.766,840
68	0,000		5,458						
		0,000		11,821	10,00	0,000	3.229,860	118,210	4.885,050
69	0,000		6,363						
		0,000		10,717	10,00	0,000	3.229,860	107,170	4.992,220
70	0,000		4,354						
		0,000		12,534	10,00	0,000	3.229,860	125,340	5.117,560
71	0,000		8,180						
		0,000		17,187	10,00	0,000	3.229,860	171,870	5.289,430
72	0,000		9,007						
		0,000		16,616	10,00	0,000	3.229,860	166,160	5.455,590
73	0,000		7,609						
		0,000		16,492	10,00	0,000	3.229,860	164,920	5.620,510
74	0,000		8,883						
		0,000		20,060	10,00	0,000	3.229,860	200,600	5.821,110
75	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	6.064,950
76	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	6.372,650
77	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	6.708,300
78	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	7.053,270
79	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	7.404,050
80	0,000		16,583						
		0,000		33,859	10,00	0,000	3.229,860	338,590	7.742,640
81	0,000		17,276						
		0,000		35,772	10,00	0,000	3.229,860	357,720	8.100,360
82	0,000		18,496						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		35,219	10,00	0,000	3.229,860	352,190	8.452,550
83	0,000		16,723						
		0,000		30,552	10,00	0,000	3.229,860	305,520	8.758,070
84	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	9.008,130
85	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	9.251,970
86	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	9.559,670
87	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	9.895,320
88	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	10.240,290
89	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	10.591,070
90	0,000		16,583						
		0,000		32,898	10,00	0,000	3.229,860	328,980	10.920,050
91	0,000		16,315						
		0,000		29,550	10,00	0,000	3.229,860	295,500	11.215,550
92	0,000		13,235						
		0,000		27,842	10,00	0,000	3.229,860	278,420	11.493,970
93	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	11.751,810
94	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	11.995,650
95	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	12.303,350
96	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	12.639,000
97	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	12.983,970
98	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	13.334,750
99	0,000		16,583						
		0,000		33,859	10,00	0,000	3.229,860	338,590	13.673,340
100	0,000		17,276						
		0,000		35,772	10,00	0,000	3.229,860	357,720	14.031,060
101	0,000		18,496						
		0,000		35,219	10,00	0,000	3.229,860	352,190	14.383,250
102	0,000		16,723						
		0,000		30,552	10,00	0,000	3.229,860	305,520	14.688,770
103	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	14.938,830
104	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	15.182,670
105	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	15.490,370
106	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	15.826,020
107	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	16.170,990
108	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	16.521,770
109	0,000		16,583						
		0,000		32,585	10,00	0,000	3.229,860	325,850	16.847,620

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
110	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	17.192,590
111	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	17.543,370
112	0,000		16,583						
		0,000		32,898	10,00	0,000	3.229,860	328,980	17.872,350
113	0,000		16,315						
		0,000		29,550	10,00	0,000	3.229,860	295,500	18.167,850
114	0,000		13,235						
		0,000		27,842	10,00	0,000	3.229,860	278,420	18.446,270
115	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	18.704,110
116	0,000		11,177						
		0,000		25,006	10,00	0,000	3.229,860	250,060	18.954,170
117	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	19.204,230
118	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	19.448,070
119	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	19.755,770
120	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	20.091,420
121	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	20.436,390
122	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	20.787,170
123	0,000		16,583						
		0,000		32,585	10,00	0,000	3.229,860	325,850	21.113,020
124	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	21.457,990
125	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	21.808,770
126	0,000		16,583						
		0,000		32,898	10,00	0,000	3.229,860	328,980	22.137,750
127	0,000		16,315						
		0,000		32,630	10,00	0,000	3.229,860	326,300	22.464,050
128	0,000		16,315						
		0,000		29,550	10,00	0,000	3.229,860	295,500	22.759,550
129	0,000		13,235						
		0,000		27,842	10,00	0,000	3.229,860	278,420	23.037,970
130	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	23.295,810
131	0,000		11,177						
		0,000		25,006	10,00	0,000	3.229,860	250,060	23.545,870
132	0,000		13,829						
		0,000		21,277	10,00	0,000	3.229,860	212,770	23.758,640
133	0,000		7,448						
		0,000		13,841	10,00	0,000	3.229,860	138,410	23.897,050
134	0,000		6,393						
		0,000		11,353	10,00	0,000	3.229,860	113,530	24.010,580
135	0,000		4,960						
		0,000		10,607	10,00	0,000	3.229,860	106,070	24.116,650
136	0,000		5,647						
		0,000		13,904	10,00	0,000	3.229,860	139,040	24.255,690
137	0,000		8,257						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		16,409	10,00	0,000	3.229,860	164,090	24.419,780
138	0,000		8,152						
		0,000		15,276	10,00	0,000	3.229,860	152,760	24.572,540
139	0,000		7,124						
		0,000		20,953	10,00	0,000	3.229,860	209,530	24.782,070
140	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	25.032,130
141	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	25.275,970
142	0,000		13,207						
		0,000		16,176	10,00	0,000	3.229,860	161,760	25.437,730
143	0,000		2,969						
		0,000		8,424	10,00	0,000	3.229,860	84,240	25.521,970
144	0,000		5,455						
		0,000		9,951	10,00	0,000	3.229,860	99,510	25.621,480
145	0,000		4,496						
		0,000		9,767	10,00	0,000	3.229,860	97,670	25.719,150
146	0,000		5,271						
		0,000		10,729	10,00	0,000	3.229,860	107,290	25.826,440
147	0,000		5,458						
		0,000		11,821	10,00	0,000	3.229,860	118,210	25.944,650
148	0,000		6,363						
		0,000		10,717	10,00	0,000	3.229,860	107,170	26.051,820
149	0,000		4,354						
		0,000		12,534	10,00	0,000	3.229,860	125,340	26.177,160
150	0,000		8,180						
		0,000		17,187	10,00	0,000	3.229,860	171,870	26.349,030
151	0,000		9,007						
		0,000		16,616	10,00	0,000	3.229,860	166,160	26.515,190
152	0,000		7,609						
		0,000		16,492	10,00	0,000	3.229,860	164,920	26.680,110
153	0,000		8,883						
		0,000		20,060	10,00	0,000	3.229,860	200,600	26.880,710
154	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	27.124,550
155	0,000		13,207						
		0,000		25,605	10,00	0,000	3.229,860	256,050	27.380,600
156	0,000		12,398						
		0,000		17,856	10,00	0,000	3.229,860	178,560	27.559,160
157	0,000		5,458						
		0,000		11,821	10,00	0,000	3.229,860	118,210	27.677,370
158	0,000		6,363						
		0,000		10,717	10,00	0,000	3.229,860	107,170	27.784,540
159	0,000		4,354						
		0,000		12,534	10,00	0,000	3.229,860	125,340	27.909,880
160	0,000		8,180						
		0,000		17,187	10,00	0,000	3.229,860	171,870	28.081,750
161	0,000		9,007						
		0,000		16,616	10,00	0,000	3.229,860	166,160	28.247,910
162	0,000		7,609						
		0,000		16,492	10,00	0,000	3.229,860	164,920	28.412,830
163	0,000		8,883						
		0,000		20,060	10,00	0,000	3.229,860	200,600	28.613,430
164	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	28.857,270

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
165	0,000		13,207						
		0,000		25,605	10,00	0,000	3.229,860	256,050	29.113,320
166	0,000		12,398						
		0,000		26,227	10,00	0,000	3.229,860	262,270	29.375,590
167	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	29.625,650
168	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	29.869,490
169	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	30.177,190
170	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	30.512,840
171	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	30.857,810
172	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	31.208,590
173	0,000		16,583						
		0,000		32,898	10,00	0,000	3.229,860	328,980	31.537,570
174	0,000		16,315						
		0,000		29,550	10,00	0,000	3.229,860	295,500	31.833,070
175	0,000		13,235						
		0,000		20,683	10,00	0,000	3.229,860	206,830	32.039,900
176	0,000		7,448						
		0,000		13,841	10,00	0,000	3.229,860	138,410	32.178,310
177	0,000		6,393						
		0,000		11,353	10,00	0,000	3.229,860	113,530	32.291,840
178	0,000		4,960						
		0,000		10,607	10,00	0,000	3.229,860	106,070	32.397,910
179	0,000		5,647						
		0,000		13,904	10,00	0,000	3.229,860	139,040	32.536,950
180	0,000		8,257						
		0,000		16,409	10,00	0,000	3.229,860	164,090	32.701,040
181	0,000		8,152						
		0,000		15,276	10,00	0,000	3.229,860	152,760	32.853,800
182	0,000		7,124						
		0,000		13,487	10,00	0,000	3.229,860	134,870	32.988,670
183	0,000		6,363						
		0,000		11,946	10,00	0,000	3.229,860	119,460	33.108,130
184	0,000		5,583						
		0,000		13,033	10,00	0,000	3.229,860	130,330	33.238,460
185	0,000		7,450						
		0,000		21,279	10,00	0,000	3.229,860	212,790	33.451,250
186	0,000		13,829						
		0,000		21,277	10,00	0,000	3.229,860	212,770	33.664,020
187	0,000		7,448						
		0,000		13,841	10,00	0,000	3.229,860	138,410	33.802,430
188	0,000		6,393						
		0,000		11,353	10,00	0,000	3.229,860	113,530	33.915,960
189	0,000		4,960						
		0,000		10,607	10,00	0,000	3.229,860	106,070	34.022,030
190	0,000		5,647						
		0,000		13,904	10,00	0,000	3.229,860	139,040	34.161,070
191	0,000		8,257						
		0,000		16,409	10,00	0,000	3.229,860	164,090	34.325,160
192	0,000		8,152						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		15,276	10,00	0,000	3.229,860	152,760	34.477,920
193	0,000		7,124						
		0,000		20,953	10,00	0,000	3.229,860	209,530	34.687,450
194	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	34.937,510
195	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	35.181,350
196	0,000		13,207						
		0,000		16,176	10,00	0,000	3.229,860	161,760	35.343,110
197	0,000		2,969						
		0,000		17,576	10,00	0,000	3.229,860	175,760	35.518,870
198	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	35.776,710
199	0,000		11,177						
		0,000		25,006	10,00	0,000	3.229,860	250,060	36.026,770
200	0,000		13,829						
		0,000		21,305	10,00	0,000	3.229,860	213,050	36.239,820
201	0,000		7,476						
		0,000		17,911	10,00	0,000	3.229,860	179,110	36.418,930
202	0,000		10,435						
		0,000		22,084	10,00	0,000	3.229,860	220,840	36.639,770
203	0,000		11,649						
		0,000		20,499	10,00	0,000	3.229,860	204,990	36.844,760
204	0,000		8,850						
		0,000		19,257	10,00	0,000	3.229,860	192,570	37.037,330
205	0,000		10,407						
		0,000		18,840	10,00	0,000	3.229,860	188,400	37.225,730
206	0,000		8,433						
		0,000		19,400	10,00	0,000	3.229,860	194,000	37.419,730
207	0,000		10,967						
		0,000		18,443	10,00	0,000	3.229,860	184,430	37.604,160
208	0,000		7,476						
		0,000		17,911	10,00	0,000	3.229,860	179,110	37.783,270
209	0,000		10,435						
		0,000		19,157	10,00	0,000	3.229,860	191,570	37.974,840
210	0,000		8,722						
		0,000		17,572	10,00	0,000	3.229,860	175,720	38.150,560
211	0,000		8,850						
		0,000		16,298	10,00	0,000	3.229,860	162,980	38.313,540
212	0,000		7,448						
		0,000		13,841	10,00	0,000	3.229,860	138,410	38.451,950
213	0,000		6,393						
		0,000		11,353	10,00	0,000	3.229,860	113,530	38.565,480
214	0,000		4,960						
		0,000		10,607	10,00	0,000	3.229,860	106,070	38.671,550
215	0,000		5,647						
		0,000		13,904	10,00	0,000	3.229,860	139,040	38.810,590
216	0,000		8,257						
		0,000		16,409	10,00	0,000	3.229,860	164,090	38.974,680
217	0,000		8,152						
		0,000		15,276	10,00	0,000	3.229,860	152,760	39.127,440
218	0,000		7,124						
		0,000		20,953	10,00	0,000	3.229,860	209,530	39.336,970
219	0,000		13,829						
		0,000		25,006	10,00	0,000	3.229,860	250,060	39.587,030

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
220	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	39.830,870
221	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	40.138,570
222	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	40.474,220
223	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	40.819,190
224	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	41.169,970
225	0,000		16,583						
		0,000		25,305	10,00	0,000	3.229,860	253,050	41.423,020
226	0,000		8,722						
		0,000		17,572	10,00	0,000	3.229,860	175,720	41.598,740
227	0,000		8,850						
		0,000		16,298	10,00	0,000	3.229,860	162,980	41.761,720
228	0,000		7,448						
		0,000		13,841	10,00	0,000	3.229,860	138,410	41.900,130
229	0,000		6,393						
		0,000		11,353	10,00	0,000	3.229,860	113,530	42.013,660
230	0,000		4,960						
		0,000		10,607	10,00	0,000	3.229,860	106,070	42.119,730
231	0,000		5,647						
		0,000		13,904	10,00	0,000	3.229,860	139,040	42.258,770
232	0,000		8,257						
		0,000		16,409	10,00	0,000	3.229,860	164,090	42.422,860
233	0,000		8,152						
		0,000		15,276	10,00	0,000	3.229,860	152,760	42.575,620
234	0,000		7,124						
		0,000		18,772	10,00	0,000	3.229,860	187,720	42.763,340
235	0,000		11,648						
		0,000		22,825	10,00	0,000	3.229,860	228,250	42.991,590
236	0,000		11,177						
		0,000		15,360	10,00	0,000	3.229,860	153,600	43.145,190
237	0,000		4,183						
		0,000		6,964	10,00	0,000	3.229,860	69,640	43.214,830
238	0,000		2,781						
		0,000		4,447	10,00	0,000	3.229,860	44,470	43.259,300
239	0,000		1,666						
		0,000		1,666	10,00	0,000	3.229,860	16,660	43.275,960
240	0,000		0,000						
		0,000		0,030	10,00	0,000	3.229,860	0,300	43.276,260
241	0,000		0,030						
		0,000		0,416	10,00	0,000	3.229,860	4,160	43.280,420
242	0,000		0,386						
		0,000		0,835	10,00	0,000	3.229,860	8,350	43.288,770
243	0,000		0,449						
		0,000		1,233	10,00	0,000	3.229,860	12,330	43.301,100
244	0,000		0,784						
		0,000		2,011	10,00	0,000	3.229,860	20,110	43.321,210
245	0,000		1,227						
		0,000		4,634	10,00	0,000	3.229,860	46,340	43.367,550
246	0,000		3,407						
		0,000		8,370	10,00	0,000	3.229,860	83,700	43.451,250
247	0,000		4,963						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		16,772	10,00	0,000	3.229,860	167,720	43.618,970
248	0,000		11,809						
		0,000		29,216	10,00	0,000	3.229,860	292,160	43.911,130
249	0,000		17,407						
		0,000		39,011	10,00	0,000	3.229,860	390,110	44.301,240
250	0,000		21,604						
		0,000		40,999	10,00	0,000	3.229,860	409,990	44.711,230
251	0,000		19,395						
		0,000		37,359	10,00	0,000	3.229,860	373,590	45.084,820
252	0,000		17,964						
		0,000		33,816	10,00	0,000	3.229,860	338,160	45.422,980
253	0,000		15,852						
		0,000		33,412	10,00	0,000	3.229,860	334,120	45.757,100
254	0,000		17,560						
		0,000		28,737	10,00	0,000	3.229,860	287,370	46.044,470
255	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	46.288,310
256	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	46.596,010
257	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	46.931,660
258	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	47.276,630
259	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	47.627,410
260	0,000		16,583						
		0,000		32,585	10,00	0,000	3.229,860	325,850	47.953,260
261	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	48.298,230
262	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	48.649,010
263	0,000		16,583						
		0,000		32,898	10,00	0,000	3.229,860	328,980	48.977,990
264	0,000		16,315						
		0,000		32,630	10,00	0,000	3.229,860	326,300	49.304,290
265	0,000		16,315						
		0,000		29,550	10,00	0,000	3.229,860	295,500	49.599,790
266	0,000		13,235						
		0,000		27,842	10,00	0,000	3.229,860	278,420	49.878,210
267	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	50.136,050
268	0,000		11,177						
		0,000		22,826	10,00	0,000	3.229,860	228,260	50.364,310
269	0,000		11,649						
		0,000		20,499	10,00	0,000	3.229,860	204,990	50.569,300
270	0,000		8,850						
		0,000		19,257	10,00	0,000	3.229,860	192,570	50.761,870
271	0,000		10,407						
		0,000		18,840	10,00	0,000	3.229,860	188,400	50.950,270
272	0,000		8,433						
		0,000		19,400	10,00	0,000	3.229,860	194,000	51.144,270
273	0,000		10,967						
		0,000		18,443	10,00	0,000	3.229,860	184,430	51.328,700
274	0,000		7,476						
		0,000		17,911	10,00	0,000	3.229,860	179,110	51.507,810

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
275	0,000		10,435						
		0,000		19,157	10,00	0,000	3.229,860	191,570	51.699,380
276	0,000		8,722						
		0,000		17,572	10,00	0,000	3.229,860	175,720	51.875,100
277	0,000		8,850						
		0,000		20,027	10,00	0,000	3.229,860	200,270	52.075,370
278	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	52.319,210
279	0,000		13,207						
		0,000		30,770	10,00	0,000	3.229,860	307,700	52.626,910
280	0,000		17,563						
		0,000		33,565	10,00	0,000	3.229,860	335,650	52.962,560
281	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	53.307,530
282	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	53.658,310
283	0,000		16,583						
		0,000		32,585	10,00	0,000	3.229,860	325,850	53.984,160
284	0,000		16,002						
		0,000		34,497	10,00	0,000	3.229,860	344,970	54.329,130
285	0,000		18,495						
		0,000		35,078	10,00	0,000	3.229,860	350,780	54.679,910
286	0,000		16,583						
		0,000		32,898	10,00	0,000	3.229,860	328,980	55.008,890
287	0,000		16,315						
		0,000		32,630	10,00	0,000	3.229,860	326,300	55.335,190
288	0,000		16,315						
		0,000		29,550	10,00	0,000	3.229,860	295,500	55.630,690
289	0,000		13,235						
		0,000		27,842	10,00	0,000	3.229,860	278,420	55.909,110
290	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	56.166,950
291	0,000		11,177						
		0,000		16,137	10,00	0,000	3.229,860	161,370	56.328,320
292	0,000		4,960						
		0,000		10,607	10,00	0,000	3.229,860	106,070	56.434,390
293	0,000		5,647						
		0,000		13,904	10,00	0,000	3.229,860	139,040	56.573,430
294	0,000		8,257						
		0,000		16,409	10,00	0,000	3.229,860	164,090	56.737,520
295	0,000		8,152						
		0,000		15,276	10,00	0,000	3.229,860	152,760	56.890,280
296	0,000		7,124						
		0,000		14,110	10,00	0,000	3.229,860	141,100	57.031,380
297	0,000		6,986						
		0,000		14,590	10,00	0,000	3.229,860	145,900	57.177,280
298	0,000		7,604						
		0,000		18,781	10,00	0,000	3.229,860	187,810	57.365,090
299	0,000		11,177						
		0,000		24,384	10,00	0,000	3.229,860	243,840	57.608,930
300	0,000		13,207						
		0,000		29,055	10,00	0,000	3.229,860	290,550	57.899,480
301	0,000		15,848						
		0,000		30,794	10,00	0,000	3.229,860	307,940	58.207,420
302	0,000		14,946						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		31,901	10,00	0,000	3.229,860	319,010	58.526,430
303	0,000		16,955						
		0,000		30,035	10,00	0,000	3.229,860	300,350	58.826,780
304	0,000		13,080						
		0,000		27,715	10,00	0,000	3.229,860	277,150	59.103,930
305	0,000		14,635						
		0,000		31,885	10,00	0,000	3.229,860	318,850	59.422,780
306	0,000		17,250						
		0,000		31,699	10,00	0,000	3.229,860	316,990	59.739,770
307	0,000		14,449						
		0,000		27,840	10,00	0,000	3.229,860	278,400	60.018,170
308	0,000		13,391						
		0,000		26,471	10,00	0,000	3.229,860	264,710	60.282,880
309	0,000		13,080						
		0,000		26,315	10,00	0,000	3.229,860	263,150	60.546,030
310	0,000		13,235						
		0,000		27,842	10,00	0,000	3.229,860	278,420	60.824,450
311	0,000		14,607						
		0,000		25,784	10,00	0,000	3.229,860	257,840	61.082,290
312	0,000		11,177						
		0,000		22,826	10,00	0,000	3.229,860	228,260	61.310,550
313	0,000		11,649						
		0,000		20,499	10,00	0,000	3.229,860	204,990	61.515,540
314	0,000		8,850						
		0,000		19,257	10,00	0,000	3.229,860	192,570	61.708,110
315	0,000		10,407						
		0,000		18,840	10,00	0,000	3.229,860	188,400	61.896,510
316	0,000		8,433						
		0,000		19,400	10,00	0,000	3.229,860	194,000	62.090,510
317	0,000		10,967						
		0,000		18,443	10,00	0,000	3.229,860	184,430	62.274,940
318	0,000		7,476						
		0,000		17,911	10,00	0,000	3.229,860	179,110	62.454,050
319	0,000		10,435						
		0,000		19,157	10,00	0,000	3.229,860	191,570	62.645,620
320	0,000		8,722						
		0,000		17,572	10,00	0,000	3.229,860	175,720	62.821,340
321	0,000		8,850						
		0,000		16,298	10,00	0,000	3.229,860	162,980	62.984,320
322	0,000		7,448						
		0,000		11,828	10,00	0,000	3.229,860	118,280	63.102,600
323	0,000		4,380						
		0,000		9,340	10,00	0,000	3.229,860	93,400	63.196,000
324	0,000		4,960						
		0,000		9,333	10,00	0,000	3.229,860	93,330	63.289,330
325	0,000		4,373						
		0,000		8,277	10,00	0,000	3.229,860	82,770	63.372,100
326	0,000		3,904						
		0,000		8,711	10,00	0,000	3.229,860	87,110	63.459,210
327	0,000		4,807						
		0,000		8,833	10,00	0,000	3.229,860	88,330	63.547,540
328	0,000		4,026						
		0,000		7,122	10,00	0,000	3.229,860	71,220	63.618,760
329	0,000		3,096						
		0,000		5,722	10,00	0,000	3.229,860	57,220	63.675,980

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
330	0,000		2,626						
		0,000		6,341	10,00	0,000	3.229,860	63,410	63.739,390
331	0,000		3,715						
		0,000		5,722	10,00	0,000	3.229,860	57,220	63.796,610
332	0,000		2,007						
		0,000		3,533	10,00	0,000	3.229,860	35,330	63.831,940
333	0,000		1,526						
		0,000		2,366	10,00	0,000	3.229,860	23,660	63.855,600
334	0,000		0,840						
		1,307		0,840	10,00	13,070	3.242,930	8,400	63.864,000
335	1,307		0,000						
		5,271		0,000	10,00	52,710	3.295,640	0,000	63.864,000
336	3,964		0,000						
		9,299		0,000	10,00	92,990	3.388,630	0,000	63.864,000
337	5,335		0,000						
		9,708		0,000	10,00	97,080	3.485,710	0,000	63.864,000
338	4,373		0,000						
		8,277		0,000	10,00	82,770	3.568,480	0,000	63.864,000
339	3,904		0,000						
		8,013		0,000	10,00	80,130	3.648,610	0,000	63.864,000
340	4,109		0,000						
		8,135		0,000	10,00	81,350	3.729,960	0,000	63.864,000
341	4,026		0,000						
		8,256		0,000	10,00	82,560	3.812,520	0,000	63.864,000
342	4,230		0,000						
		8,166		0,000	10,00	81,660	3.894,180	0,000	63.864,000
343	3,936		0,000						
		6,643		0,000	10,00	66,430	3.960,610	0,000	63.864,000
344	2,707		0,000						
		8,043		0,000	10,00	80,430	4.041,040	0,000	63.864,000
345	5,336		0,000						
		9,534		0,000	10,00	95,340	4.136,380	0,000	63.864,000
346	4,198		0,000						
		8,491		0,000	10,00	84,910	4.221,290	0,000	63.864,000
347	4,293		0,000						
		10,810		0,000	10,00	108,100	4.329,390	0,000	63.864,000
348	6,517		0,000						
		16,084		0,000	10,00	160,840	4.490,230	0,000	63.864,000
349	9,567		0,000						
		18,268		0,000	10,00	182,680	4.672,910	0,000	63.864,000
350	8,701		0,000						
		16,884		0,000	10,00	168,840	4.841,750	0,000	63.864,000
351	8,183		0,000						
		14,935		0,000	10,00	149,350	4.991,100	0,000	63.864,000
352	6,752		0,000						
		11,979		0,000	10,00	119,790	5.110,890	0,000	63.864,000
353	5,227		0,000						
		12,833		0,000	10,00	128,330	5.239,220	0,000	63.864,000
354	7,606		0,000						
		12,562		0,000	10,00	125,620	5.364,840	0,000	63.864,000
355	4,956		0,000						
		10,276		0,000	10,00	102,760	5.467,600	0,000	63.864,000
356	5,320		0,000						
		10,430		0,000	10,00	104,300	5.571,900	0,000	63.864,000
357	5,110		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		8,937		0,000	10,00	89,370	5.661,270	0,000	63.864,000
358	3,827		0,000						
		9,875		0,000	10,00	98,750	5.760,020	0,000	63.864,000
359	6,048		0,000						
		12,180		0,000	10,00	121,800	5.881,820	0,000	63.864,000
360	6,132		0,000						
		10,158		0,000	10,00	101,580	5.983,400	0,000	63.864,000
361	4,026		0,000						
		8,562		0,000	10,00	85,620	6.069,020	0,000	63.864,000
362	4,536		0,000						
		8,519		0,000	10,00	85,190	6.154,210	0,000	63.864,000
363	3,983		0,000						
		8,351		0,000	10,00	83,510	6.237,720	0,000	63.864,000
364	4,368		0,000						
		8,566		0,000	10,00	85,660	6.323,380	0,000	63.864,000
365	4,198		0,000						
		8,491		0,000	10,00	84,910	6.408,290	0,000	63.864,000
366	4,293		0,000						
		10,810		0,000	10,00	108,100	6.516,390	0,000	63.864,000
367	6,517		0,000						
		16,084		0,000	10,00	160,840	6.677,230	0,000	63.864,000
368	9,567		0,000						
		18,268		0,000	10,00	182,680	6.859,910	0,000	63.864,000
369	8,701		0,000						
		16,884		0,000	10,00	168,840	7.028,750	0,000	63.864,000
370	8,183		0,000						
		14,935		0,000	10,00	149,350	7.178,100	0,000	63.864,000
371	6,752		0,000						
		11,979		0,000	10,00	119,790	7.297,890	0,000	63.864,000
372	5,227		0,000						
		12,833		0,000	10,00	128,330	7.426,220	0,000	63.864,000
373	7,606		0,000						
		12,562		0,000	10,00	125,620	7.551,840	0,000	63.864,000
374	4,956		0,000						
		10,276		0,000	10,00	102,760	7.654,600	0,000	63.864,000
375	5,320		0,000						
		10,430		0,000	10,00	104,300	7.758,900	0,000	63.864,000
376	5,110		0,000						
		8,937		0,000	10,00	89,370	7.848,270	0,000	63.864,000
377	3,827		0,000						
		9,875		0,000	10,00	98,750	7.947,020	0,000	63.864,000
378	6,048		0,000						
		12,180		0,000	10,00	121,800	8.068,820	0,000	63.864,000
379	6,132		0,000						
		10,158		0,000	10,00	101,580	8.170,400	0,000	63.864,000
380	4,026		0,000						
		8,562		0,000	10,00	85,620	8.256,020	0,000	63.864,000
381	4,536		0,000						
		8,519		0,000	10,00	85,190	8.341,210	0,000	63.864,000
382	3,983		0,000						
		8,351		0,000	10,00	83,510	8.424,720	0,000	63.864,000
383	4,368		0,000						
		8,195		0,000	10,00	81,950	8.506,670	0,000	63.864,000
384	3,827		0,000						
		6,599		0,000	10,00	65,990	8.572,660	0,000	63.864,000

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
385	2,772		0,000						
		3,939		0,000	10,00	39,390	8.612,050	0,000	63.864,000
386	1,167		0,000						
		2,861		1,257	10,00	28,610	8.640,660	12,570	63.876,570
387	1,694		1,257						
		2,632		6,683	10,00	26,320	8.666,980	66,830	63.943,400
388	0,938		5,426						
		0,938		15,044	10,00	9,380	8.676,360	150,440	64.093,840
389	0,000		9,618						
		0,000		20,007	10,00	0,000	8.676,360	200,070	64.293,910
390	0,000		10,389						
		0,000		16,948	10,00	0,000	8.676,360	169,480	64.463,390
391	0,000		6,559						
		0,932		8,593	10,00	9,320	8.685,680	85,930	64.549,320
392	0,932		2,034						
		2,782		3,410	10,00	27,820	8.713,500	34,100	64.583,420
393	1,850		1,376						
		5,830		2,403	10,00	58,300	8.771,800	24,030	64.607,450
394	3,980		1,027						
		6,630		4,993	10,00	66,300	8.838,100	49,930	64.657,380
395	2,650		3,966						
		5,573		9,347	10,00	55,730	8.893,830	93,470	64.750,850
396	2,923		5,381						
		6,185		12,171	10,00	61,850	8.955,680	121,710	64.872,560
397	3,262		6,790						
		8,489		15,358	10,00	84,890	9.040,570	153,580	65.026,140
398	5,227		8,568						
		12,833		10,290	10,00	128,330	9.168,900	102,900	65.129,040
399	7,606		1,722						
		12,562		3,043	10,00	125,620	9.294,520	30,430	65.159,470
400	4,956		1,321						
		10,276		2,208	10,00	102,760	9.397,280	22,080	65.181,550
401	5,320		0,887						
		10,430		1,337	10,00	104,300	9.501,580	13,370	65.194,920
402	5,110		0,450						
		8,937		1,071	10,00	89,370	9.590,950	10,710	65.205,630
403	3,827		0,621						
		9,875		1,784	10,00	98,750	9.689,700	17,840	65.223,470
404	6,048		1,163						
		12,180		2,969	10,00	121,800	9.811,500	29,690	65.253,160
405	6,132		1,806						
		10,158		3,252	10,00	101,580	9.913,080	32,520	65.285,680
406	4,026		1,446						
		8,562		4,278	10,00	85,620	9.998,700	42,780	65.328,460
407	4,536		2,832						
		8,519		6,190	10,00	85,190	10.083,890	61,900	65.390,360
408	3,983		3,358						
		8,351		3,358	10,00	83,510	10.167,400	33,580	65.423,940
409	4,368		0,000						
		8,195		0,000	10,00	81,950	10.249,350	0,000	65.423,940
410	3,827		0,000						
		6,599		0,000	10,00	65,990	10.315,340	0,000	65.423,940
411	2,772		0,000						
		3,939		0,000	10,00	39,390	10.354,730	0,000	65.423,940
412	1,167		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		2,861		0,000	10,00	28,610	10.383,340	0,000	65.423,940
413	1,694		0,000						
		4,960		0,000	10,00	49,600	10.432,940	0,000	65.423,940
414	3,266		0,000						
		6,112		0,000	10,00	61,120	10.494,060	0,000	65.423,940
415	2,846		0,000						
		5,413		0,000	10,00	54,130	10.548,190	0,000	65.423,940
416	2,567		0,000						
		4,294		0,000	10,00	42,940	10.591,130	0,000	65.423,940
417	1,727		0,000						
		3,219		0,000	10,00	32,190	10.623,320	0,000	65.423,940
418	1,492		0,000						
		3,369		0,000	10,00	33,690	10.657,010	0,000	65.423,940
419	1,877		0,000						
		3,733		0,000	10,00	37,330	10.694,340	0,000	65.423,940
420	1,856		0,000						
		3,303		0,000	10,00	33,030	10.727,370	0,000	65.423,940
421	1,447		0,000						
		2,859		0,000	10,00	28,590	10.755,960	0,000	65.423,940
422	1,412		0,000						
		2,716		0,000	10,00	27,160	10.783,120	0,000	65.423,940
423	1,304		0,000						
		2,471		0,000	10,00	24,710	10.807,830	0,000	65.423,940
424	1,167		0,000						
		2,887		0,000	10,00	28,870	10.836,700	0,000	65.423,940
425	1,720		0,000						
		3,722		0,000	10,00	37,220	10.873,920	0,000	65.423,940
426	2,002		0,000						
		4,585		0,000	10,00	45,850	10.919,770	0,000	65.423,940
427	2,583		0,000						
		4,870		0,000	10,00	48,700	10.968,470	0,000	65.423,940
428	2,287		0,000						
		4,788		0,000	10,00	47,880	11.016,350	0,000	65.423,940
429	2,501		0,000						
		5,068		0,000	10,00	50,680	11.067,030	0,000	65.423,940
430	2,567		0,000						
		4,261		0,000	10,00	42,610	11.109,640	0,000	65.423,940
431	1,694		0,000						
		4,960		0,000	10,00	49,600	11.159,240	0,000	65.423,940
432	3,266		0,000						
		6,112		0,000	10,00	61,120	11.220,360	0,000	65.423,940
433	2,846		0,000						
		5,413		0,000	10,00	54,130	11.274,490	0,000	65.423,940
434	2,567		0,000						
		4,294		0,000	10,00	42,940	11.317,430	0,000	65.423,940
435	1,727		0,000						
		3,219		0,000	10,00	32,190	11.349,620	0,000	65.423,940
436	1,492		0,000						
		3,369		0,000	10,00	33,690	11.383,310	0,000	65.423,940
437	1,877		0,000						
		3,733		0,000	10,00	37,330	11.420,640	0,000	65.423,940
438	1,856		0,000						
		3,303		0,000	10,00	33,030	11.453,670	0,000	65.423,940
439	1,447		0,000						
		2,859		0,000	10,00	28,590	11.482,260	0,000	65.423,940

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
440	1,412		0,000						
		2,716		0,000	10,00	27,160	11.509,420	0,000	65.423,940
441	1,304		0,000						
		2,471		0,000	10,00	24,710	11.534,130	0,000	65.423,940
442	1,167		0,000						
		2,887		0,000	10,00	28,870	11.563,000	0,000	65.423,940
443	1,720		0,000						
		3,722		0,000	10,00	37,220	11.600,220	0,000	65.423,940
444	2,002		0,000						
		4,585		0,000	10,00	45,850	11.646,070	0,000	65.423,940
445	2,583		0,000						
		4,870		0,000	10,00	48,700	11.694,770	0,000	65.423,940
446	2,287		0,000						
		4,788		0,000	10,00	47,880	11.742,650	0,000	65.423,940
447	2,501		0,000						
		5,068		0,000	10,00	50,680	11.793,330	0,000	65.423,940
448	2,567		0,000						
		3,950		0,000	10,00	39,500	11.832,830	0,000	65.423,940
449	1,383		0,000						
		4,087		0,000	10,00	40,870	11.873,700	0,000	65.423,940
450	2,704		0,000						
		3,492		0,000	10,00	34,920	11.908,620	0,000	65.423,940
451	0,788		0,000						
		2,326		0,000	10,00	23,260	11.931,880	0,000	65.423,940
452	1,538		0,000						
		4,105		0,000	10,00	41,050	11.972,930	0,000	65.423,940
453	2,567		0,000						
		4,294		0,000	10,00	42,940	12.015,870	0,000	65.423,940
454	1,727		0,000						
		3,219		0,000	10,00	32,190	12.048,060	0,000	65.423,940
455	1,492		0,000						
		3,369		0,000	10,00	33,690	12.081,750	0,000	65.423,940
456	1,877		0,000						
		3,733		0,000	10,00	37,330	12.119,080	0,000	65.423,940
457	1,856		0,000						
		3,303		0,000	10,00	33,030	12.152,110	0,000	65.423,940
458	1,447		0,000						
		2,859		0,000	10,00	28,590	12.180,700	0,000	65.423,940
459	1,412		0,000						
		2,716		0,000	10,00	27,160	12.207,860	0,000	65.423,940
460	1,304		0,000						
		2,471		0,000	10,00	24,710	12.232,570	0,000	65.423,940
461	1,167		0,000						
		2,887		0,000	10,00	28,870	12.261,440	0,000	65.423,940
462	1,720		0,000						
		3,722		0,000	10,00	37,220	12.298,660	0,000	65.423,940
463	2,002		0,000						
		4,585		0,000	10,00	45,850	12.344,510	0,000	65.423,940
464	2,583		0,000						
		4,870		0,000	10,00	48,700	12.393,210	0,000	65.423,940
465	2,287		0,000						
		4,788		0,000	10,00	47,880	12.441,090	0,000	65.423,940
466	2,501		0,000						
		5,068		0,000	10,00	50,680	12.491,770	0,000	65.423,940
467	2,567		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		4,261		0,000	10,00	42,610	12.534,380	0,000	65.423,940
468	1,694		0,000						
		4,960		0,000	10,00	49,600	12.583,980	0,000	65.423,940
469	3,266		0,000						
		6,112		0,000	10,00	61,120	12.645,100	0,000	65.423,940
470	2,846		0,000						
		5,413		0,000	10,00	54,130	12.699,230	0,000	65.423,940
471	2,567		0,000						
		4,294		0,000	10,00	42,940	12.742,170	0,000	65.423,940
472	1,727		0,000						
		3,033		0,000	10,00	30,330	12.772,500	0,000	65.423,940
473	1,306		0,000						
		2,504		0,000	10,00	25,040	12.797,540	0,000	65.423,940
474	1,198		0,000						
		2,242		0,000	10,00	22,420	12.819,960	0,000	65.423,940
475	1,044		0,000						
		2,021		0,000	10,00	20,210	12.840,170	0,000	65.423,940
476	0,977		0,000						
		1,457		0,000	10,00	14,570	12.854,740	0,000	65.423,940
477	0,480		0,000						
		1,663		0,000	10,00	16,630	12.871,370	0,000	65.423,940
478	1,183		0,000						
		2,487		0,000	10,00	24,870	12.896,240	0,000	65.423,940
479	1,304		0,000						
		2,751		0,000	10,00	27,510	12.923,750	0,000	65.423,940
480	1,447		0,000						
		3,142		0,000	10,00	31,420	12.955,170	0,000	65.423,940
481	1,695		0,000						
		3,002		0,000	10,00	30,020	12.985,190	0,000	65.423,940
482	1,307		0,000						
		2,333		0,000	10,00	23,330	13.008,520	0,000	65.423,940
483	1,026		0,000						
		2,347		0,000	10,00	23,470	13.031,990	0,000	65.423,940
484	1,321		0,000						
		2,208		0,000	10,00	22,080	13.054,070	0,000	65.423,940
485	0,887		0,000						
		1,337		0,000	10,00	13,370	13.067,440	0,000	65.423,940
486	0,450		0,000						
		1,071		0,000	10,00	10,710	13.078,150	0,000	65.423,940
487	0,621		0,000						
		1,784		0,000	10,00	17,840	13.095,990	0,000	65.423,940
488	1,163		0,000						
		2,969		0,000	10,00	29,690	13.125,680	0,000	65.423,940
489	1,806		0,000						
		3,252		0,000	10,00	32,520	13.158,200	0,000	65.423,940
490	1,446		0,000						
		2,612		0,000	10,00	26,120	13.184,320	0,000	65.423,940
491	1,166		0,000						
		1,798		0,000	10,00	17,980	13.202,300	0,000	65.423,940
492	0,632		0,000						
		1,087		0,000	10,00	10,870	13.213,170	0,000	65.423,940
493	0,455		0,000						
		0,905		0,000	10,00	9,050	13.222,220	0,000	65.423,940
494	0,450		0,000						
		0,994		2,007	10,00	9,940	13.232,160	20,070	65.444,010

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
495	0,544		2,007						
		0,544		8,757	10,00	5,440	13.237,600	87,570	65.531,580
496	0,000		6,750						
		0,000		14,961	10,00	0,000	13.237,600	149,610	65.681,190
497	0,000		8,211						
		0,000		18,772	10,00	0,000	13.237,600	187,720	65.868,910
498	0,000		10,561						
		0,000		22,088	10,00	0,000	13.237,600	220,880	66.089,790
499	0,000		11,527						
		0,000		21,173	10,00	0,000	13.237,600	211,730	66.301,520
500	0,000		9,646						
		0,000		15,696	10,00	0,000	13.237,600	156,960	66.458,480
501	0,000		6,050						
		0,000		11,477	10,00	0,000	13.237,600	114,770	66.573,250
502	0,000		5,427						
		0,000		9,670	10,00	0,000	13.237,600	96,700	66.669,950
503	0,000		4,243						
		0,000		7,370	10,00	0,000	13.237,600	73,700	66.743,650
504	0,000		3,127						
		0,000		5,910	10,00	0,000	13.237,600	59,100	66.802,750
505	0,000		2,783						
		0,000		3,231	10,00	0,000	13.237,600	32,310	66.835,060
506	0,000		0,448						
		0,000		0,709	10,00	0,000	13.237,600	7,090	66.842,150
507	0,000		0,261						
		0,000		4,757	10,00	0,000	13.237,600	47,570	66.889,720
508	0,000		4,496						
		0,000		10,513	10,00	0,000	13.237,600	105,130	66.994,850
509	0,000		6,017						
		0,000		14,585	10,00	0,000	13.237,600	145,850	67.140,700
510	0,000		8,568						
		0,000		19,471	10,00	0,000	13.237,600	194,710	67.335,410
511	0,000		10,903						
		0,000		19,753	10,00	0,000	13.237,600	197,530	67.532,940
512	0,000		8,850						
		0,000		19,257	10,00	0,000	13.237,600	192,570	67.725,510
513	0,000		10,407						
		0,000		18,840	10,00	0,000	13.237,600	188,400	67.913,910
514	0,000		8,433						
		0,000		19,400	10,00	0,000	13.237,600	194,000	68.107,910
515	0,000		10,967						
		0,000		18,443	10,00	0,000	13.237,600	184,430	68.292,340
516	0,000		7,476						
		0,000		17,911	10,00	0,000	13.237,600	179,110	68.471,450
517	0,000		10,435						
		0,000		19,157	10,00	0,000	13.237,600	191,570	68.663,020
518	0,000		8,722						
		0,000		17,572	10,00	0,000	13.237,600	175,720	68.838,740
519	0,000		8,850						
		0,000		20,027	10,00	0,000	13.237,600	200,270	69.039,010
520	0,000		11,177						
		0,000		24,384	10,00	0,000	13.237,600	243,840	69.282,850
521	0,000		13,207						
		0,000		30,770	10,00	0,000	13.237,600	307,700	69.590,550
522	0,000		17,563						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		33,565	10,00	0,000	13.237,600	335,650	69.926,200
523	0,000		16,002						
		0,000		34,497	10,00	0,000	13.237,600	344,970	70.271,170
524	0,000		18,495						
		0,000		35,078	10,00	0,000	13.237,600	350,780	70.621,950
525	0,000		16,583						
		0,000		32,585	10,00	0,000	13.237,600	325,850	70.947,800
526	0,000		16,002						
		0,000		34,497	10,00	0,000	13.237,600	344,970	71.292,770
527	0,000		18,495						
		0,000		35,078	10,00	0,000	13.237,600	350,780	71.643,550
528	0,000		16,583						
		0,000		32,898	10,00	0,000	13.237,600	328,980	71.972,530
529	0,000		16,315						
		0,000		32,630	10,00	0,000	13.237,600	326,300	72.298,830
530	0,000		16,315						
		0,000		29,550	10,00	0,000	13.237,600	295,500	72.594,330
531	0,000		13,235						
		0,000		27,842	10,00	0,000	13.237,600	278,420	72.872,750
532	0,000		14,607						
		0,000		25,784	10,00	0,000	13.237,600	257,840	73.130,590
533	0,000		11,177						
		0,000		16,137	10,00	0,000	13.237,600	161,370	73.291,960
534	0,000		4,960						
		0,000		10,607	10,00	0,000	13.237,600	106,070	73.398,030
535	0,000		5,647						
		0,000		13,904	10,00	0,000	13.237,600	139,040	73.537,070
536	0,000		8,257						
		0,000		16,409	10,00	0,000	13.237,600	164,090	73.701,160
537	0,000		8,152						
		0,000		15,276	10,00	0,000	13.237,600	152,760	73.853,920
538	0,000		7,124						
		0,000		14,110	10,00	0,000	13.237,600	141,100	73.995,020
539	0,000		6,986						
		0,000		14,590	10,00	0,000	13.237,600	145,900	74.140,920
540	0,000		7,604						
		0,000		18,781	10,00	0,000	13.237,600	187,810	74.328,730
541	0,000		11,177						
		0,000		24,384	10,00	0,000	13.237,600	243,840	74.572,570
542	0,000		13,207						
		0,000		29,055	10,00	0,000	13.237,600	290,550	74.863,120
543	0,000		15,848						
		0,000		30,794	10,00	0,000	13.237,600	307,940	75.171,060
544	0,000		14,946						
		0,000		31,901	10,00	0,000	13.237,600	319,010	75.490,070
545	0,000		16,955						
		0,000		30,035	10,00	0,000	13.237,600	300,350	75.790,420
546	0,000		13,080						
		0,000		27,715	10,00	0,000	13.237,600	277,150	76.067,570
547	0,000		14,635						
		0,000		31,885	10,00	0,000	13.237,600	318,850	76.386,420
548	0,000		17,250						
		0,000		31,699	10,00	0,000	13.237,600	316,990	76.703,410
549	0,000		14,449						
		0,000		27,840	10,00	0,000	13.237,600	278,400	76.981,810

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
550	0,000		13,391						
		0,000		26,471	10,00	0,000	13.237,600	264,710	77.246,520
551	0,000		13,080						
		0,000		26,315	10,00	0,000	13.237,600	263,150	77.509,670
552	0,000		13,235						
		0,000		27,842	10,00	0,000	13.237,600	278,420	77.788,090
553	0,000		14,607						
		0,000		25,784	10,00	0,000	13.237,600	257,840	78.045,930
554	0,000		11,177						
		0,000		22,826	10,00	0,000	13.237,600	228,260	78.274,190
555	0,000		11,649						
		0,000		20,499	10,00	0,000	13.237,600	204,990	78.479,180
556	0,000		8,850						
		0,000		19,257	10,00	0,000	13.237,600	192,570	78.671,750
557	0,000		10,407						
		0,000		18,011	10,00	0,000	13.237,600	180,110	78.851,860
558	0,000		7,604						
		0,000		18,781	10,00	0,000	13.237,600	187,810	79.039,670
559	0,000		11,177						
		0,000		24,384	10,00	0,000	13.237,600	243,840	79.283,510
560	0,000		13,207						
		0,000		29,055	10,00	0,000	13.237,600	290,550	79.574,060
561	0,000		15,848						
		0,000		30,794	10,00	0,000	13.237,600	307,940	79.882,000
562	0,000		14,946						
		0,000		31,901	10,00	0,000	13.237,600	319,010	80.201,010
563	0,000		16,955						
		0,000		30,035	10,00	0,000	13.237,600	300,350	80.501,360
564	0,000		13,080						
		0,000		26,471	10,00	0,000	13.237,600	264,710	80.766,070
565	0,000		13,391						
		0,000		26,471	10,00	0,000	13.237,600	264,710	81.030,780
566	0,000		13,080						
		0,000		26,315	10,00	0,000	13.237,600	263,150	81.293,930
567	0,000		13,235						
		0,000		27,842	10,00	0,000	13.237,600	278,420	81.572,350
568	0,000		14,607						
		0,000		25,784	10,00	0,000	13.237,600	257,840	81.830,190
569	0,000		11,177						
		0,000		22,826	10,00	0,000	13.237,600	228,260	82.058,450
570	0,000		11,649						
		0,000		22,613	10,00	0,000	13.237,600	226,130	82.284,580
571	0,000		10,964						
		0,000		17,936	10,00	0,000	13.237,600	179,360	82.463,940
572	0,000		6,972						
		0,000		11,354	10,00	0,000	13.237,600	113,540	82.577,480
573	0,000		4,382						
		0,000		7,798	10,00	0,000	13.237,600	77,980	82.655,460
574	0,000		3,416						
		0,000		6,482	10,00	0,000	13.237,600	64,820	82.720,280
575	0,000		3,066						
		0,000		5,847	10,00	0,000	13.237,600	58,470	82.778,750
576	0,000		2,781						
		0,000		5,410	10,00	0,000	13.237,600	54,100	82.832,850
577	0,000		2,629						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		4,803	10,00	0,000	13.237,600	48,030	82.880,880
578	0,000		2,174						
		0,000		4,954	10,00	0,000	13.237,600	49,540	82.930,420
579	0,000		2,780						
		0,000		4,864	10,00	0,000	13.237,600	48,640	82.979,060
580	0,000		2,084						
		0,000		10,934	10,00	0,000	13.237,600	109,340	83.088,400
581	0,000		8,850						
		0,000		17,572	10,00	0,000	13.237,600	175,720	83.264,120
582	0,000		8,722						
		0,000		17,572	10,00	0,000	13.237,600	175,720	83.439,840
583	0,000		8,850						
		0,000		16,298	10,00	0,000	13.237,600	162,980	83.602,820
584	0,000		7,448						
		0,000		11,828	10,00	0,000	13.237,600	118,280	83.721,100
585	0,000		4,380						
		0,000		9,340	10,00	0,000	13.237,600	93,400	83.814,500
586	0,000		4,960						
		0,000		9,333	10,00	0,000	13.237,600	93,330	83.907,830
587	0,000		4,373						
		0,000		10,422	10,00	0,000	13.237,600	104,220	84.012,050
588	0,000		6,049						
		0,000		15,524	10,00	0,000	13.237,600	155,240	84.167,290
589	0,000		9,475						
		0,000		22,682	10,00	0,000	13.237,600	226,820	84.394,110
590	0,000		13,207						
		0,000		29,055	10,00	0,000	13.237,600	290,550	84.684,660
591	0,000		15,848						
		0,000		30,794	10,00	0,000	13.237,600	307,940	84.992,600
592	0,000		14,946						
		0,000		31,901	10,00	0,000	13.237,600	319,010	85.311,610
593	0,000		16,955						
		0,000		30,035	10,00	0,000	13.237,600	300,350	85.611,960
594	0,000		13,080						
		0,000		27,715	10,00	0,000	13.237,600	277,150	85.889,110
595	0,000		14,635						
		0,000		31,885	10,00	0,000	13.237,600	318,850	86.207,960
596	0,000		17,250						
		0,000		31,699	10,00	0,000	13.237,600	316,990	86.524,950
597	0,000		14,449						
		0,000		27,840	10,00	0,000	13.237,600	278,400	86.803,350
598	0,000		13,391						
		0,000		26,471	10,00	0,000	13.237,600	264,710	87.068,060
599	0,000		13,080						
		0,000		26,315	10,00	0,000	13.237,600	263,150	87.331,210
600	0,000		13,235						
		0,000		27,842	10,00	0,000	13.237,600	278,420	87.609,630
601	0,000		14,607						
		0,000		25,784	10,00	0,000	13.237,600	257,840	87.867,470
602	0,000		11,177						
		0,000		22,826	10,00	0,000	13.237,600	228,260	88.095,730
603	0,000		11,649						
		0,000		20,499	10,00	0,000	13.237,600	204,990	88.300,720
604	0,000		8,850						
		0,000		19,257	10,00	0,000	13.237,600	192,570	88.493,290

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
605	0,000		10,407						
		0,000		18,011	10,00	0,000	13.237,600	180,110	88.673,400
606	0,000		7,604						
		0,000		18,781	10,00	0,000	13.237,600	187,810	88.861,210
607	0,000		11,177						
		0,000		24,384	10,00	0,000	13.237,600	243,840	89.105,050
608	0,000		13,207						
		0,000		23,925	10,00	0,000	13.237,600	239,250	89.344,300
609	0,000		10,718						
		0,000		19,568	10,00	0,000	13.237,600	195,680	89.539,980
610	0,000		8,850						
		0,000		19,285	10,00	0,000	13.237,600	192,850	89.732,830
611	0,000		10,435						
		0,000		22,084	10,00	0,000	13.237,600	220,840	89.953,670
612	0,000		11,649						
		0,000		20,499	10,00	0,000	13.237,600	204,990	90.158,660
613	0,000		8,850						
		0,000		19,257	10,00	0,000	13.237,600	192,570	90.351,230
614	0,000		10,407						
		0,000		18,840	10,00	0,000	13.237,600	188,400	90.539,630
615	0,000		8,433						
		0,000		19,400	10,00	0,000	13.237,600	194,000	90.733,630
616	0,000		10,967						
		0,000		18,443	10,00	0,000	13.237,600	184,430	90.918,060
617	0,000		7,476						
		0,000		17,911	10,00	0,000	13.237,600	179,110	91.097,170
618	0,000		10,435						
		0,000		19,157	10,00	0,000	13.237,600	191,570	91.288,740
619	0,000		8,722						
		0,000		17,572	10,00	0,000	13.237,600	175,720	91.464,460
620	0,000		8,850						
		0,000		20,027	10,00	0,000	13.237,600	200,270	91.664,730
621	0,000		11,177						
		0,000		22,826	10,00	0,000	13.237,600	228,260	91.892,990
622	0,000		11,649						
		0,000		25,321	10,00	0,000	13.237,600	253,210	92.146,200
623	0,000		13,672						
		0,000		25,510	10,00	0,000	13.237,600	255,100	92.401,300
624	0,000		11,838						
		0,000		25,233	10,00	0,000	13.237,600	252,330	92.653,630
625	0,000		13,395						
		0,000		24,572	10,00	0,000	13.237,600	245,720	92.899,350
626	0,000		11,177						
		0,000		24,384	10,00	0,000	13.237,600	243,840	93.143,190
627	0,000		13,207						
		0,000		23,925	10,00	0,000	13.237,600	239,250	93.382,440
628	0,000		10,718						
		0,000		23,304	10,00	0,000	13.237,600	233,040	93.615,480
629	0,000		12,586						
		0,000		25,170	10,00	0,000	13.237,600	251,700	93.867,180
630	0,000		12,584						
		0,000		24,233	10,00	0,000	13.237,600	242,330	94.109,510
631	0,000		11,649						
		0,000		20,499	10,00	0,000	13.237,600	204,990	94.314,500
632	0,000		8,850						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		20,982	10,00	0,000	13.237,600	209,820	94.524,320
633	0,000		12,132						
		0,000		20,565	10,00	0,000	13.237,600	205,650	94.729,970
634	0,000		8,433						
		0,000		19,400	10,00	0,000	13.237,600	194,000	94.923,970
635	0,000		10,967						
		0,000		24,174	10,00	0,000	13.237,600	241,740	95.165,710
636	0,000		13,207						
		0,000		23,925	10,00	0,000	13.237,600	239,250	95.404,960
637	0,000		10,718						
		0,000		19,568	10,00	0,000	13.237,600	195,680	95.600,640
638	0,000		8,850						
		0,000		19,285	10,00	0,000	13.237,600	192,850	95.793,490
639	0,000		10,435						
		0,000		22,084	10,00	0,000	13.237,600	220,840	96.014,330
640	0,000		11,649						
		0,000		20,499	10,00	0,000	13.237,600	204,990	96.219,320
641	0,000		8,850						
		0,000		19,257	10,00	0,000	13.237,600	192,570	96.411,890
642	0,000		10,407						
		0,000		18,840	10,00	0,000	13.237,600	188,400	96.600,290
643	0,000		8,433						
		0,000		19,001	10,00	0,000	13.237,600	190,010	96.790,300
644	0,000		10,568						
		0,000		19,319	10,00	0,000	13.237,600	193,190	96.983,490
645	0,000		8,751						
		0,000		19,109	10,00	0,000	13.237,600	191,090	97.174,580
646	0,000		10,358						
		0,000		20,762	10,00	0,000	13.237,600	207,620	97.382,200
647	0,000		10,404						
		0,000		22,210	10,00	0,000	13.237,600	222,100	97.604,300
648	0,000		11,806						
		0,000		21,667	10,00	0,000	13.237,600	216,670	97.820,970
649	0,000		9,861						
		0,000		27,733	10,00	0,000	13.237,600	277,330	98.098,300
650	0,000		17,872						
		0,000		34,050	10,00	0,000	13.237,600	340,500	98.438,800
651	0,000		16,178						
		0,000		29,258	10,00	0,000	13.237,600	292,580	98.731,380
652	0,000		13,080						
		0,000		21,935	10,00	0,000	13.237,600	219,350	98.950,730
653	0,000		8,855						
		0,000		16,371	10,00	0,000	13.237,600	163,710	99.114,440
654	0,000		7,516						
		1,212		12,943	10,00	12,120	13.249,720	129,430	99.243,870
655	1,212		5,427						
		3,061		9,782	10,00	30,610	13.280,330	97,820	99.341,690
656	1,849		4,355						
		5,816		4,355	10,00	58,160	13.338,490	43,550	99.385,240
657	3,967		0,000						
		8,336		0,000	10,00	83,360	13.421,850	0,000	99.385,240
658	4,369		0,000						
		8,382		0,000	10,00	83,820	13.505,670	0,000	99.385,240
659	4,013		0,000						
		7,447		0,000	10,00	74,470	13.580,140	0,000	99.385,240

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
660	3,434		0,000						
		6,497		0,000	10,00	64,970	13.645,110	0,000	99.385,240
661	3,063		0,000						
		6,001		0,000	10,00	60,010	13.705,120	0,000	99.385,240
662	2,938		0,000						
		6,681		0,000	10,00	66,810	13.771,930	0,000	99.385,240
663	3,743		0,000						
		6,636		0,000	10,00	66,360	13.838,290	0,000	99.385,240
664	2,893		0,000						
		5,476		0,000	10,00	54,760	13.893,050	0,000	99.385,240
665	2,583		0,000						
		5,524		0,000	10,00	55,240	13.948,290	0,000	99.385,240
666	2,941		0,000						
		5,864		0,000	10,00	58,640	14.006,930	0,000	99.385,240
667	2,923		0,000						
		8,304		0,000	10,00	83,040	14.089,970	0,000	99.385,240
668	5,381		0,000						
		11,398		0,000	10,00	113,980	14.203,950	0,000	99.385,240
669	6,017		0,000						
		13,467		0,000	10,00	134,670	14.338,620	0,000	99.385,240
670	7,450		0,000						
		16,394		0,000	10,00	163,940	14.502,560	0,000	99.385,240
671	8,944		0,000						
		18,882		0,000	10,00	188,820	14.691,380	0,000	99.385,240
672	9,938		0,000						
		19,473		0,000	10,00	194,730	14.886,110	0,000	99.385,240
673	9,535		0,000						
		19,515		0,000	10,00	195,150	15.081,260	0,000	99.385,240
674	9,980		0,000						
		20,387		0,000	10,00	203,870	15.285,130	0,000	99.385,240
675	10,407		0,000						
		18,840		0,000	10,00	188,400	15.473,530	0,000	99.385,240
676	8,433		0,000						
		19,400		0,000	10,00	194,000	15.667,530	0,000	99.385,240
677	10,967		0,000						
		18,443		0,000	10,00	184,430	15.851,960	0,000	99.385,240
678	7,476		0,000						
		17,911		0,000	10,00	179,110	16.031,070	0,000	99.385,240
679	10,435		0,000						
		19,157		0,000	10,00	191,570	16.222,640	0,000	99.385,240
680	8,722		0,000						
		17,572		0,000	10,00	175,720	16.398,360	0,000	99.385,240
681	8,850		0,000						
		20,027		0,000	10,00	200,270	16.598,630	0,000	99.385,240
682	11,177		0,000						
		22,826		0,000	10,00	228,260	16.826,890	0,000	99.385,240
683	11,649		0,000						
		19,798		0,000	10,00	197,980	17.024,870	0,000	99.385,240
684	8,149		0,000						
		14,775		0,000	10,00	147,750	17.172,620	0,000	99.385,240
685	6,626		0,000						
		11,555		0,000	10,00	115,550	17.288,170	0,000	99.385,240
686	4,929		0,000						
		8,912		0,000	10,00	89,120	17.377,290	0,000	99.385,240
687	3,983		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		6,566		0,000	10,00	65,660	17.442,950	0,000	99.385,240
688	2,583		0,000						
		5,521		0,000	10,00	55,210	17.498,160	0,000	99.385,240
689	2,938		0,000						
		6,905		0,000	10,00	69,050	17.567,210	0,000	99.385,240
690	3,967		0,000						
		8,336		0,000	10,00	83,360	17.650,570	0,000	99.385,240
691	4,369		0,000						
		8,382		0,000	10,00	83,820	17.734,390	0,000	99.385,240
692	4,013		0,000						
		7,447		0,000	10,00	74,470	17.808,860	0,000	99.385,240
693	3,434		0,000						
		6,497		0,000	10,00	64,970	17.873,830	0,000	99.385,240
694	3,063		0,000						
		6,001		0,000	10,00	60,010	17.933,840	0,000	99.385,240
695	2,938		0,000						
		6,681		0,000	10,00	66,810	18.000,650	0,000	99.385,240
696	3,743		0,000						
		6,636		0,000	10,00	66,360	18.067,010	0,000	99.385,240
697	2,893		0,000						
		5,476		0,000	10,00	54,760	18.121,770	0,000	99.385,240
698	2,583		0,000						
		3,887		0,000	10,00	38,870	18.160,640	0,000	99.385,240
699	1,304		0,000						
		2,127		0,606	10,00	21,270	18.181,910	6,060	99.391,300
700	0,823		0,606						
		0,823		3,593	10,00	8,230	18.190,140	35,930	99.427,230
701	0,000		2,987						
		0,000		7,367	10,00	0,000	18.190,140	73,670	99.500,900
702	0,000		4,380						
		0,000		11,982	10,00	0,000	18.190,140	119,820	99.620,720
703	0,000		7,602						
		0,000		23,450	10,00	0,000	18.190,140	234,500	99.855,220
704	0,000		15,848						
		0,000		33,404	10,00	0,000	18.190,140	334,040	100.189,260
705	0,000		17,556						
		0,000		34,962	10,00	0,000	18.190,140	349,620	100.538,880
706	0,000		17,406						
		0,000		28,438	10,00	0,000	18.190,140	284,380	100.823,260
707	0,000		11,032						
		0,000		24,080	10,00	0,000	18.190,140	240,800	101.064,060
708	0,000		13,048						
		0,000		24,696	10,00	0,000	18.190,140	246,960	101.311,020
709	0,000		11,648						
		0,000		24,698	10,00	0,000	18.190,140	246,980	101.558,000
710	0,000		13,050						
		0,000		22,682	10,00	0,000	18.190,140	226,820	101.784,820
711	0,000		9,632						
		0,000		18,638	10,00	0,000	18.190,140	186,380	101.971,200
712	0,000		9,006						
		0,000		16,463	10,00	0,000	18.190,140	164,630	102.135,830
713	0,000		7,457						
		0,000		14,443	10,00	0,000	18.190,140	144,430	102.280,260
714	0,000		6,986						
		0,000		12,569	10,00	0,000	18.190,140	125,690	102.405,950

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
715	0,000		5,583						
		0,000		18,663	10,00	0,000	18.190,140	186,630	102.592,580
716	0,000		13,080						
		0,000		26,315	10,00	0,000	18.190,140	263,150	102.855,730
717	0,000		13,235						
		0,000		27,842	10,00	0,000	18.190,140	278,420	103.134,150
718	0,000		14,607						
		0,000		25,784	10,00	0,000	18.190,140	257,840	103.391,990
719	0,000		11,177						
		0,000		22,826	10,00	0,000	18.190,140	228,260	103.620,250
720	0,000		11,649						
		0,000		20,499	10,00	0,000	18.190,140	204,990	103.825,240
721	0,000		8,850						
		0,000		19,257	10,00	0,000	18.190,140	192,570	104.017,810
722	0,000		10,407						
		0,000		18,011	10,00	0,000	18.190,140	180,110	104.197,920
723	0,000		7,604						
		0,000		18,781	10,00	0,000	18.190,140	187,810	104.385,730
724	0,000		11,177						
		0,000		24,384	10,00	0,000	18.190,140	243,840	104.629,570
725	0,000		13,207						
		0,000		23,925	10,00	0,000	18.190,140	239,250	104.868,820
726	0,000		10,718						
		0,000		19,568	10,00	0,000	18.190,140	195,680	105.064,500
727	0,000		8,850						
		0,000		19,285	10,00	0,000	18.190,140	192,850	105.257,350
728	0,000		10,435						
		0,000		22,084	10,00	0,000	18.190,140	220,840	105.478,190
729	0,000		11,649						
		0,000		20,499	10,00	0,000	18.190,140	204,990	105.683,180
730	0,000		8,850						
		0,000		19,568	10,00	0,000	18.190,140	195,680	105.878,860
731	0,000		10,718						
		0,000		19,568	10,00	0,000	18.190,140	195,680	106.074,540
732	0,000		8,850						
		0,000		19,285	10,00	0,000	18.190,140	192,850	106.267,390
733	0,000		10,435						
		0,000		22,084	10,00	0,000	18.190,140	220,840	106.488,230
734	0,000		11,649						
		0,000		20,499	10,00	0,000	18.190,140	204,990	106.693,220
735	0,000		8,850						
		0,000		19,257	10,00	0,000	18.190,140	192,570	106.885,790
736	0,000		10,407						
		0,000		18,840	10,00	0,000	18.190,140	188,400	107.074,190
737	0,000		8,433						
		0,000		19,400	10,00	0,000	18.190,140	194,000	107.268,190
738	0,000		10,967						
		0,000		18,443	10,00	0,000	18.190,140	184,430	107.452,620
739	0,000		7,476						
		0,000		17,911	10,00	0,000	18.190,140	179,110	107.631,730
740	0,000		10,435						
		0,000		19,157	10,00	0,000	18.190,140	191,570	107.823,300
741	0,000		8,722						
		0,000		19,283	10,00	0,000	18.190,140	192,830	108.016,130
742	0,000		10,561						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		21,738	10,00	0,000	18.190,140	217,380	108.233,510
743	0,000		11,177						
		0,000		22,826	10,00	0,000	18.190,140	228,260	108.461,770
744	0,000		11,649						
		0,000		25,321	10,00	0,000	18.190,140	253,210	108.714,980
745	0,000		13,672						
		0,000		25,510	10,00	0,000	18.190,140	255,100	108.970,080
746	0,000		11,838						
		0,000		25,233	10,00	0,000	18.190,140	252,330	109.222,410
747	0,000		13,395						
		0,000		24,572	10,00	0,000	18.190,140	245,720	109.468,130
748	0,000		11,177						
		0,000		24,356	10,00	0,000	18.190,140	243,560	109.711,690
749	0,000		13,179						
		0,000		23,585	10,00	0,000	18.190,140	235,850	109.947,540
750	0,000		10,406						
		0,000		22,992	10,00	0,000	18.190,140	229,920	110.177,460
751	0,000		12,586						
		0,000		25,170	10,00	0,000	18.190,140	251,700	110.429,160
752	0,000		12,584						
		0,000		24,233	10,00	0,000	18.190,140	242,330	110.671,490
753	0,000		11,649						
		0,000		20,499	10,00	0,000	18.190,140	204,990	110.876,480
754	0,000		8,850						
		0,000		20,982	10,00	0,000	18.190,140	209,820	111.086,300
755	0,000		12,132						
		0,000		25,493	10,00	0,000	18.190,140	254,930	111.341,230
756	0,000		13,361						
		0,000		30,952	10,00	0,000	18.190,140	309,520	111.650,750
757	0,000		17,591						
		0,000		36,974	10,00	0,000	18.190,140	369,740	112.020,490
758	0,000		19,383						
		0,000		36,944	10,00	0,000	18.190,140	369,440	112.389,930
759	0,000		17,561						
		0,000		35,618	10,00	0,000	18.190,140	356,180	112.746,110
760	0,000		18,057						
		0,000		31,421	10,00	0,000	18.190,140	314,210	113.060,320
761	0,000		13,364						
		0,000		29,059	10,00	0,000	18.190,140	290,590	113.350,910
762	0,000		15,695						
		0,000		30,455	10,00	0,000	18.190,140	304,550	113.655,460
763	0,000		14,760						
		0,000		33,255	10,00	0,000	18.190,140	332,550	113.988,010
764	0,000		18,495						
		0,000		34,656	10,00	0,000	18.190,140	346,560	114.334,570
765	0,000		16,161						
		0,000		30,799	10,00	0,000	18.190,140	307,990	114.642,560
766	0,000		14,638						
		0,000		32,835	10,00	0,000	18.190,140	328,350	114.970,910
767	0,000		18,197						
		0,000		34,049	10,00	0,000	18.190,140	340,490	115.311,400
768	0,000		15,852						
		0,000		33,609	10,00	0,000	18.190,140	336,090	115.647,490
769	0,000		17,757						
		0,000		35,318	10,00	0,000	18.190,140	353,180	116.000,670

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
770	0,000		17,561						
		0,000		36,244	10,00	0,000	18.190,140	362,440	116.363,110
771	0,000		18,683						
		0,000		36,244	10,00	0,000	18.190,140	362,440	116.725,550
772	0,000		17,561						
		0,000		35,618	10,00	0,000	18.190,140	356,180	117.081,730
773	0,000		18,057						
		0,000		32,507	10,00	0,000	18.190,140	325,070	117.406,800
774	0,000		14,450						
		0,000		27,810	10,00	0,000	18.190,140	278,100	117.684,900
775	0,000		13,360						
		0,000		24,364	10,00	0,000	18.190,140	243,640	117.928,540
776	0,000		11,004						
		0,000		20,006	10,00	0,000	18.190,140	200,060	118.128,600
777	0,000		9,002						
		0,000		19,720	10,00	0,000	18.190,140	197,200	118.325,800
778	0,000		10,718						
		0,000		23,290	10,00	0,000	18.190,140	232,900	118.558,700
779	0,000		12,572						
		0,000		25,778	10,00	0,000	18.190,140	257,780	118.816,480
780	0,000		13,206						
		0,000		27,024	10,00	0,000	18.190,140	270,240	119.086,720
781	0,000		13,818						
		0,000		28,728	10,00	0,000	18.190,140	287,280	119.374,000
782	0,000		14,910						
		0,000		22,218	10,00	0,000	18.190,140	222,180	119.596,180
783	0,000		7,308						
		0,000		13,700	10,00	0,000	18.190,140	137,000	119.733,180
784	0,000		6,392						
		0,000		19,752	10,00	0,000	18.190,140	197,520	119.930,700
785	0,000		13,360						
		0,000		24,364	10,00	0,000	18.190,140	243,640	120.174,340
786	0,000		11,004						
		0,000		20,006	10,00	0,000	18.190,140	200,060	120.374,400
787	0,000		9,002						
		0,000		19,720	10,00	0,000	18.190,140	197,200	120.571,600
788	0,000		10,718						
		0,000		23,290	10,00	0,000	18.190,140	232,900	120.804,500
789	0,000		12,572						
		0,000		25,778	10,00	0,000	18.190,140	257,780	121.062,280
790	0,000		13,206						
		0,000		27,024	10,00	0,000	18.190,140	270,240	121.332,520
791	0,000		13,818						
		0,000		23,366	10,00	0,000	18.190,140	233,660	121.566,180
792	0,000		9,548						
		0,000		15,274	10,00	0,000	18.190,140	152,740	121.718,920
793	0,000		5,726						
		0,000		10,080	10,00	0,000	18.190,140	100,800	121.819,720
794	0,000		4,354						
		0,000		9,781	10,00	0,000	18.190,140	97,810	121.917,530
795	0,000		5,427						
		0,000		6,183	10,00	0,000	18.190,140	61,830	121.979,360
796	0,000		0,756						
		0,000		1,078	10,00	0,000	18.190,140	10,780	121.990,140
797	0,000		0,322						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		1,086	10,00	0,000	18.190,140	10,860	122.001,000
798	0,000		0,764						
		0,000		1,469	10,00	0,000	18.190,140	14,690	122.015,690
799	0,000		0,705						
		0,000		1,480	10,00	0,000	18.190,140	14,800	122.030,490
800	0,000		0,775						
		0,000		0,948	10,00	0,000	18.190,140	9,480	122.039,970
801	0,000		0,173						
		0,000		0,789	10,00	0,000	18.190,140	7,890	122.047,860
802	0,000		0,616						
		0,000		1,829	10,00	0,000	18.190,140	18,290	122.066,150
803	0,000		1,213						
		0,000		3,063	10,00	0,000	18.190,140	30,630	122.096,780
804	0,000		1,850						
		0,000		10,233	10,00	0,000	18.190,140	102,330	122.199,110
805	0,000		8,383						
		0,000		21,621	10,00	0,000	18.190,140	216,210	122.415,320
806	0,000		13,238						
		0,000		31,270	10,00	0,000	18.190,140	312,700	122.728,020
807	0,000		18,032						
		0,000		37,464	10,00	0,000	18.190,140	374,640	123.102,660
808	0,000		19,432						
		0,000		31,238	10,00	0,000	18.190,140	312,380	123.415,040
809	0,000		11,806						
		0,635		21,309	10,00	6,350	18.196,490	213,090	123.628,130
810	0,635		9,503						
		1,391		9,503	10,00	13,910	18.210,400	95,030	123.723,160
811	0,756		0,000						
		1,078		0,000	10,00	10,780	18.221,180	0,000	123.723,160
812	0,322		0,000						
		1,086		0,000	10,00	10,860	18.232,040	0,000	123.723,160
813	0,764		0,000						
		1,469		0,000	10,00	14,690	18.246,730	0,000	123.723,160
814	0,705		0,000						
		1,480		0,000	10,00	14,800	18.261,530	0,000	123.723,160
815	0,775		0,000						
		2,080		0,000	10,00	20,800	18.282,330	0,000	123.723,160
816	1,305		0,000						
		3,192		0,000	10,00	31,920	18.314,250	0,000	123.723,160
817	1,887		0,000						
		3,610		0,000	10,00	36,100	18.350,350	0,000	123.723,160
818	1,723		0,000						
		4,290		0,000	10,00	42,900	18.393,250	0,000	123.723,160
819	2,567		0,000						
		6,401		0,000	10,00	64,010	18.457,260	0,000	123.723,160
820	3,834		0,000						
		6,548		0,000	10,00	65,480	18.522,740	0,000	123.723,160
821	2,714		0,000						
		5,529		0,000	10,00	55,290	18.578,030	0,000	123.723,160
822	2,815		0,000						
		6,012		0,000	10,00	60,120	18.638,150	0,000	123.723,160
823	3,197		0,000						
		4,931		0,000	10,00	49,310	18.687,460	0,000	123.723,160
824	1,734		0,000						
		2,901		1,600	10,00	29,010	18.716,470	16,000	123.739,160

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
825	1,167		1,600						
		1,167		9,983	10,00	11,670	18.728,140	99,830	123.838,990
826	0,000		8,383						
		0,000		22,863	10,00	0,000	18.728,140	228,630	124.067,620
827	0,000		14,480						
		0,000		30,006	10,00	0,000	18.728,140	300,060	124.367,680
828	0,000		15,526						
		0,000		29,087	10,00	0,000	18.728,140	290,870	124.658,550
829	0,000		13,561						
		0,606		14,167	10,00	6,060	18.734,200	141,670	124.800,220
830	0,606		0,606						
		4,162		0,606	10,00	41,620	18.775,820	6,060	124.806,280
831	3,556		0,000						
		8,922		0,000	10,00	89,220	18.865,040	0,000	124.806,280
832	5,366		0,000						
		12,842		0,000	10,00	128,420	18.993,460	0,000	124.806,280
833	7,476		0,000						
		17,911		0,000	10,00	179,110	19.172,570	0,000	124.806,280
834	10,435		0,000						
		19,157		0,000	10,00	191,570	19.364,140	0,000	124.806,280
835	8,722		0,000						
		17,572		0,000	10,00	175,720	19.539,860	0,000	124.806,280
836	8,850		0,000						
		20,027		0,000	10,00	200,270	19.740,130	0,000	124.806,280
837	11,177		0,000						
		24,384		0,000	10,00	243,840	19.983,970	0,000	124.806,280
838	13,207		0,000						
		24,856		0,000	10,00	248,560	20.232,530	0,000	124.806,280
839	11,649		0,000						
		20,499		0,000	10,00	204,990	20.437,520	0,000	124.806,280
840	8,850		0,000						
		19,257		0,000	10,00	192,570	20.630,090	0,000	124.806,280
841	10,407		0,000						
		18,840		0,000	10,00	188,400	20.818,490	0,000	124.806,280
842	8,433		0,000						
		19,400		0,000	10,00	194,000	21.012,490	0,000	124.806,280
843	10,967		0,000						
		18,443		0,000	10,00	184,430	21.196,920	0,000	124.806,280
844	7,476		0,000						
		17,911		0,000	10,00	179,110	21.376,030	0,000	124.806,280
845	10,435		0,000						
		19,157		0,000	10,00	191,570	21.567,600	0,000	124.806,280
846	8,722		0,000						
		19,283		0,000	10,00	192,830	21.760,430	0,000	124.806,280
847	10,561		0,000						
		21,738		0,000	10,00	217,380	21.977,810	0,000	124.806,280
848	11,177		0,000						
		22,826		0,000	10,00	228,260	22.206,070	0,000	124.806,280
849	11,649		0,000						
		21,433		0,000	10,00	214,330	22.420,400	0,000	124.806,280
850	9,784		0,000						
		14,744		0,000	10,00	147,440	22.567,840	0,000	124.806,280
851	4,960		0,000						
		10,607		0,000	10,00	106,070	22.673,910	0,000	124.806,280
852	5,647		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		10,296		0,000	10,00	102,960	22.776,870	0,000	124.806,280
853	4,649		0,000						
		8,664		0,000	10,00	86,640	22.863,510	0,000	124.806,280
854	4,015		0,000						
		6,175		0,000	10,00	61,750	22.925,260	0,000	124.806,280
855	2,160		0,000						
		3,543		0,000	10,00	35,430	22.960,690	0,000	124.806,280
856	1,383		0,000						
		1,989		0,000	10,00	19,890	22.980,580	0,000	124.806,280
857	0,606		0,000						
		0,930		0,000	10,00	9,300	22.989,880	0,000	124.806,280
858	0,324		0,000						
		0,774		0,000	10,00	7,740	22.997,620	0,000	124.806,280
859	0,450		0,000						
		1,054		0,000	10,00	10,540	23.008,160	0,000	124.806,280
860	0,604		0,000						
		1,005		0,000	10,00	10,050	23.018,210	0,000	124.806,280
861	0,401		0,000						
		0,867		0,000	10,00	8,670	23.026,880	0,000	124.806,280
862	0,466		0,000						
		2,608		0,000	10,00	26,080	23.052,960	0,000	124.806,280
863	2,142		0,000						
		3,588		0,000	10,00	35,880	23.088,840	0,000	124.806,280
864	1,446		0,000						
		2,769		0,000	10,00	27,690	23.116,530	0,000	124.806,280
865	1,323		0,000						
		3,361		0,000	10,00	33,610	23.150,140	0,000	124.806,280
866	2,038		0,000						
		3,205		0,000	10,00	32,050	23.182,190	0,000	124.806,280
867	1,167		0,000						
		3,748		0,000	10,00	37,480	23.219,670	0,000	124.806,280
868	2,581		0,000						
		4,588		0,000	10,00	45,880	23.265,550	0,000	124.806,280
869	2,007		0,000						
		3,733		0,000	10,00	37,330	23.302,880	0,000	124.806,280
870	1,726		0,000						
		3,341		0,000	10,00	33,410	23.336,290	0,000	124.806,280
871	1,615		0,000						
		3,132		0,000	10,00	31,320	23.367,610	0,000	124.806,280
872	1,517		0,000						
		2,980		0,000	10,00	29,800	23.397,410	0,000	124.806,280
873	1,463		0,000						
		2,783		0,000	10,00	27,830	23.425,240	0,000	124.806,280
874	1,320		0,000						
		2,503		0,000	10,00	25,030	23.450,270	0,000	124.806,280
875	1,183		0,000						
		2,098		0,000	10,00	20,980	23.471,250	0,000	124.806,280
876	0,915		0,000						
		1,799		0,000	10,00	17,990	23.489,240	0,000	124.806,280
877	0,884		0,000						
		1,628		0,000	10,00	16,280	23.505,520	0,000	124.806,280
878	0,744		0,000						
		1,927		0,000	10,00	19,270	23.524,790	0,000	124.806,280
879	1,183		0,000						
		2,254		0,000	10,00	22,540	23.547,330	0,000	124.806,280

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
880	1,071		0,000						
		1,958		0,000	10,00	19,580	23.566,910	0,000	124.806,280
881	0,887		0,000						
		1,337		0,000	10,00	13,370	23.580,280	0,000	124.806,280
882	0,450		0,000						
		1,477		0,000	10,00	14,770	23.595,050	0,000	124.806,280
883	1,027		0,000						
		2,210		0,000	10,00	22,100	23.617,150	0,000	124.806,280
884	1,183		0,000						
		2,217		0,000	10,00	22,170	23.639,320	0,000	124.806,280
885	1,034		0,000						
		1,515		0,000	10,00	15,150	23.654,470	0,000	124.806,280
886	0,481		0,000						
		1,146		0,606	10,00	11,460	23.665,930	6,060	124.812,340
887	0,665		0,606						
		0,991		1,983	10,00	9,910	23.675,840	19,830	124.832,170
888	0,326		1,377						
		0,326		3,945	10,00	3,260	23.679,100	39,450	124.871,620
889	0,000		2,568						
		0,000		11,001	10,00	0,000	23.679,100	110,010	124.981,630
890	0,000		8,433						
		0,000		19,400	10,00	0,000	23.679,100	194,000	125.175,630
891	0,000		10,967						
		0,000		18,443	10,00	0,000	23.679,100	184,430	125.360,060
892	0,000		7,476						
		0,000		17,911	10,00	0,000	23.679,100	179,110	125.539,170
893	0,000		10,435						
		0,000		19,157	10,00	0,000	23.679,100	191,570	125.730,740
894	0,000		8,722						
		0,000		17,572	10,00	0,000	23.679,100	175,720	125.906,460
895	0,000		8,850						
		0,000		20,027	10,00	0,000	23.679,100	200,270	126.106,730
896	0,000		11,177						
		0,000		24,384	10,00	0,000	23.679,100	243,840	126.350,570
897	0,000		13,207						
		0,000		24,856	10,00	0,000	23.679,100	248,560	126.599,130
898	0,000		11,649						
		0,000		20,499	10,00	0,000	23.679,100	204,990	126.804,120
899	0,000		8,850						
		0,000		19,257	10,00	0,000	23.679,100	192,570	126.996,690
900	0,000		10,407						
		0,000		18,840	10,00	0,000	23.679,100	188,400	127.185,090
901	0,000		8,433						
		0,000		19,400	10,00	0,000	23.679,100	194,000	127.379,090
902	0,000		10,967						
		0,000		18,443	10,00	0,000	23.679,100	184,430	127.563,520
903	0,000		7,476						
		0,000		17,911	10,00	0,000	23.679,100	179,110	127.742,630
904	0,000		10,435						
		0,000		19,157	10,00	0,000	23.679,100	191,570	127.934,200
905	0,000		8,722						
		0,000		19,283	10,00	0,000	23.679,100	192,830	128.127,030
906	0,000		10,561						
		0,000		21,738	10,00	0,000	23.679,100	217,380	128.344,410
907	0,000		11,177						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		22,826	10,00	0,000	23.679,100	228,260	128.572,670
908	0,000		11,649						
		0,000		21,433	10,00	0,000	23.679,100	214,330	128.787,000
909	0,000		9,784						
		0,000		14,744	10,00	0,000	23.679,100	147,440	128.934,440
910	0,000		4,960						
		0,000		10,607	10,00	0,000	23.679,100	106,070	129.040,510
911	0,000		5,647						
		0,000		10,296	10,00	0,000	23.679,100	102,960	129.143,470
912	0,000		4,649						
		0,000		8,664	10,00	0,000	23.679,100	86,640	129.230,110
913	0,000		4,015						
		0,000		6,175	10,00	0,000	23.679,100	61,750	129.291,860
914	0,000		2,160						
		0,000		3,543	10,00	0,000	23.679,100	35,430	129.327,290
915	0,000		1,383						
		0,000		1,989	10,00	0,000	23.679,100	19,890	129.347,180
916	0,000		0,606						
		0,000		0,930	10,00	0,000	23.679,100	9,300	129.356,480
917	0,000		0,324						
		0,000		0,774	10,00	0,000	23.679,100	7,740	129.364,220
918	0,000		0,450						
		0,000		1,054	10,00	0,000	23.679,100	10,540	129.374,760
919	0,000		0,604						
		1,181		1,005	10,00	11,810	23.690,910	10,050	129.384,810
920	1,181		0,401						
		2,904		0,709	10,00	29,040	23.719,950	7,090	129.391,900
921	1,723		0,308						
		4,017		0,308	10,00	40,170	23.760,120	3,080	129.394,980
922	2,294		0,000						
		5,068		0,000	10,00	50,680	23.810,800	0,000	129.394,980
923	2,774		0,000						
		4,624		0,000	10,00	46,240	23.857,040	0,000	129.394,980
924	1,850		0,000						
		5,817		0,000	10,00	58,170	23.915,210	0,000	129.394,980
925	3,967		0,000						
		9,008		0,000	10,00	90,080	24.005,290	0,000	129.394,980
926	5,041		0,000						
		10,649		0,000	10,00	106,490	24.111,780	0,000	129.394,980
927	5,608		0,000						
		10,004		0,000	10,00	100,040	24.211,820	0,000	129.394,980
928	4,396		0,000						
		8,580		0,000	10,00	85,800	24.297,620	0,000	129.394,980
929	4,184		0,000						
		7,691		0,000	10,00	76,910	24.374,530	0,000	129.394,980
930	3,507		0,000						
		9,795		0,000	10,00	97,950	24.472,480	0,000	129.394,980
931	6,288		0,000						
		8,553		0,000	10,00	85,530	24.558,010	0,000	129.394,980
932	2,265		0,000						
		4,632		0,000	10,00	46,320	24.604,330	0,000	129.394,980
933	2,367		0,000						
		4,541		0,000	10,00	45,410	24.649,740	0,000	129.394,980
934	2,174		0,000						
		2,469		0,000	10,00	24,690	24.674,430	0,000	129.394,980

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
935	0,295		0,000						
		1,770		0,000	10,00	17,700	24.692,130	0,000	129.394,980
936	1,475		0,000						
		4,093		0,000	10,00	40,930	24.733,060	0,000	129.394,980
937	2,618		0,000						
		5,131		0,000	10,00	51,310	24.784,370	0,000	129.394,980
938	2,513		0,000						
		5,181		0,000	10,00	51,810	24.836,180	0,000	129.394,980
939	2,668		0,000						
		5,497		0,000	10,00	54,970	24.891,150	0,000	129.394,980
940	2,829		0,000						
		5,581		0,000	10,00	55,810	24.946,960	0,000	129.394,980
941	2,752		0,000						
		4,924		0,000	10,00	49,240	24.996,200	0,000	129.394,980
942	2,172		0,000						
		7,679		0,000	10,00	76,790	25.072,990	0,000	129.394,980
943	5,507		0,000						
		8,809		0,000	10,00	88,090	25.161,080	0,000	129.394,980
944	3,302		0,000						
		7,525		0,000	10,00	75,250	25.236,330	0,000	129.394,980
945	4,223		0,000						
		7,804		0,000	10,00	78,040	25.314,370	0,000	129.394,980
946	3,581		0,000						
		6,003		0,000	10,00	60,030	25.374,400	0,000	129.394,980
947	2,422		0,000						
		4,874		0,000	10,00	48,740	25.423,140	0,000	129.394,980
948	2,452		0,000						
		5,294		0,000	10,00	52,940	25.476,080	0,000	129.394,980
949	2,842		0,000						
		5,951		0,000	10,00	59,510	25.535,590	0,000	129.394,980
950	3,109		0,000						
		6,366		0,000	10,00	63,660	25.599,250	0,000	129.394,980
951	3,257		0,000						
		8,382		0,000	10,00	83,820	25.683,070	0,000	129.394,980
952	5,125		0,000						
		9,040		0,000	10,00	90,400	25.773,470	0,000	129.394,980
953	3,915		0,000						
		6,464		0,000	10,00	64,640	25.838,110	0,000	129.394,980
954	2,549		0,000						
		4,614		0,000	10,00	46,140	25.884,250	0,000	129.394,980
955	2,065		0,000						
		3,537		0,000	10,00	35,370	25.919,620	0,000	129.394,980
956	1,472		0,000						
		3,734		0,000	10,00	37,340	25.956,960	0,000	129.394,980
957	2,262		0,000						
		4,758		0,000	10,00	47,580	26.004,540	0,000	129.394,980
958	2,496		0,000						
		5,590		0,000	10,00	55,900	26.060,440	0,000	129.394,980
959	3,094		0,000						
		7,338		0,000	10,00	73,380	26.133,820	0,000	129.394,980
960	4,244		0,000						
		6,849		0,000	10,00	68,490	26.202,310	0,000	129.394,980
961	2,605		0,000						
		4,730		0,000	10,00	47,300	26.249,610	0,000	129.394,980
962	2,125		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		3,576		1,226	10,00	35,760	26.285,370	12,260	129.407,240
963	1,451		1,226						
		1,451		2,950	10,00	14,510	26.299,880	29,500	129.436,740
964	0,000		1,724						
		0,000		6,142	10,00	0,000	26.299,880	61,420	129.498,160
965	0,000		4,418						
		0,000		10,468	10,00	0,000	26.299,880	104,680	129.602,840
966	0,000		6,050						
		0,000		14,216	10,00	0,000	26.299,880	142,160	129.745,000
967	0,000		8,166						
		0,000		15,770	10,00	0,000	26.299,880	157,700	129.902,700
968	0,000		7,604						
		0,000		15,208	10,00	0,000	26.299,880	152,080	130.054,780
969	0,000		7,604						
		0,000		18,781	10,00	0,000	26.299,880	187,810	130.242,590
970	0,000		11,177						
		0,000		24,384	10,00	0,000	26.299,880	243,840	130.486,430
971	0,000		13,207						
		0,000		23,925	10,00	0,000	26.299,880	239,250	130.725,680
972	0,000		10,718						
		0,000		19,568	10,00	0,000	26.299,880	195,680	130.921,360
973	0,000		8,850						
		0,000		19,285	10,00	0,000	26.299,880	192,850	131.114,210
974	0,000		10,435						
		0,000		22,084	10,00	0,000	26.299,880	220,840	131.335,050
975	0,000		11,649						
		0,000		20,499	10,00	0,000	26.299,880	204,990	131.540,040
976	0,000		8,850						
		0,000		14,245	10,00	0,000	26.299,880	142,450	131.682,490
977	0,000		5,395						
		0,000		8,801	10,00	0,000	26.299,880	88,010	131.770,500
978	0,000		3,406						
		0,000		4,976	10,00	0,000	26.299,880	49,760	131.820,260
979	0,000		1,570						
		3,967		2,796	10,00	39,670	26.339,550	27,960	131.848,220
980	3,967		1,226						
		10,814		1,226	10,00	108,140	26.447,690	12,260	131.860,480
981	6,847		0,000						
		15,154		0,000	10,00	151,540	26.599,230	0,000	131.860,480
982	8,307		0,000						
		17,320		0,000	10,00	173,200	26.772,430	0,000	131.860,480
983	9,013		0,000						
		18,856		0,000	10,00	188,560	26.960,990	0,000	131.860,480
984	9,843		0,000						
		19,410		0,000	10,00	194,100	27.155,090	0,000	131.860,480
985	9,567		0,000						
		17,015		0,000	10,00	170,150	27.325,240	0,000	131.860,480
986	7,448		0,000						
		11,958		0,000	10,00	119,580	27.444,820	0,000	131.860,480
987	4,510		0,000						
		7,464		0,000	10,00	74,640	27.519,460	0,000	131.860,480
988	2,954		0,000						
		4,204		0,000	10,00	42,040	27.561,500	0,000	131.860,480
989	1,250		0,000						
		1,861		3,577	10,00	18,610	27.580,110	35,770	131.896,250

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
990	0,611		3,577						
		0,611		12,737	10,00	6,110	27.586,220	127,370	132.023,620
991	0,000		9,160						
		0,000		19,723	10,00	0,000	27.586,220	197,230	132.220,850
992	0,000		10,563						
		0,000		22,290	10,00	0,000	27.586,220	222,900	132.443,750
993	0,000		11,727						
		0,000		22,911	10,00	0,000	27.586,220	229,110	132.672,860
994	0,000		11,184						
		0,000		24,390	10,00	0,000	27.586,220	243,900	132.916,760
995	0,000		13,206						
		0,000		27,812	10,00	0,000	27.586,220	278,120	133.194,880
996	0,000		14,606						
		0,000		32,012	10,00	0,000	27.586,220	320,120	133.515,000
997	0,000		17,406						
		0,000		31,224	10,00	0,000	27.586,220	312,240	133.827,240
998	0,000		13,818						
		0,000		16,447	10,00	0,000	27.586,220	164,470	133.991,710
999	0,000		2,629						
		1,087		3,084	10,00	10,870	27.597,090	30,840	134.022,550
1000	1,087		0,455						
		2,298		0,455	10,00	22,980	27.620,070	4,550	134.027,100
1001	1,211		0,000						
		2,504		0,000	10,00	25,040	27.645,110	0,000	134.027,100
1002	1,293		0,000						
		2,049		0,000	10,00	20,490	27.665,600	0,000	134.027,100
1003	0,756		0,000						
		1,030		0,000	10,00	10,300	27.675,900	0,000	134.027,100
1004	0,274		0,000						
		1,017		0,000	10,00	10,170	27.686,070	0,000	134.027,100
1005	0,743		0,000						
		1,640		0,000	10,00	16,400	27.702,470	0,000	134.027,100
1006	0,897		0,000						
		3,757		0,000	10,00	37,570	27.740,040	0,000	134.027,100
1007	2,860		0,000						
		4,311		0,000	10,00	43,110	27.783,150	0,000	134.027,100
1008	1,451		0,000						
		5,375		0,000	10,00	53,750	27.836,900	0,000	134.027,100
1009	3,924		0,000						
		11,430		0,000	10,00	114,300	27.951,200	0,000	134.027,100
1010	7,506		0,000						
		10,322		0,000	10,00	103,220	28.054,420	0,000	134.027,100
1011	2,816		0,000						
		5,768		0,000	10,00	57,680	28.112,100	0,000	134.027,100
1012	2,952		0,000						
		9,389		0,000	10,00	93,890	28.205,990	0,000	134.027,100
1013	6,437		0,000						
		13,799		0,000	10,00	137,990	28.343,980	0,000	134.027,100
1014	7,362		0,000						
		9,373		0,000	10,00	93,730	28.437,710	0,000	134.027,100
1015	2,011		0,000						
		4,540		0,000	10,00	45,400	28.483,110	0,000	134.027,100
1016	2,529		0,000						
		4,249		0,000	10,00	42,490	28.525,600	0,000	134.027,100
1017	1,720		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		3,495		0,000	10,00	34,950	28.560,550	0,000	134.027,100
1018	1,775		0,000						
		4,849		0,000	10,00	48,490	28.609,040	0,000	134.027,100
1019	3,074		0,000						
		5,794		0,000	10,00	57,940	28.666,980	0,000	134.027,100
1020	2,720		0,000						
		5,352		0,000	10,00	53,520	28.720,500	0,000	134.027,100
1021	2,632		0,000						
		6,631		0,000	10,00	66,310	28.786,810	0,000	134.027,100
1022	3,999		0,000						
		11,154		0,000	10,00	111,540	28.898,350	0,000	134.027,100
1023	7,155		0,000						
		13,145		0,000	10,00	131,450	29.029,800	0,000	134.027,100
1024	5,990		0,000						
		11,426		0,000	10,00	114,260	29.144,060	0,000	134.027,100
1025	5,436		0,000						
		8,286		0,000	10,00	82,860	29.226,920	0,000	134.027,100
1026	2,850		0,000						
		4,198		0,000	10,00	41,980	29.268,900	0,000	134.027,100
1027	1,348		0,000						
		2,700		0,000	10,00	27,000	29.295,900	0,000	134.027,100
1028	1,352		0,000						
		2,302		0,000	10,00	23,020	29.318,920	0,000	134.027,100
1029	0,950		0,000						
		2,009		0,000	10,00	20,090	29.339,010	0,000	134.027,100
1030	1,059		0,000						
		1,824		0,000	10,00	18,240	29.357,250	0,000	134.027,100
1031	0,765		0,000						
		1,973		0,000	10,00	19,730	29.376,980	0,000	134.027,100
1032	1,208		0,000						
		2,465		0,000	10,00	24,650	29.401,630	0,000	134.027,100
1033	1,257		0,000						
		3,105		0,000	10,00	31,050	29.432,680	0,000	134.027,100
1034	1,848		0,000						
		3,787		0,000	10,00	37,870	29.470,550	0,000	134.027,100
1035	1,939		0,000						
		3,505		0,000	10,00	35,050	29.505,600	0,000	134.027,100
1036	1,566		0,000						
		3,104		0,000	10,00	31,040	29.536,640	0,000	134.027,100
1037	1,538		0,000						
		2,348		0,000	10,00	23,480	29.560,120	0,000	134.027,100
1038	0,810		0,000						
		2,021		0,000	10,00	20,210	29.580,330	0,000	134.027,100
1039	1,211		0,000						
		1,521		1,383	10,00	15,210	29.595,540	13,830	134.040,930
1040	0,310		1,383						
		0,310		5,569	10,00	3,100	29.598,640	55,690	134.096,620
1041	0,000		4,186						
		0,000		9,584	10,00	0,000	29.598,640	95,840	134.192,460
1042	0,000		5,398						
		0,000		17,982	10,00	0,000	29.598,640	179,820	134.372,280
1043	0,000		12,584						
		0,000		24,233	10,00	0,000	29.598,640	242,330	134.614,610
1044	0,000		11,649						
		0,000		20,499	10,00	0,000	29.598,640	204,990	134.819,600

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1045	0,000		8,850						
		0,000		20,982	10,00	0,000	29.598,640	209,820	135.029,420
1046	0,000		12,132						
		0,000		25,493	10,00	0,000	29.598,640	254,930	135.284,350
1047	0,000		13,361						
		0,000		25,167	10,00	0,000	29.598,640	251,670	135.536,020
1048	0,000		11,806						
		0,000		20,967	10,00	0,000	29.598,640	209,670	135.745,690
1049	0,000		9,161						
		0,000		18,940	10,00	0,000	29.598,640	189,400	135.935,090
1050	0,000		9,779						
		0,000		17,385	10,00	0,000	29.598,640	173,850	136.108,940
1051	0,000		7,606						
		0,000		13,656	10,00	0,000	29.598,640	136,560	136.245,500
1052	0,000		6,050						
		0,000		9,456	10,00	0,000	29.598,640	94,560	136.340,060
1053	0,000		3,406						
		0,000		8,369	10,00	0,000	29.598,640	83,690	136.423,750
1054	0,000		4,963						
		0,000		11,012	10,00	0,000	29.598,640	110,120	136.533,870
1055	0,000		6,049						
		0,000		13,655	10,00	0,000	29.598,640	136,550	136.670,420
1056	0,000		7,606						
		0,000		15,989	10,00	0,000	29.598,640	159,890	136.830,310
1057	0,000		8,383						
		0,000		15,196	10,00	0,000	29.598,640	151,960	136.982,270
1058	0,000		6,813						
		0,000		12,539	10,00	0,000	29.598,640	125,390	137.107,660
1059	0,000		5,726						
		0,000		11,778	10,00	0,000	29.598,640	117,780	137.225,440
1060	0,000		6,052						
		0,000		10,078	10,00	0,000	29.598,640	100,780	137.326,220
1061	0,000		4,026						
		0,000		6,807	10,00	0,000	29.598,640	68,070	137.394,290
1062	0,000		2,781						
		0,000		5,207	10,00	0,000	29.598,640	52,070	137.446,360
1063	0,000		2,426						
		0,000		4,929	10,00	0,000	29.598,640	49,290	137.495,650
1064	0,000		2,503						
		1,094		4,198	10,00	10,940	29.609,580	41,980	137.537,630
1065	1,094		1,695						
		3,801		1,695	10,00	38,010	29.647,590	16,950	137.554,580
1066	2,707		0,000						
		8,185		0,000	10,00	81,850	29.729,440	0,000	137.554,580
1067	5,478		0,000						
		9,589		0,000	10,00	95,890	29.825,330	0,000	137.554,580
1068	4,111		0,000						
		6,456		0,000	10,00	64,560	29.889,890	0,000	137.554,580
1069	2,345		0,000						
		4,919		0,000	10,00	49,190	29.939,080	0,000	137.554,580
1070	2,574		0,000						
		3,436		0,000	10,00	34,360	29.973,440	0,000	137.554,580
1071	0,862		0,000						
		1,542		0,000	10,00	15,420	29.988,860	0,000	137.554,580
1072	0,680		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		2,655		0,000	10,00	26,550	30.015,410	0,000	137.554,580
1073	1,975		0,000						
		4,965		0,000	10,00	49,650	30.065,060	0,000	137.554,580
1074	2,990		0,000						
		7,185		0,000	10,00	71,850	30.136,910	0,000	137.554,580
1075	4,195		0,000						
		8,442		0,000	10,00	84,420	30.221,330	0,000	137.554,580
1076	4,247		0,000						
		7,266		0,000	10,00	72,660	30.293,990	0,000	137.554,580
1077	3,019		0,000						
		7,977		0,000	10,00	79,770	30.373,760	0,000	137.554,580
1078	4,958		0,000						
		9,632		0,000	10,00	96,320	30.470,080	0,000	137.554,580
1079	4,674		0,000						
		9,599		0,000	10,00	95,990	30.566,070	0,000	137.554,580
1080	4,925		0,000						
		7,802		0,000	10,00	78,020	30.644,090	0,000	137.554,580
1081	2,877		0,000						
		5,444		0,000	10,00	54,440	30.698,530	0,000	137.554,580
1082	2,567		0,000						
		6,657		0,000	10,00	66,570	30.765,100	0,000	137.554,580
1083	4,090		0,000						
		6,738		0,000	10,00	67,380	30.832,480	0,000	137.554,580
1084	2,648		0,000						
		5,347		0,000	10,00	53,470	30.885,950	0,000	137.554,580
1085	2,699		0,000						
		5,576		0,000	10,00	55,760	30.941,710	0,000	137.554,580
1086	2,877		0,000						
		6,622		0,000	10,00	66,220	31.007,930	0,000	137.554,580
1087	3,745		0,000						
		6,393		0,000	10,00	63,930	31.071,860	0,000	137.554,580
1088	2,648		0,000						
		4,343		0,000	10,00	43,430	31.115,290	0,000	137.554,580
1089	1,695		0,000						
		3,403		0,000	10,00	34,030	31.149,320	0,000	137.554,580
1090	1,708		0,000						
		4,326		0,000	10,00	43,260	31.192,580	0,000	137.554,580
1091	2,618		0,000						
		4,807		0,000	10,00	48,070	31.240,650	0,000	137.554,580
1092	2,189		0,000						
		4,801		0,000	10,00	48,010	31.288,660	0,000	137.554,580
1093	2,612		0,000						
		6,721		0,000	10,00	67,210	31.355,870	0,000	137.554,580
1094	4,109		0,000						
		5,604		0,000	10,00	56,040	31.411,910	0,000	137.554,580
1095	1,495		0,000						
		3,665		0,000	10,00	36,650	31.448,560	0,000	137.554,580
1096	2,170		0,000						
		5,958		0,000	10,00	59,580	31.508,140	0,000	137.554,580
1097	3,788		0,000						
		8,202		0,000	10,00	82,020	31.590,160	0,000	137.554,580
1098	4,414		0,000						
		8,874		0,000	10,00	88,740	31.678,900	0,000	137.554,580
1099	4,460		0,000						
		9,143		0,000	10,00	91,430	31.770,330	0,000	137.554,580

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1100	4,683		0,000						
		8,155		0,000	10,00	81,550	31.851,880	0,000	137.554,580
1101	3,472		0,000						
		6,946		0,000	10,00	69,460	31.921,340	0,000	137.554,580
1102	3,474		0,000						
		6,353		0,000	10,00	63,530	31.984,870	0,000	137.554,580
1103	2,879		0,000						
		5,436		0,000	10,00	54,360	32.039,230	0,000	137.554,580
1104	2,557		0,000						
		4,763		0,000	10,00	47,630	32.086,860	0,000	137.554,580
1105	2,206		0,000						
		4,773		0,000	10,00	47,730	32.134,590	0,000	137.554,580
1106	2,567		0,000						
		4,623		0,000	10,00	46,230	32.180,820	0,000	137.554,580
1107	2,056		0,000						
		4,220		0,000	10,00	42,200	32.223,020	0,000	137.554,580
1108	2,164		0,000						
		4,730		0,637	10,00	47,300	32.270,320	6,370	137.560,950
1109	2,566		0,637						
		3,701		3,606	10,00	37,010	32.307,330	36,060	137.597,010
1110	1,135		2,969						
		1,135		7,929	10,00	11,350	32.318,680	79,290	137.676,300
1111	0,000		4,960						
		0,000		14,169	10,00	0,000	32.318,680	141,690	137.817,990
1112	0,000		9,209						
		0,000		21,013	10,00	0,000	32.318,680	210,130	138.028,120
1113	0,000		11,804						
		0,000		29,371	10,00	0,000	32.318,680	293,710	138.321,830
1114	0,000		17,567						
		0,000		34,036	10,00	0,000	32.318,680	340,360	138.662,190
1115	0,000		16,469						
		0,000		33,718	10,00	0,000	32.318,680	337,180	138.999,370
1116	0,000		17,249						
		0,000		32,944	10,00	0,000	32.318,680	329,440	139.328,810
1117	0,000		15,695						
		0,000		30,862	10,00	0,000	32.318,680	308,620	139.637,430
1118	0,000		15,167						
		0,000		28,376	10,00	0,000	32.318,680	283,760	139.921,190
1119	0,000		13,209						
		0,000		24,858	10,00	0,000	32.318,680	248,580	140.169,770
1120	0,000		11,649						
		0,000		20,499	10,00	0,000	32.318,680	204,990	140.374,760
1121	0,000		8,850						
		0,000		19,257	10,00	0,000	32.318,680	192,570	140.567,330
1122	0,000		10,407						
		0,000		18,840	10,00	0,000	32.318,680	188,400	140.755,730
1123	0,000		8,433						
		0,000		19,400	10,00	0,000	32.318,680	194,000	140.949,730
1124	0,000		10,967						
		0,000		18,443	10,00	0,000	32.318,680	184,430	141.134,160
1125	0,000		7,476						
		0,000		17,911	10,00	0,000	32.318,680	179,110	141.313,270
1126	0,000		10,435						
		0,000		19,157	10,00	0,000	32.318,680	191,570	141.504,840
1127	0,000		8,722						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		19,283	10,00	0,000	32.318,680	192,830	141.697,670
1128	0,000		10,561						
		0,000		21,738	10,00	0,000	32.318,680	217,380	141.915,050
1129	0,000		11,177						
		0,000		22,826	10,00	0,000	32.318,680	228,260	142.143,310
1130	0,000		11,649						
		0,000		21,433	10,00	0,000	32.318,680	214,330	142.357,640
1131	0,000		9,784						
		0,000		22,993	10,00	0,000	32.318,680	229,930	142.587,570
1132	0,000		13,209						
		0,000		24,858	10,00	0,000	32.318,680	248,580	142.836,150
1133	0,000		11,649						
		0,000		25,320	10,00	0,000	32.318,680	253,200	143.089,350
1134	0,000		13,671						
		0,000		25,817	10,00	0,000	32.318,680	258,170	143.347,520
1135	0,000		12,146						
		0,000		22,714	10,00	0,000	32.318,680	227,140	143.574,660
1136	0,000		10,568						
		0,000		23,781	10,00	0,000	32.318,680	237,810	143.812,470
1137	0,000		13,213						
		0,000		30,619	10,00	0,000	32.318,680	306,190	144.118,660
1138	0,000		17,406						
		0,000		33,970	10,00	0,000	32.318,680	339,700	144.458,360
1139	0,000		16,564						
		0,000		30,002	10,00	0,000	32.318,680	300,020	144.758,380
1140	0,000		13,438						
		0,000		25,251	10,00	0,000	32.318,680	252,510	145.010,890
1141	0,000		11,813						
		0,000		23,447	10,00	0,000	32.318,680	234,470	145.245,360
1142	0,000		11,634						
		0,000		23,283	10,00	0,000	32.318,680	232,830	145.478,190
1143	0,000		11,649						
		0,000		22,681	10,00	0,000	32.318,680	226,810	145.705,000
1144	0,000		11,032						
		0,000		20,584	10,00	0,000	32.318,680	205,840	145.910,840
1145	0,000		9,552						
		0,000		19,259	10,00	0,000	32.318,680	192,590	146.103,430
1146	0,000		9,707						
		0,000		17,157	10,00	0,000	32.318,680	171,570	146.275,000
1147	0,000		7,450						
		0,000		14,186	10,00	0,000	32.318,680	141,860	146.416,860
1148	0,000		6,736						
		0,000		13,206	10,00	0,000	32.318,680	132,060	146.548,920
1149	0,000		6,470						
		0,000		14,083	10,00	0,000	32.318,680	140,830	146.689,750
1150	0,000		7,613						
		0,000		14,348	10,00	0,000	32.318,680	143,480	146.833,230
1151	0,000		6,735						
		0,000		12,521	10,00	0,000	32.318,680	125,210	146.958,440
1152	0,000		5,786						
		0,000		10,701	10,00	0,000	32.318,680	107,010	147.065,450
1153	0,000		4,915						
		0,000		10,358	10,00	0,000	32.318,680	103,580	147.169,030
1154	0,000		5,443						
		0,000		8,693	10,00	0,000	32.318,680	86,930	147.255,960

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1155	0,000		3,250						
		0,000		4,974	10,00	0,000	32.318,680	49,740	147.305,700
1156	0,000		1,724						
		0,000		7,073	10,00	0,000	32.318,680	70,730	147.376,430
1157	0,000		5,349						
		0,000		14,510	10,00	0,000	32.318,680	145,100	147.521,530
1158	0,000		9,161						
		0,000		21,733	10,00	0,000	32.318,680	217,330	147.738,860
1159	0,000		12,572						
		0,000		25,776	10,00	0,000	32.318,680	257,760	147.996,620
1160	0,000		13,204						
		0,000		28,585	10,00	0,000	32.318,680	285,850	148.282,470
1161	0,000		15,381						
		0,000		29,861	10,00	0,000	32.318,680	298,610	148.581,080
1162	0,000		14,480						
		0,000		26,562	10,00	0,000	32.318,680	265,620	148.846,700
1163	0,000		12,082						
		0,000		25,142	10,00	0,000	32.318,680	251,420	149.098,120
1164	0,000		13,060						
		0,000		21,215	10,00	0,000	32.318,680	212,150	149.310,270
1165	0,000		8,155						
		0,000		16,317	10,00	0,000	32.318,680	163,170	149.473,440
1166	0,000		8,162						
		0,000		17,323	10,00	0,000	32.318,680	173,230	149.646,670
1167	0,000		9,161						
		0,000		21,278	10,00	0,000	32.318,680	212,780	149.859,450
1168	0,000		12,117						
		0,000		22,521	10,00	0,000	32.318,680	225,210	150.084,660
1169	0,000		10,404						
		0,000		22,880	10,00	0,000	32.318,680	228,800	150.313,460
1170	0,000		12,476						
		0,000		24,125	10,00	0,000	32.318,680	241,250	150.554,710
1171	0,000		11,649						
		0,000		22,084	10,00	0,000	32.318,680	220,840	150.775,550
1172	0,000		10,435						
		0,000		22,084	10,00	0,000	32.318,680	220,840	150.996,390
1173	0,000		11,649						
		0,000		20,499	10,00	0,000	32.318,680	204,990	151.201,380
1174	0,000		8,850						
		0,000		19,257	10,00	0,000	32.318,680	192,570	151.393,950
1175	0,000		10,407						
		0,000		18,840	10,00	0,000	32.318,680	188,400	151.582,350
1176	0,000		8,433						
		0,000		19,400	10,00	0,000	32.318,680	194,000	151.776,350
1177	0,000		10,967						
		0,000		22,489	10,00	0,000	32.318,680	224,890	152.001,240
1178	0,000		11,522						
		0,000		21,957	10,00	0,000	32.318,680	219,570	152.220,810
1179	0,000		10,435						
		0,000		23,021	10,00	0,000	32.318,680	230,210	152.451,020
1180	0,000		12,586						
		0,000		21,436	10,00	0,000	32.318,680	214,360	152.665,380
1181	0,000		8,850						
		0,000		16,298	10,00	0,000	32.318,680	162,980	152.828,360
1182	0,000		7,448						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		15,724	10,00	0,000	32.318,680	157,240	152.985,600
1183	0,000		8,276						
		0,000		13,236	10,00	0,000	32.318,680	132,360	153.117,960
1184	0,000		4,960						
		0,000		10,607	10,00	0,000	32.318,680	106,070	153.224,030
1185	0,000		5,647						
		0,000		13,904	10,00	0,000	32.318,680	139,040	153.363,070
1186	0,000		8,257						
		0,000		18,825	10,00	0,000	32.318,680	188,250	153.551,320
1187	0,000		10,568						
		0,000		23,614	10,00	0,000	32.318,680	236,140	153.787,460
1188	0,000		13,046						
		0,000		24,862	10,00	0,000	32.318,680	248,620	154.036,080
1189	0,000		11,816						
		0,000		25,008	10,00	0,000	32.318,680	250,080	154.286,160
1190	0,000		13,192						
		0,000		24,978	10,00	0,000	32.318,680	249,780	154.535,940
1191	0,000		11,786						
		0,000		25,070	10,00	0,000	32.318,680	250,700	154.786,640
1192	0,000		13,284						
		0,000		30,770	10,00	0,000	32.318,680	307,700	155.094,340
1193	0,000		17,486						
		0,000		37,006	10,00	0,000	32.318,680	370,060	155.464,400
1194	0,000		19,520						
		0,000		37,483	10,00	0,000	32.318,680	374,830	155.839,230
1195	0,000		17,963						
		0,000		32,101	10,00	0,000	32.318,680	321,010	156.160,240
1196	0,000		14,138						
		0,000		27,342	10,00	0,000	32.318,680	273,420	156.433,660
1197	0,000		13,204						
		0,000		25,696	10,00	0,000	32.318,680	256,960	156.690,620
1198	0,000		12,492						
		0,000		20,407	10,00	0,000	32.318,680	204,070	156.894,690
1199	0,000		7,915						
		2,163		12,092	10,00	21,630	32.340,310	120,920	157.015,610
1200	2,163		4,177						
		4,019		4,177	10,00	40,190	32.380,500	41,770	157.057,380
1201	1,856		0,000						
		4,331		0,000	10,00	43,310	32.423,810	0,000	157.057,380
1202	2,475		0,000						
		5,261		0,000	10,00	52,610	32.476,420	0,000	157.057,380
1203	2,786		0,000						
		5,390		0,000	10,00	53,900	32.530,320	0,000	157.057,380
1204	2,604		0,000						
		5,409		0,000	10,00	54,090	32.584,410	0,000	157.057,380
1205	2,805		0,000						
		5,400		0,000	10,00	54,000	32.638,410	0,000	157.057,380
1206	2,595		0,000						
		5,430		0,000	10,00	54,300	32.692,710	0,000	157.057,380
1207	2,835		0,000						
		5,548		0,000	10,00	55,480	32.748,190	0,000	157.057,380
1208	2,713		0,000						
		5,167		0,000	10,00	51,670	32.799,860	0,000	157.057,380
1209	2,454		0,000						
		4,642		0,000	10,00	46,420	32.846,280	0,000	157.057,380

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1210	2,188		0,000						
		3,912		0,000	10,00	39,120	32.885,400	0,000	157.057,380
1211	1,724		0,000						
		3,703		0,000	10,00	37,030	32.922,430	0,000	157.057,380
1212	1,979		0,000						
		3,516		0,000	10,00	35,160	32.957,590	0,000	157.057,380
1213	1,537		0,000						
		2,918		0,000	10,00	29,180	32.986,770	0,000	157.057,380
1214	1,381		0,000						
		2,869		0,000	10,00	28,690	33.015,460	0,000	157.057,380
1215	1,488		0,000						
		3,289		0,000	10,00	32,890	33.048,350	0,000	157.057,380
1216	1,801		0,000						
		3,286		0,000	10,00	32,860	33.081,210	0,000	157.057,380
1217	1,485		0,000						
		2,777		0,000	10,00	27,770	33.108,980	0,000	157.057,380
1218	1,292		0,000						
		2,645		0,000	10,00	26,450	33.135,430	0,000	157.057,380
1219	1,353		0,000						
		2,407		0,000	10,00	24,070	33.159,500	0,000	157.057,380
1220	1,054		0,000						
		1,821		0,000	10,00	18,210	33.177,710	0,000	157.057,380
1221	0,767		0,000						
		1,119		0,000	10,00	11,190	33.188,900	0,000	157.057,380
1222	0,352		0,000						
		0,422		0,000	10,00	4,220	33.193,120	0,000	157.057,380
1223	0,070		0,000						
		2,049		0,000	10,00	20,490	33.213,610	0,000	157.057,380
1224	1,979		0,000						
		3,516		0,000	10,00	35,160	33.248,770	0,000	157.057,380
1225	1,537		0,000						
		2,918		0,000	10,00	29,180	33.277,950	0,000	157.057,380
1226	1,381		0,000						
		2,869		0,000	10,00	28,690	33.306,640	0,000	157.057,380
1227	1,488		0,000						
		3,289		0,000	10,00	32,890	33.339,530	0,000	157.057,380
1228	1,801		0,000						
		3,286		0,000	10,00	32,860	33.372,390	0,000	157.057,380
1229	1,485		0,000						
		2,777		0,000	10,00	27,770	33.400,160	0,000	157.057,380
1230	1,292		0,000						
		2,645		0,000	10,00	26,450	33.426,610	0,000	157.057,380
1231	1,353		0,000						
		2,407		0,000	10,00	24,070	33.450,680	0,000	157.057,380
1232	1,054		0,000						
		2,252		0,000	10,00	22,520	33.473,200	0,000	157.057,380
1233	1,198		0,000						
		3,207		0,000	10,00	32,070	33.505,270	0,000	157.057,380
1234	2,009		0,000						
		3,336		0,000	10,00	33,360	33.538,630	0,000	157.057,380
1235	1,327		0,000						
		3,704		0,000	10,00	37,040	33.575,670	0,000	157.057,380
1236	2,377		0,000						
		3,544		0,000	10,00	35,440	33.611,110	0,000	157.057,380
1237	1,167		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		3,332		0,000	10,00	33,320	33.644,430	0,000	157.057,380
1238	2,165		0,000						
		3,595		4,106	10,00	35,950	33.680,380	41,060	157.098,440
1239	1,430		4,106						
		2,067		15,042	10,00	20,670	33.701,050	150,420	157.248,860
1240	0,637		10,936						
		0,637		22,665	10,00	6,370	33.707,420	226,650	157.475,510
1241	0,000		11,729						
		0,000		22,805	10,00	0,000	33.707,420	228,050	157.703,560
1242	0,000		11,076						
		0,000		20,062	10,00	0,000	33.707,420	200,620	157.904,180
1243	0,000		8,986						
		0,000		12,502	10,00	0,000	33.707,420	125,020	158.029,200
1244	0,000		3,516						
		0,910		7,342	10,00	9,100	33.716,520	73,420	158.102,620
1245	0,910		3,826						
		3,973		3,826	10,00	39,730	33.756,250	38,260	158.140,880
1246	3,063		0,000						
		5,630		0,000	10,00	56,300	33.812,550	0,000	158.140,880
1247	2,567		0,000						
		6,531		0,000	10,00	65,310	33.877,860	0,000	158.140,880
1248	3,964		0,000						
		6,407		0,000	10,00	64,070	33.941,930	0,000	158.140,880
1249	2,443		0,000						
		5,408		0,000	10,00	54,080	33.996,010	0,000	158.140,880
1250	2,965		0,000						
		6,682		0,000	10,00	66,820	34.062,830	0,000	158.140,880
1251	3,717		0,000						
		6,216		0,000	10,00	62,160	34.124,990	0,000	158.140,880
1252	2,499		0,000						
		4,972		0,000	10,00	49,720	34.174,710	0,000	158.140,880
1253	2,473		0,000						
		4,487		0,000	10,00	44,870	34.219,580	0,000	158.140,880
1254	2,014		0,000						
		4,961		0,000	10,00	49,610	34.269,190	0,000	158.140,880
1255	2,947		0,000						
		5,954		0,000	10,00	59,540	34.328,730	0,000	158.140,880
1256	3,007		0,000						
		4,947		0,000	10,00	49,470	34.378,200	0,000	158.140,880
1257	1,940		0,000						
		3,494		0,000	10,00	34,940	34.413,140	0,000	158.140,880
1258	1,554		0,000						
		3,367		0,000	10,00	33,670	34.446,810	0,000	158.140,880
1259	1,813		0,000						
		3,836		2,611	10,00	38,360	34.485,170	26,110	158.166,990
1260	2,023		2,611						
		2,023		7,823	10,00	20,230	34.505,400	78,230	158.245,220
1261	0,000		5,212						
		0,000		14,295	10,00	0,000	34.505,400	142,950	158.388,170
1262	0,000		9,083						
		0,000		16,519	10,00	0,000	34.505,400	165,190	158.553,360
1263	0,000		7,436						
		0,000		14,408	10,00	0,000	34.505,400	144,080	158.697,440
1264	0,000		6,972						
		0,000		9,002	10,00	0,000	34.505,400	90,020	158.787,460

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1265	0,000		2,030						
		0,000		5,948	10,00	0,000	34.505,400	59,480	158.846,940
1266	0,000		3,918						
		0,000		13,548	10,00	0,000	34.505,400	135,480	158.982,420
1267	0,000		9,630						
		0,000		20,051	10,00	0,000	34.505,400	200,510	159.182,930
1268	0,000		10,421						
		0,000		23,539	10,00	0,000	34.505,400	235,390	159.418,320
1269	0,000		13,118						
		0,000		26,153	10,00	0,000	34.505,400	261,530	159.679,850
1270	0,000		13,035						
		0,000		21,701	10,00	0,000	34.505,400	217,010	159.896,860
1271	0,000		8,666						
		0,000		14,732	10,00	0,000	34.505,400	147,320	160.044,180
1272	0,000		6,066						
		0,000		10,532	10,00	0,000	34.505,400	105,320	160.149,500
1273	0,000		4,466						
		0,000		6,924	10,00	0,000	34.505,400	69,240	160.218,740
1274	0,000		2,458						
		0,170		3,187	10,00	1,700	34.507,100	31,870	160.250,610
1275	0,170		0,729						
		2,358		0,729	10,00	23,580	34.530,680	7,290	160.257,900
1276	2,188		0,000						
		6,362		0,000	10,00	63,620	34.594,300	0,000	160.257,900
1277	4,174		0,000						
		9,261		0,000	10,00	92,610	34.686,910	0,000	160.257,900
1278	5,087		0,000						
		10,454		0,000	10,00	104,540	34.791,450	0,000	160.257,900
1279	5,367		0,000						
		8,339		0,000	10,00	83,390	34.874,840	0,000	160.257,900
1280	2,972		0,000						
		7,530		0,000	10,00	75,300	34.950,140	0,000	160.257,900
1281	4,558		0,000						
		10,918		0,000	10,00	109,180	35.059,320	0,000	160.257,900
1282	6,360		0,000						
		9,843		0,000	10,00	98,430	35.157,750	0,000	160.257,900
1283	3,483		0,000						
		6,514		0,000	10,00	65,140	35.222,890	0,000	160.257,900
1284	3,031		0,000						
		6,967		0,000	10,00	69,670	35.292,560	0,000	160.257,900
1285	3,936		0,000						
		6,491		0,000	10,00	64,910	35.357,470	0,000	160.257,900
1286	2,555		0,000						
		4,261		0,000	10,00	42,610	35.400,080	0,000	160.257,900
1287	1,706		0,000						
		3,152		0,000	10,00	31,520	35.431,600	0,000	160.257,900
1288	1,446		0,000						
		2,582		0,000	10,00	25,820	35.457,420	0,000	160.257,900
1289	1,136		0,000						
		1,742		6,986	10,00	17,420	35.474,840	69,860	160.327,760
1290	0,606		6,986						
		0,606		14,590	10,00	6,060	35.480,900	145,900	160.473,660
1291	0,000		7,604						
		0,000		18,781	10,00	0,000	35.480,900	187,810	160.661,470
1292	0,000		11,177						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		24,384	10,00	0,000	35.480,900	243,840	160.905,310
1293	0,000		13,207						
		0,000		29,055	10,00	0,000	35.480,900	290,550	161.195,860
1294	0,000		15,848						
		0,000		30,794	10,00	0,000	35.480,900	307,940	161.503,800
1295	0,000		14,946						
		0,000		31,901	10,00	0,000	35.480,900	319,010	161.822,810
1296	0,000		16,955						
		0,000		30,035	10,00	0,000	35.480,900	300,350	162.123,160
1297	0,000		13,080						
		0,000		27,715	10,00	0,000	35.480,900	277,150	162.400,310
1298	0,000		14,635						
		0,000		31,885	10,00	0,000	35.480,900	318,850	162.719,160
1299	0,000		17,250						
		0,000		31,699	10,00	0,000	35.480,900	316,990	163.036,150
1300	0,000		14,449						
		0,000		27,840	10,00	0,000	35.480,900	278,400	163.314,550
1301	0,000		13,391						
		0,000		26,471	10,00	0,000	35.480,900	264,710	163.579,260
1302	0,000		13,080						
		0,000		26,315	10,00	0,000	35.480,900	263,150	163.842,410
1303	0,000		13,235						
		0,000		27,842	10,00	0,000	35.480,900	278,420	164.120,830
1304	0,000		14,607						
		0,000		25,784	10,00	0,000	35.480,900	257,840	164.378,670
1305	0,000		11,177						
		0,000		22,826	10,00	0,000	35.480,900	228,260	164.606,930
1306	0,000		11,649						
		0,000		20,499	10,00	0,000	35.480,900	204,990	164.811,920
1307	0,000		8,850						
		0,000		19,257	10,00	0,000	35.480,900	192,570	165.004,490
1308	0,000		10,407						
		0,000		19,567	10,00	0,000	35.480,900	195,670	165.200,160
1309	0,000		9,160						
		0,000		20,127	10,00	0,000	35.480,900	201,270	165.401,430
1310	0,000		10,967						
		0,000		18,443	10,00	0,000	35.480,900	184,430	165.585,860
1311	0,000		7,476						
		0,000		15,723	10,00	0,000	35.480,900	157,230	165.743,090
1312	0,000		8,247						
		0,000		15,693	10,00	0,000	35.480,900	156,930	165.900,020
1313	0,000		7,446						
		0,000		13,370	10,00	0,000	35.480,900	133,700	166.033,720
1314	0,000		5,924						
		0,000		9,144	10,00	0,000	35.480,900	91,440	166.125,160
1315	0,000		3,220						
		0,000		5,348	10,00	0,000	35.480,900	53,480	166.178,640
1316	0,000		2,128						
		0,000		2,611	10,00	0,000	35.480,900	26,110	166.204,750
1317	0,000		0,483						
		0,450		0,887	10,00	4,500	35.485,400	8,870	166.213,620
1318	0,450		0,404						
		3,018		0,404	10,00	30,180	35.515,580	4,040	166.217,660
1319	2,568		0,000						
		4,424		0,000	10,00	44,240	35.559,820	0,000	166.217,660

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1320	1,856		0,000						
		4,331		0,000	10,00	43,310	35.603,130	0,000	166.217,660
1321	2,475		0,000						
		5,261		0,000	10,00	52,610	35.655,740	0,000	166.217,660
1322	2,786		0,000						
		5,390		0,000	10,00	53,900	35.709,640	0,000	166.217,660
1323	2,604		0,000						
		5,222		0,000	10,00	52,220	35.761,860	0,000	166.217,660
1324	2,618		0,000						
		5,213		0,000	10,00	52,130	35.813,990	0,000	166.217,660
1325	2,595		0,000						
		5,430		0,000	10,00	54,300	35.868,290	0,000	166.217,660
1326	2,835		0,000						
		5,548		0,000	10,00	55,480	35.923,770	0,000	166.217,660
1327	2,713		0,000						
		5,167		0,000	10,00	51,670	35.975,440	0,000	166.217,660
1328	2,454		0,000						
		4,649		0,000	10,00	46,490	36.021,930	0,000	166.217,660
1329	2,195		0,000						
		3,919		0,000	10,00	39,190	36.061,120	0,000	166.217,660
1330	1,724		0,000						
		3,703		0,000	10,00	37,030	36.098,150	0,000	166.217,660
1331	1,979		0,000						
		3,674		0,000	10,00	36,740	36.134,890	0,000	166.217,660
1332	1,695		0,000						
		3,571		0,000	10,00	35,710	36.170,600	0,000	166.217,660
1333	1,876		0,000						
		3,364		0,000	10,00	33,640	36.204,240	0,000	166.217,660
1334	1,488		0,000						
		3,289		0,000	10,00	32,890	36.237,130	0,000	166.217,660
1335	1,801		0,000						
		3,252		0,000	10,00	32,520	36.269,650	0,000	166.217,660
1336	1,451		0,000						
		2,989		0,000	10,00	29,890	36.299,540	0,000	166.217,660
1337	1,538		0,000						
		2,891		0,000	10,00	28,910	36.328,450	0,000	166.217,660
1338	1,353		0,000						
		2,407		0,000	10,00	24,070	36.352,520	0,000	166.217,660
1339	1,054		0,000						
		2,066		0,000	10,00	20,660	36.373,180	0,000	166.217,660
1340	1,012		0,000						
		1,611		0,000	10,00	16,110	36.389,290	0,000	166.217,660
1341	0,599		0,000						
		1,702		0,000	10,00	17,020	36.406,310	0,000	166.217,660
1342	1,103		0,000						
		2,549		0,000	10,00	25,490	36.431,800	0,000	166.217,660
1343	1,446		0,000						
		2,829		0,000	10,00	28,290	36.460,090	0,000	166.217,660
1344	1,383		0,000						
		2,813		0,000	10,00	28,130	36.488,220	0,000	166.217,660
1345	1,430		0,000						
		2,918		0,000	10,00	29,180	36.517,400	0,000	166.217,660
1346	1,488		0,000						
		3,289		0,000	10,00	32,890	36.550,290	0,000	166.217,660
1347	1,801		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		3,286		0,000	10,00	32,860	36.583,150	0,000	166.217,660
1348	1,485		0,000						
		2,777		0,000	10,00	27,770	36.610,920	0,000	166.217,660
1349	1,292		0,000						
		2,731		0,000	10,00	27,310	36.638,230	0,000	166.217,660
1350	1,439		0,000						
		2,715		0,000	10,00	27,150	36.665,380	0,000	166.217,660
1351	1,276		0,000						
		2,474		0,000	10,00	24,740	36.690,120	0,000	166.217,660
1352	1,198		0,000						
		3,207		0,000	10,00	32,070	36.722,190	0,000	166.217,660
1353	2,009		0,000						
		3,336		0,000	10,00	33,360	36.755,550	0,000	166.217,660
1354	1,327		0,000						
		3,704		0,000	10,00	37,040	36.792,590	0,000	166.217,660
1355	2,377		0,000						
		3,544		0,000	10,00	35,440	36.828,030	0,000	166.217,660
1356	1,167		0,000						
		3,332		0,000	10,00	33,320	36.861,350	0,000	166.217,660
1357	2,165		0,000						
		3,595		0,000	10,00	35,950	36.897,300	0,000	166.217,660
1358	1,430		0,000						
		2,067		0,000	10,00	20,670	36.917,970	0,000	166.217,660
1359	0,637		0,000						
		2,125		0,000	10,00	21,250	36.939,220	0,000	166.217,660
1360	1,488		0,000						
		3,289		0,000	10,00	32,890	36.972,110	0,000	166.217,660
1361	1,801		0,000						
		3,286		0,000	10,00	32,860	37.004,970	0,000	166.217,660
1362	1,485		0,000						
		2,777		0,000	10,00	27,770	37.032,740	0,000	166.217,660
1363	1,292		0,000						
		2,645		0,000	10,00	26,450	37.059,190	0,000	166.217,660
1364	1,353		0,000						
		2,876		0,000	10,00	28,760	37.087,950	0,000	166.217,660
1365	1,523		0,000						
		2,778		0,000	10,00	27,780	37.115,730	0,000	166.217,660
1366	1,255		0,000						
		3,616		0,000	10,00	36,160	37.151,890	0,000	166.217,660
1367	2,361		0,000						
		5,315		0,000	10,00	53,150	37.205,040	0,000	166.217,660
1368	2,954		0,000						
		4,680		0,000	10,00	46,800	37.251,840	0,000	166.217,660
1369	1,726		0,000						
		4,010		0,000	10,00	40,100	37.291,940	0,000	166.217,660
1370	2,284		0,000						
		4,164		0,000	10,00	41,640	37.333,580	0,000	166.217,660
1371	1,880		0,000						
		2,333		0,000	10,00	23,330	37.356,910	0,000	166.217,660
1372	0,453		0,000						
		1,356		0,000	10,00	13,560	37.370,470	0,000	166.217,660
1373	0,903		0,000						
		1,864		0,000	10,00	18,640	37.389,110	0,000	166.217,660
1374	0,961		0,000						
		1,441		2,784	10,00	14,410	37.403,520	27,840	166.245,500

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1375	0,480		2,784						
		0,480		9,596	10,00	4,800	37.408,320	95,960	166.341,460
1376	0,000		6,812						
		0,000		16,364	10,00	0,000	37.408,320	163,640	166.505,100
1377	0,000		9,552						
		0,000		19,228	10,00	0,000	37.408,320	192,280	166.697,380
1378	0,000		9,676						
		0,000		21,559	10,00	0,000	37.408,320	215,590	166.912,970
1379	0,000		11,883						
		0,000		22,819	10,00	0,000	37.408,320	228,190	167.141,160
1380	0,000		10,936						
		0,000		24,002	10,00	0,000	37.408,320	240,020	167.381,180
1381	0,000		13,066						
		0,000		16,020	10,00	0,000	37.408,320	160,200	167.541,380
1382	0,000		2,954						
		0,000		4,680	10,00	0,000	37.408,320	46,800	167.588,180
1383	0,000		1,726						
		0,000		2,423	10,00	0,000	37.408,320	24,230	167.612,410
1384	0,000		0,697						
		0,000		0,943	10,00	0,000	37.408,320	9,430	167.621,840
1385	0,000		0,246						
		0,000		0,699	10,00	0,000	37.408,320	6,990	167.628,830
1386	0,000		0,453						
		0,000		4,420	10,00	0,000	37.408,320	44,200	167.673,030
1387	0,000		3,967						
		0,000		12,199	10,00	0,000	37.408,320	121,990	167.795,020
1388	0,000		8,232						
		0,000		19,419	10,00	0,000	37.408,320	194,190	167.989,210
1389	0,000		11,187						
		0,000		25,086	10,00	0,000	37.408,320	250,860	168.240,070
1390	0,000		13,899						
		0,000		29,062	10,00	0,000	37.408,320	290,620	168.530,690
1391	0,000		15,163						
		0,000		30,546	10,00	0,000	37.408,320	305,460	168.836,150
1392	0,000		15,383						
		0,000		29,707	10,00	0,000	37.408,320	297,070	169.133,220
1393	0,000		14,324						
		0,000		25,986	10,00	0,000	37.408,320	259,860	169.393,080
1394	0,000		11,662						
		0,000		19,159	10,00	0,000	37.408,320	191,590	169.584,670
1395	0,000		7,497						
		0,000		10,297	10,00	0,000	37.408,320	102,970	169.687,640
1396	0,000		2,800						
		0,000		16,191	10,00	0,000	37.408,320	161,910	169.849,550
1397	0,000		13,391						
		0,000		26,471	10,00	0,000	37.408,320	264,710	170.114,260
1398	0,000		13,080						
		0,000		27,607	10,00	0,000	37.408,320	276,070	170.390,330
1399	0,000		14,527						
		0,000		29,134	10,00	0,000	37.408,320	291,340	170.681,670
1400	0,000		14,607						
		0,000		32,790	10,00	0,000	37.408,320	327,900	171.009,570
1401	0,000		18,183						
		0,000		36,149	10,00	0,000	37.408,320	361,490	171.371,060
1402	0,000		17,966						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		34,529	10,00	0,000	37.408,320	345,290	171.716,350
1403	0,000		16,563						
		0,000		31,657	10,00	0,000	37.408,320	316,570	172.032,920
1404	0,000		15,094						
		0,000		26,058	10,00	0,000	37.408,320	260,580	172.293,500
1405	0,000		10,964						
		0,000		19,392	10,00	0,000	37.408,320	193,920	172.487,420
1406	0,000		8,428						
		0,000		15,409	10,00	0,000	37.408,320	154,090	172.641,510
1407	0,000		6,981						
		0,000		11,368	10,00	0,000	37.408,320	113,680	172.755,190
1408	0,000		4,387						
		0,000		8,462	10,00	0,000	37.408,320	84,620	172.839,810
1409	0,000		4,075						
		1,167		6,959	10,00	11,670	37.419,990	69,590	172.909,400
1410	1,167		2,884						
		4,149		2,884	10,00	41,490	37.461,480	28,840	172.938,240
1411	2,982		0,000						
		8,192		0,000	10,00	81,920	37.543,400	0,000	172.938,240
1412	5,210		0,000						
		11,885		0,000	10,00	118,850	37.662,250	0,000	172.938,240
1413	6,675		0,000						
		13,367		0,000	10,00	133,670	37.795,920	0,000	172.938,240
1414	6,692		0,000						
		14,918		0,000	10,00	149,180	37.945,100	0,000	172.938,240
1415	8,226		0,000						
		13,624		0,000	10,00	136,240	38.081,340	0,000	172.938,240
1416	5,398		0,000						
		11,136		0,000	10,00	111,360	38.192,700	0,000	172.938,240
1417	5,738		0,000						
		13,060		0,000	10,00	130,600	38.323,300	0,000	172.938,240
1418	7,322		0,000						
		16,326		0,000	10,00	163,260	38.486,560	0,000	172.938,240
1419	9,004		0,000						
		16,454		0,000	10,00	164,540	38.651,100	0,000	172.938,240
1420	7,450		0,000						
		12,441		0,000	10,00	124,410	38.775,510	0,000	172.938,240
1421	4,991		0,000						
		9,002		0,000	10,00	90,020	38.865,530	0,000	172.938,240
1422	4,011		0,000						
		8,057		0,000	10,00	80,570	38.946,100	0,000	172.938,240
1423	4,046		0,000						
		8,261		0,000	10,00	82,610	39.028,710	0,000	172.938,240
1424	4,215		0,000						
		7,538		0,000	10,00	75,380	39.104,090	0,000	172.938,240
1425	3,323		0,000						
		5,045		0,000	10,00	50,450	39.154,540	0,000	172.938,240
1426	1,722		0,000						
		3,094		0,000	10,00	30,940	39.185,480	0,000	172.938,240
1427	1,372		0,000						
		2,133		0,000	10,00	21,330	39.206,810	0,000	172.938,240
1428	0,761		0,000						
		1,211		0,000	10,00	12,110	39.218,920	0,000	172.938,240
1429	0,450		0,000						
		0,856		3,515	10,00	8,560	39.227,480	35,150	172.973,390

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1430	0,406		3,515						
		0,406		10,407	10,00	4,060	39.231,540	104,070	173.077,460
1431	0,000		6,892						
		0,000		16,535	10,00	0,000	39.231,540	165,350	173.242,810
1432	0,000		9,643						
		0,000		27,606	10,00	0,000	39.231,540	276,060	173.518,870
1433	0,000		17,963						
		0,000		37,158	10,00	0,000	39.231,540	371,580	173.890,450
1434	0,000		19,195						
		0,000		39,975	10,00	0,000	39.231,540	399,750	174.290,200
1435	0,000		20,780						
		0,000		36,628	10,00	0,000	39.231,540	366,280	174.656,480
1436	0,000		15,848						
		0,000		30,794	10,00	0,000	39.231,540	307,940	174.964,420
1437	0,000		14,946						
		0,000		31,901	10,00	0,000	39.231,540	319,010	175.283,430
1438	0,000		16,955						
		0,000		30,035	10,00	0,000	39.231,540	300,350	175.583,780
1439	0,000		13,080						
		0,000		27,715	10,00	0,000	39.231,540	277,150	175.860,930
1440	0,000		14,635						
		0,000		31,885	10,00	0,000	39.231,540	318,850	176.179,780
1441	0,000		17,250						
		0,000		31,699	10,00	0,000	39.231,540	316,990	176.496,770
1442	0,000		14,449						
		0,000		27,840	10,00	0,000	39.231,540	278,400	176.775,170
1443	0,000		13,391						
		0,000		26,471	10,00	0,000	39.231,540	264,710	177.039,880
1444	0,000		13,080						
		0,000		26,315	10,00	0,000	39.231,540	263,150	177.303,030
1445	0,000		13,235						
		0,000		27,842	10,00	0,000	39.231,540	278,420	177.581,450
1446	0,000		14,607						
		0,000		25,784	10,00	0,000	39.231,540	257,840	177.839,290
1447	0,000		11,177						
		0,000		22,826	10,00	0,000	39.231,540	228,260	178.067,550
1448	0,000		11,649						
		0,000		20,499	10,00	0,000	39.231,540	204,990	178.272,540
1449	0,000		8,850						
		0,000		19,257	10,00	0,000	39.231,540	192,570	178.465,110
1450	0,000		10,407						
		0,000		28,370	10,00	0,000	39.231,540	283,700	178.748,810
1451	0,000		17,963						
		0,000		37,158	10,00	0,000	39.231,540	371,580	179.120,390
1452	0,000		19,195						
		0,000		39,975	10,00	0,000	39.231,540	399,750	179.520,140
1453	0,000		20,780						
		0,000		36,628	10,00	0,000	39.231,540	366,280	179.886,420
1454	0,000		15,848						
		0,000		30,794	10,00	0,000	39.231,540	307,940	180.194,360
1455	0,000		14,946						
		0,000		31,901	10,00	0,000	39.231,540	319,010	180.513,370
1456	0,000		16,955						
		0,000		30,035	10,00	0,000	39.231,540	300,350	180.813,720
1457	0,000		13,080						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		27,715	10,00	0,000	39.231,540	277,150	181.090,870
1458	0,000		14,635						
		0,000		31,885	10,00	0,000	39.231,540	318,850	181.409,720
1459	0,000		17,250						
		0,000		31,699	10,00	0,000	39.231,540	316,990	181.726,710
1460	0,000		14,449						
		0,000		25,413	10,00	0,000	39.231,540	254,130	181.980,840
1461	0,000		10,964						
		0,000		19,392	10,00	0,000	39.231,540	193,920	182.174,760
1462	0,000		8,428						
		0,000		15,409	10,00	0,000	39.231,540	154,090	182.328,850
1463	0,000		6,981						
		0,000		11,368	10,00	0,000	39.231,540	113,680	182.442,530
1464	0,000		4,387						
		0,000		8,462	10,00	0,000	39.231,540	84,620	182.527,150
1465	0,000		4,075						
		0,000		9,579	10,00	0,000	39.231,540	95,790	182.622,940
1466	0,000		5,504						
		0,000		8,458	10,00	0,000	39.231,540	84,580	182.707,520
1467	0,000		2,954						
		0,000		8,432	10,00	0,000	39.231,540	84,320	182.791,840
1468	0,000		5,478						
		0,000		9,554	10,00	0,000	39.231,540	95,540	182.887,380
1469	0,000		4,076						
		0,000		6,702	10,00	0,000	39.231,540	67,020	182.954,400
1470	0,000		2,626						
		0,000		5,284	10,00	0,000	39.231,540	52,840	183.007,240
1471	0,000		2,658						
		0,000		4,009	10,00	0,000	39.231,540	40,090	183.047,330
1472	0,000		1,351						
		0,000		2,578	10,00	0,000	39.231,540	25,780	183.073,110
1473	0,000		1,227						
		0,000		1,598	10,00	0,000	39.231,540	15,980	183.089,090
1474	0,000		0,371						
		0,000		0,831	10,00	0,000	39.231,540	8,310	183.097,400
1475	0,000		0,460						
		0,000		0,766	10,00	0,000	39.231,540	7,660	183.105,060
1476	0,000		0,306						
		0,000		0,661	10,00	0,000	39.231,540	6,610	183.111,670
1477	0,000		0,355						
		0,000		0,677	10,00	0,000	39.231,540	6,770	183.118,440
1478	0,000		0,322						
		0,000		11,354	10,00	0,000	39.231,540	113,540	183.231,980
1479	0,000		11,032						
		1,232		23,156	10,00	12,320	39.243,860	231,560	183.463,540
1480	1,232		12,124						
		3,798		12,124	10,00	37,980	39.281,840	121,240	183.584,780
1481	2,566		0,000						
		6,315		0,000	10,00	63,150	39.344,990	0,000	183.584,780
1482	3,749		0,000						
		9,101		0,000	10,00	91,010	39.436,000	0,000	183.584,780
1483	5,352		0,000						
		11,047		0,000	10,00	110,470	39.546,470	0,000	183.584,780
1484	5,695		0,000						
		13,647		0,000	10,00	136,470	39.682,940	0,000	183.584,780

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1485	7,952		0,000						
		17,424		0,000	10,00	174,240	39.857,180	0,000	183.584,780
1486	9,472		0,000						
		17,387		0,000	10,00	173,870	40.031,050	0,000	183.584,780
1487	7,915		0,000						
		13,842		0,000	10,00	138,420	40.169,470	0,000	183.584,780
1488	5,927		0,000						
		10,887		0,000	10,00	108,870	40.278,340	0,000	183.584,780
1489	4,960		0,000						
		8,506		0,000	10,00	85,060	40.363,400	0,000	183.584,780
1490	3,546		0,000						
		7,419		0,000	10,00	74,190	40.437,590	0,000	183.584,780
1491	3,873		0,000						
		7,791		0,000	10,00	77,910	40.515,500	0,000	183.584,780
1492	3,918		0,000						
		6,779		0,000	10,00	67,790	40.583,290	0,000	183.584,780
1493	2,861		0,000						
		5,876		0,000	10,00	58,760	40.642,050	0,000	183.584,780
1494	3,015		0,000						
		5,332		0,000	10,00	53,320	40.695,370	0,000	183.584,780
1495	2,317		0,000						
		4,012		0,000	10,00	40,120	40.735,490	0,000	183.584,780
1496	1,695		0,000						
		3,501		0,000	10,00	35,010	40.770,500	0,000	183.584,780
1497	1,806		0,000						
		3,822		0,000	10,00	38,220	40.808,720	0,000	183.584,780
1498	2,016		0,000						
		3,248		5,504	10,00	32,480	40.841,200	55,040	183.639,820
1499	1,232		5,504						
		1,232		18,011	10,00	12,320	40.853,520	180,110	183.819,930
1500	0,000		12,507						
		0,000		31,113	10,00	0,000	40.853,520	311,130	184.131,060
1501	0,000		18,606						
		0,000		35,252	10,00	0,000	40.853,520	352,520	184.483,580
1502	0,000		16,646						
		0,000		30,006	10,00	0,000	40.853,520	300,060	184.783,640
1503	0,000		13,360						
		0,000		25,247	10,00	0,000	40.853,520	252,470	185.036,110
1504	0,000		11,887						
		0,000		18,661	10,00	0,000	40.853,520	186,610	185.222,720
1505	0,000		6,774						
		0,000		13,606	10,00	0,000	40.853,520	136,060	185.358,780
1506	0,000		6,832						
		0,000		17,879	10,00	0,000	40.853,520	178,790	185.537,570
1507	0,000		11,047						
		0,000		20,733	10,00	0,000	40.853,520	207,330	185.744,900
1508	0,000		9,686						
		0,000		17,164	10,00	0,000	40.853,520	171,640	185.916,540
1509	0,000		7,478						
		0,924		11,133	10,00	9,240	40.862,760	111,330	186.027,870
1510	0,924		3,655						
		2,926		3,655	10,00	29,260	40.892,020	36,550	186.064,420
1511	2,002		0,000						
		4,319		0,000	10,00	43,190	40.935,210	0,000	186.064,420
1512	2,317		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		5,906		0,000	10,00	59,060	40.994,270	0,000	186.064,420
1513	3,589		0,000						
		7,616		0,000	10,00	76,160	41.070,430	0,000	186.064,420
1514	4,027		0,000						
		5,259		2,954	10,00	52,590	41.123,020	29,540	186.093,960
1515	1,232		2,954						
		1,232		8,477	10,00	12,320	41.135,340	84,770	186.178,730
1516	0,000		5,523						
		0,000		16,620	10,00	0,000	41.135,340	166,200	186.344,930
1517	0,000		11,097						
		0,000		24,301	10,00	0,000	41.135,340	243,010	186.587,940
1518	0,000		13,204						
		0,000		25,010	10,00	0,000	41.135,340	250,100	186.838,040
1519	0,000		11,806						
		0,000		21,774	10,00	0,000	41.135,340	217,740	187.055,780
1520	0,000		9,968						
		0,000		19,754	10,00	0,000	41.135,340	197,540	187.253,320
1521	0,000		9,786						
		0,000		15,498	10,00	0,000	41.135,340	154,980	187.408,300
1522	0,000		5,712						
		0,000		6,162	10,00	0,000	41.135,340	61,620	187.469,920
1523	0,000		0,450						
		0,000		0,489	10,00	0,000	41.135,340	4,890	187.474,810
1524	0,000		0,039						
		0,000		0,055	10,00	0,000	41.135,340	0,550	187.475,360
1525	0,000		0,016						
		0,000		0,016	10,00	0,000	41.135,340	0,160	187.475,520
1526	0,000		0,000						
		0,000		0,000	10,00	0,000	41.135,340	0,000	187.475,520
1527	0,000		0,000						
		0,000		8,276	10,00	0,000	41.135,340	82,760	187.558,280
1528	0,000		8,276						
		0,000		26,466	10,00	0,000	41.135,340	264,660	187.822,940
1529	0,000		18,190						
		0,000		38,933	10,00	0,000	41.135,340	389,330	188.212,270
1530	0,000		20,743						
		0,000		47,246	10,00	0,000	41.135,340	472,460	188.684,730
1531	0,000		26,503						
		0,000		50,195	10,00	0,000	41.135,340	501,950	189.186,680
1532	0,000		23,692						
		0,000		40,368	10,00	0,000	41.135,340	403,680	189.590,360
1533	0,000		16,676						
		0,000		32,062	10,00	0,000	41.135,340	320,620	189.910,980
1534	0,000		15,386						
		2,595		27,818	10,00	25,950	41.161,290	278,180	190.189,160
1535	2,595		12,432						
		5,882		12,432	10,00	58,820	41.220,110	124,320	190.313,480
1536	3,287		0,000						
		10,039		0,000	10,00	100,390	41.320,500	0,000	190.313,480
1537	6,752		0,000						
		14,844		0,000	10,00	148,440	41.468,940	0,000	190.313,480
1538	8,092		0,000						
		14,298		0,000	10,00	142,980	41.611,920	0,000	190.313,480
1539	6,206		0,000						
		11,619		0,000	10,00	116,190	41.728,110	0,000	190.313,480

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1540	5,413		0,000						
		9,158		0,000	10,00	91,580	41.819,690	0,000	190.313,480
1541	3,745		0,000						
		5,934		0,000	10,00	59,340	41.879,030	0,000	190.313,480
1542	2,189		0,000						
		3,884		0,000	10,00	38,840	41.917,870	0,000	190.313,480
1543	1,695		0,000						
		2,953		0,000	10,00	29,530	41.947,400	0,000	190.313,480
1544	1,258		0,000						
		2,019		0,791	10,00	20,190	41.967,590	7,910	190.321,390
1545	0,761		0,791						
		0,761		5,285	10,00	7,610	41.975,200	52,850	190.374,240
1546	0,000		4,494						
		0,000		17,732	10,00	0,000	41.975,200	177,320	190.551,560
1547	0,000		13,238						
		0,000		27,687	10,00	0,000	41.975,200	276,870	190.828,430
1548	0,000		14,449						
		0,000		25,413	10,00	0,000	41.975,200	254,130	191.082,560
1549	0,000		10,964						
		0,000		19,392	10,00	0,000	41.975,200	193,920	191.276,480
1550	0,000		8,428						
		0,000		15,754	10,00	0,000	41.975,200	157,540	191.434,020
1551	0,000		7,326						
		0,000		11,713	10,00	0,000	41.975,200	117,130	191.551,150
1552	0,000		4,387						
		0,000		6,936	10,00	0,000	41.975,200	69,360	191.620,510
1553	0,000		2,549						
		0,000		5,092	10,00	0,000	41.975,200	50,920	191.671,430
1554	0,000		2,543						
		2,006		3,929	10,00	20,060	41.995,260	39,290	191.710,720
1555	2,006		1,386						
		5,877		1,386	10,00	58,770	42.054,030	13,860	191.724,580
1556	3,871		0,000						
		9,017		0,000	10,00	90,170	42.144,200	0,000	191.724,580
1557	5,146		0,000						
		11,976		0,000	10,00	119,760	42.263,960	0,000	191.724,580
1558	6,830		0,000						
		9,784		0,604	10,00	97,840	42.361,800	6,040	191.730,620
1559	2,954		0,604						
		3,903		8,210	10,00	39,030	42.400,830	82,100	191.812,720
1560	0,949		7,606						
		0,949		13,570	10,00	9,490	42.410,320	135,700	191.948,420
1561	0,000		5,964						
		0,000		8,211	10,00	0,000	42.410,320	82,110	192.030,530
1562	0,000		2,247						
		0,000		3,465	10,00	0,000	42.410,320	34,650	192.065,180
1563	0,000		1,218						
		0,000		1,218	10,00	0,000	42.410,320	12,180	192.077,360
1564	0,000		0,000						
		0,000		4,104	10,00	0,000	42.410,320	41,040	192.118,400
1565	0,000		4,104						
		0,000		10,989	10,00	0,000	42.410,320	109,890	192.228,290
1566	0,000		6,885						
		0,000		15,331	10,00	0,000	42.410,320	153,310	192.381,600
1567	0,000		8,446						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		15,250	10,00	0,000	42.410,320	152,500	192.534,100
1568	0,000		6,804						
		0,000		12,296	10,00	0,000	42.410,320	122,960	192.657,060
1569	0,000		5,492						
		1,850		9,053	10,00	18,500	42.428,820	90,530	192.747,590
1570	1,850		3,561						
		5,721		3,561	10,00	57,210	42.486,030	35,610	192.783,200
1571	3,871		0,000						
		8,477		0,000	10,00	84,770	42.570,800	0,000	192.783,200
1572	4,606		0,000						
		12,838		0,000	10,00	128,380	42.699,180	0,000	192.783,200
1573	8,232		0,000						
		12,601		0,000	10,00	126,010	42.825,190	0,000	192.783,200
1574	4,369		0,000						
		7,930		2,980	10,00	79,300	42.904,490	29,800	192.813,000
1575	3,561		2,980						
		3,561		9,856	10,00	35,610	42.940,100	98,560	192.911,560
1576	0,000		6,876						
		0,000		19,334	10,00	0,000	42.940,100	193,340	193.104,900
1577	0,000		12,458						
		0,000		22,430	10,00	0,000	42.940,100	224,300	193.329,200
1578	0,000		9,972						
		0,000		23,031	10,00	0,000	42.940,100	230,310	193.559,510
1579	0,000		13,059						
		0,000		21,351	10,00	0,000	42.940,100	213,510	193.773,020
1580	0,000		8,292						
		0,000		12,787	10,00	0,000	42.940,100	127,870	193.900,890
1581	0,000		4,495						
		0,000		7,547	10,00	0,000	42.940,100	75,470	193.976,360
1582	0,000		3,052						
		0,000		6,108	10,00	0,000	42.940,100	61,080	194.037,440
1583	0,000		3,056						
		0,000		7,242	10,00	0,000	42.940,100	72,420	194.109,860
1584	0,000		4,186						
		2,954		6,316	10,00	29,540	42.969,640	63,160	194.173,020
1585	2,954		2,130						
		7,835		2,130	10,00	78,350	43.047,990	21,300	194.194,320
1586	4,881		0,000						
		16,998		0,000	10,00	169,980	43.217,970	0,000	194.194,320
1587	12,117		0,000						
		22,397		0,000	10,00	223,970	43.441,940	0,000	194.194,320
1588	10,280		0,000						
		22,866		0,000	10,00	228,660	43.670,600	0,000	194.194,320
1589	12,586		0,000						
		27,379		0,000	10,00	273,790	43.944,390	0,000	194.194,320
1590	14,793		0,000						
		27,999		0,000	10,00	279,990	44.224,380	0,000	194.194,320
1591	13,206		0,000						
		21,930		0,000	10,00	219,300	44.443,680	0,000	194.194,320
1592	8,724		0,000						
		14,777		0,000	10,00	147,770	44.591,450	0,000	194.194,320
1593	6,053		0,000						
		9,008		0,000	10,00	90,080	44.681,530	0,000	194.194,320
1594	2,955		0,000						
		4,803		5,894	10,00	48,030	44.729,560	58,940	194.253,260

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1595	1,848		5,894						
		1,848		13,906	10,00	18,480	44.748,040	139,060	194.392,320
1596	0,000		8,012						
		0,000		19,109	10,00	0,000	44.748,040	191,090	194.583,410
1597	0,000		11,097						
		0,000		24,301	10,00	0,000	44.748,040	243,010	194.826,420
1598	0,000		13,204						
		0,000		25,010	10,00	0,000	44.748,040	250,100	195.076,520
1599	0,000		11,806						
		0,000		29,996	10,00	0,000	44.748,040	299,960	195.376,480
1600	0,000		18,190						
		0,000		38,933	10,00	0,000	44.748,040	389,330	195.765,810
1601	0,000		20,743						
		0,000		47,246	10,00	0,000	44.748,040	472,460	196.238,270
1602	0,000		26,503						
		0,000		50,195	10,00	0,000	44.748,040	501,950	196.740,220
1603	0,000		23,692						
		0,000		40,368	10,00	0,000	44.748,040	403,680	197.143,900
1604	0,000		16,676						
		0,000		32,062	10,00	0,000	44.748,040	320,620	197.464,520
1605	0,000		15,386						
		0,000		29,376	10,00	0,000	44.748,040	293,760	197.758,280
1606	0,000		13,990						
		0,000		26,261	10,00	0,000	44.748,040	262,610	198.020,890
1607	0,000		12,271						
		0,000		22,450	10,00	0,000	44.748,040	224,500	198.245,390
1608	0,000		10,179						
		0,000		17,082	10,00	0,000	44.748,040	170,820	198.416,210
1609	0,000		6,903						
		0,000		11,458	10,00	0,000	44.748,040	114,580	198.530,790
1610	0,000		4,555						
		0,000		9,851	10,00	0,000	44.748,040	98,510	198.629,300
1611	0,000		5,296						
		0,000		13,598	10,00	0,000	44.748,040	135,980	198.765,280
1612	0,000		8,302						
		0,000		21,382	10,00	0,000	44.748,040	213,820	198.979,100
1613	0,000		13,080						
		0,000		31,060	10,00	0,000	44.748,040	310,600	199.289,700
1614	0,000		17,980						
		0,000		38,884	10,00	0,000	44.748,040	388,840	199.678,540
1615	0,000		20,904						
		0,000		45,152	10,00	0,000	44.748,040	451,520	200.130,060
1616	0,000		24,248						
		0,000		47,110	10,00	0,000	44.748,040	471,100	200.601,160
1617	0,000		22,862						
		0,000		45,796	10,00	0,000	44.748,040	457,960	201.059,120
1618	0,000		22,934						
		0,000		45,782	10,00	0,000	44.748,040	457,820	201.516,940
1619	0,000		22,848						
		0,000		44,298	10,00	0,000	44.748,040	442,980	201.959,920
1620	0,000		21,450						
		0,000		46,539	10,00	0,000	44.748,040	465,390	202.425,310
1621	0,000		25,089						
		0,000		48,736	10,00	0,000	44.748,040	487,360	202.912,670
1622	0,000		23,647						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		45,797	10,00	0,000	44.748,040	457,970	203.370,640
1623	0,000		22,150						
		0,000		43,166	10,00	0,000	44.748,040	431,660	203.802,300
1624	0,000		21,016						
		0,000		41,780	10,00	0,000	44.748,040	417,800	204.220,100
1625	0,000		20,764						
		0,000		47,268	10,00	0,000	44.748,040	472,680	204.692,780
1626	0,000		26,504						
		0,000		41,181	10,00	0,000	44.748,040	411,810	205.104,590
1627	0,000		14,677						
		0,000		31,941	10,00	0,000	44.748,040	319,410	205.424,000
1628	0,000		17,264						
		0,000		31,713	10,00	0,000	44.748,040	317,130	205.741,130
1629	0,000		14,449						
		0,000		25,413	10,00	0,000	44.748,040	254,130	205.995,260
1630	0,000		10,964						
		0,000		19,392	10,00	0,000	44.748,040	193,920	206.189,180
1631	0,000		8,428						
		0,000		15,092	10,00	0,000	44.748,040	150,920	206.340,100
1632	0,000		6,664						
		0,000		14,814	10,00	0,000	44.748,040	148,140	206.488,240
1633	0,000		8,150						
		0,000		15,757	10,00	0,000	44.748,040	157,570	206.645,810
1634	0,000		7,607						
		0,000		16,642	10,00	0,000	44.748,040	166,420	206.812,230
1635	0,000		9,035						
		0,000		17,561	10,00	0,000	44.748,040	175,610	206.987,840
1636	0,000		8,526						
		0,000		20,301	10,00	0,000	44.748,040	203,010	207.190,850
1637	0,000		11,775						
		0,000		20,001	10,00	0,000	44.748,040	200,010	207.390,860
1638	0,000		8,226						
		0,000		12,118	10,00	0,000	44.748,040	121,180	207.512,040
1639	0,000		3,892						
		3,935		6,364	10,00	39,350	44.787,390	63,640	207.575,680
1640	3,935		2,472						
		9,302		2,472	10,00	93,020	44.880,410	24,720	207.600,400
1641	5,367		0,000						
		13,534		0,000	10,00	135,340	45.015,750	0,000	207.600,400
1642	8,167		0,000						
		19,973		0,000	10,00	199,730	45.215,480	0,000	207.600,400
1643	11,806		0,000						
		21,298		0,000	10,00	212,980	45.428,460	0,000	207.600,400
1644	9,492		0,000						
		17,444		0,000	10,00	174,440	45.602,900	0,000	207.600,400
1645	7,952		0,000						
		17,424		0,000	10,00	174,240	45.777,140	0,000	207.600,400
1646	9,472		0,000						
		17,387		0,000	10,00	173,870	45.951,010	0,000	207.600,400
1647	7,915		0,000						
		13,842		0,000	10,00	138,420	46.089,430	0,000	207.600,400
1648	5,927		0,000						
		10,887		0,000	10,00	108,870	46.198,300	0,000	207.600,400
1649	4,960		0,000						
		8,506		0,000	10,00	85,060	46.283,360	0,000	207.600,400

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1650	3,546		0,000						
		7,419		0,000	10,00	74,190	46.357,550	0,000	207.600,400
1651	3,873		0,000						
		7,791		0,000	10,00	77,910	46.435,460	0,000	207.600,400
1652	3,918		0,000						
		6,779		0,000	10,00	67,790	46.503,250	0,000	207.600,400
1653	2,861		0,000						
		5,876		0,000	10,00	58,760	46.562,010	0,000	207.600,400
1654	3,015		0,000						
		6,998		0,000	10,00	69,980	46.631,990	0,000	207.600,400
1655	3,983		0,000						
		8,353		0,000	10,00	83,530	46.715,520	0,000	207.600,400
1656	4,370		0,000						
		8,089		0,000	10,00	80,890	46.796,410	0,000	207.600,400
1657	3,719		0,000						
		9,646		0,000	10,00	96,460	46.892,870	0,000	207.600,400
1658	5,927		0,000						
		10,887		0,000	10,00	108,870	47.001,740	0,000	207.600,400
1659	4,960		0,000						
		8,506		0,000	10,00	85,060	47.086,800	0,000	207.600,400
1660	3,546		0,000						
		7,419		0,000	10,00	74,190	47.160,990	0,000	207.600,400
1661	3,873		0,000						
		7,791		0,000	10,00	77,910	47.238,900	0,000	207.600,400
1662	3,918		0,000						
		6,779		0,000	10,00	67,790	47.306,690	0,000	207.600,400
1663	2,861		0,000						
		5,876		0,000	10,00	58,760	47.365,450	0,000	207.600,400
1664	3,015		0,000						
		6,998		0,000	10,00	69,980	47.435,430	0,000	207.600,400
1665	3,983		0,000						
		6,937		0,000	10,00	69,370	47.504,800	0,000	207.600,400
1666	2,954		0,000						
		5,580		0,000	10,00	55,800	47.560,600	0,000	207.600,400
1667	2,626		0,000						
		4,321		0,000	10,00	43,210	47.603,810	0,000	207.600,400
1668	1,695		0,000						
		2,941		2,707	10,00	29,410	47.633,220	27,070	207.627,470
1669	1,246		2,707						
		1,554	3,967	6,674	10,00	15,540	47.648,760	66,740	207.694,210
1670	0,308		3,967						
		0,308		13,503	10,00	3,080	47.651,840	135,030	207.829,240
1671	0,000		9,536						
		0,000		23,023	10,00	0,000	47.651,840	230,230	208.059,470
1672	0,000		13,487						
		0,000		31,579	10,00	0,000	47.651,840	315,790	208.375,260
1673	0,000		18,092						
		0,000		36,135	10,00	0,000	47.651,840	361,350	208.736,610
1674	0,000		18,043						
		0,000		39,953	10,00	0,000	47.651,840	399,530	209.136,140
1675	0,000		21,910						
		0,000		40,282	10,00	0,000	47.651,840	402,820	209.538,960
1676	0,000		18,372						
		0,000		34,519	10,00	0,000	47.651,840	345,190	209.884,150
1677	0,000		16,147						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		29,896	10,00	0,000	47.651,840	298,960	210.183,110
1678	0,000		13,749						
		0,000		22,611	10,00	0,000	47.651,840	226,110	210.409,220
1679	0,000		8,862						
		1,183		11,830	10,00	11,830	47.663,670	118,300	210.527,520
1680	1,183		2,968						
		6,293		2,968	10,00	62,930	47.726,600	29,680	210.557,200
1681	5,110		0,000						
		9,294		0,000	10,00	92,940	47.819,540	0,000	210.557,200
1682	4,184		0,000						
		12,519		0,000	10,00	125,190	47.944,730	0,000	210.557,200
1683	8,335		0,000						
		20,141		0,000	10,00	201,410	48.146,140	0,000	210.557,200
1684	11,806		0,000						
		29,789		0,000	10,00	297,890	48.444,030	0,000	210.557,200
1685	17,983		0,000						
		34,533		0,000	10,00	345,330	48.789,360	0,000	210.557,200
1686	16,550		0,000						
		31,855		0,000	10,00	318,550	49.107,910	0,000	210.557,200
1687	15,305		0,000						
		28,511		0,000	10,00	285,110	49.393,020	0,000	210.557,200
1688	13,206		0,000						
		23,615		0,000	10,00	236,150	49.629,170	0,000	210.557,200
1689	10,409		0,000						
		19,643		0,000	10,00	196,430	49.825,600	0,000	210.557,200
1690	9,234		0,000						
		17,384		0,000	10,00	173,840	49.999,440	0,000	210.557,200
1691	8,150		0,000						
		14,793		0,000	10,00	147,930	50.147,370	0,000	210.557,200
1692	6,643		0,000						
		12,150		0,000	10,00	121,500	50.268,870	0,000	210.557,200
1693	5,507		0,000						
		9,053		0,000	10,00	90,530	50.359,400	0,000	210.557,200
1694	3,546		0,000						
		7,419		0,000	10,00	74,190	50.433,590	0,000	210.557,200
1695	3,873		0,000						
		7,791		0,000	10,00	77,910	50.511,500	0,000	210.557,200
1696	3,918		0,000						
		6,779		0,000	10,00	67,790	50.579,290	0,000	210.557,200
1697	2,861		0,000						
		5,876		0,000	10,00	58,760	50.638,050	0,000	210.557,200
1698	3,015		0,000						
		6,998		0,000	10,00	69,980	50.708,030	0,000	210.557,200
1699	3,983		0,000						
		8,353		0,000	10,00	83,530	50.791,560	0,000	210.557,200
1700	4,370		0,000						
		8,089		0,000	10,00	80,890	50.872,450	0,000	210.557,200
1701	3,719		0,000						
		9,646		0,000	10,00	96,460	50.968,910	0,000	210.557,200
1702	5,927		0,000						
		10,887		0,000	10,00	108,870	51.077,780	0,000	210.557,200
1703	4,960		0,000						
		11,012		0,000	10,00	110,120	51.187,900	0,000	210.557,200
1704	6,052		0,000						
		14,424		0,000	10,00	144,240	51.332,140	0,000	210.557,200

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1705	8,372		0,000						
		18,778		0,000	10,00	187,780	51.519,920	0,000	210.557,200
1706	10,406		0,000						
		22,055		0,000	10,00	220,550	51.740,470	0,000	210.557,200
1707	11,649		0,000						
		21,909		0,000	10,00	219,090	51.959,560	0,000	210.557,200
1708	10,260		0,000						
		22,846		0,000	10,00	228,460	52.188,020	0,000	210.557,200
1709	12,586		0,000						
		25,662		0,000	10,00	256,620	52.444,640	0,000	210.557,200
1710	13,076		0,000						
		28,381		0,000	10,00	283,810	52.728,450	0,000	210.557,200
1711	15,305		0,000						
		28,511		0,000	10,00	285,110	53.013,560	0,000	210.557,200
1712	13,206		0,000						
		23,615		0,000	10,00	236,150	53.249,710	0,000	210.557,200
1713	10,409		0,000						
		19,643		0,000	10,00	196,430	53.446,140	0,000	210.557,200
1714	9,234		0,000						
		17,384		0,000	10,00	173,840	53.619,980	0,000	210.557,200
1715	8,150		0,000						
		14,793		0,000	10,00	147,930	53.767,910	0,000	210.557,200
1716	6,643		0,000						
		12,150		0,000	10,00	121,500	53.889,410	0,000	210.557,200
1717	5,507		0,000						
		9,053		0,000	10,00	90,530	53.979,940	0,000	210.557,200
1718	3,546		0,000						
		7,419		0,000	10,00	74,190	54.054,130	0,000	210.557,200
1719	3,873		0,000						
		7,791		0,000	10,00	77,910	54.132,040	0,000	210.557,200
1720	3,918		0,000						
		6,779		0,000	10,00	67,790	54.199,830	0,000	210.557,200
1721	2,861		0,000						
		5,876		0,000	10,00	58,760	54.258,590	0,000	210.557,200
1722	3,015		0,000						
		6,998		0,000	10,00	69,980	54.328,570	0,000	210.557,200
1723	3,983		0,000						
		9,333		0,000	10,00	93,330	54.421,900	0,000	210.557,200
1724	5,350		0,000						
		9,400		0,000	10,00	94,000	54.515,900	0,000	210.557,200
1725	4,050		0,000						
		9,480		0,000	10,00	94,800	54.610,700	0,000	210.557,200
1726	5,430		0,000						
		9,799		0,000	10,00	97,990	54.708,690	0,000	210.557,200
1727	4,369		0,000						
		7,988		0,000	10,00	79,880	54.788,570	0,000	210.557,200
1728	3,619		0,000						
		7,670		0,000	10,00	76,700	54.865,270	0,000	210.557,200
1729	4,051		0,000						
		7,020		0,000	10,00	70,200	54.935,470	0,000	210.557,200
1730	2,969		0,000						
		7,479		0,000	10,00	74,790	55.010,260	0,000	210.557,200
1731	4,510		0,000						
		7,168		0,000	10,00	71,680	55.081,940	0,000	210.557,200
1732	2,658		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		6,093		0,000	10,00	60,930	55.142,870	0,000	210.557,200
1733	3,435		0,000						
		6,389		0,000	10,00	63,890	55.206,760	0,000	210.557,200
1734	2,954		0,000						
		5,534		0,000	10,00	55,340	55.262,100	0,000	210.557,200
1735	2,580		0,000						
		4,463		0,000	10,00	44,630	55.306,730	0,000	210.557,200
1736	1,883		0,000						
		3,607		0,000	10,00	36,070	55.342,800	0,000	210.557,200
1737	1,724		0,000						
		4,662		0,000	10,00	46,620	55.389,420	0,000	210.557,200
1738	2,938		0,000						
		6,964		0,000	10,00	69,640	55.459,060	0,000	210.557,200
1739	4,026		0,000						
		6,978		0,000	10,00	69,780	55.528,840	0,000	210.557,200
1740	2,952		0,000						
		6,919		0,000	10,00	69,190	55.598,030	0,000	210.557,200
1741	3,967		0,000						
		7,371		0,000	10,00	73,710	55.671,740	0,000	210.557,200
1742	3,404		0,000						
		6,050		0,000	10,00	60,500	55.732,240	0,000	210.557,200
1743	2,646		0,000						
		4,684		0,000	10,00	46,840	55.779,080	0,000	210.557,200
1744	2,038		0,000						
		3,342		0,000	10,00	33,420	55.812,500	0,000	210.557,200
1745	1,304		0,000						
		2,750		0,000	10,00	27,500	55.840,000	0,000	210.557,200
1746	1,446		0,000						
		3,170		0,000	10,00	31,700	55.871,700	0,000	210.557,200
1747	1,724		0,000						
		3,156		0,000	10,00	31,560	55.903,260	0,000	210.557,200
1748	1,432		0,000						
		2,804		0,000	10,00	28,040	55.931,300	0,000	210.557,200
1749	1,372		0,000						
		2,002		1,251	10,00	20,020	55.951,320	12,510	210.569,710
1750	0,630		1,251						
		0,630		3,841	10,00	6,300	55.957,620	38,410	210.608,120
1751	0,000		2,590						
		0,000		9,091	10,00	0,000	55.957,620	90,910	210.699,030
1752	0,000		6,501						
		0,000		14,873	10,00	0,000	55.957,620	148,730	210.847,760
1753	0,000		8,372						
		0,000		15,044	10,00	0,000	55.957,620	150,440	210.998,200
1754	0,000		6,672						
		0,000		12,451	10,00	0,000	55.957,620	124,510	211.122,710
1755	0,000		5,779						
		0,000		13,992	10,00	0,000	55.957,620	139,920	211.262,630
1756	0,000		8,213						
		0,000		15,105	10,00	0,000	55.957,620	151,050	211.413,680
1757	0,000		6,892						
		0,000		16,535	10,00	0,000	55.957,620	165,350	211.579,030
1758	0,000		9,643						
		0,000		27,606	10,00	0,000	55.957,620	276,060	211.855,090
1759	0,000		17,963						
		0,000		37,158	10,00	0,000	55.957,620	371,580	212.226,670

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1760	0,000		19,195						
		0,000		39,975	10,00	0,000	55.957,620	399,750	212.626,420
1761	0,000		20,780						
		0,000		36,628	10,00	0,000	55.957,620	366,280	212.992,700
1762	0,000		15,848						
		0,000		30,794	10,00	0,000	55.957,620	307,940	213.300,640
1763	0,000		14,946						
		0,000		31,901	10,00	0,000	55.957,620	319,010	213.619,650
1764	0,000		16,955						
		0,000		30,035	10,00	0,000	55.957,620	300,350	213.920,000
1765	0,000		13,080						
		0,000		27,715	10,00	0,000	55.957,620	277,150	214.197,150
1766	0,000		14,635						
		0,000		31,885	10,00	0,000	55.957,620	318,850	214.516,000
1767	0,000		17,250						
		0,000		31,699	10,00	0,000	55.957,620	316,990	214.832,990
1768	0,000		14,449						
		0,000		27,840	10,00	0,000	55.957,620	278,400	215.111,390
1769	0,000		13,391						
		0,000		26,471	10,00	0,000	55.957,620	264,710	215.376,100
1770	0,000		13,080						
		0,000		26,315	10,00	0,000	55.957,620	263,150	215.639,250
1771	0,000		13,235						
		0,000		27,842	10,00	0,000	55.957,620	278,420	215.917,670
1772	0,000		14,607						
		0,000		25,784	10,00	0,000	55.957,620	257,840	216.175,510
1773	0,000		11,177						
		0,000		22,826	10,00	0,000	55.957,620	228,260	216.403,770
1774	0,000		11,649						
		0,000		20,499	10,00	0,000	55.957,620	204,990	216.608,760
1775	0,000		8,850						
		0,000		19,257	10,00	0,000	55.957,620	192,570	216.801,330
1776	0,000		10,407						
		0,000		28,370	10,00	0,000	55.957,620	283,700	217.085,030
1777	0,000		17,963						
		0,000		37,158	10,00	0,000	55.957,620	371,580	217.456,610
1778	0,000		19,195						
		0,000		39,975	10,00	0,000	55.957,620	399,750	217.856,360
1779	0,000		20,780						
		0,000		36,628	10,00	0,000	55.957,620	366,280	218.222,640
1780	0,000		15,848						
		0,000		30,794	10,00	0,000	55.957,620	307,940	218.530,580
1781	0,000		14,946						
		0,000		31,901	10,00	0,000	55.957,620	319,010	218.849,590
1782	0,000		16,955						
		0,000		30,035	10,00	0,000	55.957,620	300,350	219.149,940
1783	0,000		13,080						
		0,000		27,715	10,00	0,000	55.957,620	277,150	219.427,090
1784	0,000		14,635						
		0,000		31,885	10,00	0,000	55.957,620	318,850	219.745,940
1785	0,000		17,250						
		0,000		31,699	10,00	0,000	55.957,620	316,990	220.062,930
1786	0,000		14,449						
		0,000		25,413	10,00	0,000	55.957,620	254,130	220.317,060
1787	0,000		10,964						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		21,928	10,00	0,000	55.957,620	219,280	220.536,340
1788	0,000		10,964						
		0,000		19,392	10,00	0,000	55.957,620	193,920	220.730,260
1789	0,000		8,428						
		0,000		15,092	10,00	0,000	55.957,620	150,920	220.881,180
1790	0,000		6,664						
		0,000		14,814	10,00	0,000	55.957,620	148,140	221.029,320
1791	0,000		8,150						
		0,000		15,757	10,00	0,000	55.957,620	157,570	221.186,890
1792	0,000		7,607						
		0,000		16,642	10,00	0,000	55.957,620	166,420	221.353,310
1793	0,000		9,035						
		0,000		17,561	10,00	0,000	55.957,620	175,610	221.528,920
1794	0,000		8,526						
		0,000		20,301	10,00	0,000	55.957,620	203,010	221.731,930
1795	0,000		11,775						
		0,000		20,001	10,00	0,000	55.957,620	200,010	221.931,940
1796	0,000		8,226						
		0,000		12,613	10,00	0,000	55.957,620	126,130	222.058,070
1797	0,000		4,387						
		0,000		8,462	10,00	0,000	55.957,620	84,620	222.142,690
1798	0,000		4,075						
		0,000		9,579	10,00	0,000	55.957,620	95,790	222.238,480
1799	0,000		5,504						
		0,000		8,458	10,00	0,000	55.957,620	84,580	222.323,060
1800	0,000		2,954						
		0,000		8,432	10,00	0,000	55.957,620	84,320	222.407,380
1801	0,000		5,478						
		0,000		9,923	10,00	0,000	55.957,620	99,230	222.506,610
1802	0,000		4,445						
		0,000		7,383	10,00	0,000	55.957,620	73,830	222.580,440
1803	0,000		2,938						
		0,000		6,594	10,00	0,000	55.957,620	65,940	222.646,380
1804	0,000		3,656						
		0,000		7,732	10,00	0,000	55.957,620	77,320	222.723,700
1805	0,000		4,076						
		0,000		7,664	10,00	0,000	55.957,620	76,640	222.800,340
1806	0,000		3,588						
		0,000		12,515	10,00	0,000	55.957,620	125,150	222.925,490
1807	0,000		8,927						
		0,000		15,693	10,00	0,000	55.957,620	156,930	223.082,420
1808	0,000		6,766						
		0,000		14,900	10,00	0,000	55.957,620	149,000	223.231,420
1809	0,000		8,134						
		0,000		13,470	10,00	0,000	55.957,620	134,700	223.366,120
1810	0,000		5,336						
		0,000		12,186	10,00	0,000	55.957,620	121,860	223.487,980
1811	0,000		6,850						
		0,000		12,233	10,00	0,000	55.957,620	122,330	223.610,310
1812	0,000		5,383						
		1,792		8,355	10,00	17,920	55.975,540	83,550	223.693,860
1813	1,792		2,972						
		5,775		2,972	10,00	57,750	56.033,290	29,720	223.723,580
1814	3,983		0,000						
		11,435		0,000	10,00	114,350	56.147,640	0,000	223.723,580

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1815	7,452		0,000						
		19,128		0,000	10,00	191,280	56.338,920	0,000	223.723,580
1816	11,676		0,000						
		22,708		0,000	10,00	227,080	56.566,000	0,000	223.723,580
1817	11,032		0,000						
		23,954		0,000	10,00	239,540	56.805,540	0,000	223.723,580
1818	12,922		0,000						
		27,883		0,000	10,00	278,830	57.084,370	0,000	223.723,580
1819	14,961		0,000						
		32,928		0,000	10,00	329,280	57.413,650	0,000	223.723,580
1820	17,967		0,000						
		31,169		0,000	10,00	311,690	57.725,340	0,000	223.723,580
1821	13,202		0,000						
		24,724		0,000	10,00	247,240	57.972,580	0,000	223.723,580
1822	11,522		0,000						
		18,998		0,000	10,00	189,980	58.162,560	0,000	223.723,580
1823	7,476		0,000						
		10,542		2,968	10,00	105,420	58.267,980	29,680	223.753,260
1824	3,066		2,968						
		4,858		11,270	10,00	48,580	58.316,560	112,700	223.865,960
1825	1,792		8,302						
		1,792		21,382	10,00	17,920	58.334,480	213,820	224.079,780
1826	0,000		13,080						
		0,000		31,060	10,00	0,000	58.334,480	310,600	224.390,380
1827	0,000		17,980						
		0,000		38,884	10,00	0,000	58.334,480	388,840	224.779,220
1828	0,000		20,904						
		0,000		45,152	10,00	0,000	58.334,480	451,520	225.230,740
1829	0,000		24,248						
		0,000		47,110	10,00	0,000	58.334,480	471,100	225.701,840
1830	0,000		22,862						
		0,000		45,796	10,00	0,000	58.334,480	457,960	226.159,800
1831	0,000		22,934						
		0,000		45,782	10,00	0,000	58.334,480	457,820	226.617,620
1832	0,000		22,848						
		0,000		44,298	10,00	0,000	58.334,480	442,980	227.060,600
1833	0,000		21,450						
		0,000		46,539	10,00	0,000	58.334,480	465,390	227.525,990
1834	0,000		25,089						
		0,000		48,736	10,00	0,000	58.334,480	487,360	228.013,350
1835	0,000		23,647						
		0,000		45,797	10,00	0,000	58.334,480	457,970	228.471,320
1836	0,000		22,150						
		0,000		43,166	10,00	0,000	58.334,480	431,660	228.902,980
1837	0,000		21,016						
		0,000		41,780	10,00	0,000	58.334,480	417,800	229.320,780
1838	0,000		20,764						
		0,000		47,268	10,00	0,000	58.334,480	472,680	229.793,460
1839	0,000		26,504						
		0,000		41,181	10,00	0,000	58.334,480	411,810	230.205,270
1840	0,000		14,677						
		0,000		31,941	10,00	0,000	58.334,480	319,410	230.524,680
1841	0,000		17,264						
		0,000		38,714	10,00	0,000	58.334,480	387,140	230.911,820
1842	0,000		21,450						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		46,539	10,00	0,000	58.334,480	465,390	231.377,210
1843	0,000		25,089						
		0,000		48,736	10,00	0,000	58.334,480	487,360	231.864,570
1844	0,000		23,647						
		0,000		45,797	10,00	0,000	58.334,480	457,970	232.322,540
1845	0,000		22,150						
		0,000		43,166	10,00	0,000	58.334,480	431,660	232.754,200
1846	0,000		21,016						
		0,000		41,780	10,00	0,000	58.334,480	417,800	233.172,000
1847	0,000		20,764						
		0,000		40,042	10,00	0,000	58.334,480	400,420	233.572,420
1848	0,000		19,278						
		0,000		34,696	10,00	0,000	58.334,480	346,960	233.919,380
1849	0,000		15,418						
		0,000		30,209	10,00	0,000	58.334,480	302,090	234.221,470
1850	0,000		14,791						
		0,000		28,261	10,00	0,000	58.334,480	282,610	234.504,080
1851	0,000		13,470						
		0,000		23,020	10,00	0,000	58.334,480	230,200	234.734,280
1852	0,000		9,550						
		0,000		15,500	10,00	0,000	58.334,480	155,000	234.889,280
1853	0,000		5,950						
		0,000		9,956	10,00	0,000	58.334,480	99,560	234.988,840
1854	0,000		4,006						
		2,954		5,728	10,00	29,540	58.364,020	57,280	235.046,120
1855	2,954		1,722						
		6,986		1,722	10,00	69,860	58.433,880	17,220	235.063,340
1856	4,032		0,000						
		8,405		0,000	10,00	84,050	58.517,930	0,000	235.063,340
1857	4,373		0,000						
		10,422		0,000	10,00	104,220	58.622,150	0,000	235.063,340
1858	6,049		0,000						
		15,524		0,000	10,00	155,240	58.777,390	0,000	235.063,340
1859	9,475		0,000						
		22,682		0,000	10,00	226,820	59.004,210	0,000	235.063,340
1860	13,207		0,000						
		29,055		0,000	10,00	290,550	59.294,760	0,000	235.063,340
1861	15,848		0,000						
		30,794		0,000	10,00	307,940	59.602,700	0,000	235.063,340
1862	14,946		0,000						
		31,901		0,000	10,00	319,010	59.921,710	0,000	235.063,340
1863	16,955		0,000						
		30,035		0,000	10,00	300,350	60.222,060	0,000	235.063,340
1864	13,080		0,000						
		27,715		0,000	10,00	277,150	60.499,210	0,000	235.063,340
1865	14,635		0,000						
		31,885		0,000	10,00	318,850	60.818,060	0,000	235.063,340
1866	17,250		0,000						
		31,699		0,000	10,00	316,990	61.135,050	0,000	235.063,340
1867	14,449		0,000						
		27,840		0,000	10,00	278,400	61.413,450	0,000	235.063,340
1868	13,391		0,000						
		26,471		0,000	10,00	264,710	61.678,160	0,000	235.063,340
1869	13,080		0,000						
		26,315		0,000	10,00	263,150	61.941,310	0,000	235.063,340

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1870	13,235		0,000						
		27,842		0,000	10,00	278,420	62.219,730	0,000	235.063,340
1871	14,607		0,000						
		25,784		0,000	10,00	257,840	62.477,570	0,000	235.063,340
1872	11,177		0,000						
		22,826		0,000	10,00	228,260	62.705,830	0,000	235.063,340
1873	11,649		0,000						
		20,499		0,000	10,00	204,990	62.910,820	0,000	235.063,340
1874	8,850		0,000						
		19,257		0,000	10,00	192,570	63.103,390	0,000	235.063,340
1875	10,407		0,000						
		18,011		0,000	10,00	180,110	63.283,500	0,000	235.063,340
1876	7,604		0,000						
		18,781		3,983	10,00	187,810	63.471,310	39,830	235.103,170
1877	11,177		3,983						
		24,384		11,449	10,00	243,840	63.715,150	114,490	235.217,660
1878	13,207		7,466						
		13,207		19,954	10,00	132,070	63.847,220	199,540	235.417,200
1879	0,000		12,488						
		0,000		26,320	10,00	0,000	63.847,220	263,200	235.680,400
1880	0,000		13,832						
		0,000		25,978	10,00	0,000	63.847,220	259,780	235.940,180
1881	0,000		12,146						
		0,000		22,958	10,00	0,000	63.847,220	229,580	236.169,760
1882	0,000		10,812						
		0,000		19,662	10,00	0,000	63.847,220	196,620	236.366,380
1883	0,000		8,850						
		0,000		16,239	10,00	0,000	63.847,220	162,390	236.528,770
1884	0,000		7,389						
		2,955		11,687	10,00	29,550	63.876,770	116,870	236.645,640
1885	2,955		4,298						
		6,938		4,298	10,00	69,380	63.946,150	42,980	236.688,620
1886	3,983		0,000						
		9,798		0,000	10,00	97,980	64.044,130	0,000	236.688,620
1887	5,815		0,000						
		16,250		0,000	10,00	162,500	64.206,630	0,000	236.688,620
1888	10,435		0,000						
		19,157		0,000	10,00	191,570	64.398,200	0,000	236.688,620
1889	8,722		0,000						
		17,572		0,000	10,00	175,720	64.573,920	0,000	236.688,620
1890	8,850		0,000						
		20,027		0,000	10,00	200,270	64.774,190	0,000	236.688,620
1891	11,177		0,000						
		22,826		0,000	10,00	228,260	65.002,450	0,000	236.688,620
1892	11,649		0,000						
		25,321		0,000	10,00	253,210	65.255,660	0,000	236.688,620
1893	13,672		0,000						
		25,510		0,000	10,00	255,100	65.510,760	0,000	236.688,620
1894	11,838		0,000						
		25,233		0,000	10,00	252,330	65.763,090	0,000	236.688,620
1895	13,395		0,000						
		24,572		0,000	10,00	245,720	66.008,810	0,000	236.688,620
1896	11,177		0,000						
		24,384		0,000	10,00	243,840	66.252,650	0,000	236.688,620
1897	13,207		0,000						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
		23,925		0,000	10,00	239,250	66.491,900	0,000	236.688,620
1898	10,718		0,000						
		23,304		0,000	10,00	233,040	66.724,940	0,000	236.688,620
1899	12,586		0,000						
		25,170		0,000	10,00	251,700	66.976,640	0,000	236.688,620
1900	12,584		0,000						
		24,233		0,000	10,00	242,330	67.218,970	0,000	236.688,620
1901	11,649		0,000						
		20,499		0,000	10,00	204,990	67.423,960	0,000	236.688,620
1902	8,850		0,000						
		20,982		0,000	10,00	209,820	67.633,780	0,000	236.688,620
1903	12,132		0,000						
		20,565		0,000	10,00	205,650	67.839,430	0,000	236.688,620
1904	8,433		0,000						
		19,400		0,000	10,00	194,000	68.033,430	0,000	236.688,620
1905	10,967		0,000						
		24,174		0,000	10,00	241,740	68.275,170	0,000	236.688,620
1906	13,207		0,000						
		23,925		0,000	10,00	239,250	68.514,420	0,000	236.688,620
1907	10,718		0,000						
		19,568		0,000	10,00	195,680	68.710,100	0,000	236.688,620
1908	8,850		0,000						
		19,285		0,000	10,00	192,850	68.902,950	0,000	236.688,620
1909	10,435		0,000						
		22,084		0,000	10,00	220,840	69.123,790	0,000	236.688,620
1910	11,649		0,000						
		20,499		0,000	10,00	204,990	69.328,780	0,000	236.688,620
1911	8,850		0,000						
		19,257		0,000	10,00	192,570	69.521,350	0,000	236.688,620
1912	10,407		0,000						
		18,840		0,000	10,00	188,400	69.709,750	0,000	236.688,620
1913	8,433		0,000						
		19,001		0,000	10,00	190,010	69.899,760	0,000	236.688,620
1914	10,568		0,000						
		22,217		0,000	10,00	222,170	70.121,930	0,000	236.688,620
1915	11,649		0,000						
		20,499		0,000	10,00	204,990	70.326,920	0,000	236.688,620
1916	8,850		0,000						
		20,982		0,000	10,00	209,820	70.536,740	0,000	236.688,620
1917	12,132		0,000						
		20,565		0,000	10,00	205,650	70.742,390	0,000	236.688,620
1918	8,433		0,000						
		19,400		0,000	10,00	194,000	70.936,390	0,000	236.688,620
1919	10,967		0,000						
		24,174		0,000	10,00	241,740	71.178,130	0,000	236.688,620
1920	13,207		0,000						
		23,925		0,000	10,00	239,250	71.417,380	0,000	236.688,620
1921	10,718		0,000						
		19,568		0,000	10,00	195,680	71.613,060	0,000	236.688,620
1922	8,850		0,000						
		19,285		0,000	10,00	192,850	71.805,910	0,000	236.688,620
1923	10,435		0,000						
		22,084		0,000	10,00	220,840	72.026,750	0,000	236.688,620
1924	11,649		0,000						
		20,499		0,000	10,00	204,990	72.231,740	0,000	236.688,620

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1925	8,850		0,000						
		17,283		0,000	10,00	172,830	72.404,570	0,000	236.688,620
1926	8,433		0,000						
		19,001		0,000	10,00	190,010	72.594,580	0,000	236.688,620
1927	10,568		0,000						
		22,217		0,000	10,00	222,170	72.816,750	0,000	236.688,620
1928	11,649		0,000						
		20,499		0,000	10,00	204,990	73.021,740	0,000	236.688,620
1929	8,850		0,000						
		20,982		0,000	10,00	209,820	73.231,560	0,000	236.688,620
1930	12,132		0,000						
		20,565		0,000	10,00	205,650	73.437,210	0,000	236.688,620
1931	8,433		0,000						
		19,400		0,000	10,00	194,000	73.631,210	0,000	236.688,620
1932	10,967		0,000						
		24,174		0,000	10,00	241,740	73.872,950	0,000	236.688,620
1933	13,207		0,000						
		23,925		0,000	10,00	239,250	74.112,200	0,000	236.688,620
1934	10,718		0,000						
		19,568		0,000	10,00	195,680	74.307,880	0,000	236.688,620
1935	8,850		0,000						
		14,900		0,000	10,00	149,000	74.456,880	0,000	236.688,620
1936	6,050		0,000						
		10,560		0,000	10,00	105,600	74.562,480	0,000	236.688,620
1937	4,510		0,000						
		7,090		0,000	10,00	70,900	74.633,380	0,000	236.688,620
1938	2,580		0,000						
		4,087		0,000	10,00	40,870	74.674,250	0,000	236.688,620
1939	1,507		0,000						
		2,428		0,000	10,00	24,280	74.698,530	0,000	236.688,620
1940	0,921		0,000						
		3,019		0,000	10,00	30,190	74.728,720	0,000	236.688,620
1941	2,098		0,000						
		4,727		0,000	10,00	47,270	74.775,990	0,000	236.688,620
1942	2,629		0,000						
		3,952		0,000	10,00	39,520	74.815,510	0,000	236.688,620
1943	1,323		0,000						
		2,084		0,000	10,00	20,840	74.836,350	0,000	236.688,620
1944	0,761		0,000						
		1,071		6,892	10,00	10,710	74.847,060	68,920	236.757,540
1945	0,310		6,892						
		0,310		16,535	10,00	3,100	74.850,160	165,350	236.922,890
1946	0,000		9,643						
		0,000		27,606	10,00	0,000	74.850,160	276,060	237.198,950
1947	0,000		17,963						
		0,000		37,158	10,00	0,000	74.850,160	371,580	237.570,530
1948	0,000		19,195						
		0,000		39,975	10,00	0,000	74.850,160	399,750	237.970,280
1949	0,000		20,780						
		0,000		36,628	10,00	0,000	74.850,160	366,280	238.336,560
1950	0,000		15,848						
		0,000		30,794	10,00	0,000	74.850,160	307,940	238.644,500
1951	0,000		14,946						
		0,000		31,901	10,00	0,000	74.850,160	319,010	238.963,510
1952	0,000		16,955						

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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		30,035	10,00	0,000	74.850,160	300,350	239.263,860
1953	0,000		13,080						
		0,000		26,128	10,00	0,000	74.850,160	261,280	239.525,140
1954	0,000		13,048						
		0,000		23,328	10,00	0,000	74.850,160	233,280	239.758,420
1955	0,000		10,280						
		0,000		21,246	10,00	0,000	74.850,160	212,460	239.970,880
1956	0,000		10,966						
		0,000		19,816	10,00	0,000	74.850,160	198,160	240.169,040
1957	0,000		8,850						
		0,000		16,253	10,00	0,000	74.850,160	162,530	240.331,570
1958	0,000		7,403						
		0,000		13,126	10,00	0,000	74.850,160	131,260	240.462,830
1959	0,000		5,723						
		0,000		10,231	10,00	0,000	74.850,160	102,310	240.565,140
1960	0,000		4,508						
		0,000		9,594	10,00	0,000	74.850,160	95,940	240.661,080
1961	0,000		5,086						
		0,000		9,424	10,00	0,000	74.850,160	94,240	240.755,320
1962	0,000		4,338						
		0,000		8,342	10,00	0,000	74.850,160	83,420	240.838,740
1963	0,000		4,004						
		0,000		7,956	10,00	0,000	74.850,160	79,560	240.918,300
1964	0,000		3,952						
		2,955		7,474	10,00	29,550	74.879,710	74,740	240.993,040
1965	2,955		3,522						
		7,572		3,522	10,00	75,720	74.955,430	35,220	241.028,260
1966	4,617		0,000						
		10,665		0,000	10,00	106,650	75.062,080	0,000	241.028,260
1967	6,048		0,000						
		15,584		0,000	10,00	155,840	75.217,920	0,000	241.028,260
1968	9,536		0,000						
		17,152		0,000	10,00	171,520	75.389,440	0,000	241.028,260
1969	7,616		0,000						
		16,814		0,000	10,00	168,140	75.557,580	0,000	241.028,260
1970	9,198		0,000						
		22,405		0,000	10,00	224,050	75.781,630	0,000	241.028,260
1971	13,207		0,000						
		23,925		0,000	10,00	239,250	76.020,880	0,000	241.028,260
1972	10,718		0,000						
		19,568		0,000	10,00	195,680	76.216,560	0,000	241.028,260
1973	8,850		0,000						
		19,285		0,000	10,00	192,850	76.409,410	0,000	241.028,260
1974	10,435		0,000						
		18,051		0,000	10,00	180,510	76.589,920	0,000	241.028,260
1975	7,616		0,000						
		13,014		0,000	10,00	130,140	76.720,060	0,000	241.028,260
1976	5,398		0,000						
		11,448		0,000	10,00	114,480	76.834,540	0,000	241.028,260
1977	6,050		0,000						
		10,590		0,000	10,00	105,900	76.940,440	0,000	241.028,260
1978	4,540		0,000						
		8,712		0,000	10,00	87,120	77.027,560	0,000	241.028,260
1979	4,172		0,000						
		6,179		4,354	10,00	61,790	77.089,350	43,540	241.071,800

RODOVIA: PA-423

TRECHO: MONTE ALEGRE - ENTRONC. PA-254

EXTENSÃO: 40,0 Km

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
1980	2,007		4,354						
		2,007		10,990	10,00	20,070	77.109,420	109,900	241.181,700
1981	0,000		6,636						
		0,000		14,082	10,00	0,000	77.109,420	140,820	241.322,520
1982	0,000		7,446						
		0,000		16,733	10,00	0,000	77.109,420	167,330	241.489,850
1983	0,000		9,287						
		0,000		17,575	10,00	0,000	77.109,420	175,750	241.665,600
1984	0,000		8,288						
		0,000		15,024	10,00	0,000	77.109,420	150,240	241.815,840
1985	0,000		6,736						
		0,000		12,694	10,00	0,000	77.109,420	126,940	241.942,780
1986	0,000		5,958						
		0,000		10,296	10,00	0,000	77.109,420	102,960	242.045,740
1987	0,000		4,338						
		0,000		10,006	10,00	0,000	77.109,420	100,060	242.145,800
1988	0,000		5,668						
		0,000		14,670	10,00	0,000	77.109,420	146,700	242.292,500
1989	0,000		9,002						
		0,000		16,450	10,00	0,000	77.109,420	164,500	242.457,000
1990	0,000		7,448						
		0,000		15,318	10,00	0,000	77.109,420	153,180	242.610,180
1991	0,000		7,870						
		0,000		17,420	10,00	0,000	77.109,420	174,200	242.784,380
1992	0,000		9,550						
		0,000		14,940	10,00	0,000	77.109,420	149,400	242.933,780
1993	0,000		5,390						
		0,000		9,297	10,00	0,000	77.109,420	92,970	243.026,750
1994	0,000		3,907						
		0,000		6,399	10,00	0,000	77.109,420	63,990	243.090,740
1995	0,000		2,492						
		0,000		5,173	10,00	0,000	77.109,420	51,730	243.142,470
1996	0,000		2,681						
		0,000		9,431	10,00	0,000	77.109,420	94,310	243.236,780
1997	0,000		6,750						
		0,000		15,414	10,00	0,000	77.109,420	154,140	243.390,920
1998	0,000		8,664						
		0,000		21,406	10,00	0,000	77.109,420	214,060	243.604,980
1999	0,000		12,742						
		0,000		23,989	10,00	0,000	77.109,420	239,890	243.844,870
2000	0,000		11,247						
		0,000		18,969	10,00	0,000	77.109,420	189,690	244.034,560
2001	0,000		7,722						
		0,000		12,382	10,00	0,000	77.109,420	123,820	244.158,380
2002	0,000		4,660						
		0,000		5,087	10,00	0,000	77.109,420	50,870	244.209,250
2003	0,000		0,427						