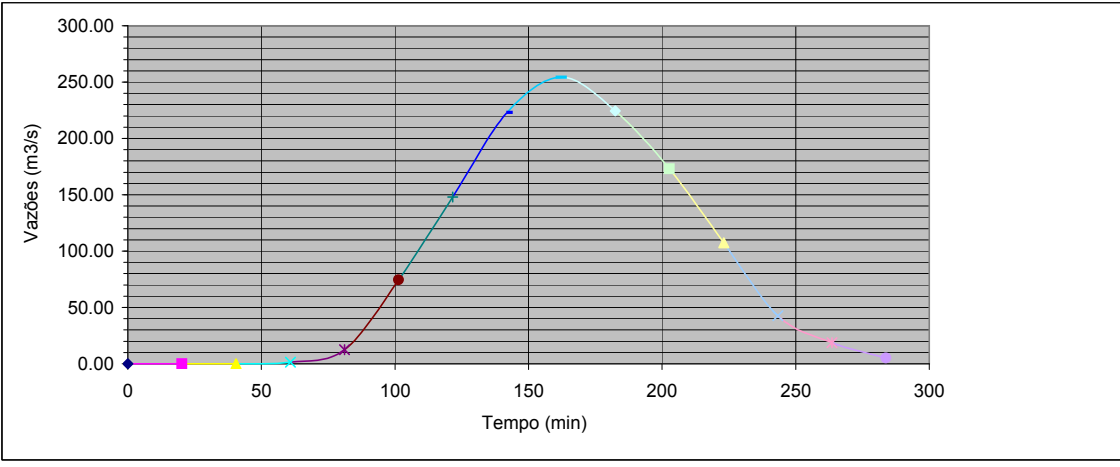


FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km		1253	394	BACIA: 293			Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
42.3	10.2	81.0	2.54	1.84	0.64	81	86	40.5	94	47.29	103	54.94
HIDROGRAMAS PARCIAIS - Tr =							100	anos	HUT =		4.77	m ³ /s/mm
Duração das Precipitações Parciais: $d = tc * 0,133$							0.34	20	HTS =		TR25	193.25 m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							1.69	102			TR50	225.61 m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							4.52	271			TR100	262.08 m ³ /s
d(h)	0.64	1.27	1.91	2.54	3.18	3.81	4.45	5.08				
d(min)	38.11	76.23	114.34	152.45	190.56	228.68	266.79	304.90				
P(mm)	59.97	80.08	93.31	103.48	111.88	119.12	125.51	131.27				
Pe(mm)	0.00	0.01	1.18	9.30	51.84	62.81	71.45	76.96				
ΔPe(mm)	0.00	0.01	1.17	8.12	42.54	10.97	8.64	5.51				

Δ Pe(mm)	d(min)	0.00	0.01	1.17	8.12	42.54	10.97	8.64	5.51	totais	OBRA:
0	0	0.00								0.00	
20	20	0.00	0.00							0.00	
41	41	0.00	0.01	0.00						0.01	
61	61	0.00	0.02	1.39	0.00					1.42	
81	81	0.00	0.04	2.79	9.68	0.00				12.51	
101	101	0.00	0.04	4.18	19.36	50.74	0.00			74.33	
122	122	0.00	0.03	4.46	29.04	101.48	13.08	0.00		148.10	
142	142	0.00	0.02	3.35	30.98	152.22	26.17	10.30	0.00	223.04	
162	162	0.00	0.01	2.23	23.24	162.37	39.25	20.61	6.57	254.28	PONTE
182	182	0.00	0.00	1.12	15.49	121.78	41.87	30.91	13.13	224.30	
203	203	0.00	0.00	0.00	7.75	81.19	31.40	32.97	19.70	173.00	
223	223	0.00	0.00	0.00	0.00	40.59	20.94	24.73	21.01	107.27	
243	243	0.00	0.00	0.00	0.00	0.00	10.47	16.49	15.76	42.71	
264	264	0.00	0.00	0.00	0.00	0.00	0.00	8.24	10.50	18.75	
284	284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25	5.25	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



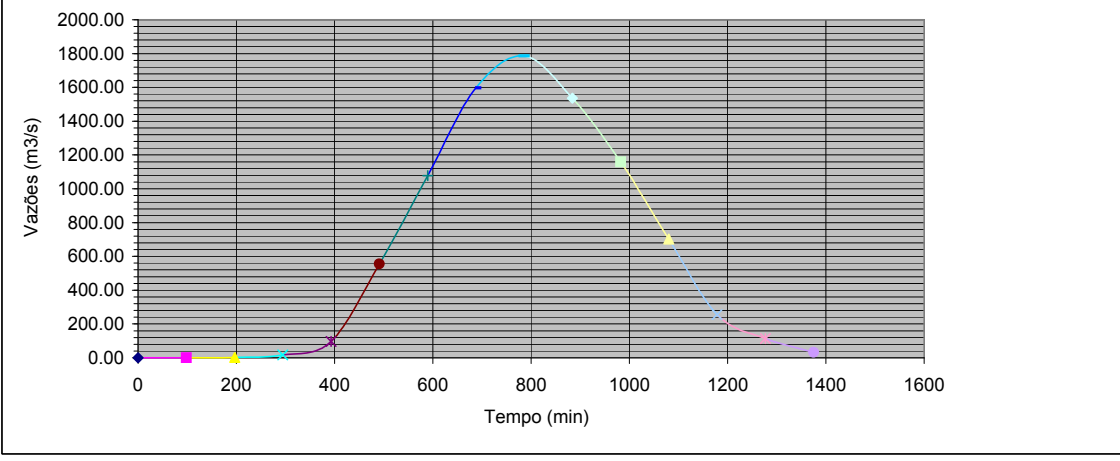
FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Preguiça

Curso d'água : km	1258	250	BACIA: 299				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
867.3	69.0	421.0	12.31	8.92	3.08	80	126	71.9	138	82.61	151	94.61

HIDROGRAMAS PARCIAIS - Tr = 100							100	anos	HUT =	20.22	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							1.64	98	HTS =	TR25	1452.82	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							8.20	492		TR50	1670.03	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							21.90	1314		TR100	1912.57	m ³ /s

d(h)	3.08	6.15	9.23	12.31	15.39	18.46	21.54	24.62		
d(min)	184.63	369.26	553.88	738.51	923.14	1107.77	1292.39	1477.02		
P(mm)	110.66	139.90	159.81	175.42	188.48	199.81	209.89	219.02		
Pe(mm)	0.00	0.31	3.10	15.70	90.92	106.16	118.27	126.16		
ΔPe(mm)	0.00	0.31	2.78	12.61	75.22	15.23	12.11	7.89		

Δ Pe(mm)											
d(min)	0.00	0.31	2.78	12.61	75.22	15.23	12.11	7.89	totais	OBRA:	
0	0.00								0.00		
98	0.00	0.00							0.00		
196	0.00	1.58	0.00						1.58		
295	0.00	3.15	14.07	0.00					17.22		
393	0.00	4.73	28.14	63.72	0.00				96.59		
491	0.00	5.04	42.21	127.44	380.17	0.00			554.87		
589	0.00	3.78	45.02	191.16	760.35	77.00	0.00		1077.31		
688	0.00	2.52	33.77	203.90	1140.52	153.99	61.23	0.00	1595.93		
786	0.00	1.26	22.51	152.93	1216.56	230.99	122.45	39.87	1786.57	PONTE	
884	0.00	0.00	11.26	101.95	912.42	246.39	183.68	79.75	1535.44		
982	0.00	0.00	0.00	50.98	608.28	184.79	195.92	119.62	1159.59		
1080	0.00	0.00	0.00	0.00	304.14	123.19	146.94	127.59	701.87		
1179	0.00	0.00	0.00	0.00	0.00	61.60	97.96	95.70	255.25		
1277	0.00	0.00	0.00	0.00	0.00	0.00	48.98	63.80	112.78		
1375	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.90	31.90		
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			0.00	0.00	0.00	0.00	0.00	0.00	0.00		



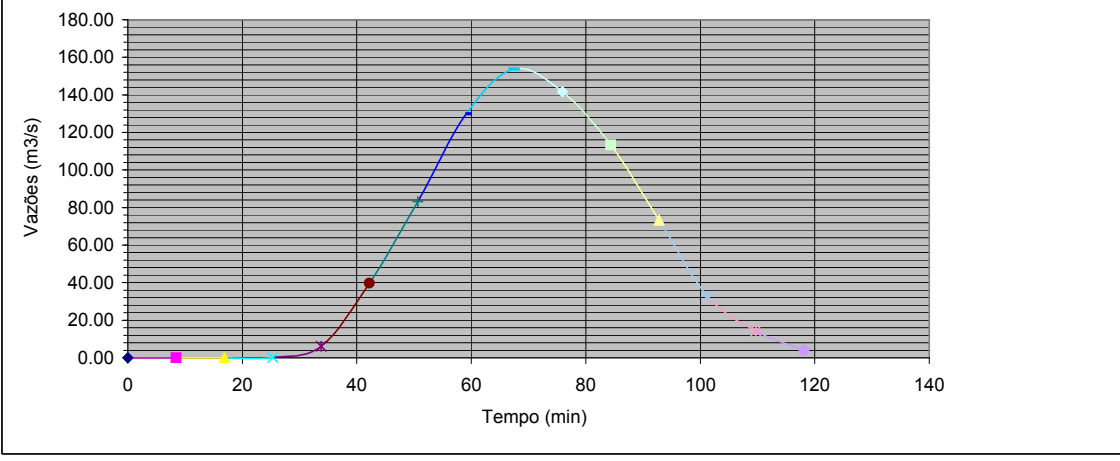
FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km	1260	975	BACIA: 305				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
18.1	6.4	193.0	1.06	0.77	0.26	79	63	20.7	70	24.95	76	29.80

HIDROGRAMAS PARCIAIS - Tr =							100	anos	HUT =	4.91	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							horas	minutos	HTS =	TR25	101.79	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							0.14	8		TR50	122.53	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							0.70	42		TR100	146.34	m ³ /s
							1.88	113				

d(h)	0.26	0.53	0.79	1.06	1.32	1.59	1.85	2.12		
d(min)	15.86	31.73	47.59	63.45	79.31	95.18	111.04	126.90		
P(mm)	38.50	55.12	66.10	74.47	81.32	87.17	92.31	96.91		
Pe(mm)	0.00	0.00	0.20	4.74	27.46	35.56	42.02	46.09		
ΔPe(mm)	0.00	0.00	0.20	4.54	22.71	8.10	6.47	4.07		

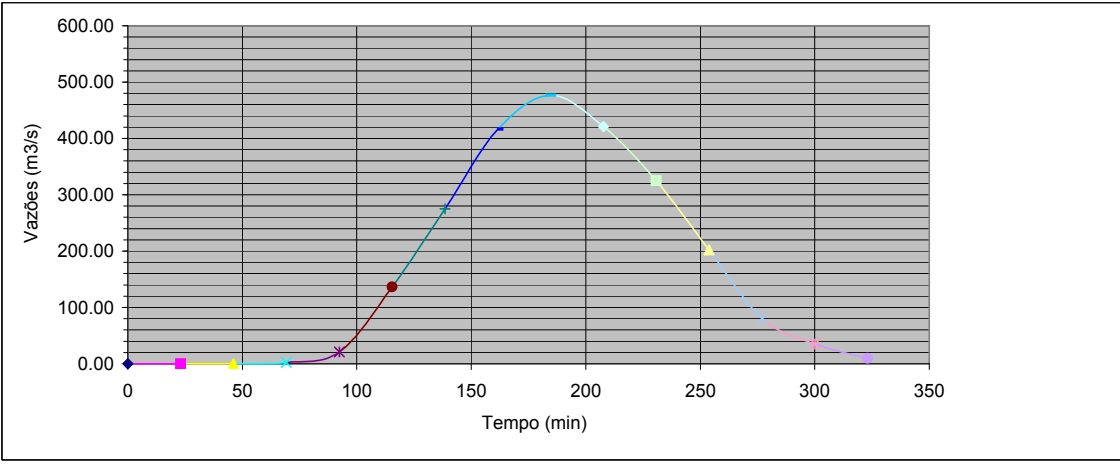
Δ Pe(mm)												
d(min)	0.00	0.00	0.20	4.54	22.71	8.10	6.47	4.07	totais	OBRA:		
0	0.00								0.00			
8	0.00	0.00							0.00			
17	0.00	0.00	0.00						0.00			
25	0.00	0.00	0.25	0.00					0.25			
34	0.00	0.00	0.50	5.57	0.00				6.07			
42	0.00	0.00	0.75	11.14	27.88	0.00			39.77			
51	0.00	0.00	0.80	16.72	55.77	9.94	0.00		83.23			
59	0.00	0.00	0.60	17.83	83.65	19.89	7.94	0.00	129.91			
68	0.00	0.00	0.40	13.37	89.23	29.83	15.87	5.00	153.71	BUEIRO		
76	0.00	0.00	0.20	8.92	66.92	31.82	23.81	10.00	141.67			
84	0.00	0.00	0.00	4.46	44.62	23.87	25.40	15.00	113.34			
93	0.00	0.00	0.00	0.00	22.31	15.91	19.05	16.00	73.27			
101	0.00	0.00	0.00	0.00	0.00	7.96	12.70	12.00	32.66			
110	0.00	0.00	0.00	0.00	0.00	0.00	6.35	8.00	14.35			
118	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00			
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
			0.00	0.00	0.00	0.00	0.00	0.00	0.00			



FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km		1267	928	BACIA: 321			Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
91.6	15.8	217.0	2.89	2.10	0.72	80	87	39.4	95	46.14	104	53.74
HIDROGRAMAS PARCIAIS - Tr =							100	anos		HUT =	9.08	m ³ /s/mm
Duração das Precipitações Parciais: $d = tc * 0,133$							0.38	23	HTS =		TR25	357.91 m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							1.93	116			TR50	419.12 m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							5.15	309			TR100	488.24 m ³ /s
d(h)	0.72	1.45	2.17	2.89	3.62	4.34	5.06	5.79				
d(min)	43.39	86.78	130.16	173.55	216.94	260.33	303.71	347.10				
P(mm)	63.52	84.18	97.80	108.30	116.99	124.48	131.10	137.06				
Pe(mm)	0.00	0.00	0.94	8.41	50.80	61.57	70.08	75.52				
ΔPe(mm)	0.00	0.00	0.94	7.47	42.40	10.77	8.51	5.44				

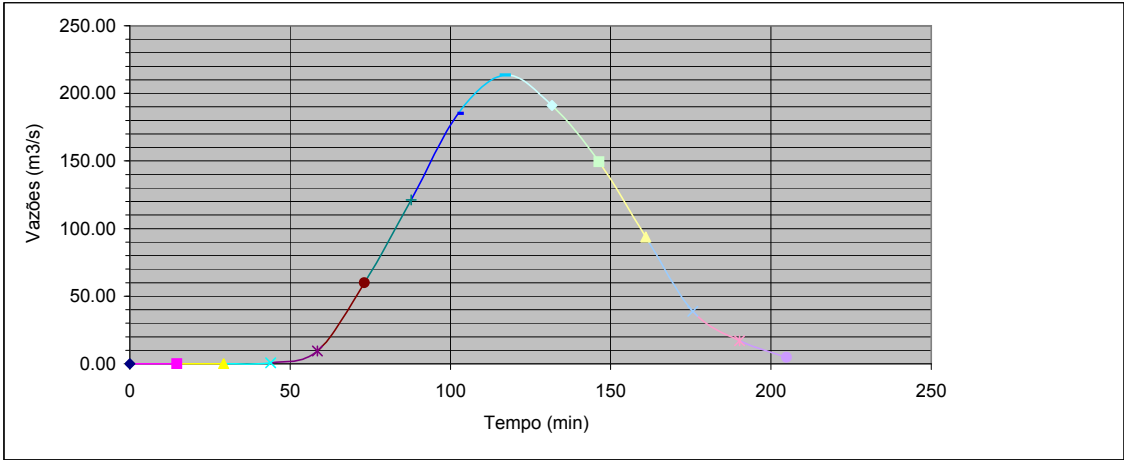
Δ Pe(mm)	d(min)	0.00	0.00	0.94	7.47	42.40	10.77	8.51	5.44	totais	OBRA:
0	0	0.00								0.00	
23	23	0.00	0.00							0.00	
46	46	0.00	0.00	0.00						0.00	
69	69	0.00	0.00	2.12	0.00					2.12	
92	92	0.00	0.00	4.25	16.97	0.00				21.22	
115	115	0.00	0.00	6.37	33.93	96.29	0.00			136.59	
138	138	0.00	0.00	6.80	50.90	192.58	24.45	0.00		274.72	
162	162	0.00	0.00	5.10	54.29	288.87	48.90	19.32	0.00	416.48	
185	185	0.00	0.00	3.40	40.72	308.12	73.35	38.64	12.36	476.60	PONTE
208	208	0.00	0.00	1.70	27.14	231.09	78.24	57.96	24.73	420.87	
231	231	0.00	0.00	0.00	13.57	154.06	58.68	61.83	37.09	325.23	
254	254	0.00	0.00	0.00	0.00	77.03	39.12	46.37	39.56	202.08	
277	277	0.00	0.00	0.00	0.00	0.00	19.56	30.91	29.67	80.15	
300	300	0.00	0.00	0.00	0.00	0.00	0.00	15.46	19.78	35.24	
323	323	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.89	9.89	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	



FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Preguiça**

Curso d'água : km		1271	369	BACIA: 330			Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
30.8	11.8	295.0	1.83	1.33	0.46	80	77	32.3	85	38.04	93	44.61
HIDROGRAMAS PARCIAIS - Tr =							100	anos		HUT =	4.81	m ³ /s/mm
Duração das Precipitações Parciais: $d = tc * 0,133$							horas	minutos	HTS =	TR25	155.27	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							0.24	15		TR50	183.13	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							1.22	73		TR100	214.73	m ³ /s
							3.26	196				
d(h)	0.46	0.92	1.38	1.83	2.29	2.75	3.21	3.67				
d(min)	27.51	55.02	82.52	110.03	137.54	165.05	192.55	220.06				
P(mm)	51.47	70.26	82.57	92.00	99.76	106.42	112.29	117.56				
Pe(mm)	0.00	0.00	0.66	7.27	41.75	51.65	59.46	64.41				
ΔPe(mm)	0.00	0.00	0.66	6.61	34.48	9.89	7.81	4.95				

Δ Pe(mm)										
d(min)	0.00	0.00	0.66	6.61	34.48	9.89	7.81	4.95	totais	OBRA:
0	0.00								0.00	
15	0.00	0.00							0.00	
29	0.00	0.00	0.00						0.00	
44	0.00	0.00	0.79	0.00					0.79	
59	0.00	0.00	1.59	7.96	0.00				9.55	
73	0.00	0.00	2.38	15.91	41.50	0.00			59.80	
88	0.00	0.00	2.54	23.87	83.00	11.91	0.00		121.32	
102	0.00	0.00	1.91	25.46	124.49	23.81	9.40	0.00	185.07	
117	0.00	0.00	1.27	19.09	132.79	35.72	18.79	5.96	213.63	PONTE
132	0.00	0.00	0.64	12.73	99.60	38.10	28.19	11.91	191.17	
146	0.00	0.00	0.00	6.36	66.40	28.58	30.07	17.87	149.28	
161	0.00	0.00	0.00	0.00	33.20	19.05	22.55	19.06	93.86	
176	0.00	0.00	0.00	0.00	0.00	9.53	15.04	14.30	38.86	
190	0.00	0.00	0.00	0.00	0.00	0.00	7.52	9.53	17.05	
205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.77	4.77	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	



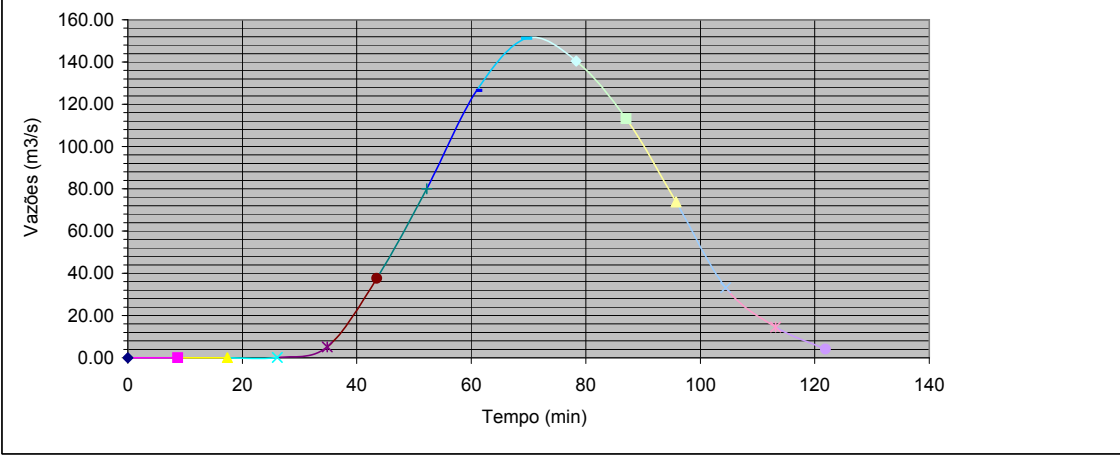
FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água :	km	1279	396	BACIA: 356			Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
20.6	7.7	314.0	1.09	0.79	0.27	78	63	19.3	68	22.51	73	26.16

HIDROGRAMAS PARCIAIS - Tr =							100	anos	HUT =	5.40	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							0.15	9	HTS =	TR25	104.04	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							0.73	44		TR50	121.64	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							1.94	116		TR100	141.41	m ³ /s

d(h)	0.27	0.55	0.82	1.09	1.36	1.64	1.91	2.18		
d(min)	16.36	32.73	49.09	65.45	81.81	98.18	114.54	130.90		
P(mm)	36.89	52.93	63.51	71.56	78.13	83.73	88.65	93.05		
Pe(mm)	0.00	0.00	0.07	3.72	24.01	31.47	37.45	41.21		
ΔPe(mm)	0.00	0.00	0.07	3.65	20.29	7.46	5.98	3.76		

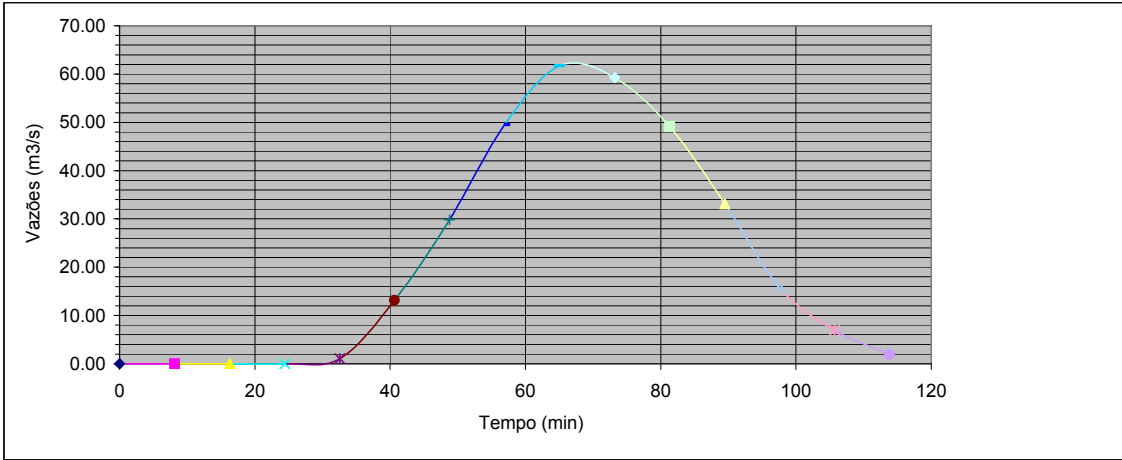
Δ Pe(mm)	d(min)	0.00	0.00	0.07	3.65	20.29	7.46	5.98	3.76	totais	OBRA:
	0	0.00								0.00	
	9	0.00	0.00							0.00	
	17	0.00	0.00	0.00						0.00	
	26	0.00	0.00	0.09	0.00					0.09	
	35	0.00	0.00	0.18	4.93	0.00				5.12	
	44	0.00	0.00	0.28	9.86	27.42	0.00			37.56	
	52	0.00	0.00	0.30	14.80	54.83	10.08	0.00		80.01	
	61	0.00	0.00	0.22	15.78	82.25	20.17	8.08	0.00	126.50	
	70	0.00	0.00	0.15	11.84	87.73	30.25	16.16	5.08	151.20	PONTE
	78	0.00	0.00	0.07	7.89	65.80	32.27	24.23	10.17	140.43	
	87	0.00	0.00	0.00	3.95	43.87	24.20	25.85	15.25	113.11	
	96	0.00	0.00	0.00	0.00	21.93	16.13	19.39	16.26	73.72	
	104	0.00	0.00	0.00	0.00	0.00	8.07	12.93	12.20	33.19	
	113	0.00	0.00	0.00	0.00	0.00	0.00	6.46	8.13	14.60	
	122	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.07	4.07	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	



FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água :		km	1279	827	BACIA: 357			Tr = 25		Tr = 50		Tr = 100	
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)	
12.7	7.5	345.0	1.02	0.74	0.25	75	61	14.8	66	17.56	71	20.74	
HIDROGRAMAS PARCIAIS - Tr =								25	anos	HUT = 3.58 m ³ /s/mm			
Duração das Precipitações Parciais: $d = tc * 0,133$								0.14	8	HTS = TR25 52.88 m ³ /s			
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$								0.68	41	TR50 62.92 m ³ /s			
Cálculo do tempo de base: $Tb' = 2,67Tp'$								1.81	109	TR100 74.33 m ³ /s			
d(h)	0.25	0.51	0.76	1.02	1.27	1.53	1.78	2.04					
d(min)	15.29	30.58	45.86	61.15	76.44	91.73	107.01	122.30					
P(mm)	30.50	44.06	53.03	59.85	65.42	70.17	74.33	78.06					
Pe(mm)	0.00	0.00	0.00	1.19	13.47	18.65	22.91	25.63					
ΔPe(mm)	0.00	0.00	0.00	1.19	12.27	5.18	4.26	2.72					

Δ Pe(mm)	0.00	0.00	0.00	1.19	12.27	5.18	4.26	2.72	totais	OBRA:					
d(min)	0	8	16	24	33	41	49	57	65	73	81	89	98	106	114
	0.00	0.00	0.00	0.00	0.00	1.07	2.14	3.21	3.43	2.57	1.71	0.86	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	11.00	21.99	32.99	35.19	35.19	26.39	17.59	8.80	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	4.64	9.28	13.92	13.92	14.85	11.14	6.11	3.05	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.82	7.64	7.64	11.45	9.16	5.84	3.90	1.95
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	2.43	4.87	7.79	5.84	3.90	1.95
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



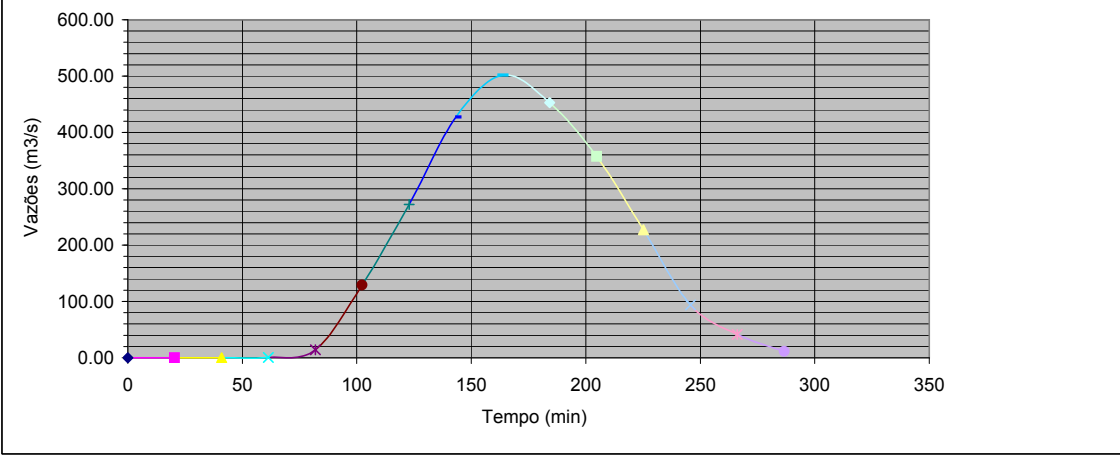
FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km	1293	886	BACIA: 399				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
115.6	12.0	129.0	2.57	1.86	0.64	76	81	28.5	87	32.94	94	37.93

HIDROGRAMAS PARCIAIS - Tr =							100	anos	HUT =	12.92	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							horas	minutos	HTS =	TR25	367.83	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							0.34	20		TR50	425.67	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							1.71	103		TR100	490.23	m ³ /s
							4.57	274				

d(h)	0.64	1.28	1.92	2.57	3.21	3.85	4.49	5.13		
d(min)	38.49	76.98	115.47	153.96	192.45	230.94	269.43	307.92		
P(mm)	57.06	76.30	88.91	98.58	106.54	113.39	119.43	124.87		
Pe(mm)	0.00	0.00	0.10	4.29	35.58	44.39	51.42	55.91		
ΔPe(mm)	0.00	0.00	0.10	4.19	31.29	8.81	7.03	4.49		

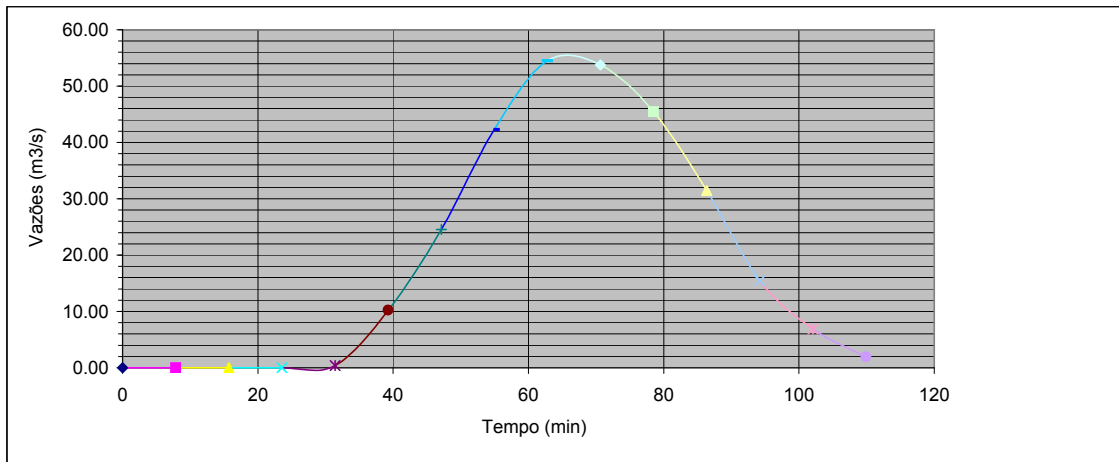
Δ Pe(mm)											
d(min)	0.00	0.00	0.10	4.19	31.29	8.81	7.03	4.49	totais	OBRA:	
0	0.00								0.00		
20	0.00	0.00							0.00		
41	0.00	0.00	0.00						0.00		
61	0.00	0.00	0.32	0.00					0.32		
82	0.00	0.00	0.64	13.55	0.00				14.19		
102	0.00	0.00	0.96	27.10	101.08	0.00			129.14		
123	0.00	0.00	1.02	40.65	202.16	28.48	0.00		272.31		
143	0.00	0.00	0.76	43.36	303.24	56.95	22.70	0.00	427.02		
164	0.00	0.00	0.51	32.52	323.46	85.43	45.40	14.52	501.84	PONTE	
184	0.00	0.00	0.25	21.68	242.59	91.12	68.11	29.05	452.80		
205	0.00	0.00	0.00	10.84	161.73	68.34	72.65	43.57	357.13		
225	0.00	0.00	0.00	0.00	80.86	45.56	54.49	46.47	227.38		
246	0.00	0.00	0.00	0.00	0.00	22.78	36.32	34.85	93.96		
266	0.00	0.00	0.00	0.00	0.00	0.00	18.16	23.24	41.40		
287	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.62	11.62		
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			0.00	0.00	0.00	0.00	0.00	0.00	0.00		



FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica

Curso d'água : km	1302	967	BACIA: 422				Tr = 25	Tr = 50		Tr = 100			
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)	
14.2	6.1	201.0	0.98	0.71	0.25	71	61	10.4	65	12.73	70	15.41	
HIDROGRAMAS PARCIAIS - Tr =							25	anos		HUT =	4.14	m ³ /s/mm	
Duração das Precipitações Parciais: d = tc*0,133							0.13	8	HTS =		TR25	43.10	m ³ /s
Cálculo do Tempo de Pico: Tp' = d/2 + 0,6 tc							0.66	39			TR50	52.70	m ³ /s
Cálculo do tempo de base: Tb' = 2,67Tp'							1.75	105			TR100	63.75	m ³ /s
d(h)	0.25	0.49	0.74	0.98	1.23	1.48	1.72	1.97					
d(min)	14.76	29.52	44.27	59.03	73.79	88.55	103.30	118.06					
P(mm)	29.87	43.31	52.22	58.99	64.52	69.24	73.37	77.06					
Pe(mm)	0.00	0.00	0.00	0.40	9.50	13.82	17.46	19.81					
ΔPe(mm)	0.00	0.00	0.00	0.40	9.10	4.32	3.64	2.35					

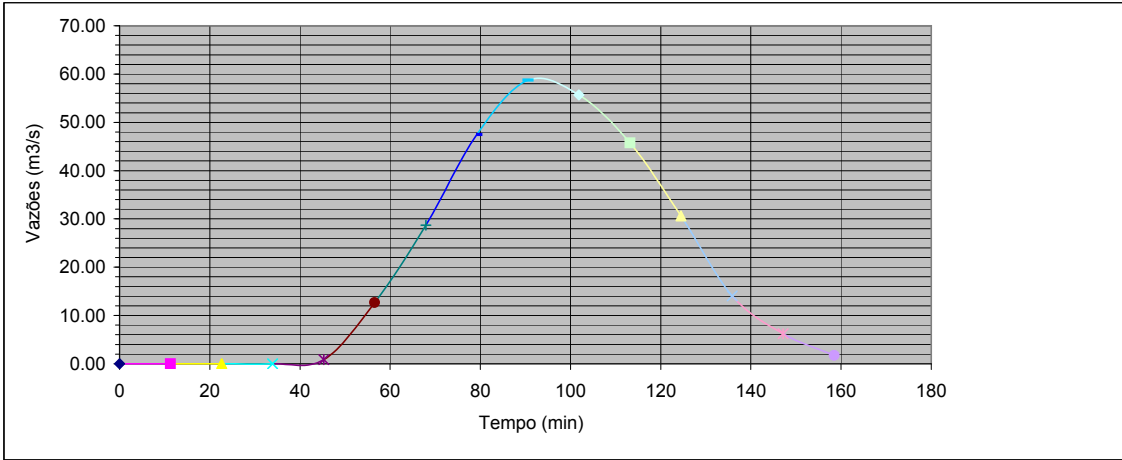
Δ Pe(mm)										OBRA:
d(min)	0.00	0.00	0.00	0.40	9.10	4.32	3.64	2.35	totais	
0	0.00								0.00	
8	0.00	0.00							0.00	
16	0.00	0.00	0.00						0.00	
24	0.00	0.00	0.00	0.00					0.00	
31	0.00	0.00	0.00	0.41	0.00				0.41	
39	0.00	0.00	0.00	0.82	9.42	0.00			10.24	
47	0.00	0.00	0.00	1.24	18.83	4.47	0.00		24.54	
55	0.00	0.00	0.00	1.32	28.25	8.94	3.77	0.00	42.28	
63	0.00	0.00	0.00	0.99	30.13	13.42	7.53	2.43	54.50	BUEIRO
71	0.00	0.00	0.00	0.66	22.60	14.31	11.30	4.86	53.73	
79	0.00	0.00	0.00	0.33	15.07	10.73	12.05	7.29	45.47	
86	0.00	0.00	0.00	0.00	7.53	7.16	9.04	7.78	31.50	
94	0.00	0.00	0.00	0.00	0.00	3.58	6.02	5.83	15.44	
102	0.00	0.00	0.00	0.00	0.00	0.00	3.01	3.89	6.90	
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.94	1.94	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	



FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Preguiça

Curso d'água :		km	1306	730	BACIA: 429			Tr = 25	Tr = 50		Tr = 100				
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)			
14.6	8.7	228.0	1.42	1.03	0.35	73	70	17.4	75	20.65	81	24.33			
HIDROGRAMAS PARCIAIS - Tr =							25	anos		HUT =			2.96	m ³ /s/mm	
							horas	minutos	HTS =			TR25	51.47	m ³ /s	
Duração das Precipitações Parciais:							d = tc*0,133		0.19	11	TR50			61.06	m ³ /s
Cálculo do Tempo de Pico:							Tp' = d/2 + 0,6 tc		0.95	57	TR100			71.94	m ³ /s
Cálculo do tempo de base:							Tb' = 2,67Tp'		2.52	151					
d(h)	0.35	0.71	1.06	1.42	1.77	2.13	2.48	2.84							
d(min)	21.28	42.56	63.84	85.12	106.40	127.68	148.96	170.24							
P(mm)	36.68	51.32	60.91	68.20	74.18	79.28	83.77	87.79							
Pe(mm)	0.00	0.00	0.00	1.14	16.02	21.66	26.27	29.22							
ΔPe(mm)	0.00	0.00	0.00	1.14	14.88	5.63	4.61	2.95							

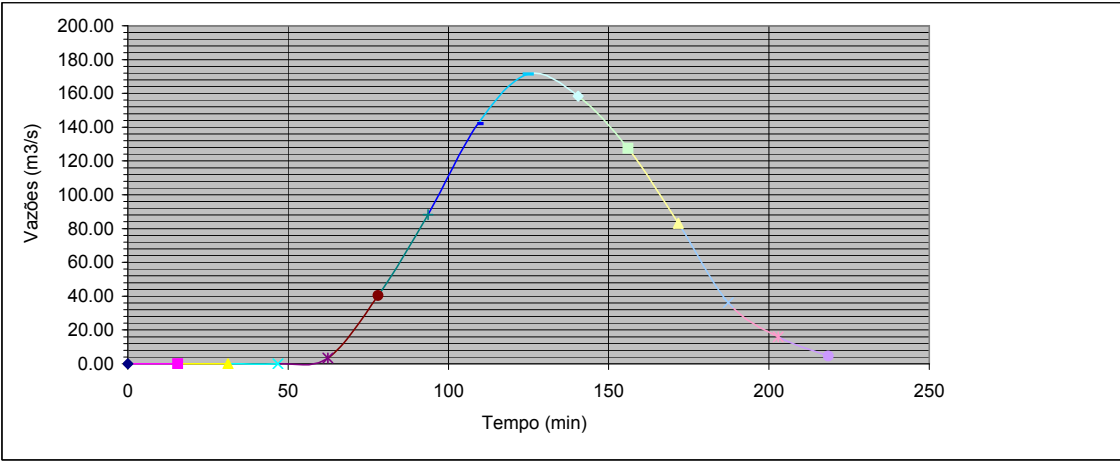
Δ Pe(mm)	d(min)	0.00	0.00	0.00	1.14	14.88	5.63	4.61	2.95	totais	OBRA:
0	0	0.00								0.00	
11	11	0.00	0.00							0.00	
23	23	0.00	0.00	0.00						0.00	
34	34	0.00	0.00	0.00	0.00					0.00	
45	45	0.00	0.00	0.00	0.85	0.00				0.85	
57	57	0.00	0.00	0.00	1.69	11.00	0.00			12.69	
68	68	0.00	0.00	0.00	2.54	22.00	4.16	0.00		28.70	
79	79	0.00	0.00	0.00	2.71	33.00	8.33	3.41	0.00	47.44	
91	91	0.00	0.00	0.00	2.03	35.20	12.49	6.81	2.18	58.71	BUEIRO
102	102	0.00	0.00	0.00	1.35	26.40	13.33	10.22	4.37	55.66	
113	113	0.00	0.00	0.00	0.68	17.60	9.99	10.90	6.55	45.72	
125	125	0.00	0.00	0.00	0.00	8.80	6.66	8.18	6.99	30.62	
136	136	0.00	0.00	0.00	0.00	0.00	3.33	5.45	5.24	14.02	
147	147	0.00	0.00	0.00	0.00	0.00	0.00	2.73	3.49	6.22	
158	158	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	1.75	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Preguiça

Curso d'água : km	1310	471	BACIA: 436				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
38.1	9.7	140.0	1.96	1.42	0.49	72	77	20.5	83	24.26	90	28.45
HIDROGRAMAS PARCIAIS - Tr =							100	anos		HUT = 5.59 m ³ /s/mm		
							horas	minutos	HTS =			
Duração das Precipitações Parciais: d = tc*0,133							0.26	16	TR25 114.94 m ³ /s			
Cálculo do Tempo de Pico: Tp' = d/2 + 0,6 tc							1.30	78	TR50 135.69 m ³ /s			
Cálculo do tempo de base: Tb' = 2,67Tp'							3.48	209	TR100 159.13 m ³ /s			
d(h)	0.49	0.98	1.47	1.96	2.45	2.93	3.42	3.91				
d(min)	29.34	58.68	88.02	117.36	146.70	176.04	205.38	234.72				
P(mm)	50.23	68.45	80.35	89.44	96.91	103.31	108.95	114.02				
Pe(mm)	0.00	0.00	0.00	2.42	26.45	34.22	40.48	44.49				
ΔPe(mm)	0.00	0.00	0.00	2.42	24.03	7.76	6.26	4.01				

Δ Pe(mm)	d(min)	0.00	0.00	0.00	2.42	24.03	7.76	6.26	4.01	totais	OBRA:
	0	0.00								0.00	
	16	0.00	0.00							0.00	
	31	0.00	0.00	0.00						0.00	
	47	0.00	0.00	0.00	0.00					0.00	
	62	0.00	0.00	0.00	3.38	0.00				3.38	
	78	0.00	0.00	0.00	6.77	33.61	0.00			40.38	
	94	0.00	0.00	0.00	10.15	67.22	10.86	0.00		88.23	
	109	0.00	0.00	0.00	10.83	100.83	21.72	8.76	0.00	142.13	
	125	0.00	0.00	0.00	8.12	107.55	32.58	17.52	5.61	171.38	PONTE
	140	0.00	0.00	0.00	5.41	80.67	34.75	26.27	11.22	158.32	
	156	0.00	0.00	0.00	2.71	53.78	26.06	28.03	16.83	127.40	
	172	0.00	0.00	0.00	0.00	26.89	17.37	21.02	17.95	83.23	
	187	0.00	0.00	0.00	0.00	0.00	8.69	14.01	13.46	36.16	
	203	0.00	0.00	0.00	0.00	0.00	0.00	7.01	8.97	15.98	
	219	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	4.49	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



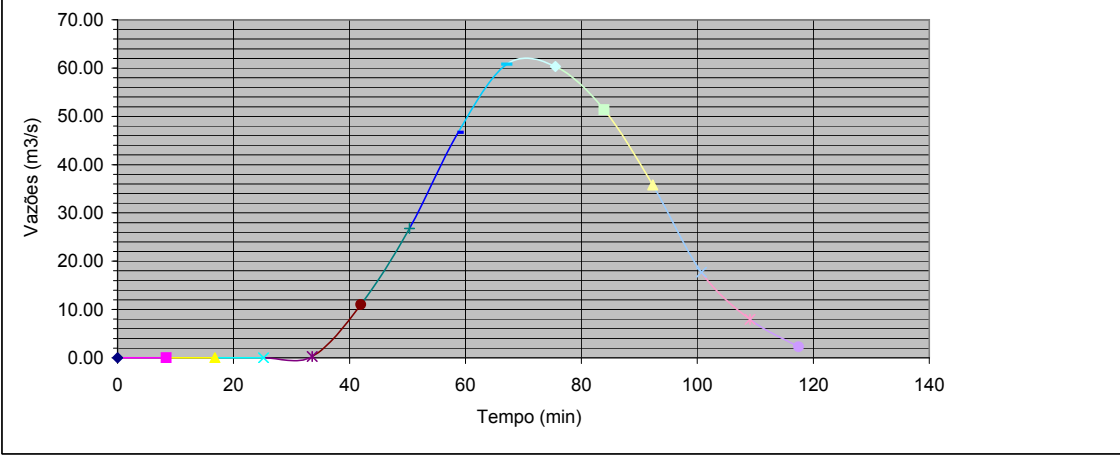
FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica

Curso d'água : km	1319	124	BACIA: 461				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
18.2	6.8	235.0	1.05	0.76	0.26	69	62	9.5	67	11.69	72	14.28

HIDROGRAMAS PARCIAIS - Tr = 25							25	anos	HUT =	4.95	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							horas	minutos	HTS =	TR25	46.87	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							0.14	8		TR50	57.93	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							0.70	42		TR100	70.75	m ³ /s
							1.87	112				

d(h)	0.26	0.53	0.79	1.05	1.31	1.58	1.84	2.10		
d(min)	15.78	31.55	47.33	63.10	78.88	94.65	110.43	126.20		
P(mm)	31.06	44.73	53.75	60.62	66.23	71.01	75.20	78.95		
Pe(mm)	0.00	0.00	0.00	0.21	8.65	12.76	16.24	18.50		
ΔPe(mm)	0.00	0.00	0.00	0.21	8.44	4.11	3.48	2.26		

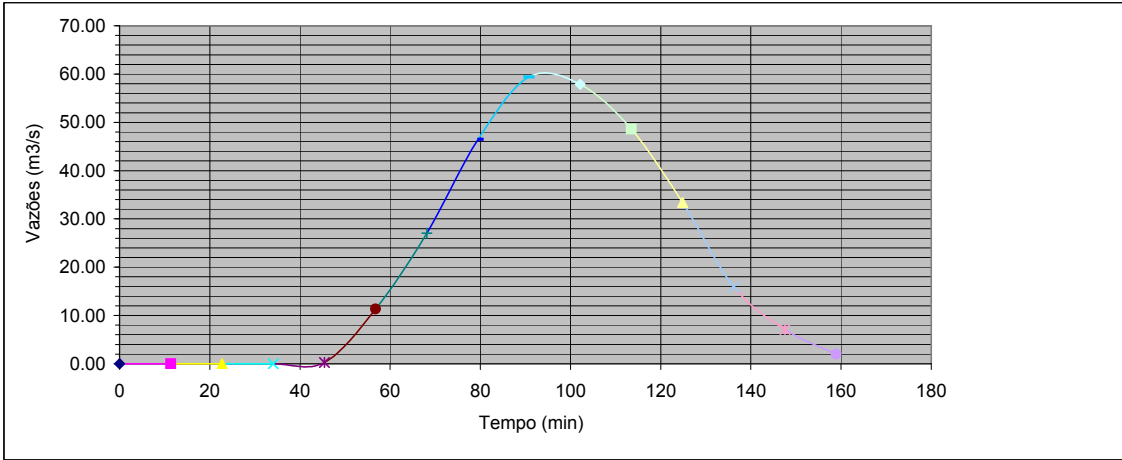
Δ Pe(mm)											
d(min)	0.00	0.00	0.00	0.21	8.44	4.11	3.48	2.26	totais	OBRA:	
0	0.00								0.00		
8	0.00	0.00							0.00		
17	0.00	0.00	0.00						0.00		
25	0.00	0.00	0.00	0.00					0.00		
34	0.00	0.00	0.00	0.26	0.00				0.26		
42	0.00	0.00	0.00	0.52	10.46	0.00			10.97		
50	0.00	0.00	0.00	0.77	20.91	5.09	0.00		26.78		
59	0.00	0.00	0.00	0.83	31.37	10.18	4.31	0.00	46.69		
67	0.00	0.00	0.00	0.62	33.46	15.27	8.63	2.80	60.78	BUEIRO	
76	0.00	0.00	0.00	0.41	25.09	16.29	12.94	5.60	60.34		
84	0.00	0.00	0.00	0.21	16.73	12.21	13.81	8.40	51.36		
92	0.00	0.00	0.00	0.00	8.36	8.14	10.35	8.96	35.82		
101	0.00	0.00	0.00	0.00	0.00	4.07	6.90	6.72	17.69		
109	0.00	0.00	0.00	0.00	0.00	0.00	3.45	4.48	7.93		
117	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24	2.24		
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			0.00	0.00	0.00	0.00	0.00	0.00	0.00		



FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Preguiça

Curso d'água :		km	1336	498	BACIA: 514			Tr = 25	Tr = 50		Tr = 100	
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
19.7	9.7	314.0	1.42	1.03	0.36	68	70	12.2	75	14.84	81	17.94
HIDROGRAMAS PARCIAIS - Tr =							25	anos		HUT = 3.97 m ³ /s/mm		
Duração das Precipitações Parciais: d = tc*0,133							0.19	11		HTS = TR25 48.18 m ³ /s		
Cálculo do Tempo de Pico: Tp' = d/2 + 0,6 tc							0.95	57		TR50 58.84 m ³ /s		
Cálculo do tempo de base: Tb' = 2,67Tp'							2.53	152		TR100 71.12 m ³ /s		
d(h)	0.36	0.71	1.07	1.42	1.78	2.13	2.49	2.85				
d(min)	21.34	42.68	64.01	85.35	106.69	128.03	149.36	170.70				
P(mm)	36.73	51.38	60.97	68.27	74.25	79.36	83.85	87.87				
Pe(mm)	0.00	0.00	0.00	0.27	11.19	15.86	19.76	22.30				
ΔPe(mm)	0.00	0.00	0.00	0.27	10.91	4.67	3.91	2.54				

Δ Pe(mm)	d(min)	0.00	0.00	0.00	0.27	10.91	4.67	3.91	2.54	totais	OBRA:
0	0	0.00								0.00	
11	11	0.00	0.00							0.00	
23	23	0.00	0.00	0.00						0.00	
34	34	0.00	0.00	0.00	0.00					0.00	
45	45	0.00	0.00	0.00	0.27	0.00				0.27	
57	57	0.00	0.00	0.00	0.54	10.82	0.00			11.36	
68	68	0.00	0.00	0.00	0.81	21.64	4.63	0.00		27.08	
79	79	0.00	0.00	0.00	0.87	32.45	9.26	3.87	0.00	46.45	
91	91	0.00	0.00	0.00	0.65	34.62	13.89	7.75	2.51	59.41	BUEIRO
102	102	0.00	0.00	0.00	0.43	25.96	14.81	11.62	5.03	57.86	
114	114	0.00	0.00	0.00	0.22	17.31	11.11	12.39	7.54	48.57	
125	125	0.00	0.00	0.00	0.00	8.65	7.41	9.30	8.05	33.40	
136	136	0.00	0.00	0.00	0.00	0.00	3.70	6.20	6.04	15.94	
148	148	0.00	0.00	0.00	0.00	0.00	0.00	3.10	4.02	7.12	
159	159	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	2.01	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



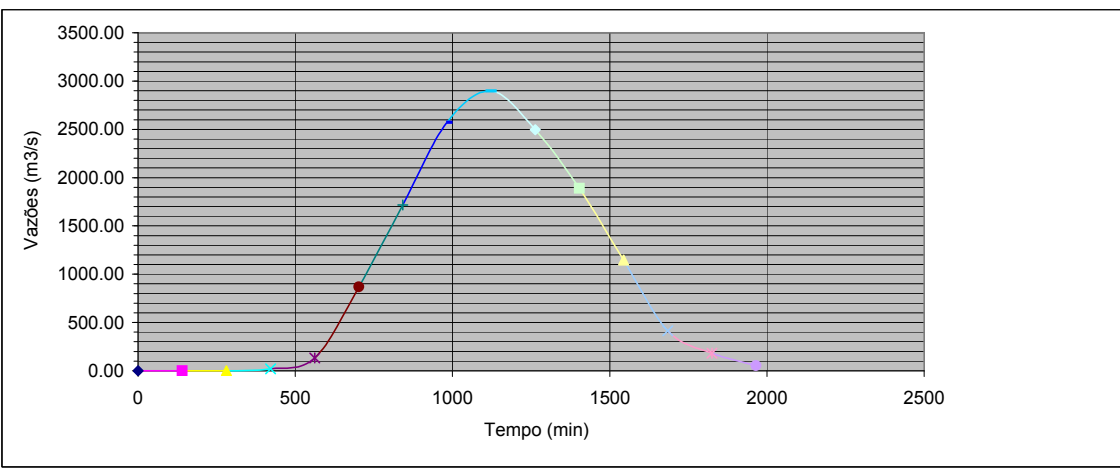
FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km	1338	195	BACIA: 520				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
2068.8	92.1	395.0	17.59	12.75	4.40	78	131	72.3	142	81.25	153	91.02

HIDROGRAMAS PARCIAIS - Tr = 100							100	anos	HUT =	33.74	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							2.34	140	HTS =	TR25	2440.64	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							11.72	703		TR50	2741.49	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							31.30	1878		TR100	3071.21	m ³ /s

d(h)	4.40	8.80	13.19	17.59	21.99	26.39	30.78	35.18		
d(min)	263.86	527.72	791.57	1055.43	1319.29	1583.15	1847.00	2110.86		
P(mm)	118.60	148.93	169.61	185.84	199.41	211.19	221.66	231.14		
Pe(mm)	0.00	0.11	2.23	13.36	87.48	102.32	114.15	121.87		
ΔPe(mm)	0.00	0.11	2.13	11.13	74.12	14.84	11.83	7.71		

Δ Pe(mm)	d(min)	0.00	0.11	2.13	11.13	74.12	14.84	11.83	7.71	totais	OBRA:
0	0	0.00								0.00	
140	140	0.00	0.00							0.00	
281	281	0.00	0.92	0.00						0.92	
421	421	0.00	1.84	17.93	0.00					19.77	
561	561	0.00	2.76	35.86	93.86	0.00				132.48	
702	702	0.00	2.95	53.79	187.71	625.25	0.00			869.70	
842	842	0.00	2.21	57.38	281.57	1250.50	125.19	0.00		1716.85	
983	983	0.00	1.47	43.03	300.34	1875.74	250.39	99.79	0.00	2570.77	
1123	1123	0.00	0.74	28.69	225.26	2000.79	375.58	199.59	65.05	2895.69	PONTE
1263	1263	0.00	0.00	14.34	150.17	1500.59	400.62	299.38	130.09	2495.21	
1404	1404	0.00	0.00	0.00	75.09	1000.40	300.47	319.34	195.14	1890.43	
1544	1544	0.00	0.00	0.00	0.00	500.20	200.31	239.50	208.15	1148.16	
1684	1684	0.00	0.00	0.00	0.00	0.00	100.16	159.67	156.11	415.94	
1825	1825	0.00	0.00	0.00	0.00	0.00	0.00	79.83	104.08	183.91	
1965	1965	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.04	52.04	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	



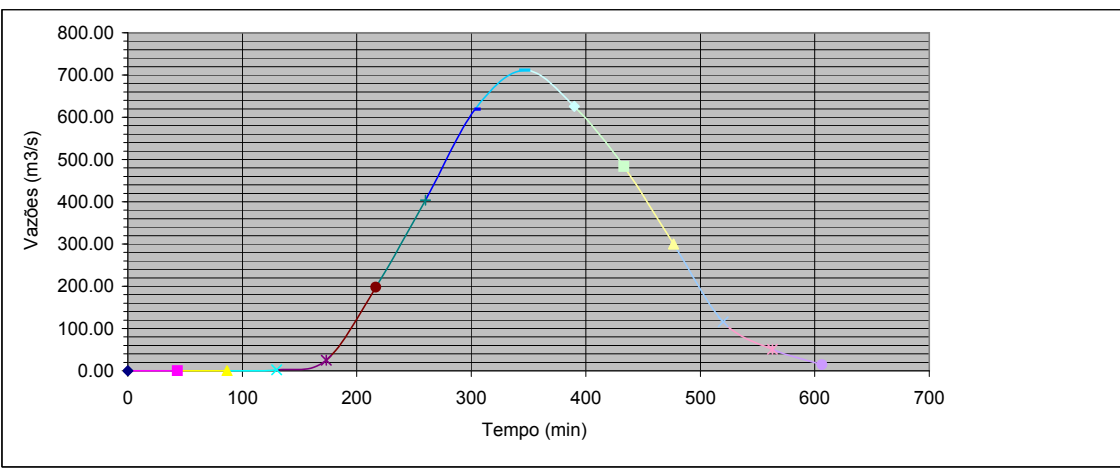
FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km	1348	119	BACIA: 557				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
237.1	33.7	411.0	5.43	3.94	1.36	77	101	44.8	109	51.06	117	57.95

HIDROGRAMAS PARCIAIS - Tr =							100	anos	HUT =	12.53	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							horas	minutos	HTS =	TR25	561.72	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							0.72	43		TR50	639.80	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							3.62	217		TR100	726.10	m ³ /s
							9.66	580				

d(h)	1.36	2.71	4.07	5.43	6.79	8.14	9.50	10.86		
d(min)	81.43	162.86	244.28	325.71	407.14	488.57	569.99	651.42		
P(mm)	77.99	100.54	115.56	127.22	136.90	145.26	152.68	159.37		
Pe(mm)	0.00	0.00	0.62	7.32	55.13	66.29	75.17	80.90		
ΔPe(mm)	0.00	0.00	0.62	6.70	47.81	11.16	8.88	5.74		

Δ Pe(mm)	d(min)	0.00	0.00	0.62	6.70	47.81	11.16	8.88	5.74	totais	OBRA:
	0	0.00								0.00	
	43	0.00	0.00							0.00	
	87	0.00	0.00	0.00						0.00	
	130	0.00	0.00	1.93	0.00					1.93	
	173	0.00	0.00	3.85	20.99	0.00				24.84	
	217	0.00	0.00	5.78	41.97	149.77	0.00			197.53	
	260	0.00	0.00	6.17	62.96	299.54	34.95	0.00		403.62	
	303	0.00	0.00	4.63	67.16	449.31	69.90	27.82	0.00	618.81	
	347	0.00	0.00	3.08	50.37	479.26	104.85	55.63	17.98	711.17	PONTE
	390	0.00	0.00	1.54	33.58	359.45	111.84	83.45	35.95	625.81	
	433	0.00	0.00	0.00	16.79	239.63	83.88	89.01	53.93	483.24	
	477	0.00	0.00	0.00	0.00	119.82	55.92	66.76	57.52	300.02	
	520	0.00	0.00	0.00	0.00	0.00	27.96	44.51	43.14	115.61	
	563	0.00	0.00	0.00	0.00	0.00	0.00	22.25	28.76	51.01	
	606	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.38	14.38	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				0.00	0.00	0.00	0.00	0.00	0.00	0.00	



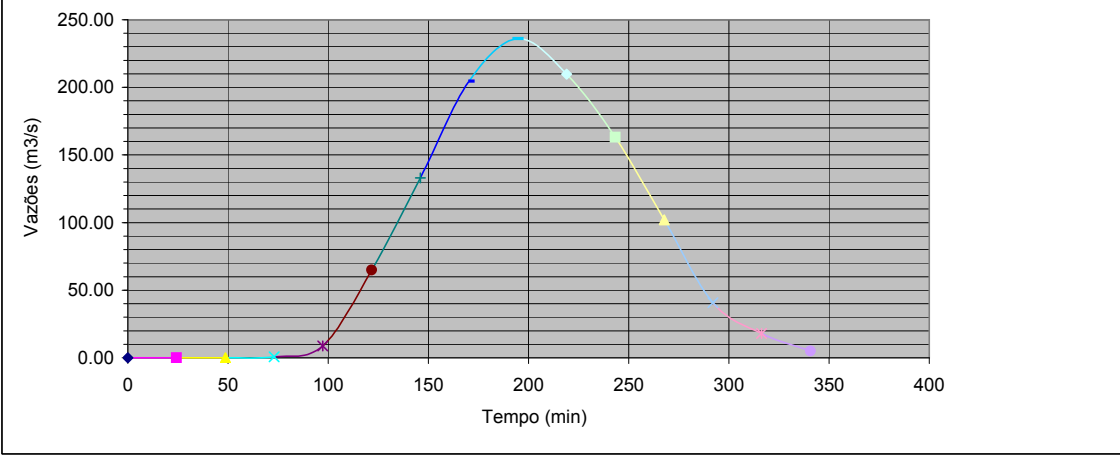
FERROVIA OESTE LESTE **LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Pregoica**

Curso d'água : km	1354	601	BACIA: 580				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
51.7	14.8	155.0	3.05	2.21	0.76	78	89	37.7	96	43.07	104	49.03

HIDROGRAMAS PARCIAIS - Tr = 100							100 anos		HUT =	4.86	m ³ /s/mm	
Duração das Precipitações Parciais: $d = tc * 0,133$							0.41	24	HTS =	TR25	183.19	m ³ /s
Cálculo do Tempo de Pico: $Tp' = d/2 + 0,6 tc$							2.03	122		TR50	209.37	m ³ /s
Cálculo do tempo de base: $Tb' = 2,67Tp'$							5.43	326		TR100	238.36	m ³ /s

d(h)	0.76	1.52	2.29	3.05	3.81	4.57	5.34	6.10		
d(min)	45.74	91.48	137.22	182.96	228.70	274.44	320.18	365.92		
P(mm)	61.61	81.54	94.63	104.70	113.02	120.17	126.50	132.19		
Pe(mm)	0.00	0.00	0.49	6.68	46.23	56.47	64.57	69.75		
ΔPe(mm)	0.00	0.00	0.49	6.19	39.55	10.23	8.10	5.18		

Δ Pe(mm)	d(min)	0.00	0.00	0.49	6.19	39.55	10.23	8.10	5.18	totais	OBRA:
	0	0.00								0.00	
	24	0.00	0.00							0.00	
	49	0.00	0.00	0.00						0.00	
	73	0.00	0.00	0.60	0.00					0.60	
	97	0.00	0.00	1.19	7.53	0.00				8.72	
	122	0.00	0.00	1.79	15.05	48.07	0.00			64.90	
	146	0.00	0.00	1.90	22.58	96.14	12.44	0.00		133.05	
	170	0.00	0.00	1.43	24.08	144.20	24.87	9.85	0.00	204.44	
	195	0.00	0.00	0.95	18.06	153.82	37.31	19.70	6.29	236.13	PONTE
	219	0.00	0.00	0.48	12.04	115.36	39.80	29.54	12.59	209.81	
	243	0.00	0.00	0.00	6.02	76.91	29.85	31.51	18.88	163.17	
	268	0.00	0.00	0.00	0.00	38.45	19.90	23.64	20.14	102.13	
	292	0.00	0.00	0.00	0.00	0.00	9.95	15.76	15.11	40.81	
	316	0.00	0.00	0.00	0.00	0.00	0.00	7.88	10.07	17.95	
	341	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04	5.04	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	



FERROVIA OESTE LESTE LC-2F KM 1253 - KM 1371 Rio Jacaré - Rio Preguiça

Curso d'água : km	1358	131	BACIA: 591				Tr = 25	Tr = 50		Tr = 100		
Ad(km ²)	L (km)	H(m)	Tc(h)	Tp(h)	D(h)	CN	P(mm)	Pe(mm)	P(mm)	Pe(mm)	P(mm)	Pe(mm)
17.9	4.7	19.0	1.83	1.33	0.46	71	77	19.1	83	22.61	89	26.64
HIDROGRAMAS PARCIAIS - Tr =							25	anos		HUT = 2.80 m ³ /s/mm		
							horas	minutos		HTS =		
Duração das Precipitações Parciais: d = tc*0,133							0.24	15		TR25 53.44 m ³ /s		
Cálculo do Tempo de Pico: Tp' = d/2 + 0,6 tc							1.22	73		TR50 63.41 m ³ /s		
Cálculo do tempo de base: Tb' = 2,67Tp'							3.26	196		TR100 74.72 m ³ /s		
d(h)	0.46	0.92	1.37	1.83	2.29	2.75	3.20	3.66				
d(min)	27.47	54.94	82.40	109.87	137.34	164.81	192.27	219.74				
P(mm)	41.81	57.26	67.36	75.06	81.38	86.80	91.57	95.86				
Pe(mm)	0.00	0.00	0.00	1.01	17.66	23.58	28.42	31.54				
ΔPe(mm)	0.00	0.00	0.00	1.01	16.66	5.92	4.84	3.12				

Δ Pe(mm)										OBRA:
d(min)	0.00	0.00	0.00	1.01	16.66	5.92	4.84	3.12	totais	
0	0.00									0.00
15	0.00	0.00								0.00
29	0.00	0.00	0.00							0.00
44	0.00	0.00	0.00	0.00						0.00
58	0.00	0.00	0.00	0.70	0.00					0.70
73	0.00	0.00	0.00	1.41	11.68	0.00				13.09
88	0.00	0.00	0.00	2.11	23.36	4.15	0.00			29.62
102	0.00	0.00	0.00	2.26	35.03	8.30	3.39	0.00		48.98
117	0.00	0.00	0.00	1.69	37.37	12.44	6.79	2.19		60.48
132	0.00	0.00	0.00	1.13	28.03	13.27	10.18	4.38		56.99
146	0.00	0.00	0.00	0.56	18.69	9.96	10.86	6.57		46.63
161	0.00	0.00	0.00	0.00	9.34	6.64	8.14	7.00		31.13
175	0.00	0.00	0.00	0.00	0.00	3.32	5.43	5.25		14.00
190	0.00	0.00	0.00	0.00	0.00	0.00	2.71	3.50		6.22
205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75		1.75
		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
			0.00	0.00	0.00	0.00	0.00	0.00		0.00

